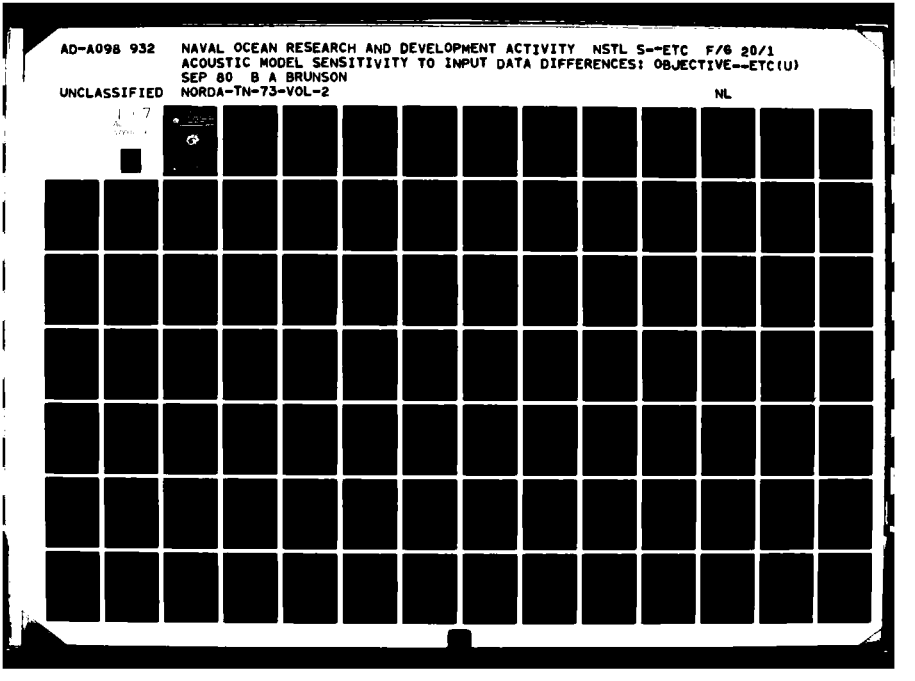
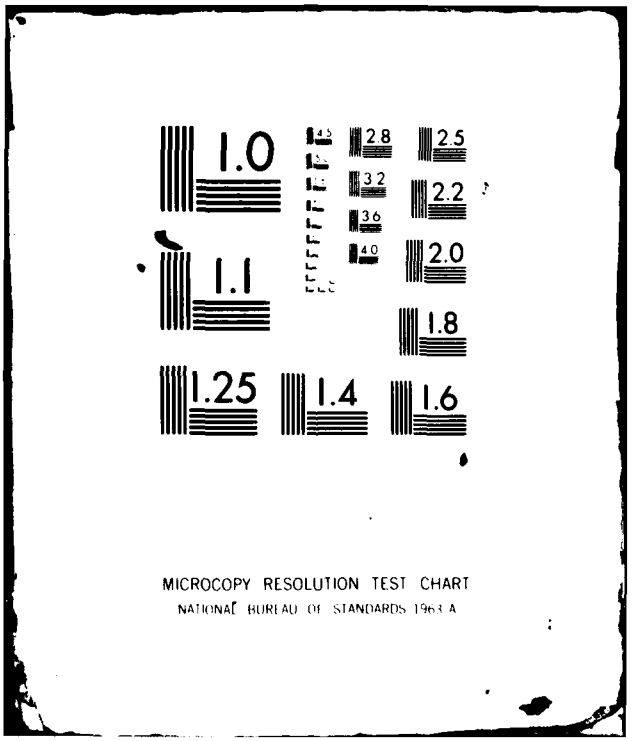
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ACOUSTIC MODEL SENSITIVITY TO INPUT DATA DIFFERENCES: OBJECTIVE--ETC(U)
SEP 80 B A BRUNSON
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963 A

Naval Ocean Research
and Development Activity
NSTL Station, Mississippi 39529

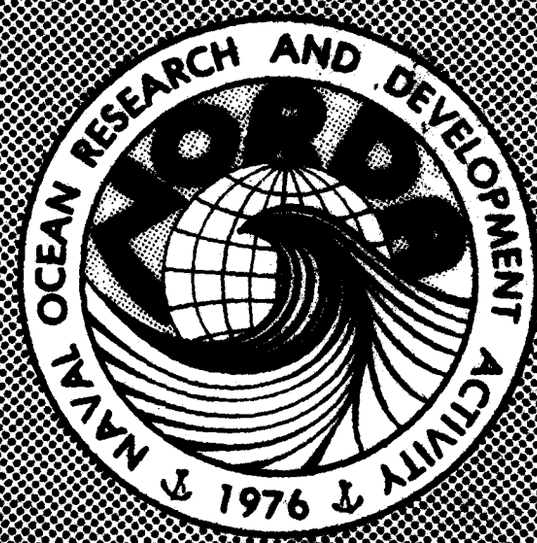
LEVEL II (11)

NORDA Technical Note 73
(14) NORDA-TN-73-VOL-2

(6) Acoustic Model Sensitivity to Input Data Differences: Objective Analysis Scheme Outputs, Volume II.

(9) Final rpt. 1 Oct 79-30 Sep 80.

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(10) David A. Brunson

(12) 640

Numerical Modeling Division
Ocean Science and Technology Laboratory

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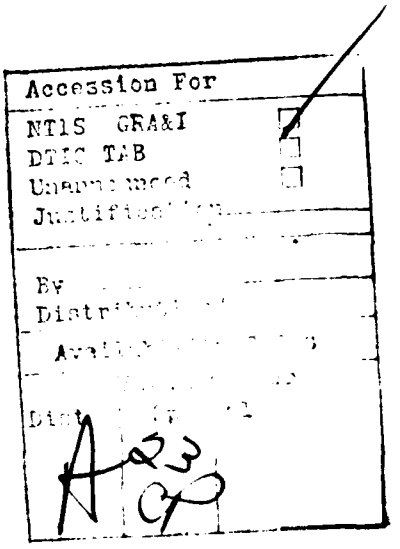
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ABSTRACT

This volume of the Acoustic Model Sensitivity to Input Data Differences report contains the printed and graphical outputs of the objective analysis scheme employed in the determination of the acoustic model sensitivity to input data differences observed in a comparison of the SIMAS and ICAPS data bases. These outputs serve to substantiate the observations and conclusions contained in Volume I of this report. The sensor ID codes provided on each plot or printout allow the reader to determine the sensor configuration used in each analysis case. The key is provided in Table D1 of Volume I.



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A. Propagation Loss Comparison Plots

1. Introduction

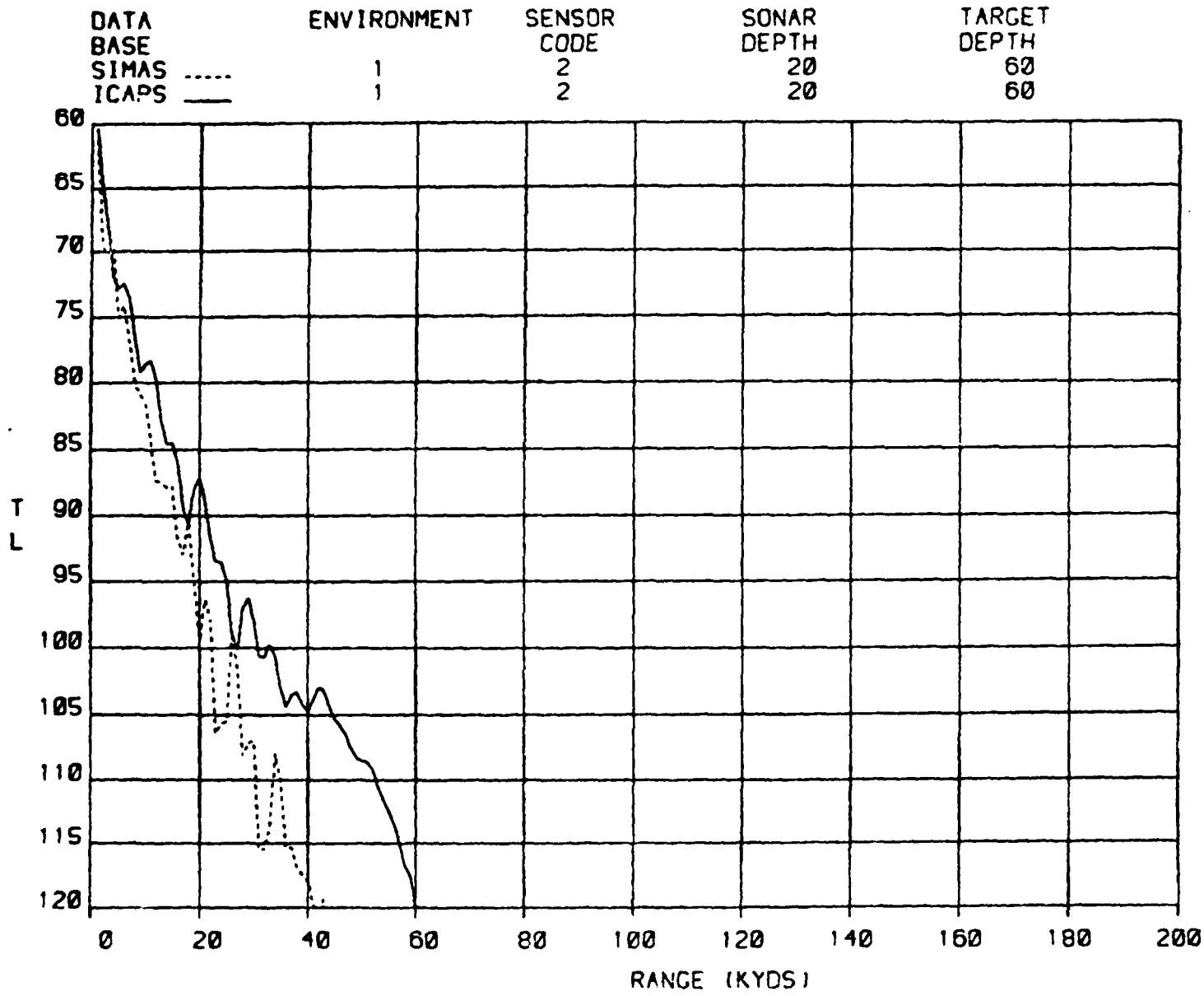
This section of the Acoustic Model Sensitivity to Input Data Differences report consists of a collection of propagation loss comparison plots. The plots result from the exercising of the acoustic model RAYMODE as implemented in the Sonar Insitu Mode Assessment System. The model runs were executed on a DEC PDP-11 minicomputer. Input environmental data were derived from the SIMAS and ICAPS data bases for six selected environments. The model was exercised for each data base, for each environment, for 28 selected ASW sensor configurations. Thus a total of 336 model runs were made resulting in the 168 comparison plots provided in this section.

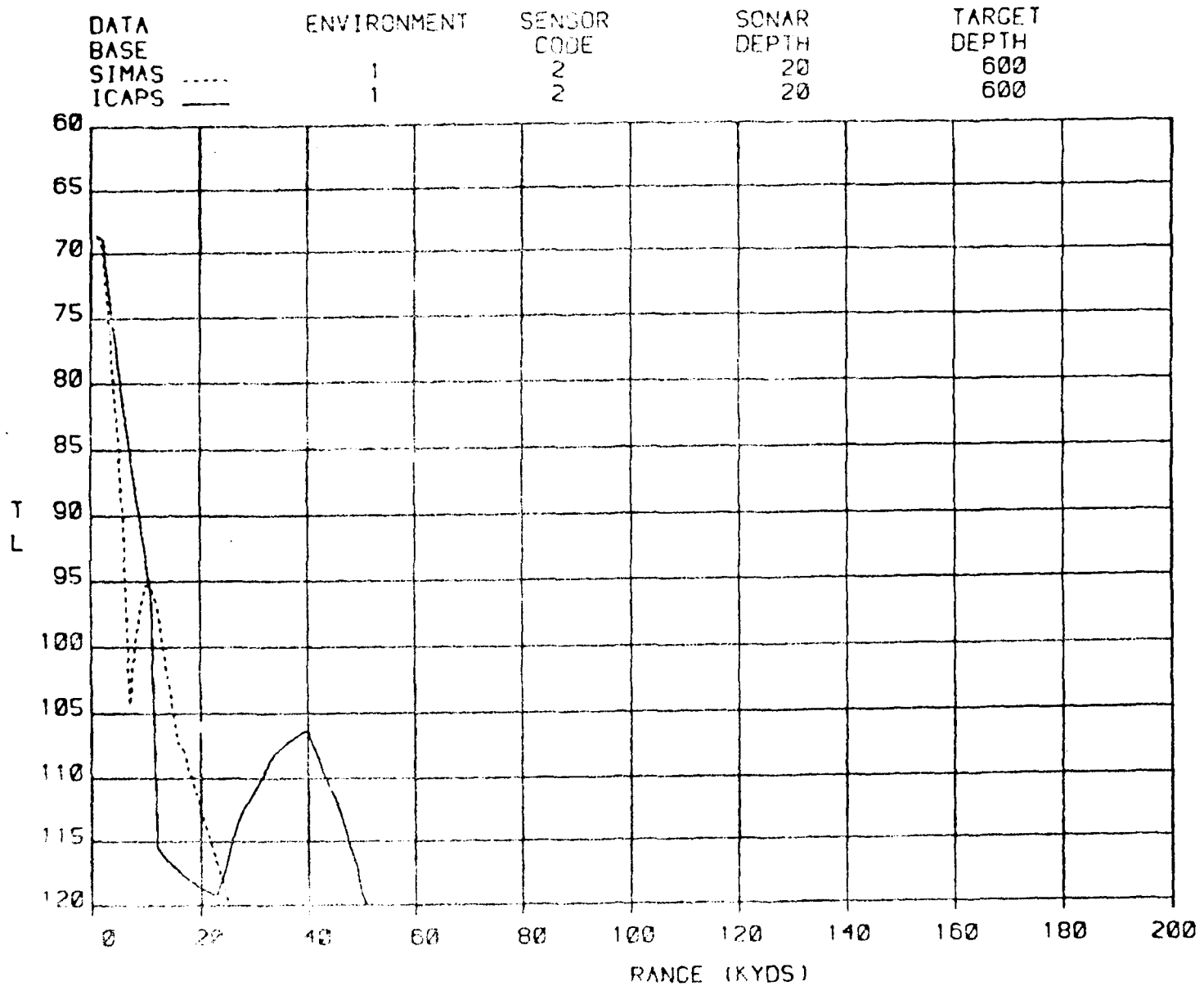
2. Plot Description

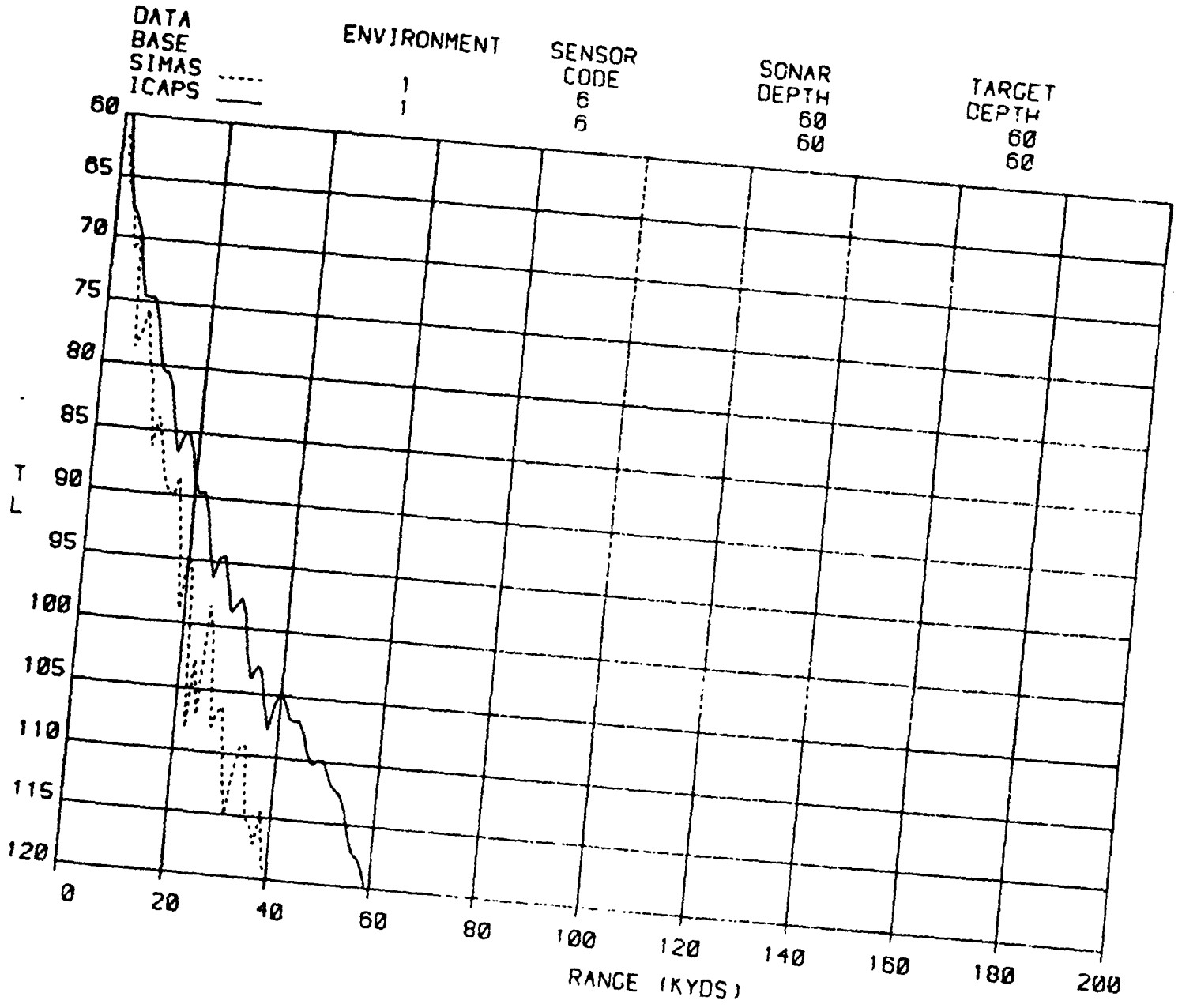
The plot format is identical for each case run. Propagation Loss (or transmission loss, TL) in decibels (relative to the acoustic intensity at one yard) is plotted as a function of range in kiloyards. The TL scale extends from 60 dB to 120 dB in 5 dB increments. The calculations were actually made over the interval 1 to 200 kiloyards in 1 kiloyard increments.

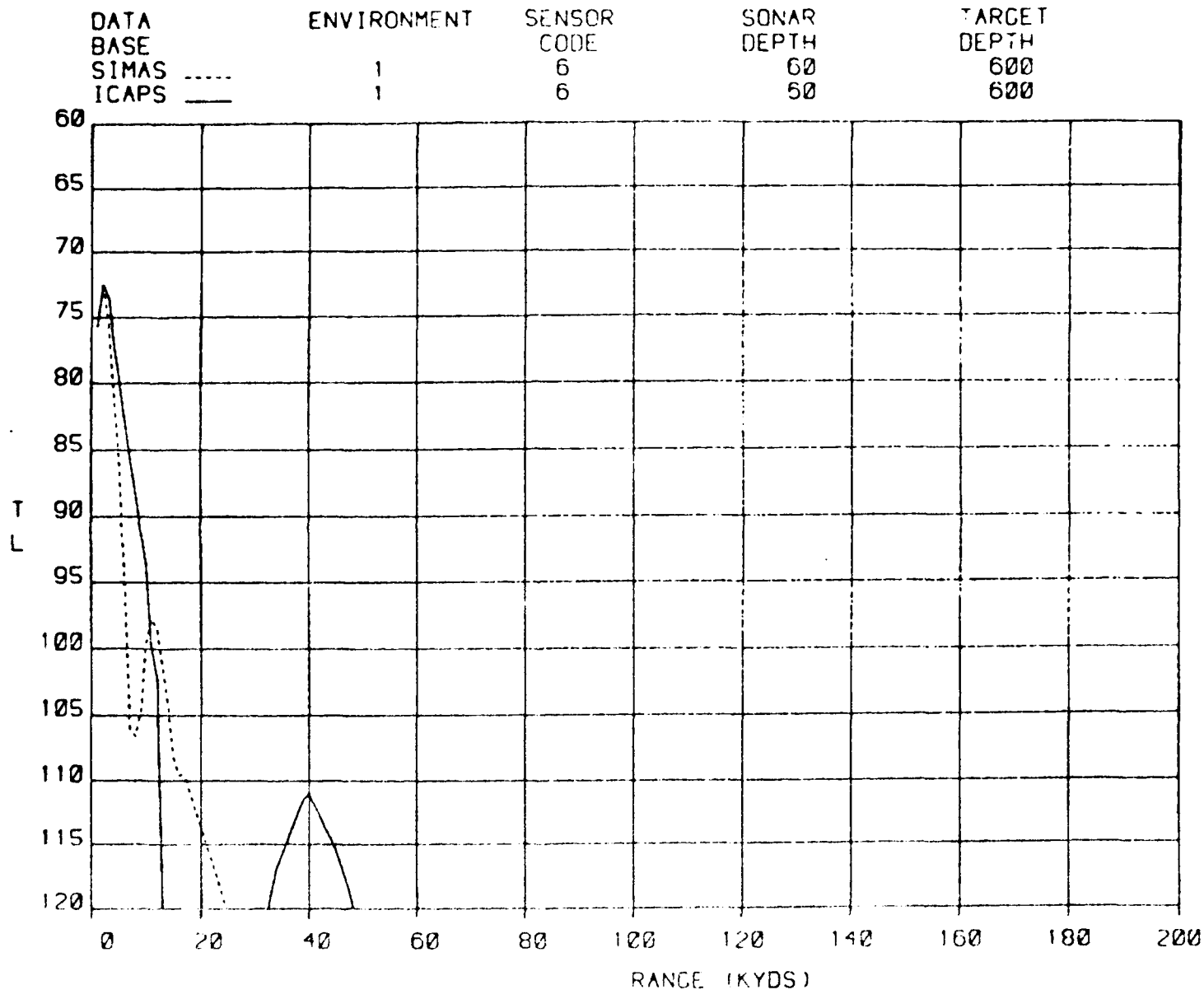
Each plot contains a header which delineates the data base, environment, sensor code, sonar depth (feet), and target depth (feet). The actual curves consist of a dashed curve representing TL calculated using SIMAS data and a solid line calculated using ICAPS data. A full description of the environment may be found in Volume I Section B. The characteristics of the sensors including designation, frequency, and vertical beamwidth may be found in Volume I Section D.

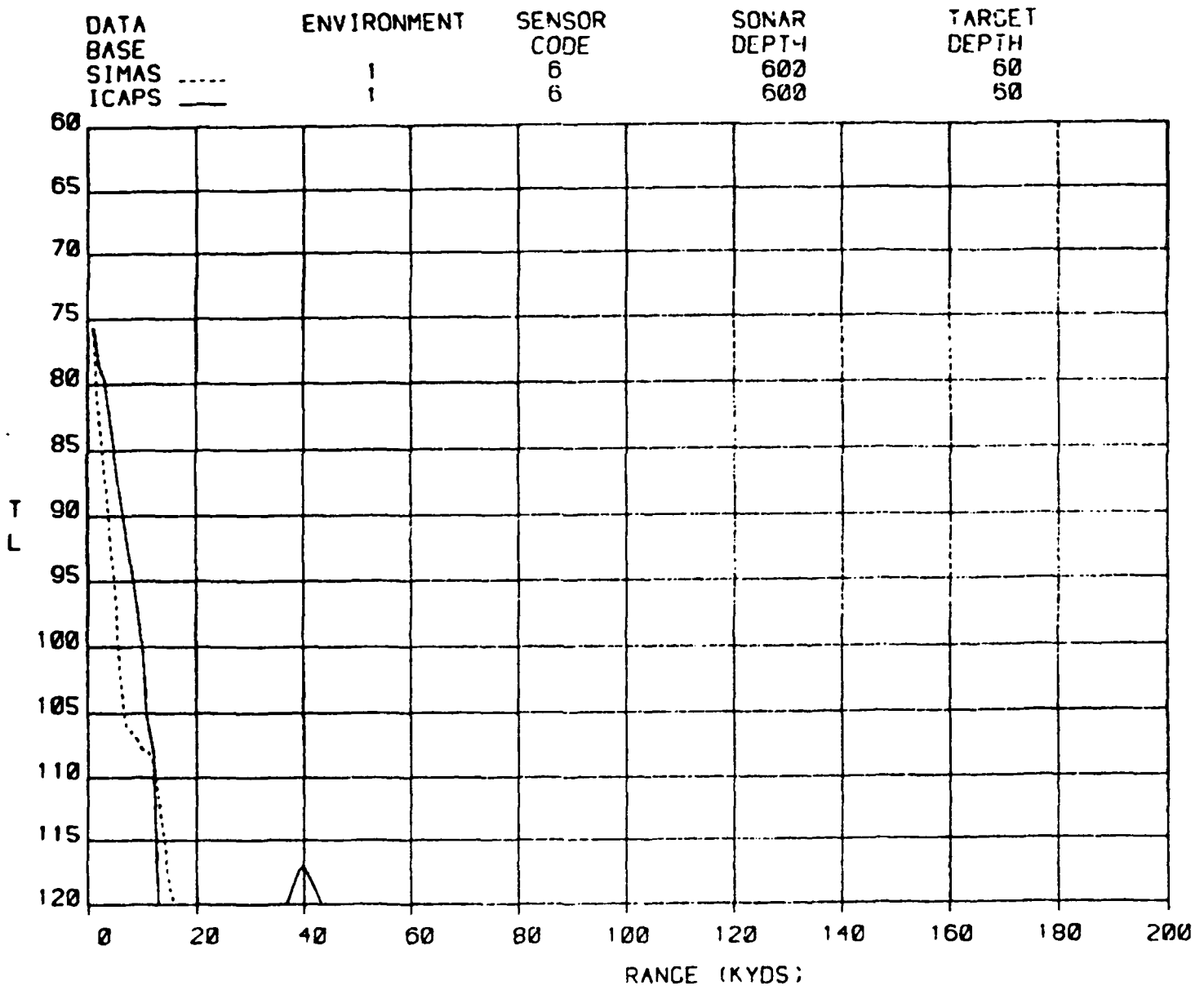
Each plot has been characterized by a written description including probable causes for observed differences between the two curves. These may be found as Propagation Loss Summary Description Tables in Volume I, Section E.

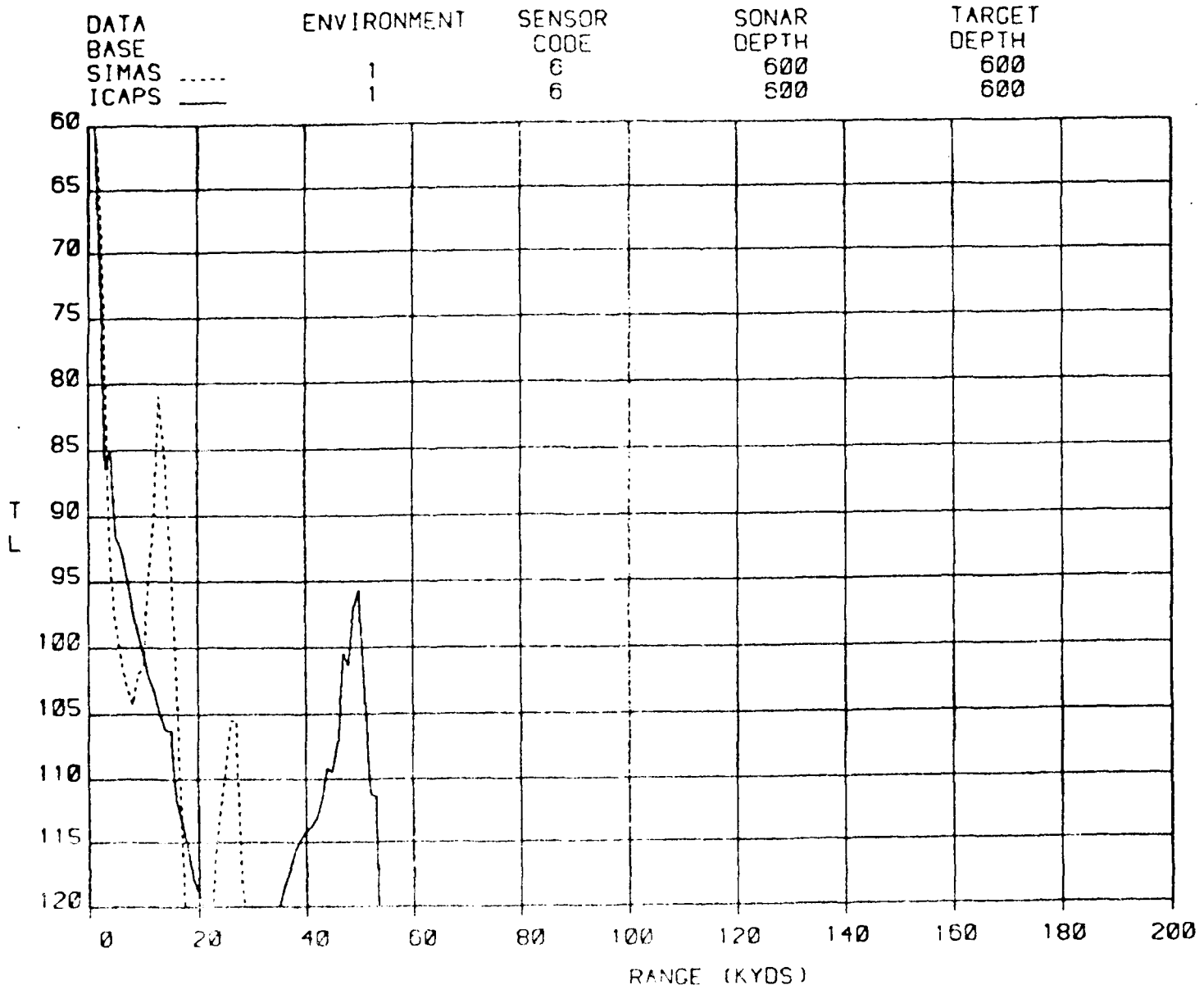

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 2 20 60
ICAPS ____ 1 2 20 60
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

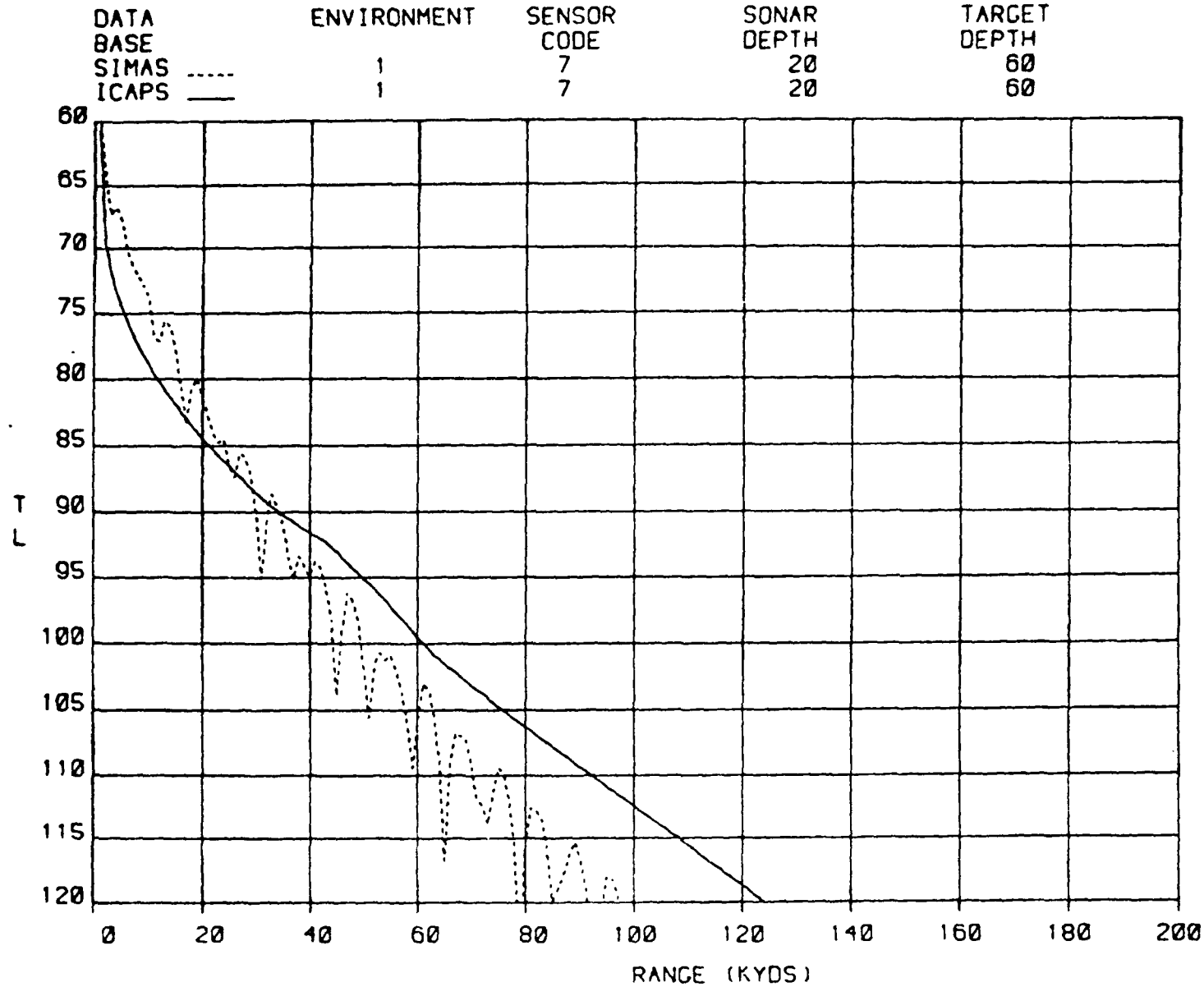

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 1 2 20 600
ICAPS ____ 1 2 20 600
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

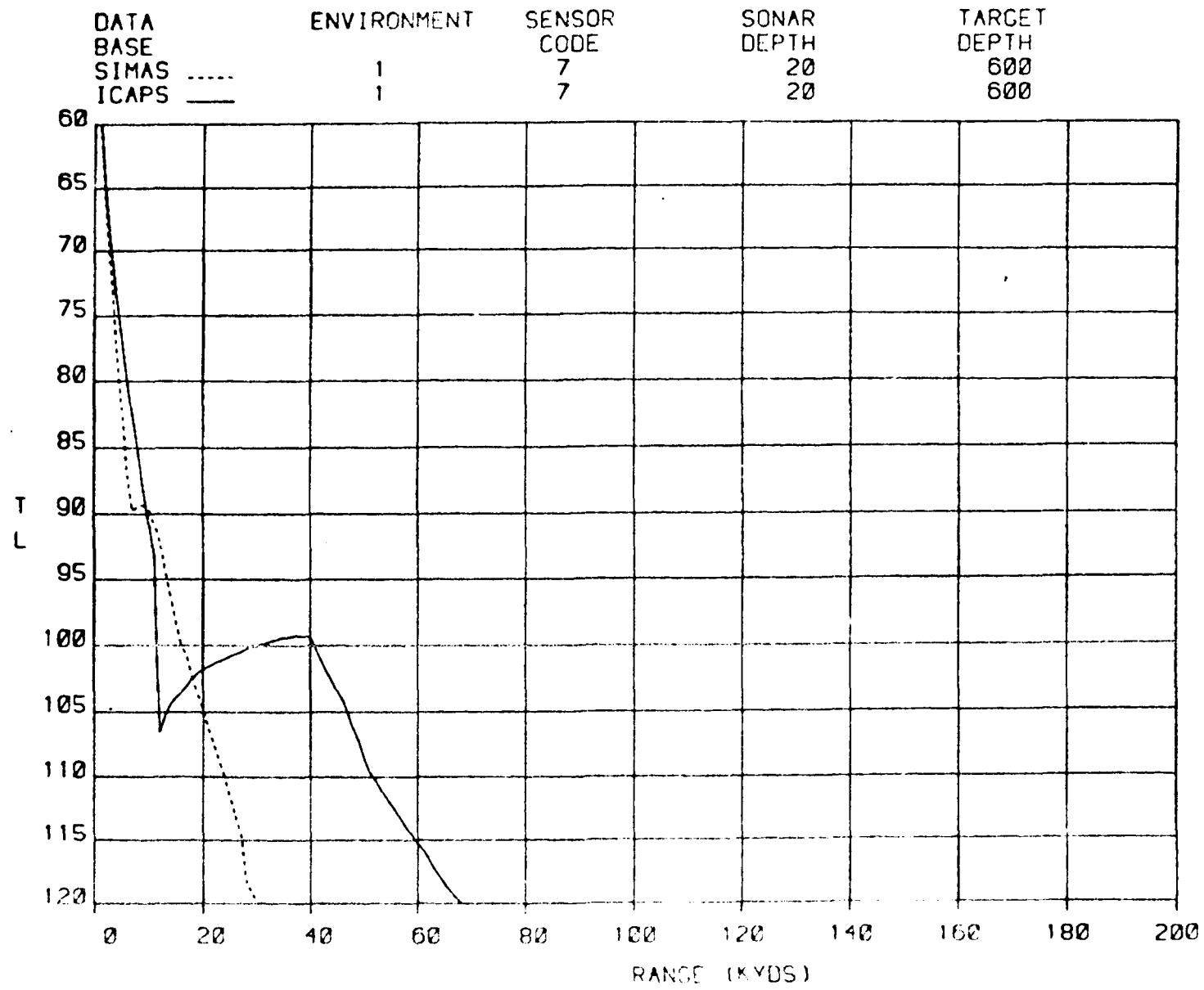

DATA BASE
SIMAS .....
ICAPS ——
ENVIRONMENT
1
1
SENSOR CODE
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6
SONAR DEPTH
60
60
TARGET DEPTH
60
60
T L
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65
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75
80
85
90
95
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180
200
RANGE (KYDS)

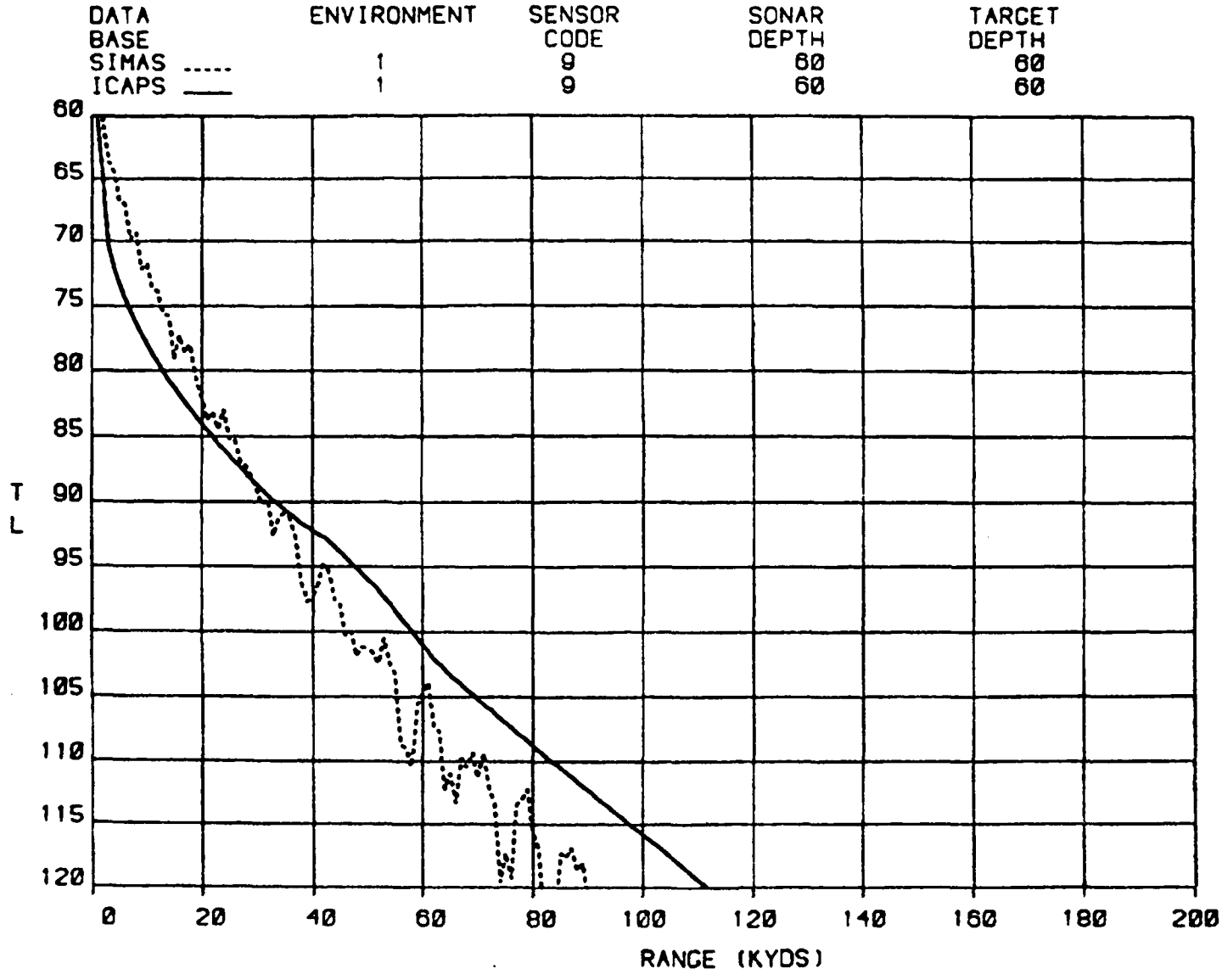

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 6 60 600
ICAPS ___ 1 6 50 600
60
65
70
75
80
85
90
95
100
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110
115
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T
L
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180
200
RANGE (KYDS)

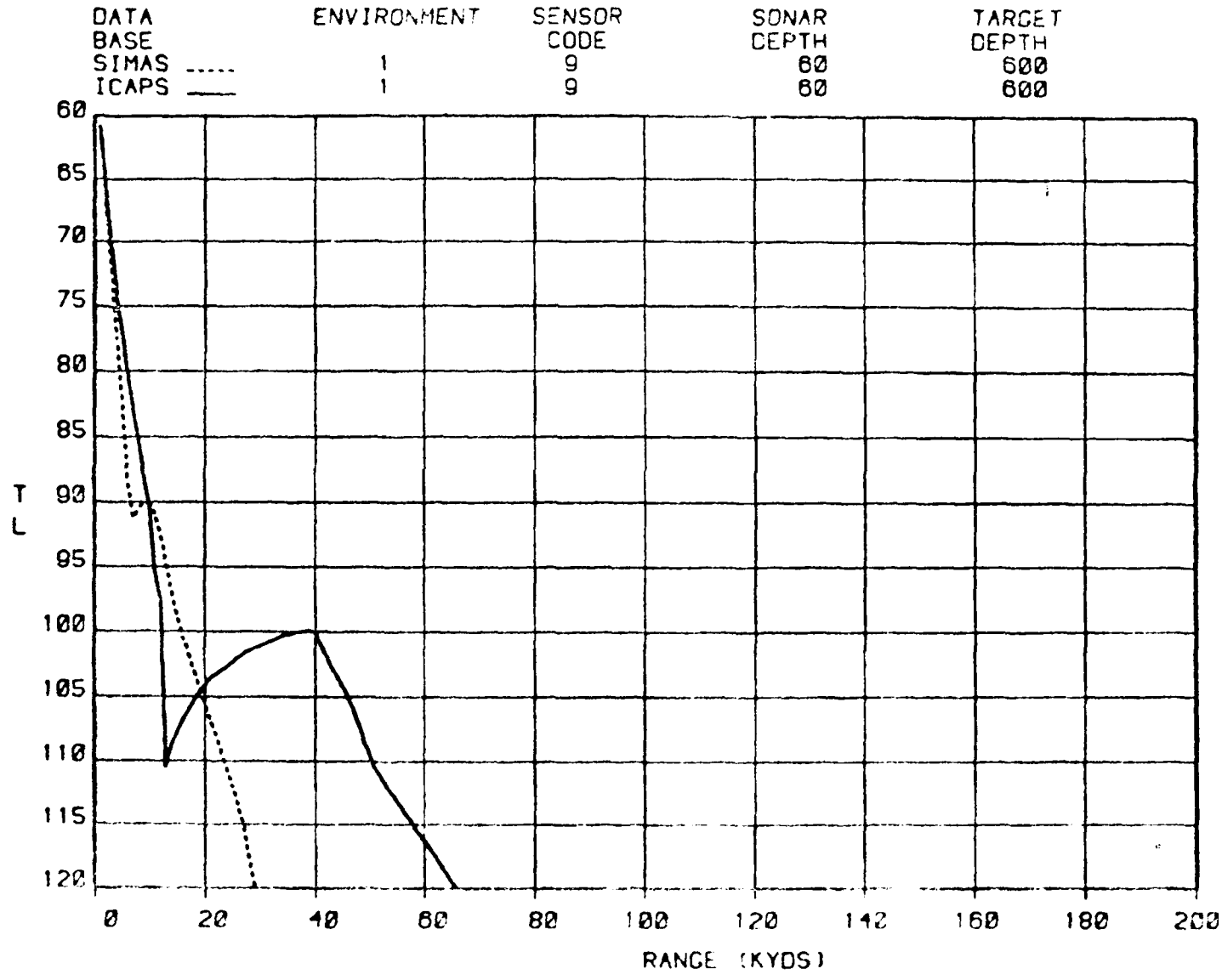

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 6 600 60
ICAPS ___ 1 6 600 50
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65
70
75
80
85
90
95
100
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T L
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180
200
RANGE (KYDS)

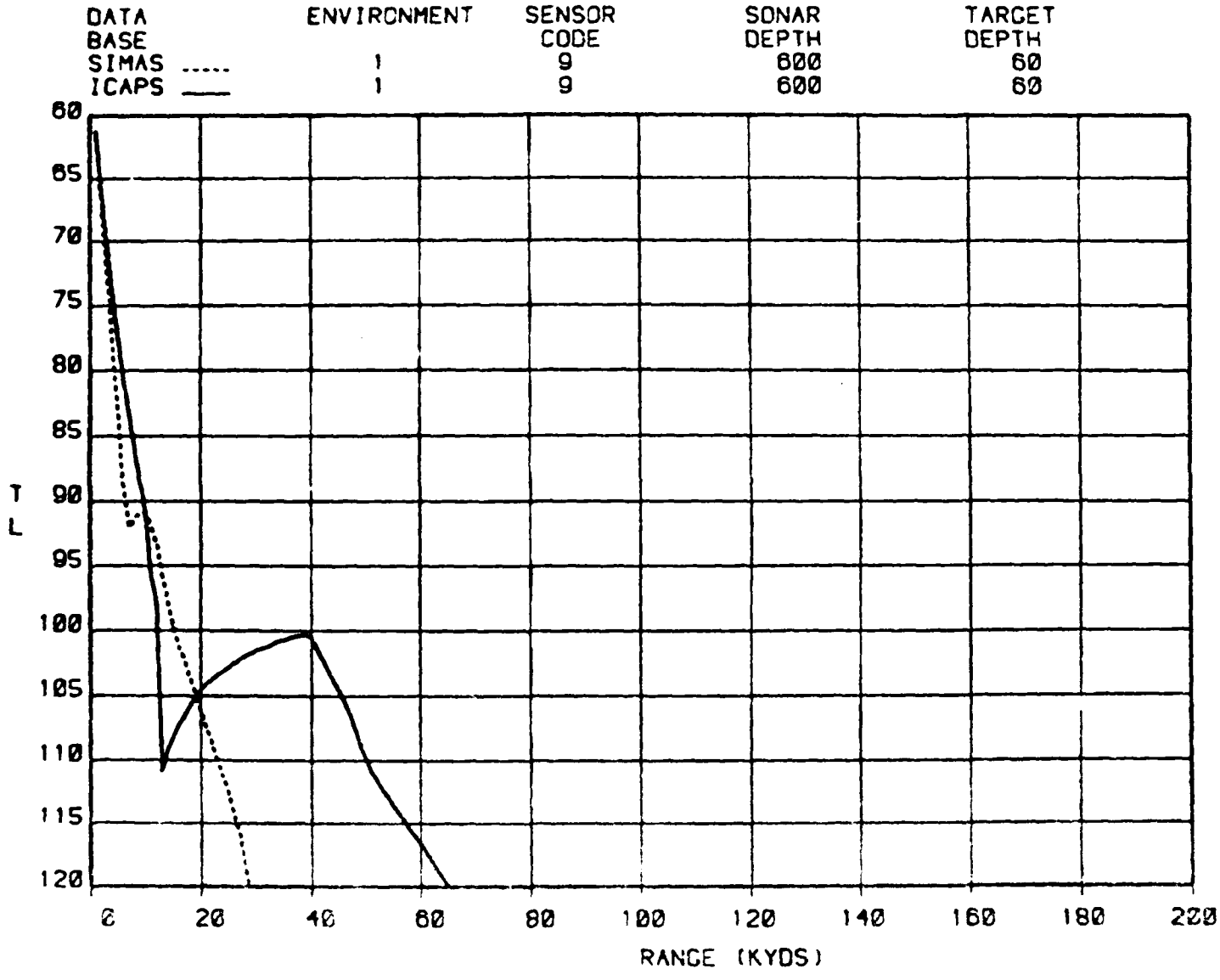

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 6 600 600
ICAPS ____ 1 6 500 600
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RANGE (KYDS)

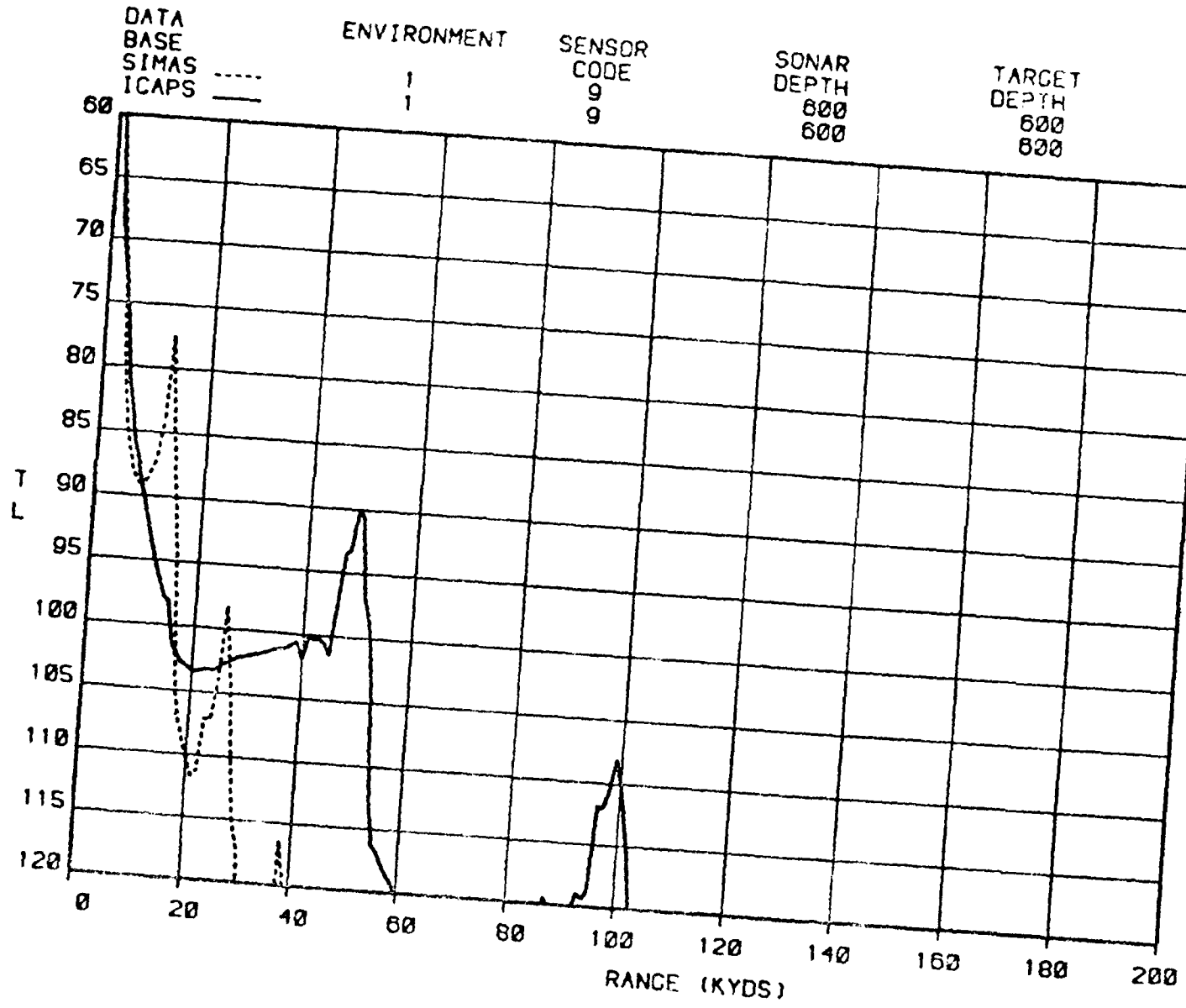

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
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ICAPS ____ 1 7 20 60
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RANGE (KYDS)

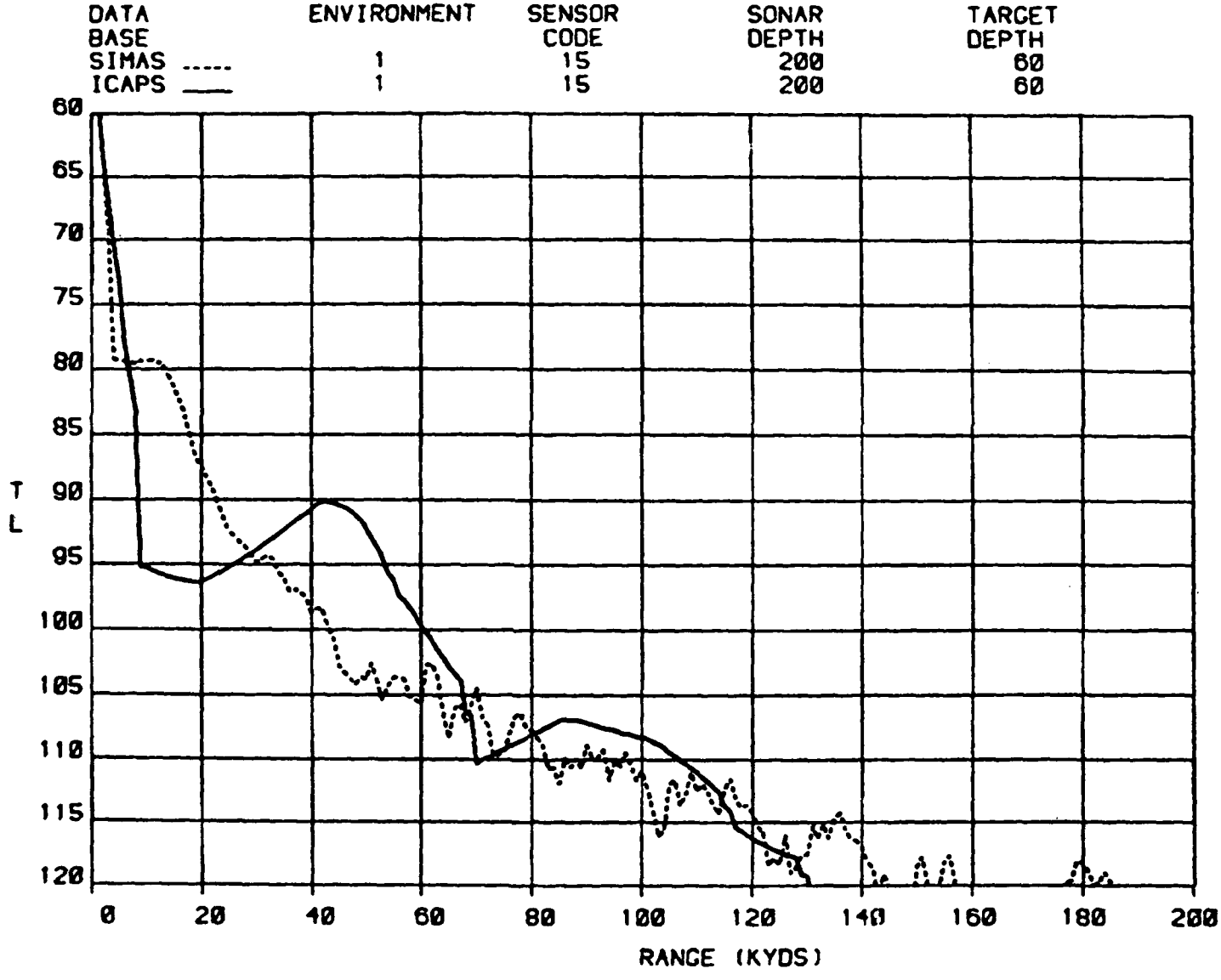

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 7 20 600
ICAPS ____ 1 7 20 600
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RANGE (KYDS)

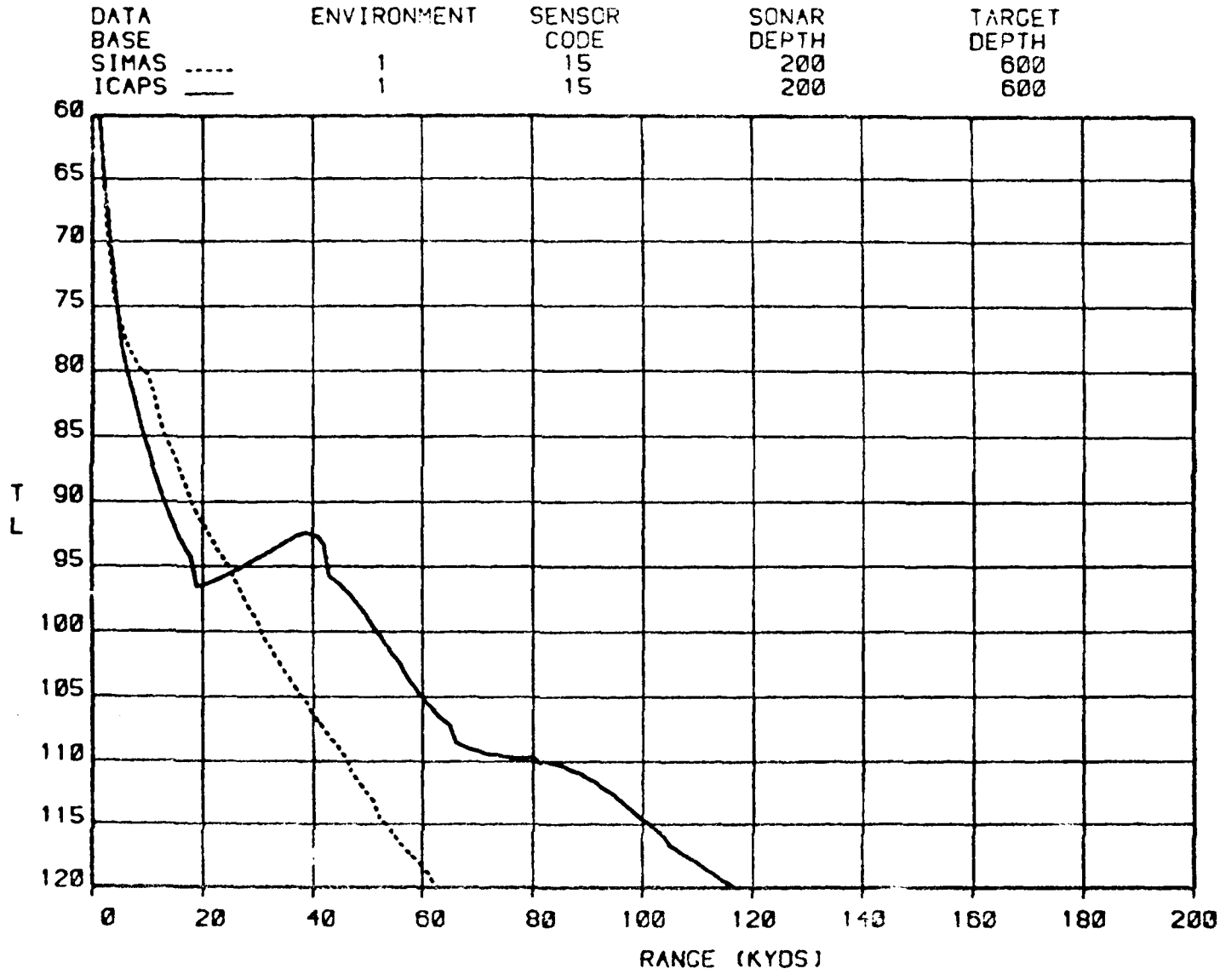

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 9 60 60
ICAPS ____ 1 9 60 60
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RANGE (KYDS)

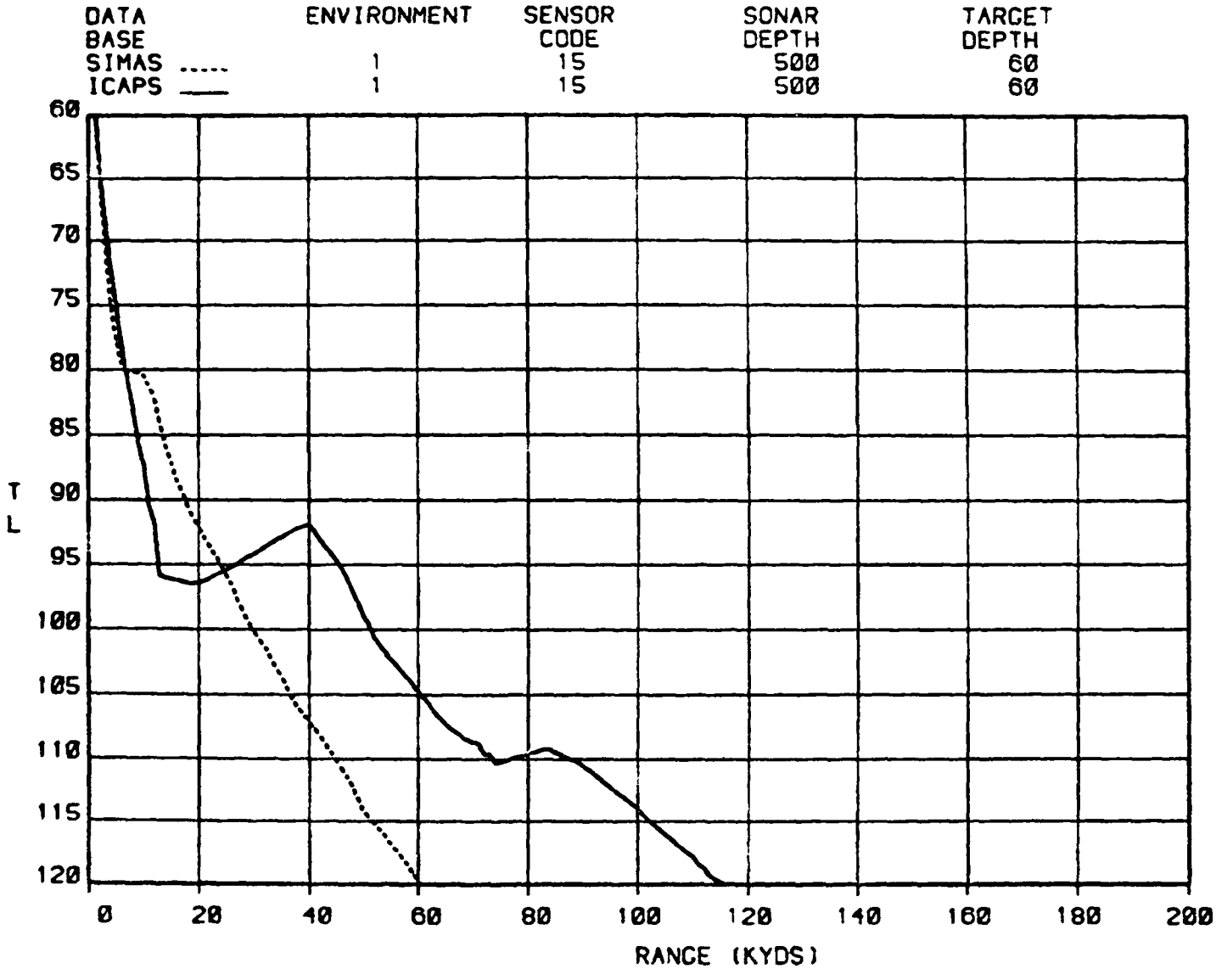

DATA BASE
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SIMAS ----- 1 9 60 600
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RANGE (KYDS)

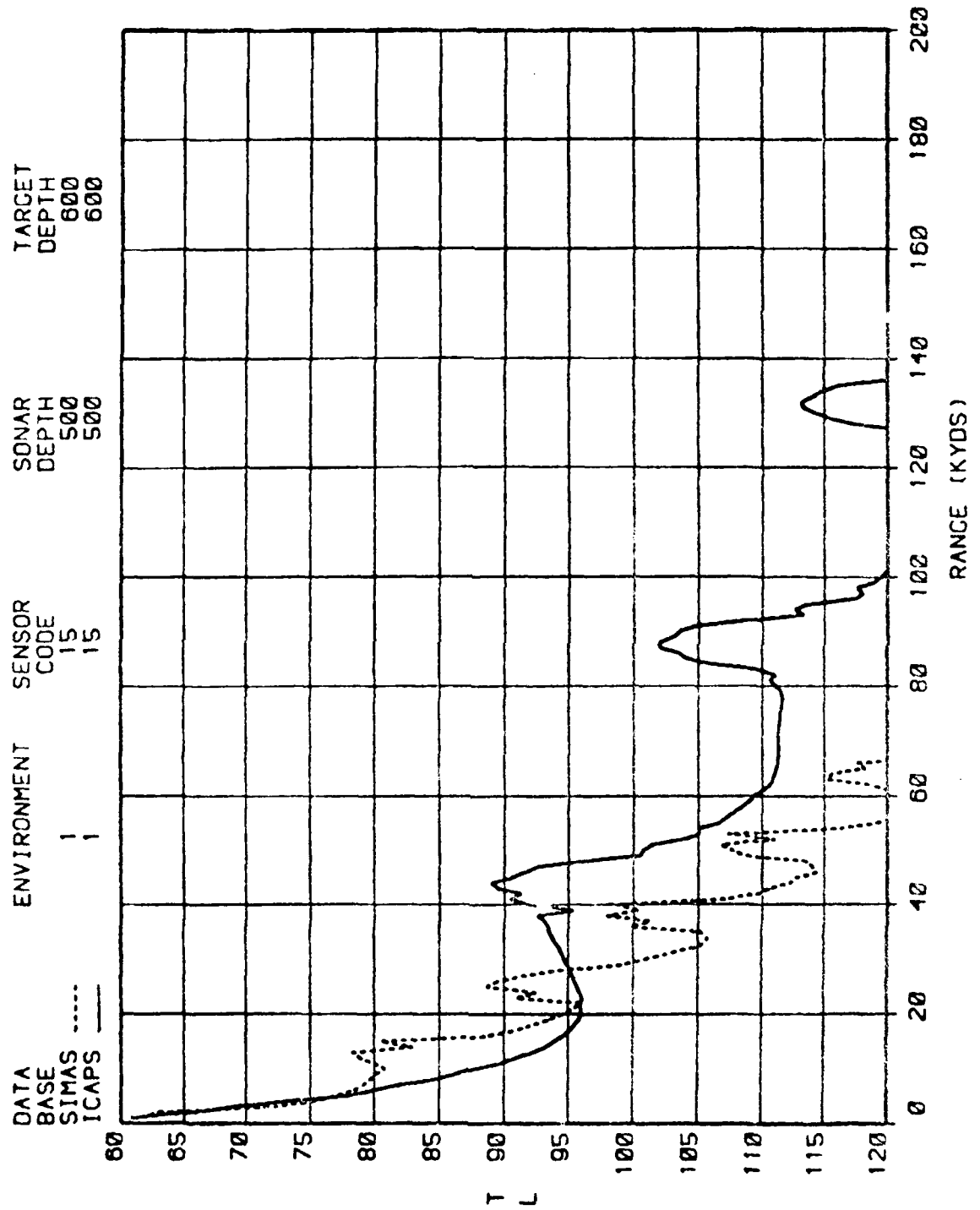

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 9 600 60
ICAPS ____ 1 9 600 60
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RANGE (KYDS)

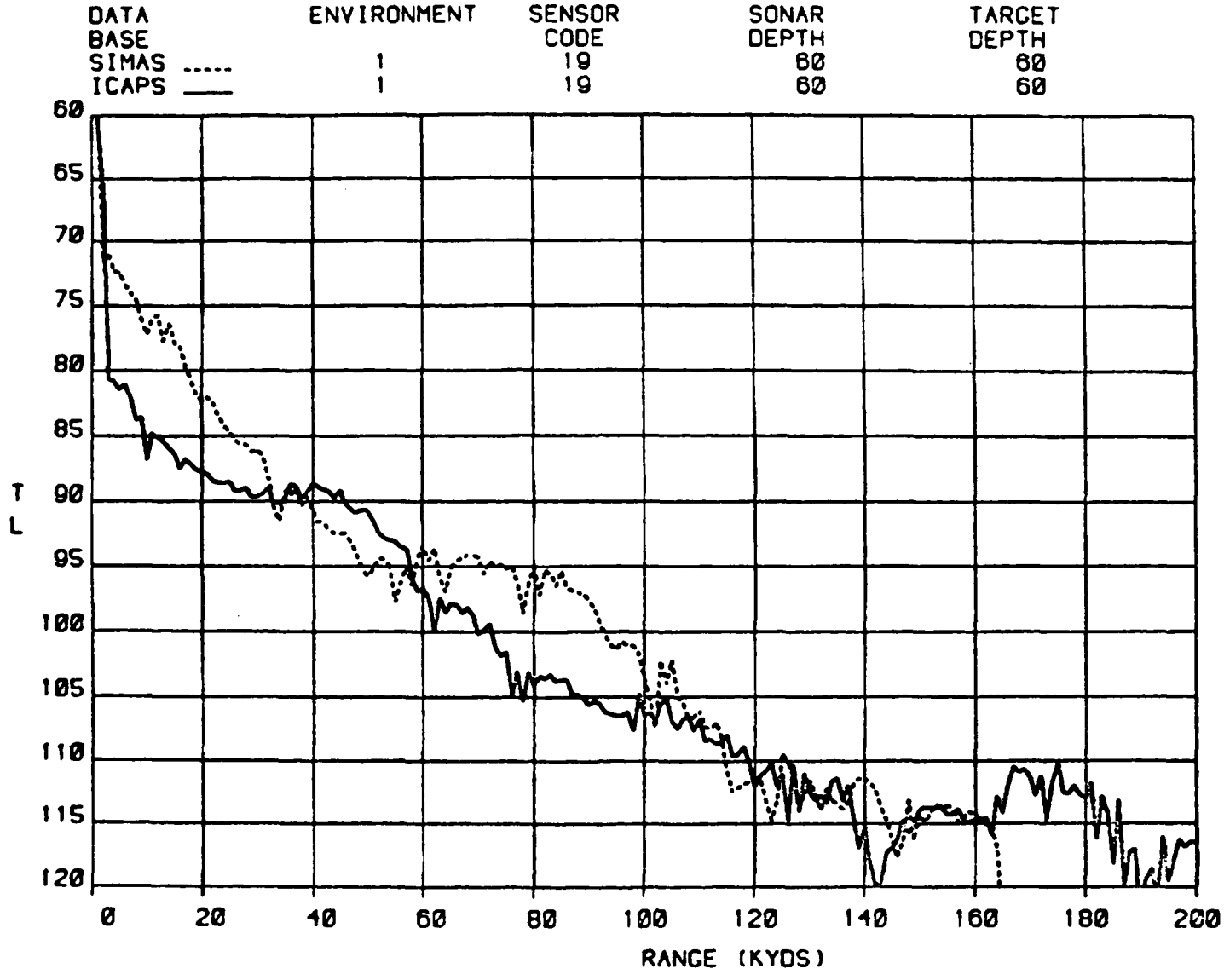

DATA BASE
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ICAPS ——
ENVIRONMENT
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SENSOR CODE
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9
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600
TARGET DEPTH
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600
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RANGE (KYDS)

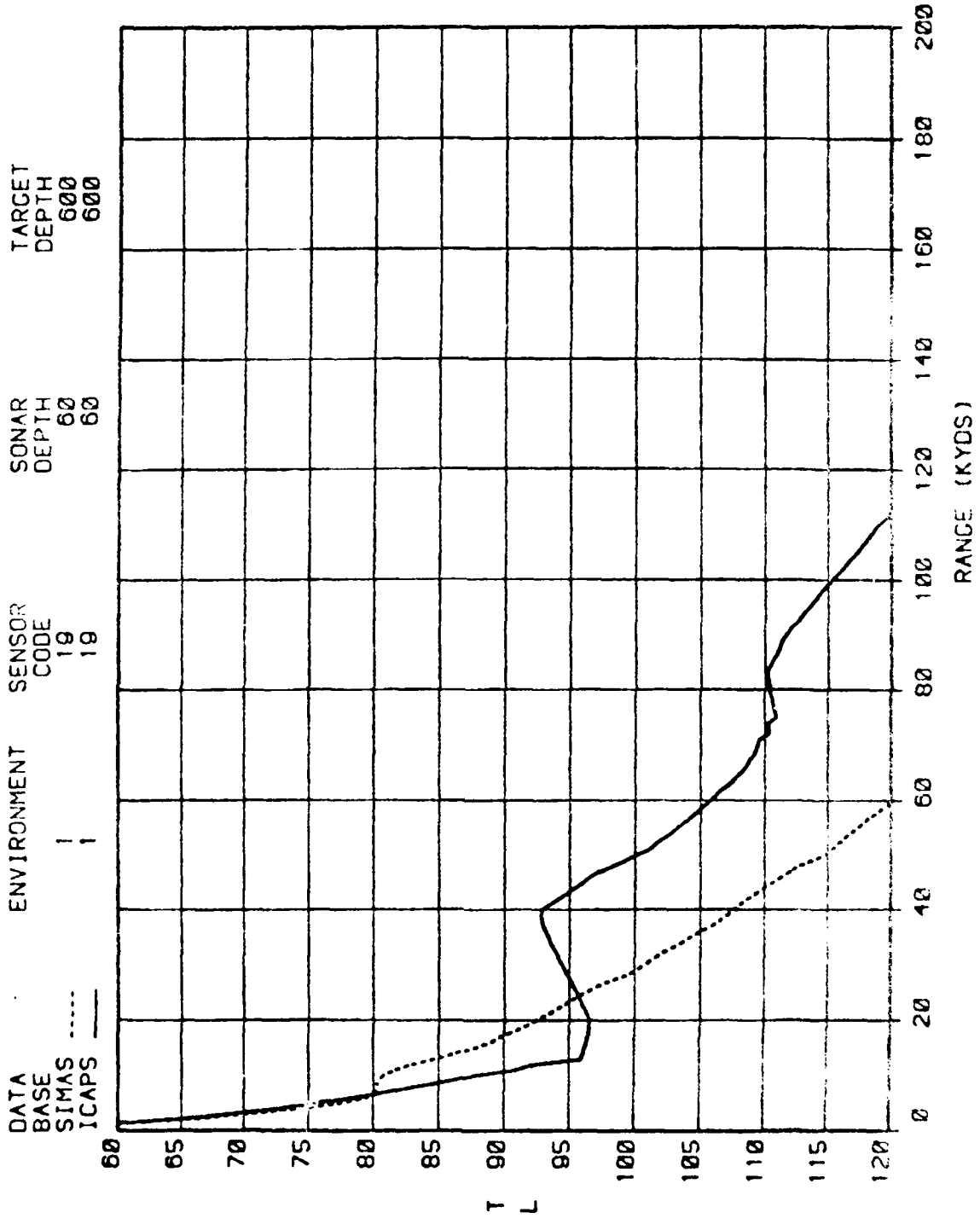

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 15 200 60
ICAPS ____ 1 15 200 60
60
65
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75
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85
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T L
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RANGE (KYDS)

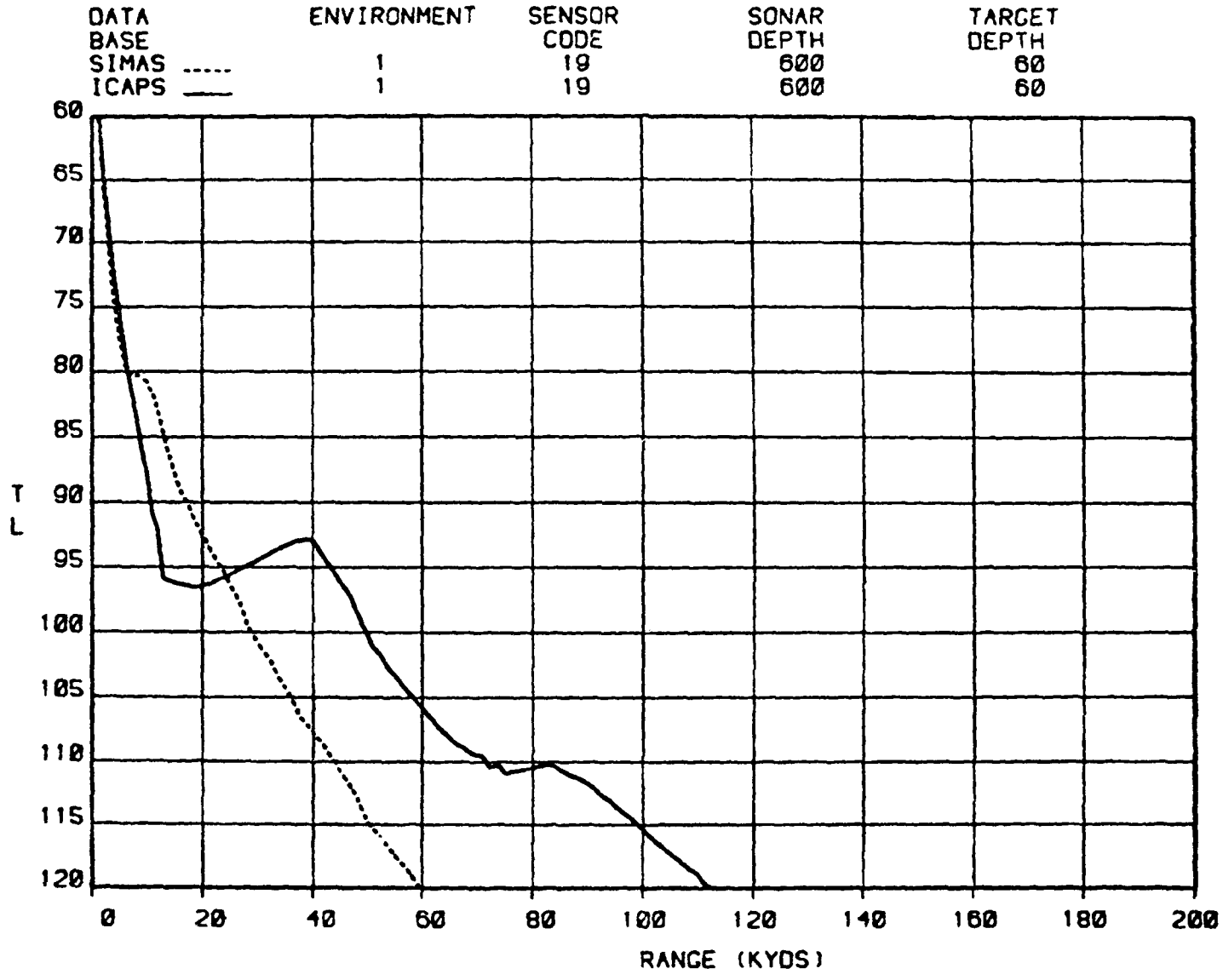

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 15 200 600
ICAPS ____ 1 15 200 600
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75
80
85
90
95
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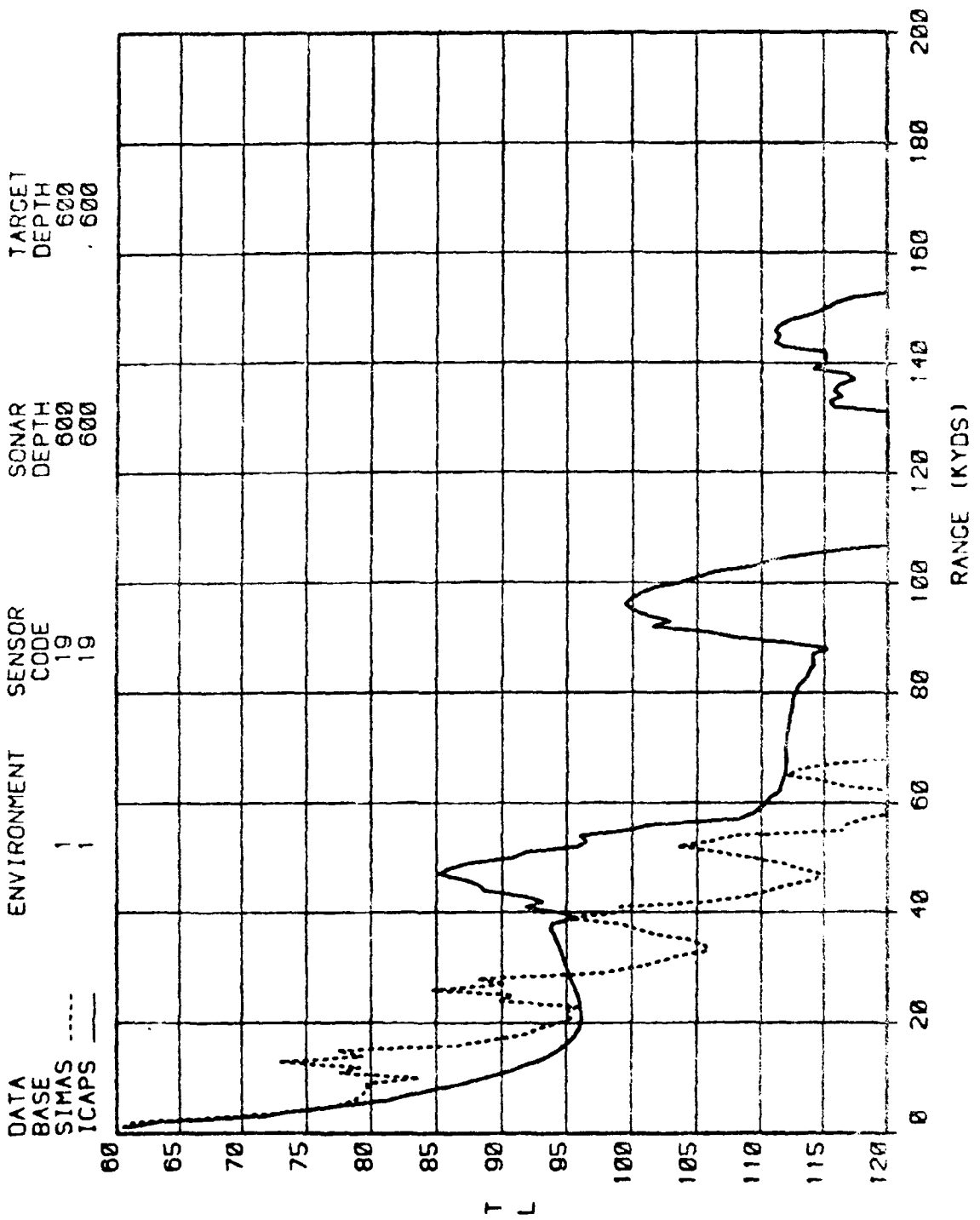

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 15 500 60
ICAPS ——— 1 15 500 60
60
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70
75
80
85
90
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RANGE (KYDS)

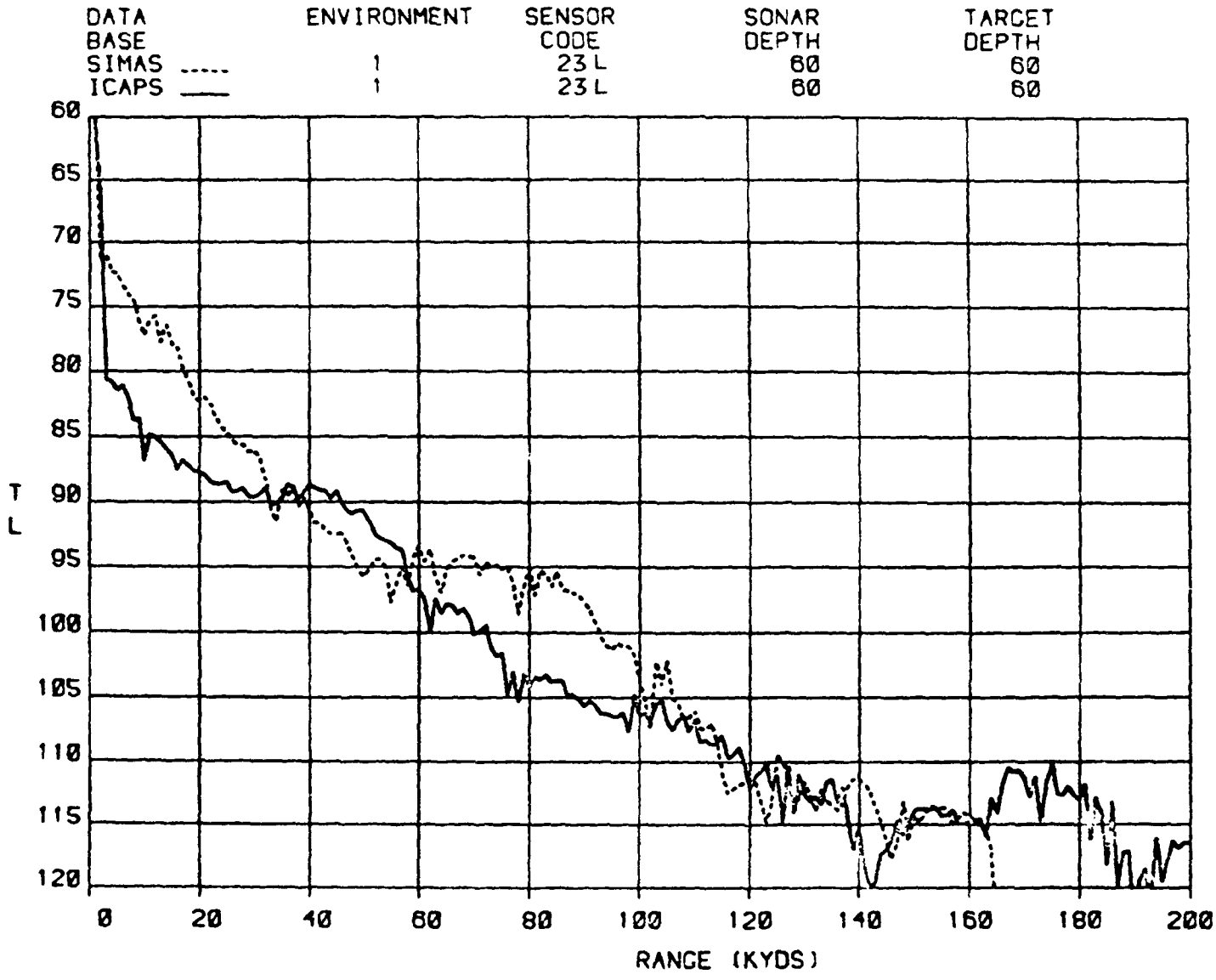

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ICAPS ——
ENVIRONMENT
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T L
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RANGE (KYDS)

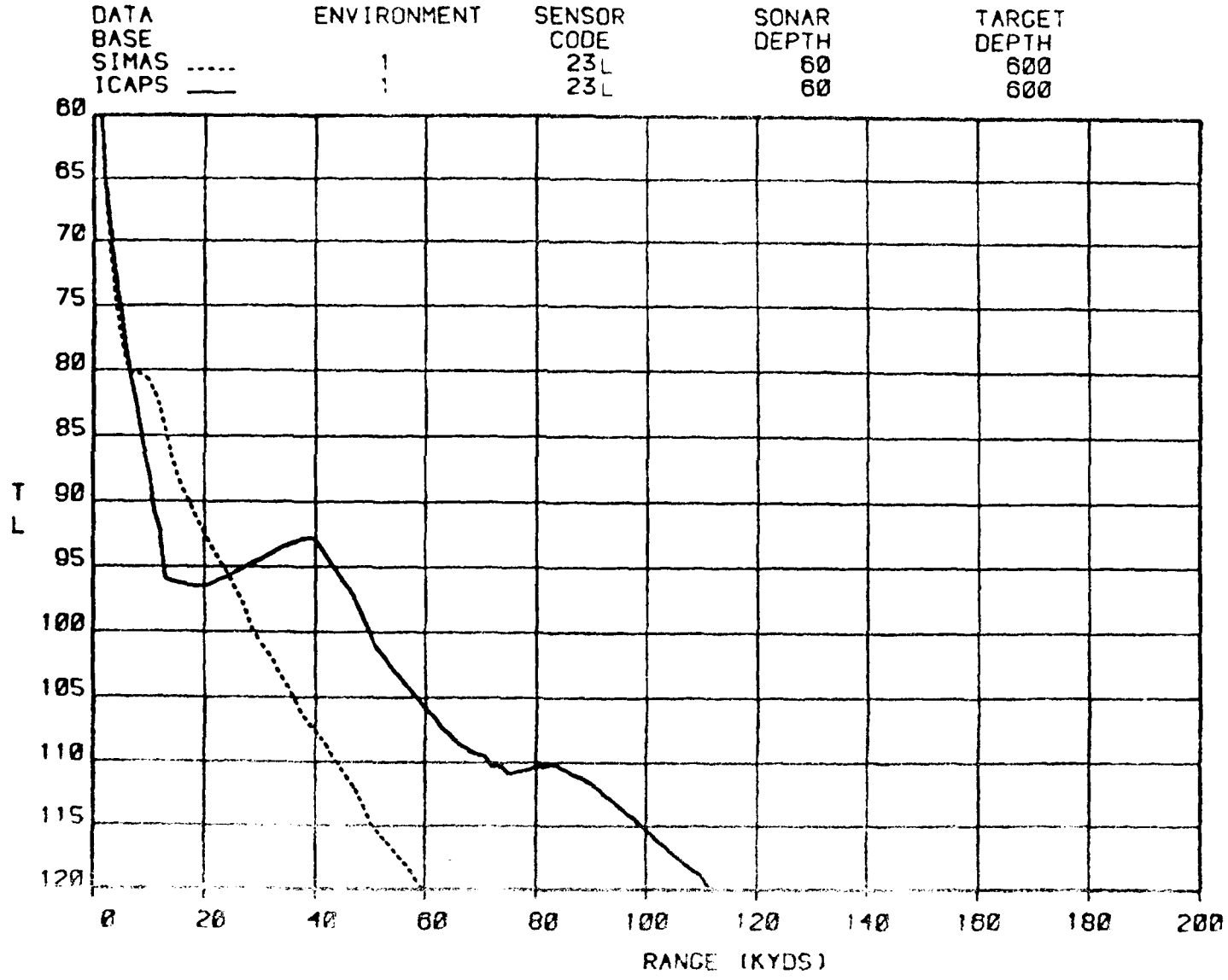

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 19 60 60
ICAPS ____ 1 19 60 60
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75
80
85
90
95
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T L
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RANGE (KYDS)

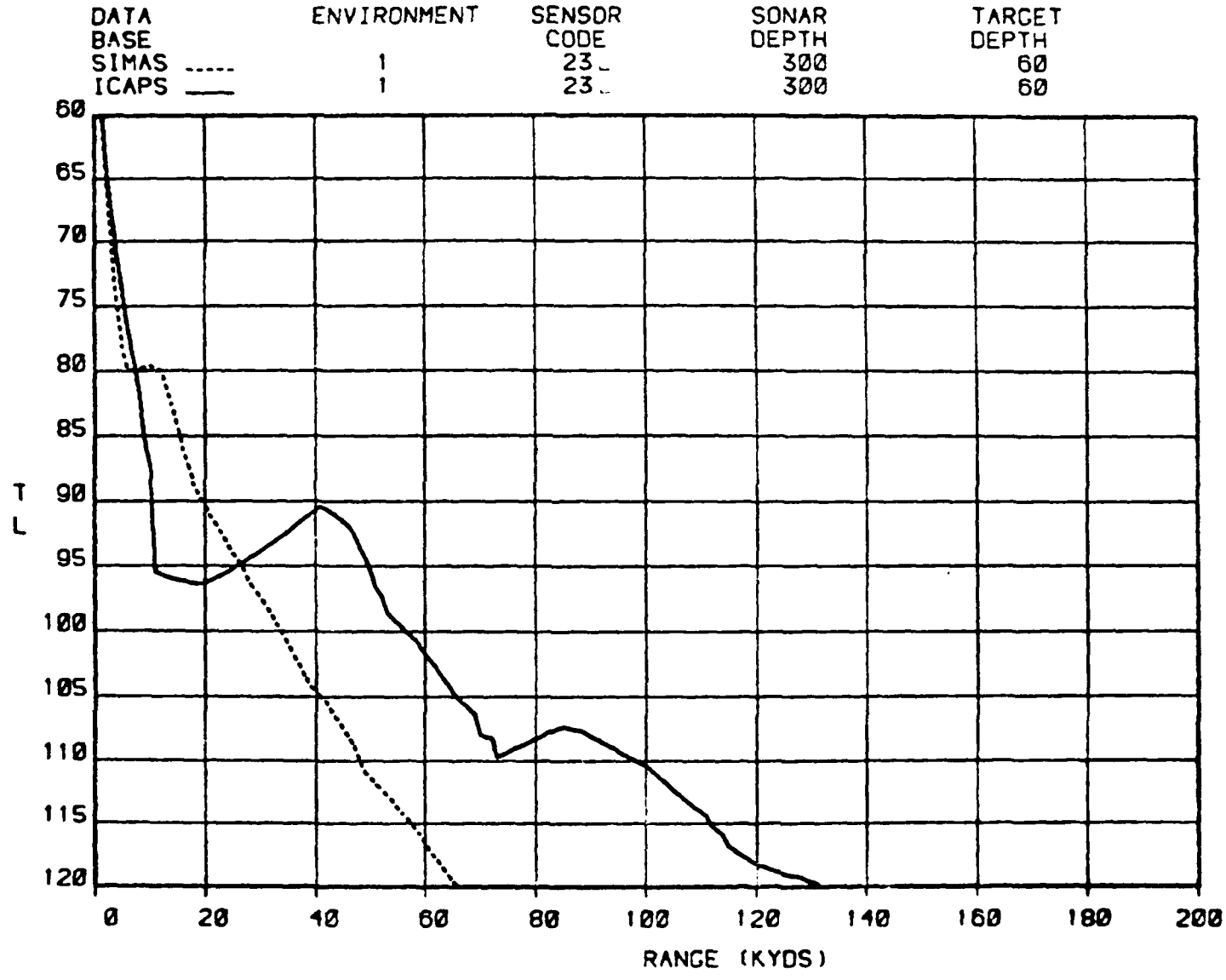

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
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1
SENSOR CODE
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19
SONAR DEPTH
60
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TARGET DEPTH
600
600
60
65
70
75
80
85
90
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T L
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200
RANGE (KYDS)

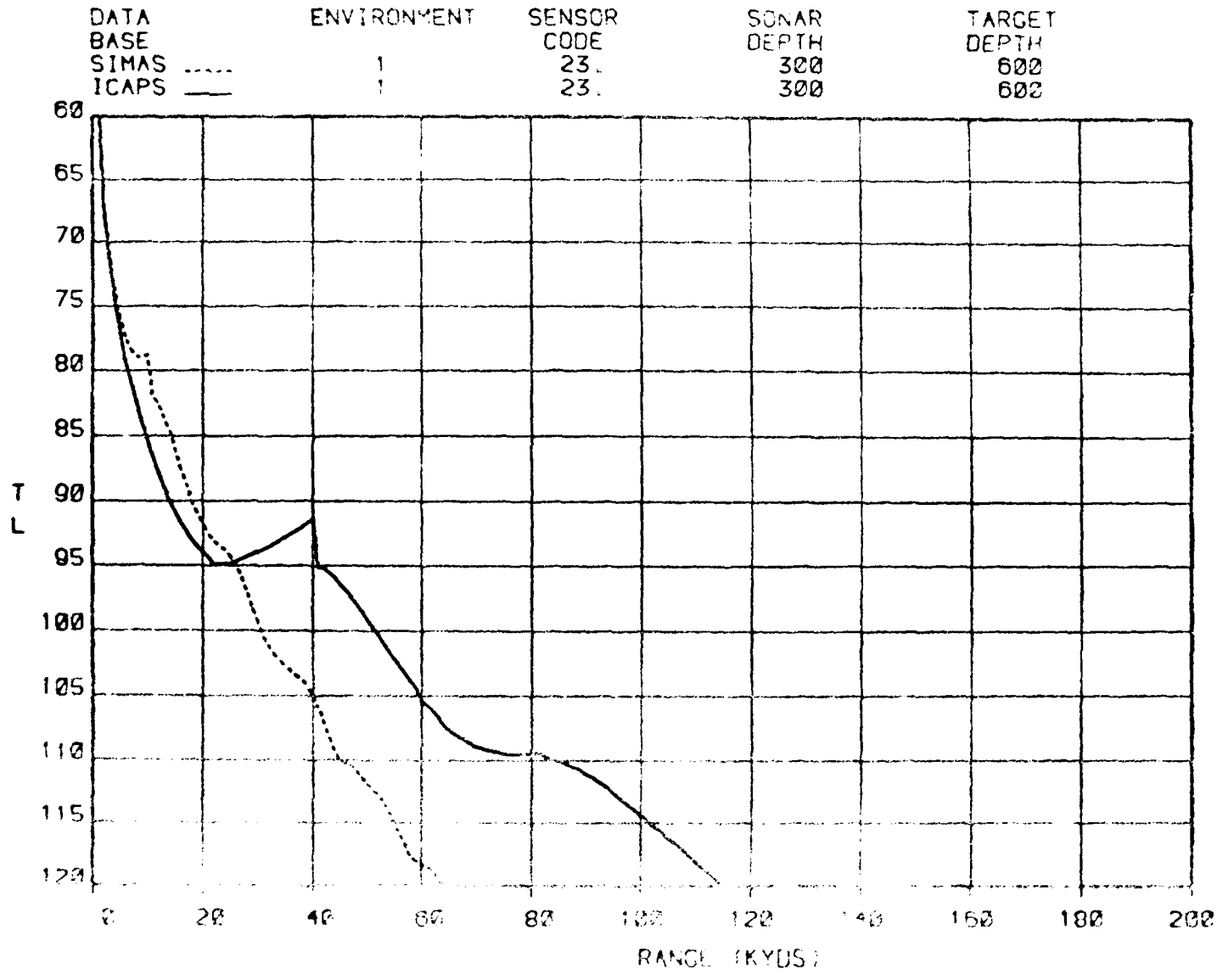

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 19 600 60
ICAPS ____ 1 19 600 60
60
65
70
75
80
85
90
95
100
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RANGE (KYDS)

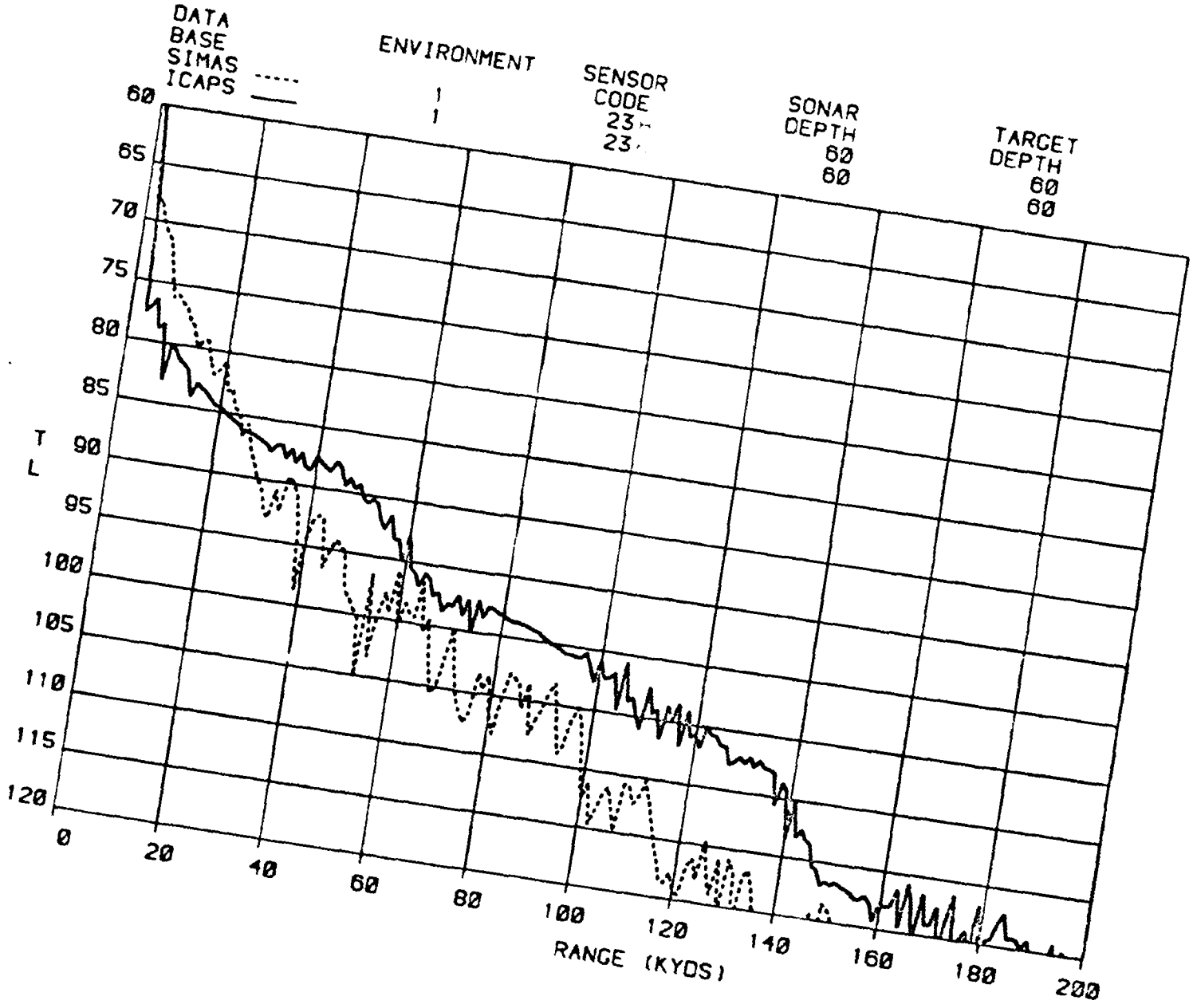

DATA BASE SIMAS ----- ICAPS ——
ENVIRONMENT 1 1
SENSOR CODE 19 19
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TARGET DEPTH 600 600
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RANGE (KYDS)
60 65 70 75 80 85 90 95 100 105 110 115 120
0 20 40 60 80 100 120 140 160 180 200

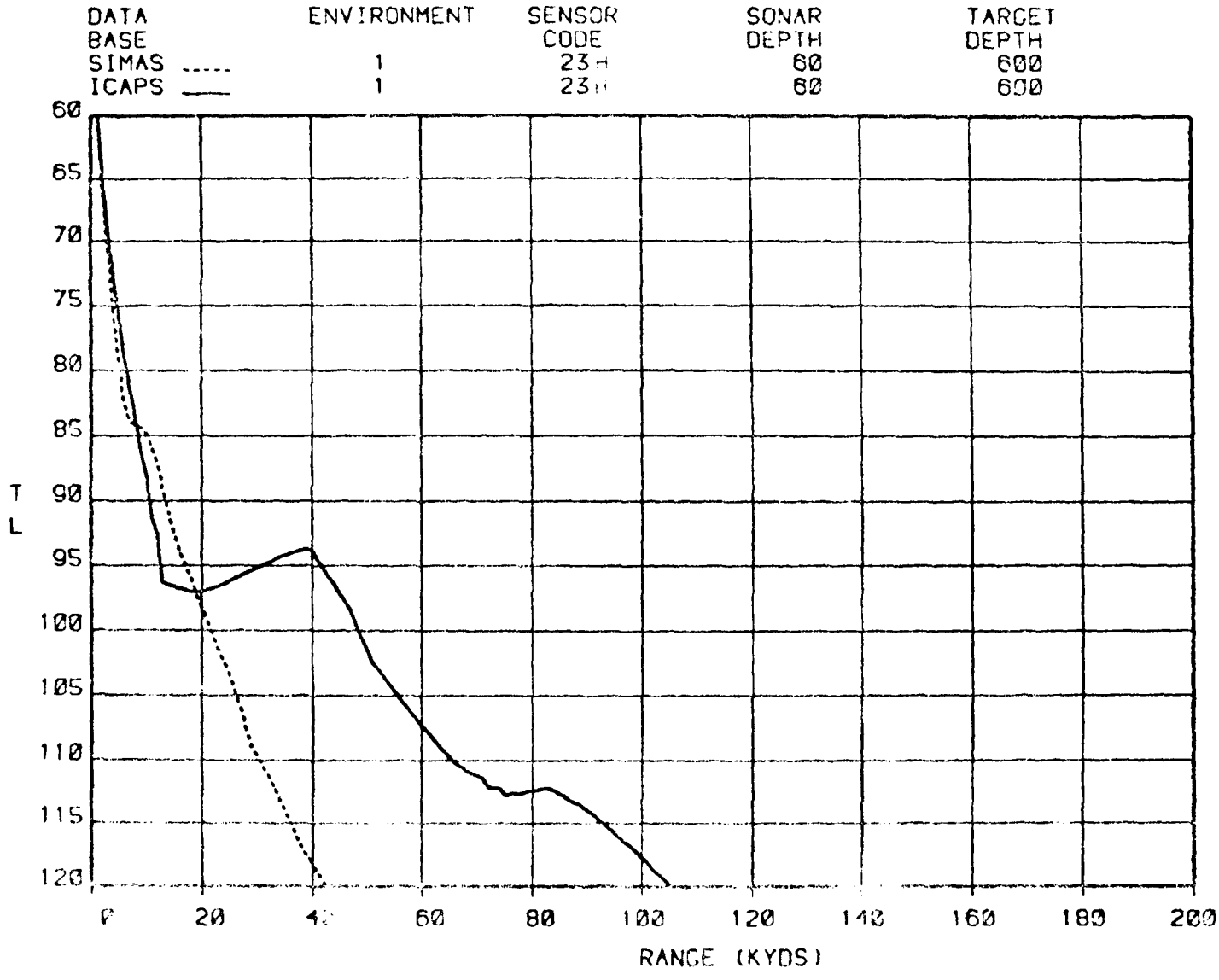

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 23L 60 60
ICAPS ____ 1 23L 60 60
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
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20
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140
160
180
200
RANGE (KYDS)

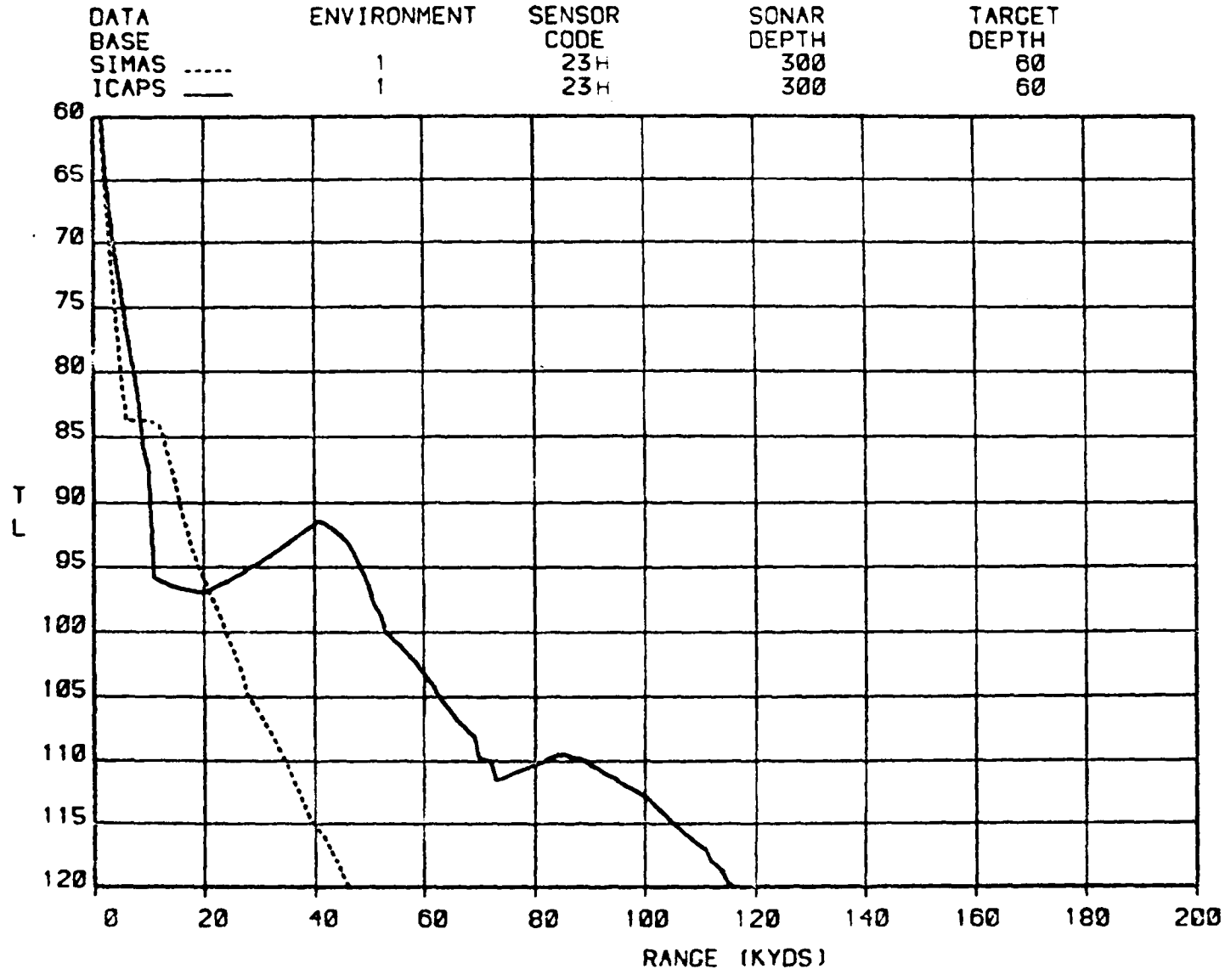

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 23L 60 600
ICAPS ——— 1 23L 60 600
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

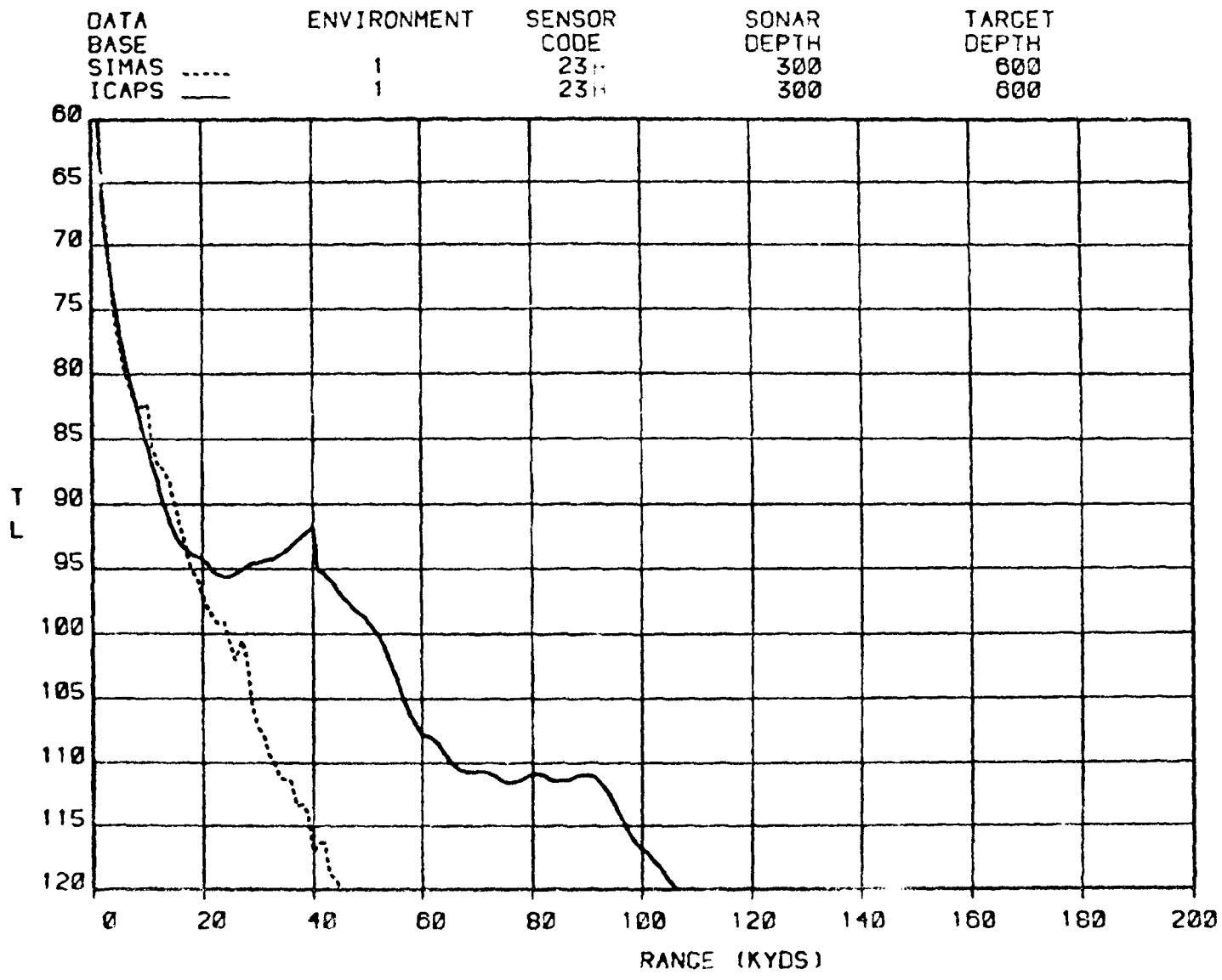

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 23_ 300 60
ICAPS ____ 1 23_ 300 60
60
65
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75
80
85
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T L
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RANGE (KYDS)

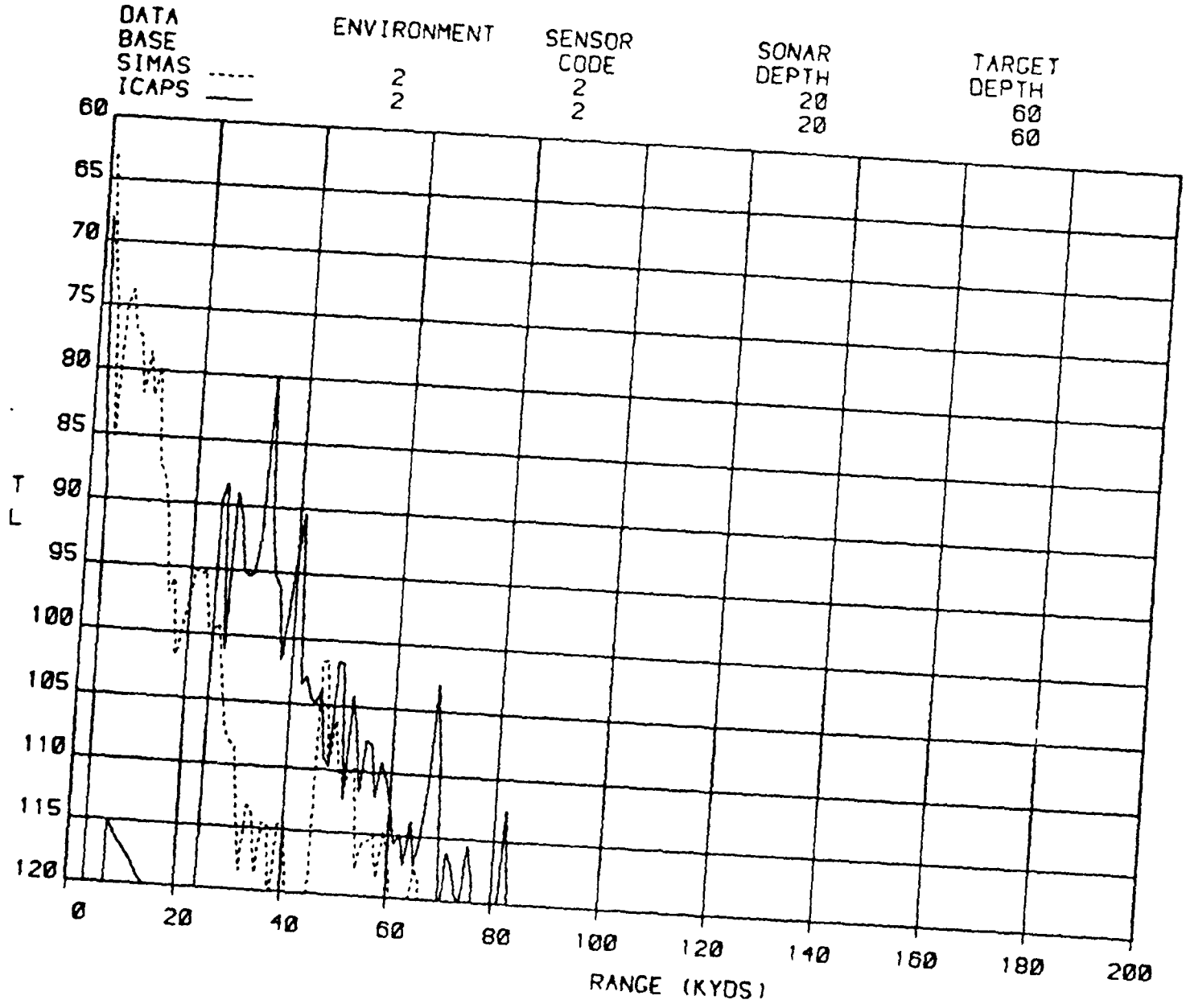

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 23. 300 600
ICAPS —— 1 23. 300 600
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65
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75
80
85
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T L
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RANGE (KYDS)

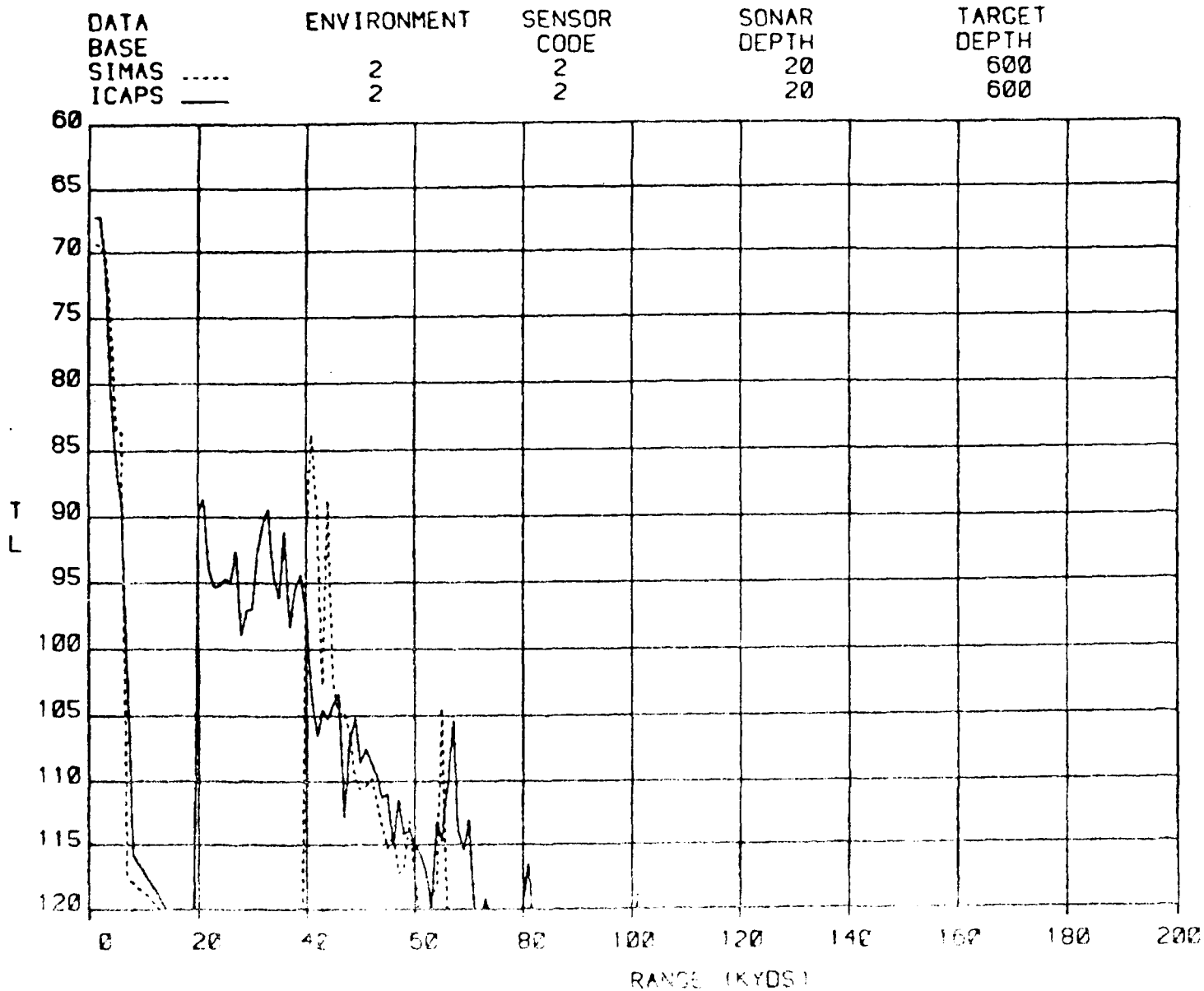

DATA
BASE
SIMAS
ICAPS
ENVIRONMENT
1
1
SENSOR
CODE
SONAR
DEPTH
60
60
TARGET
DEPTH
60
60
T
L
60
65
70
75
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85
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RANGE (KYDS)

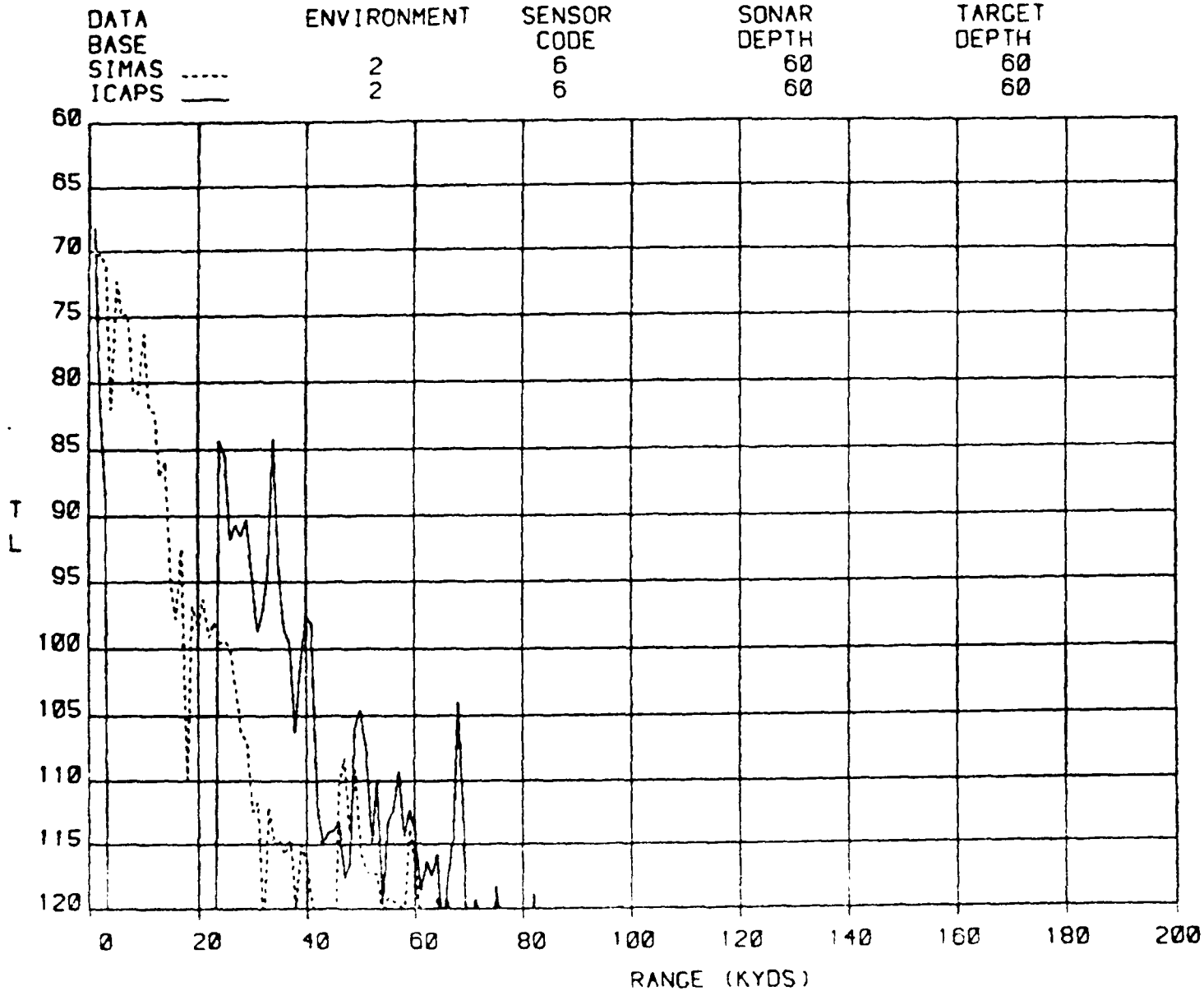

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 23H 60 600
ICAPS ——— 1 23H 60 600
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65
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75
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T L
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RANGE (KYDS)

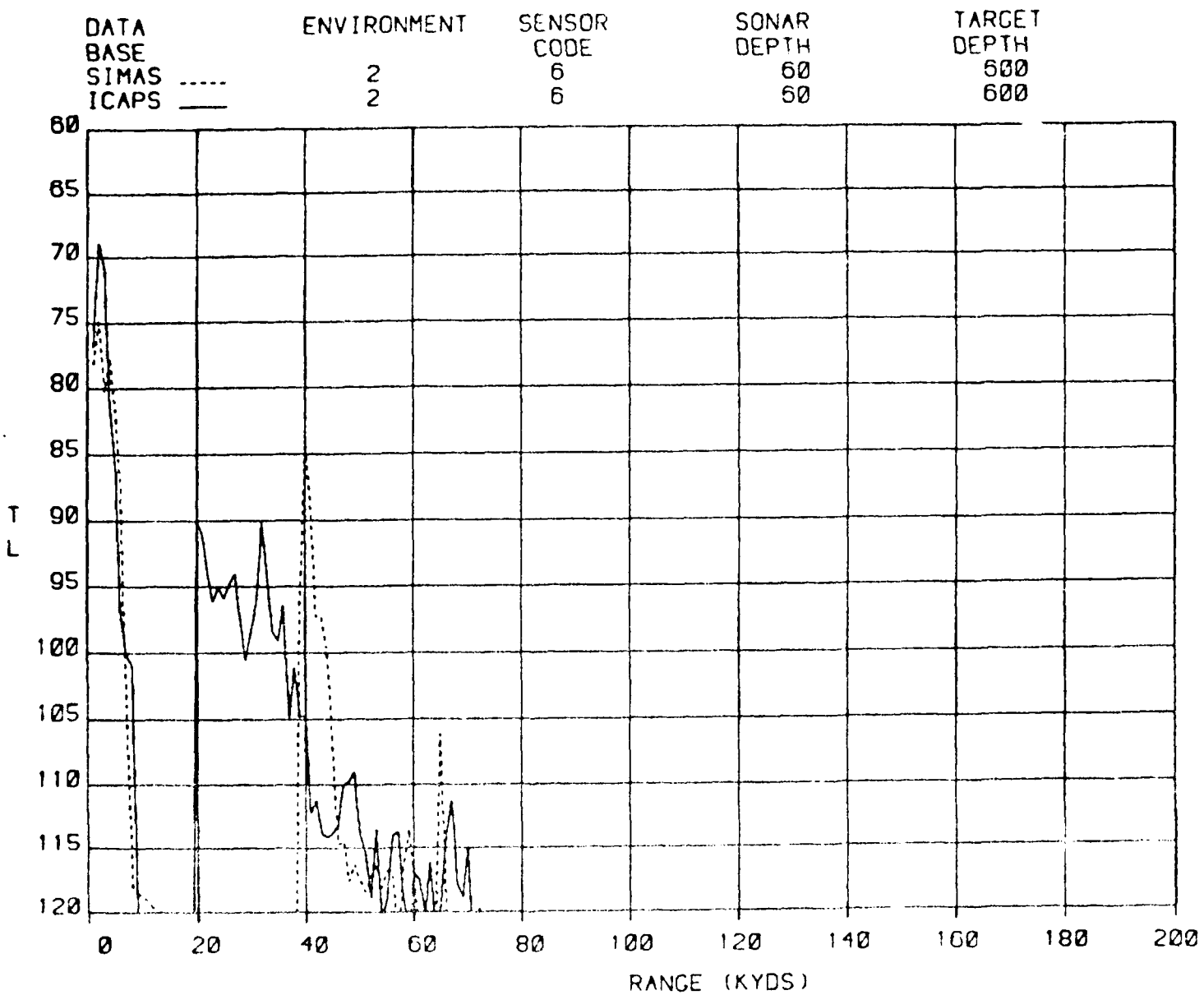

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 23H 300 60
ICAPS ____ 1 23H 300 60
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RANGE (KYDS)

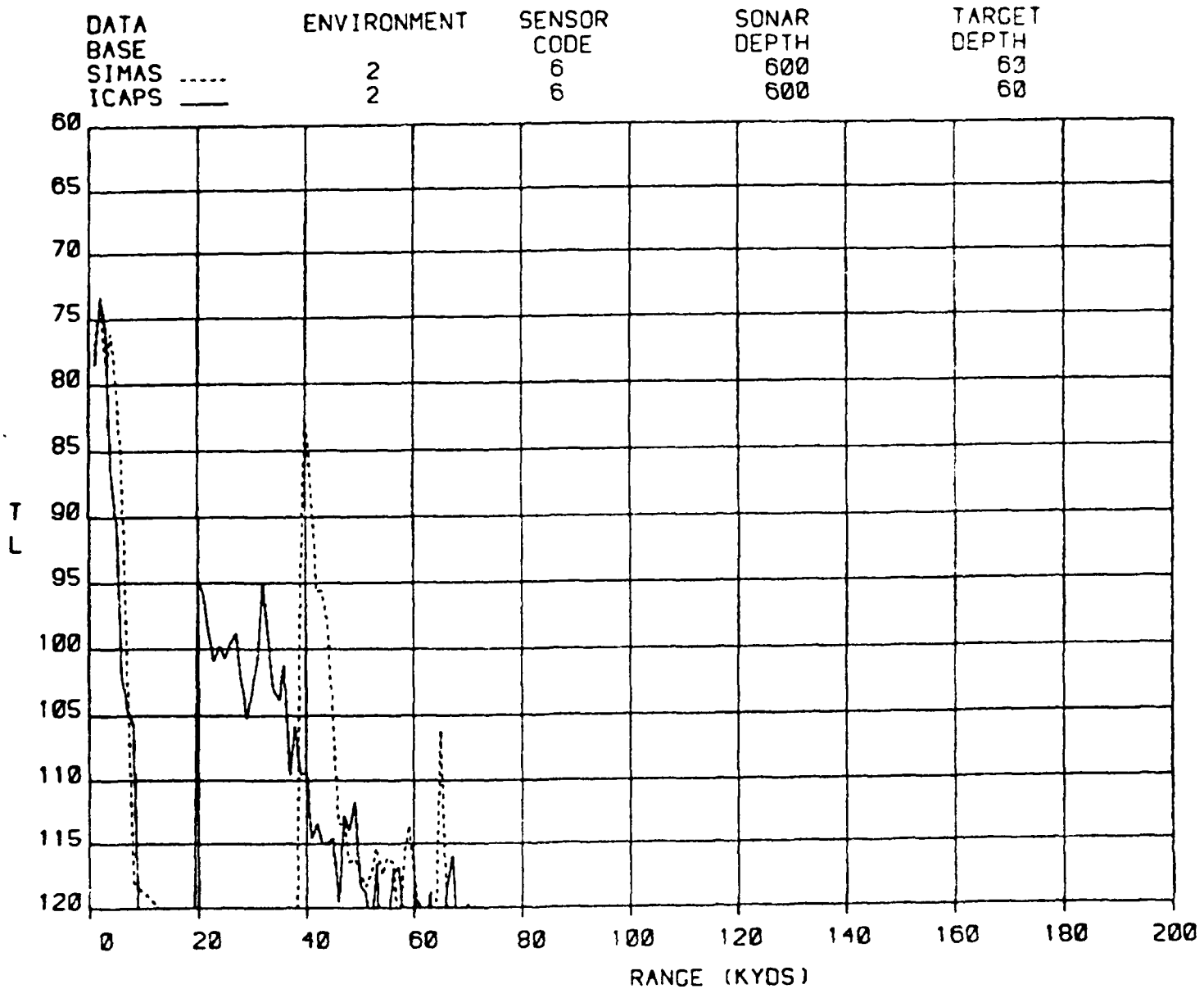

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 23 300 600
ICAPS ____ 1 23 300 600
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75
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T L
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RANGE (KYDS)

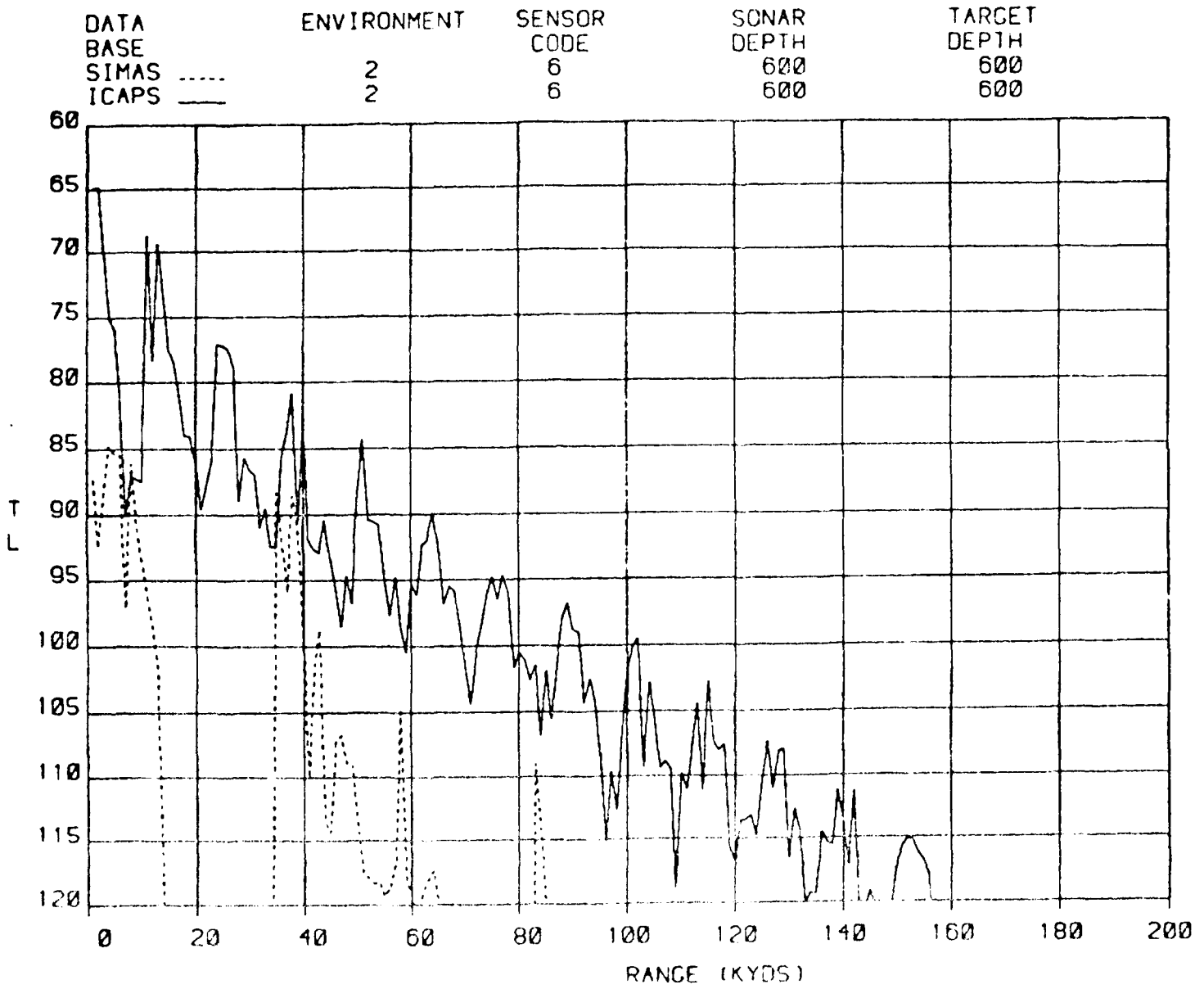

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
2
2
SENSOR CODE
2
2
SONAR DEPTH
20
20
TARGET DEPTH
60
60
T L
60
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75
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RANGE (KYDS)

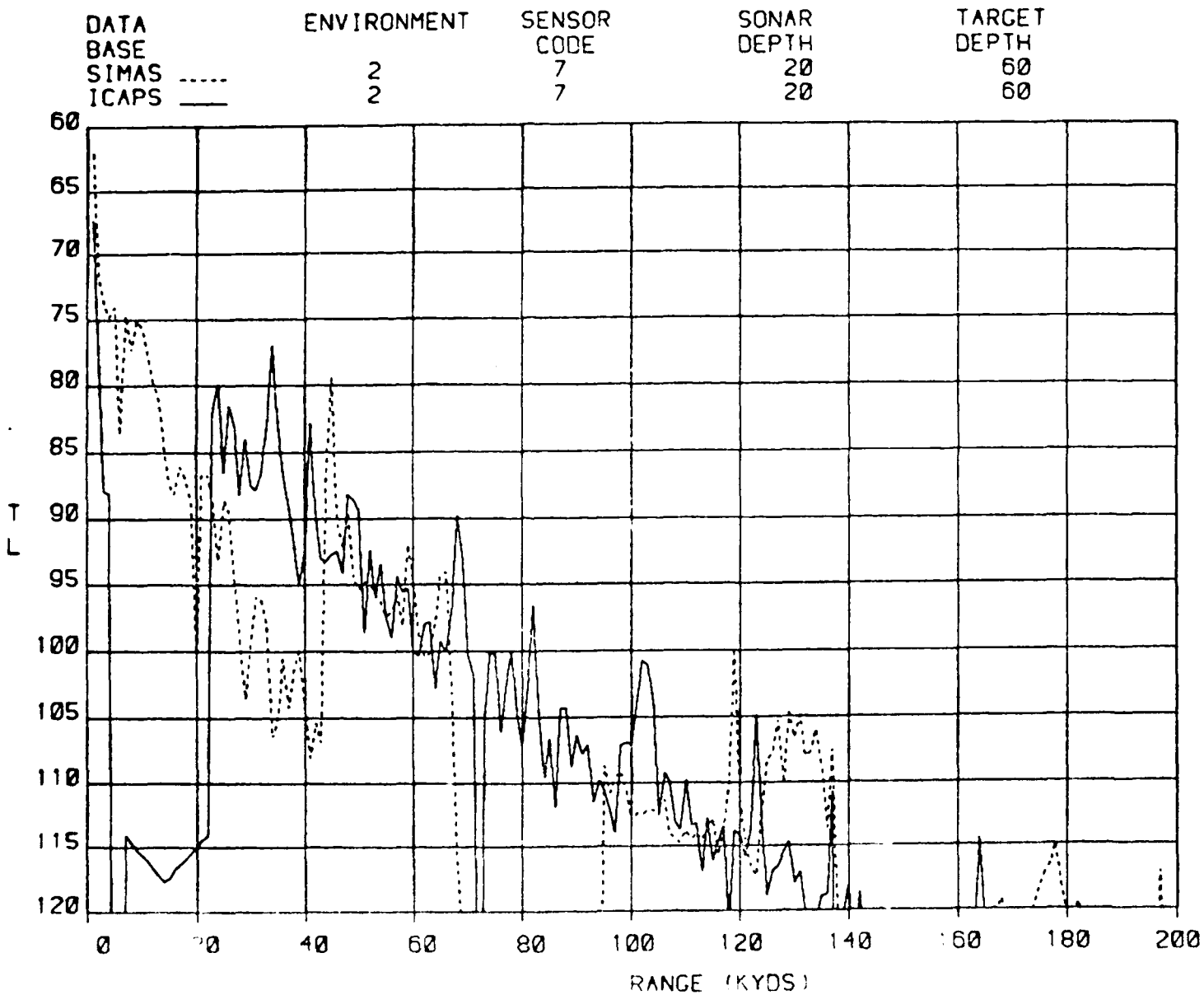

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 2 20 600
ICAPS ____ 2 2 20 600
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75
80
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T L
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RANGE (KYDS)

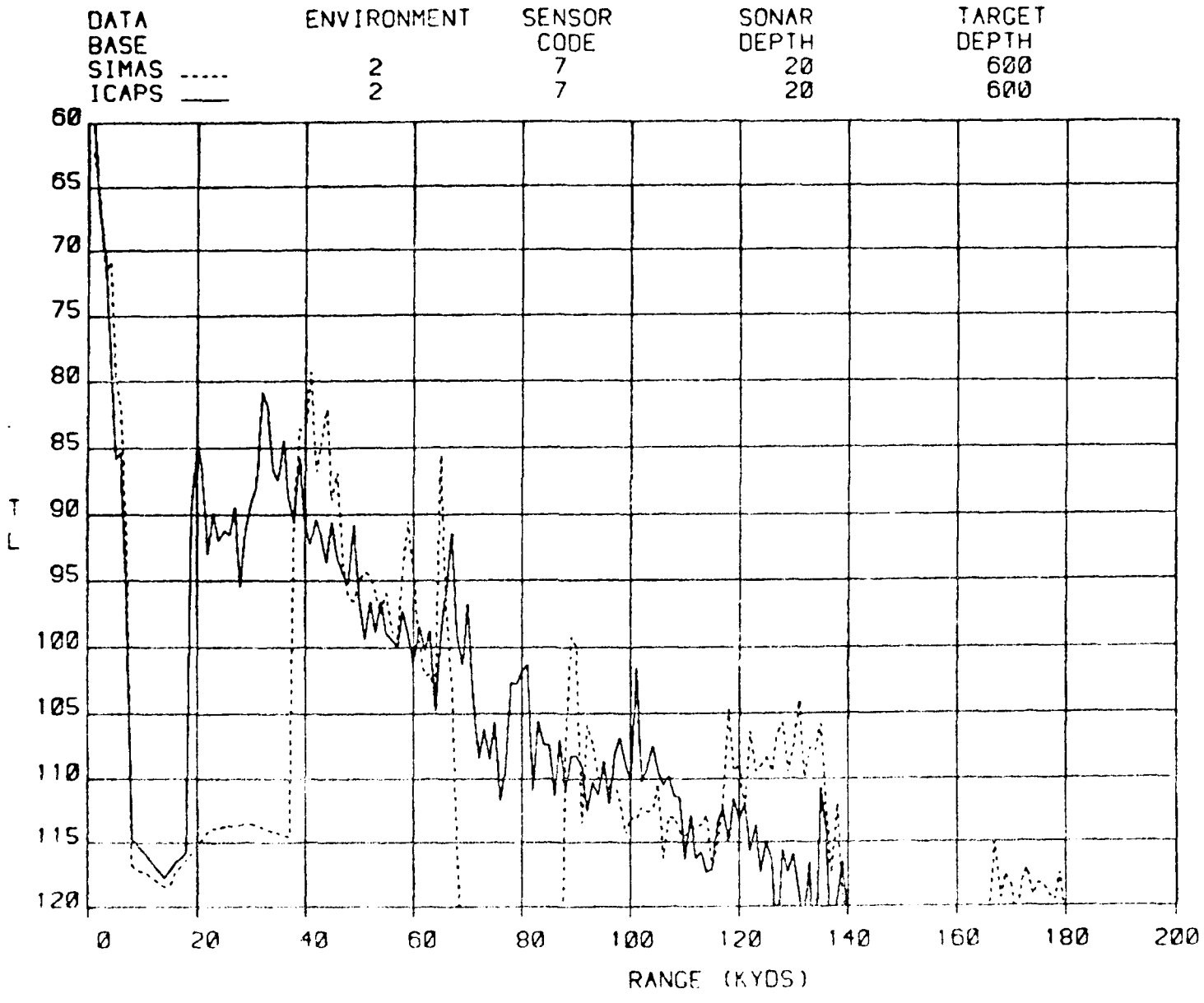

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 6 60 60
ICAPS ——— 2 6 60 60
60
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RANGE (KYDS)

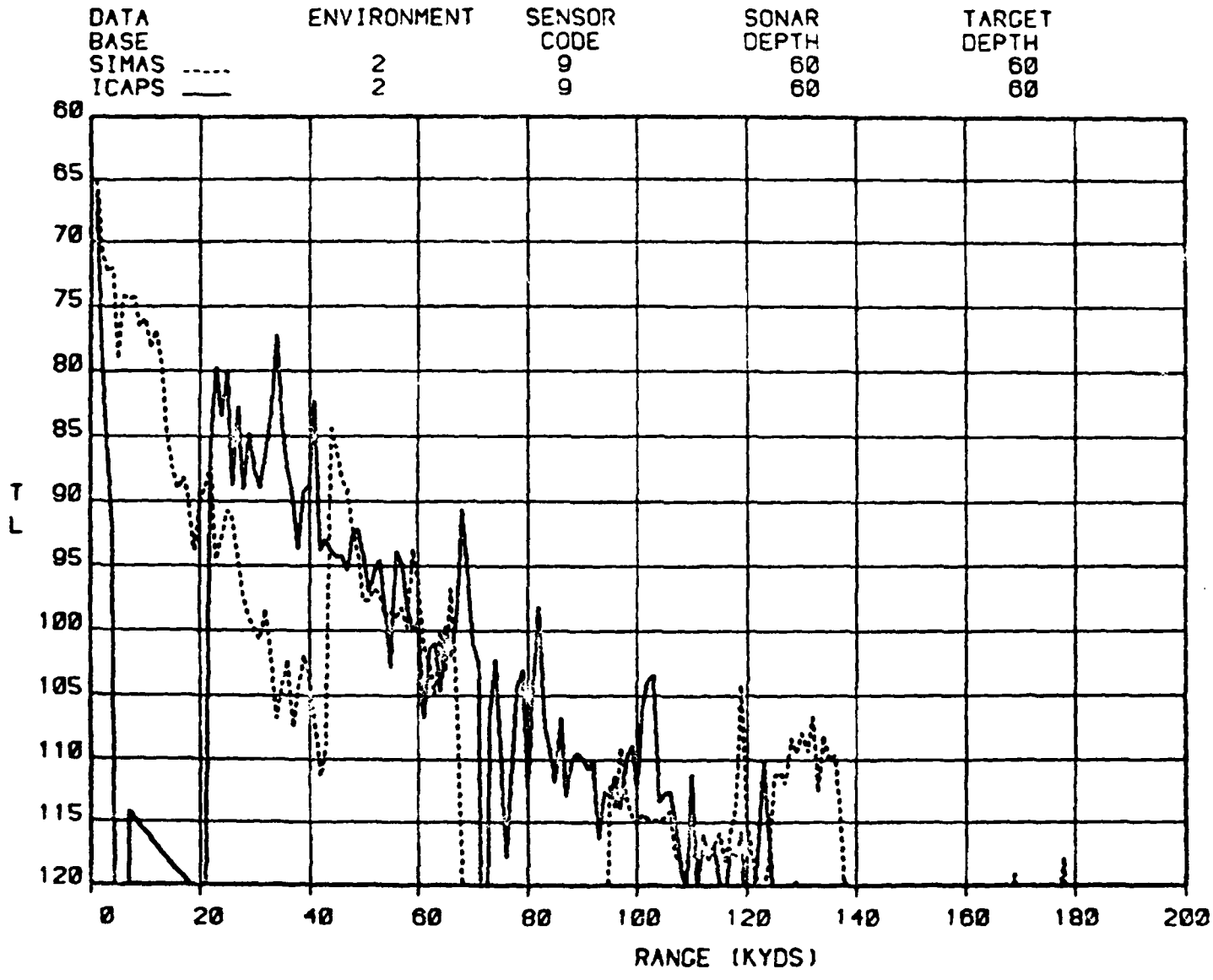

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 6 60 600
ICAPS ____ 2 6 60 600
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RANGE (KYDS)

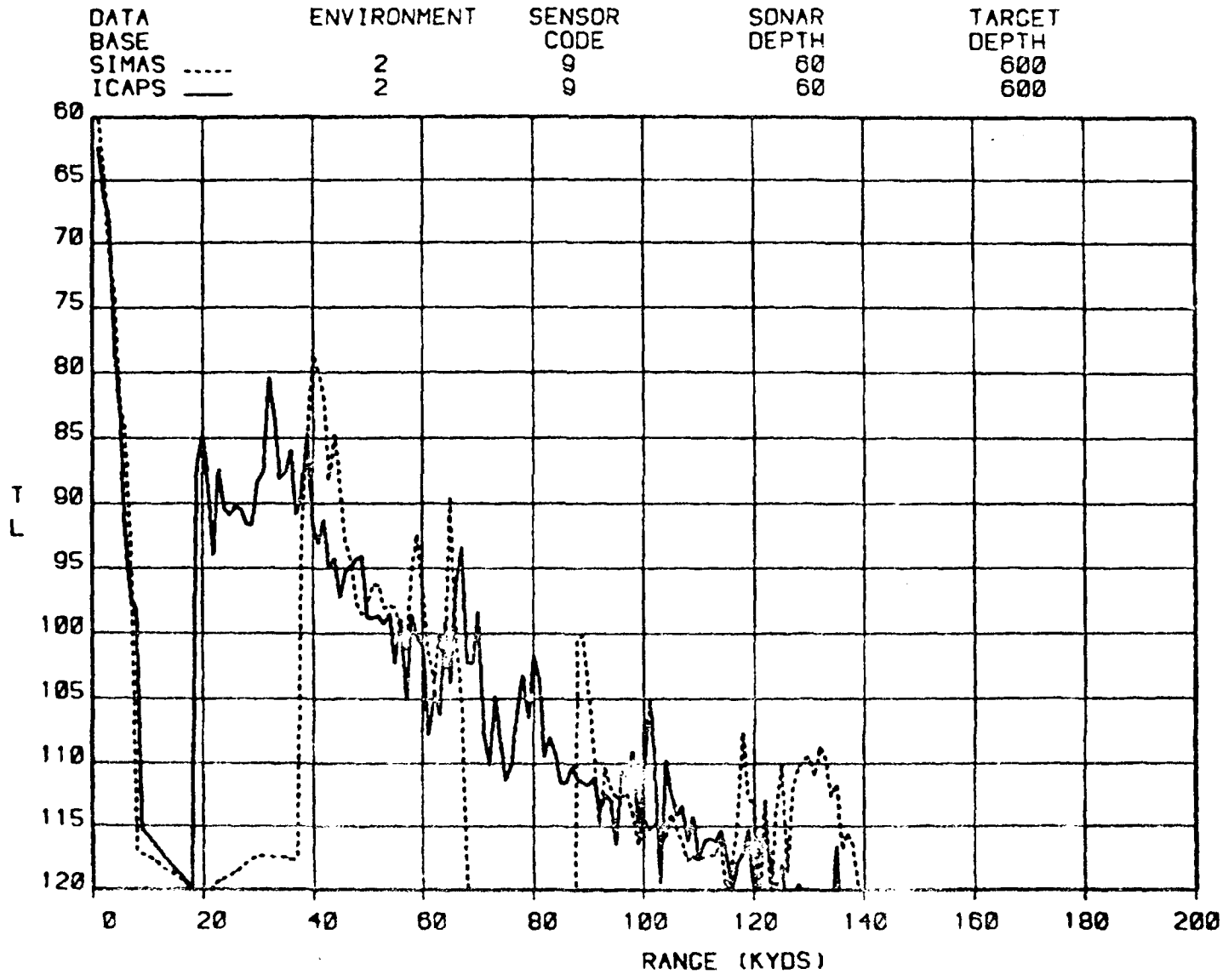

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 6 600 63
ICAPS ____ 2 6 600 60
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T L
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200
RANGE (KYDS)

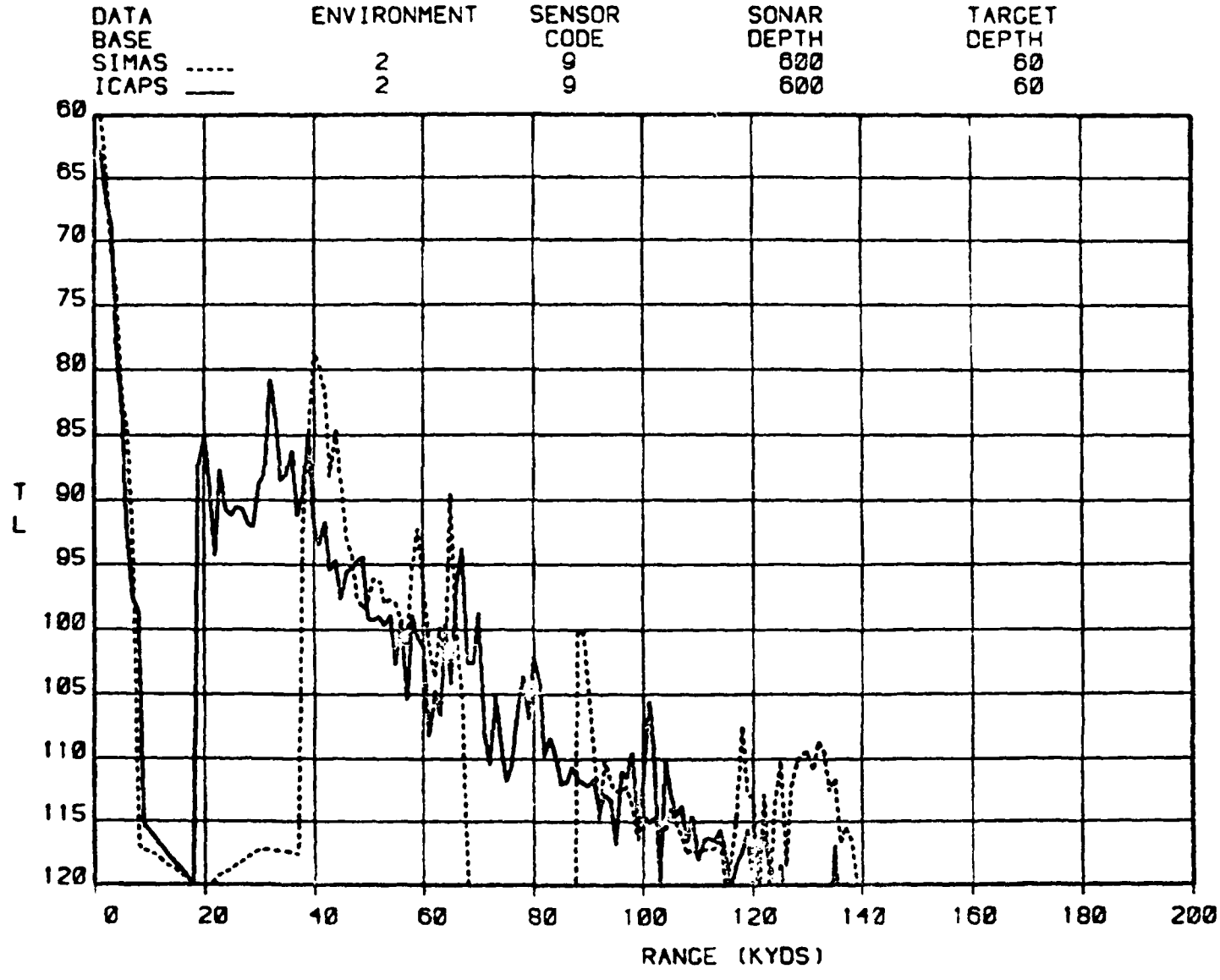

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 6 600 600
ICAPS ____ 2 6 600 600
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RANGE (KYDS)

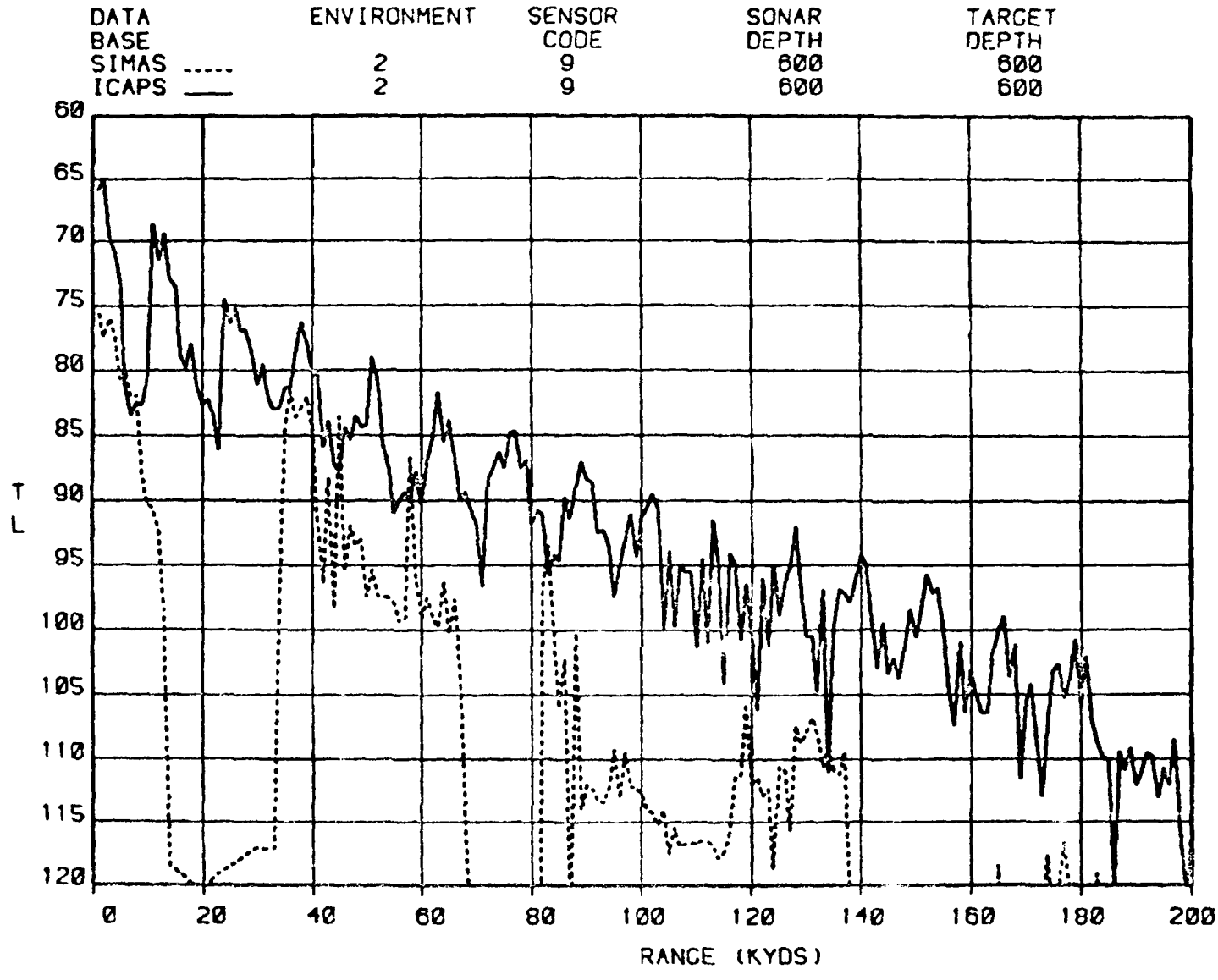

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 7 20 60
ICAPS ____ 2 7 20 60
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RANGE (KYDS)

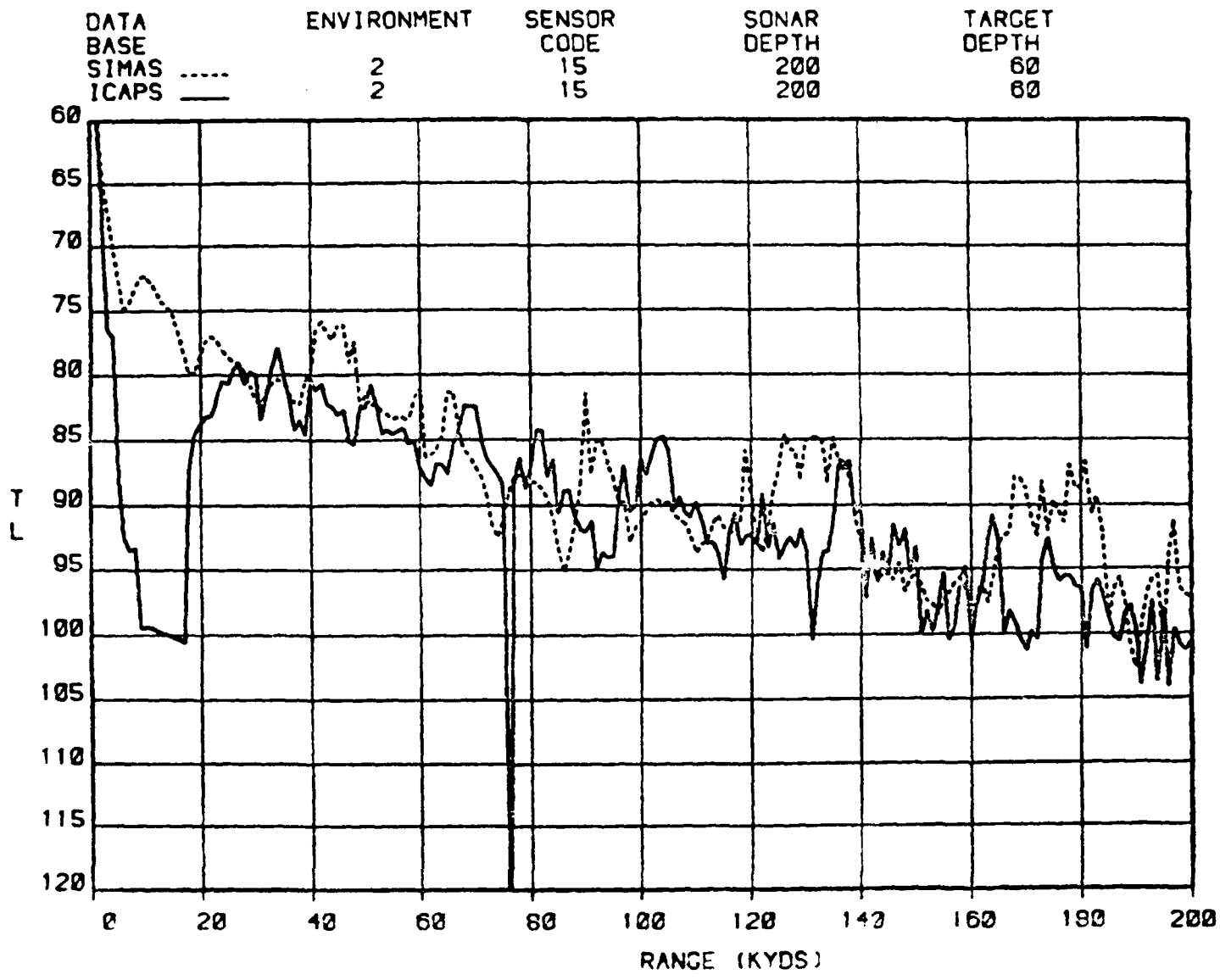

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 7 20 600
ICAPS ____ 2 7 20 600
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RANGE (KYDS)

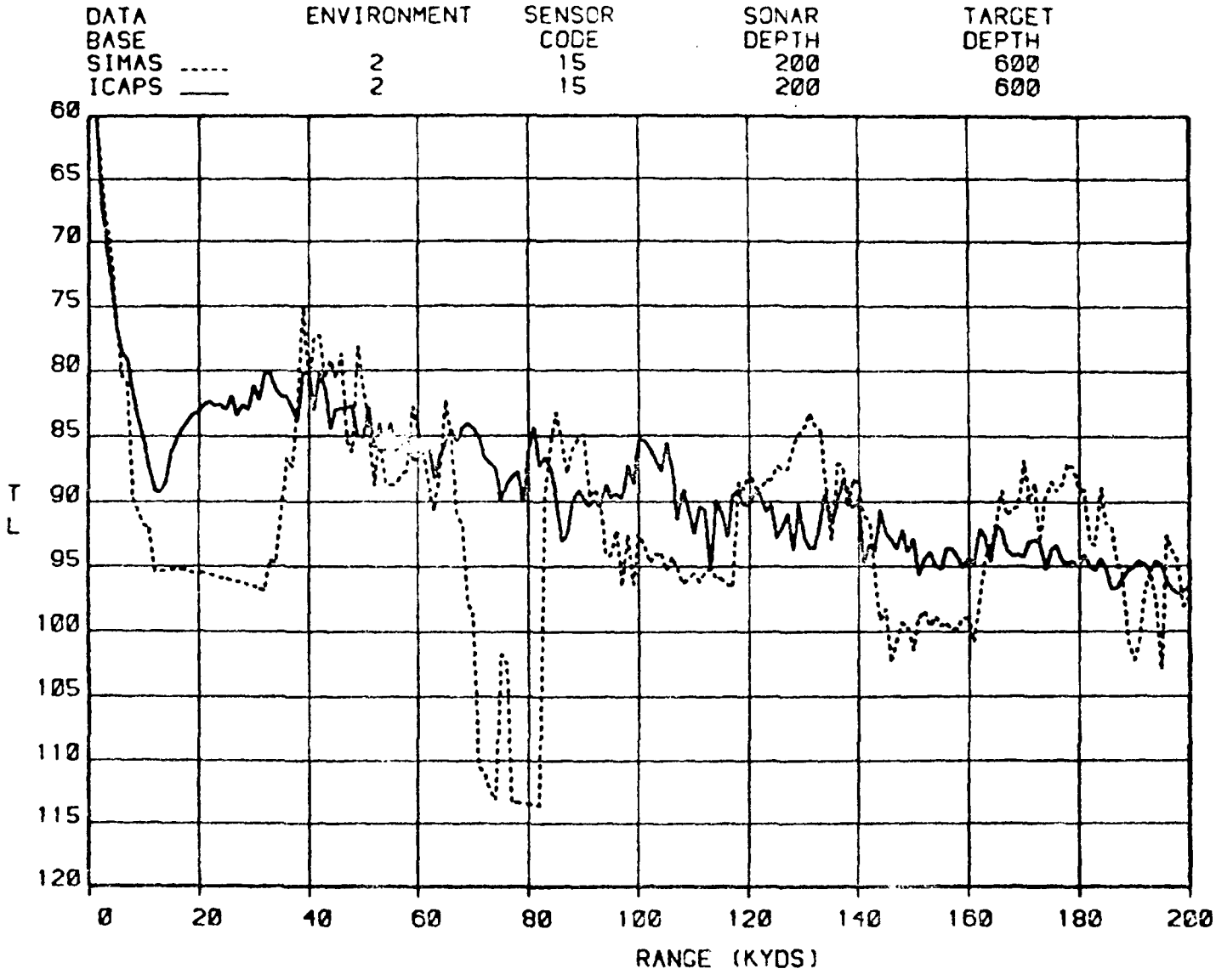

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 9 60 60
ICAPS ____ 2 9 60 60
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RANGE (KYDS)

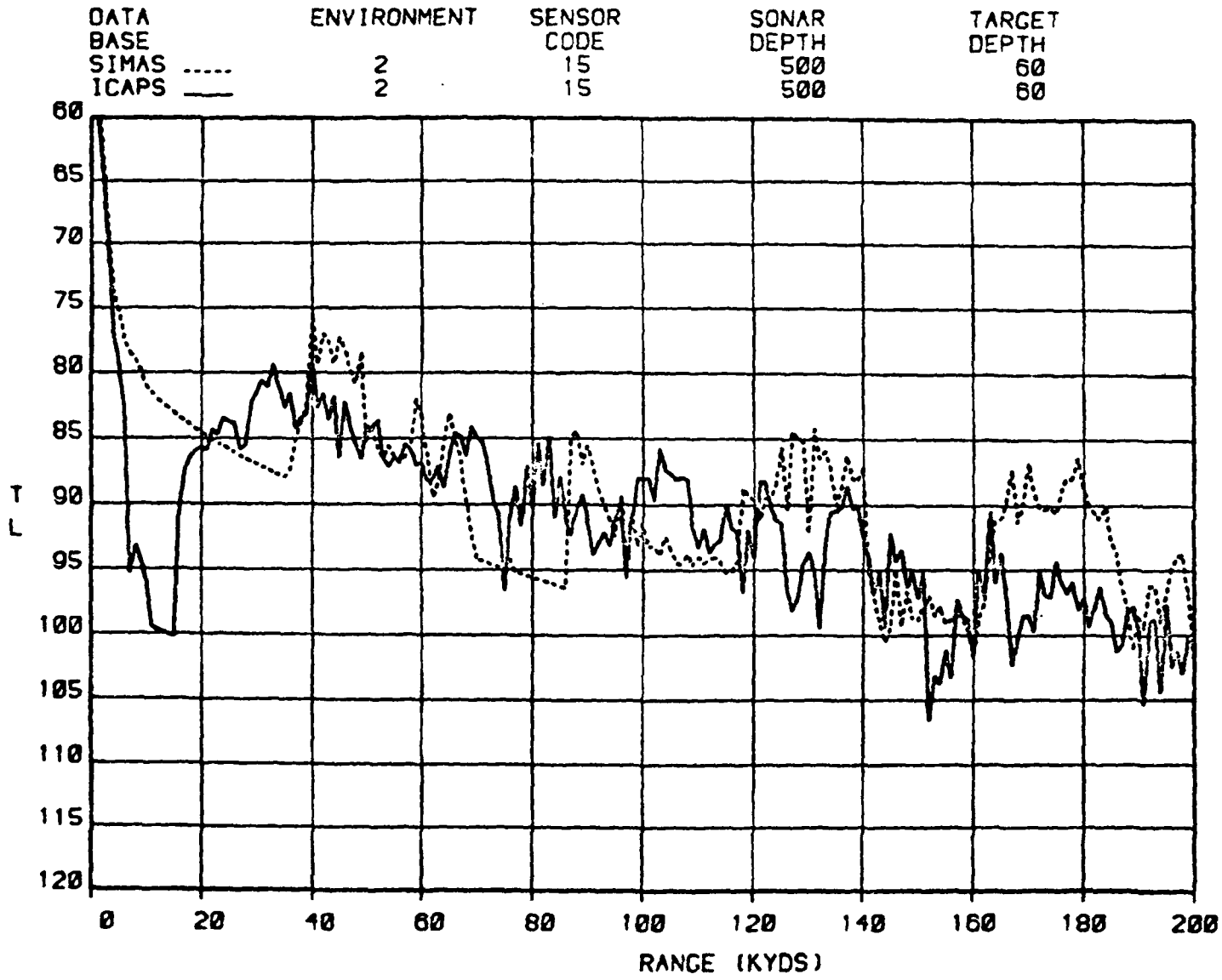

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 9 60 600
ICAPS ____ 2 9 60 600
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RANGE (KYDS)

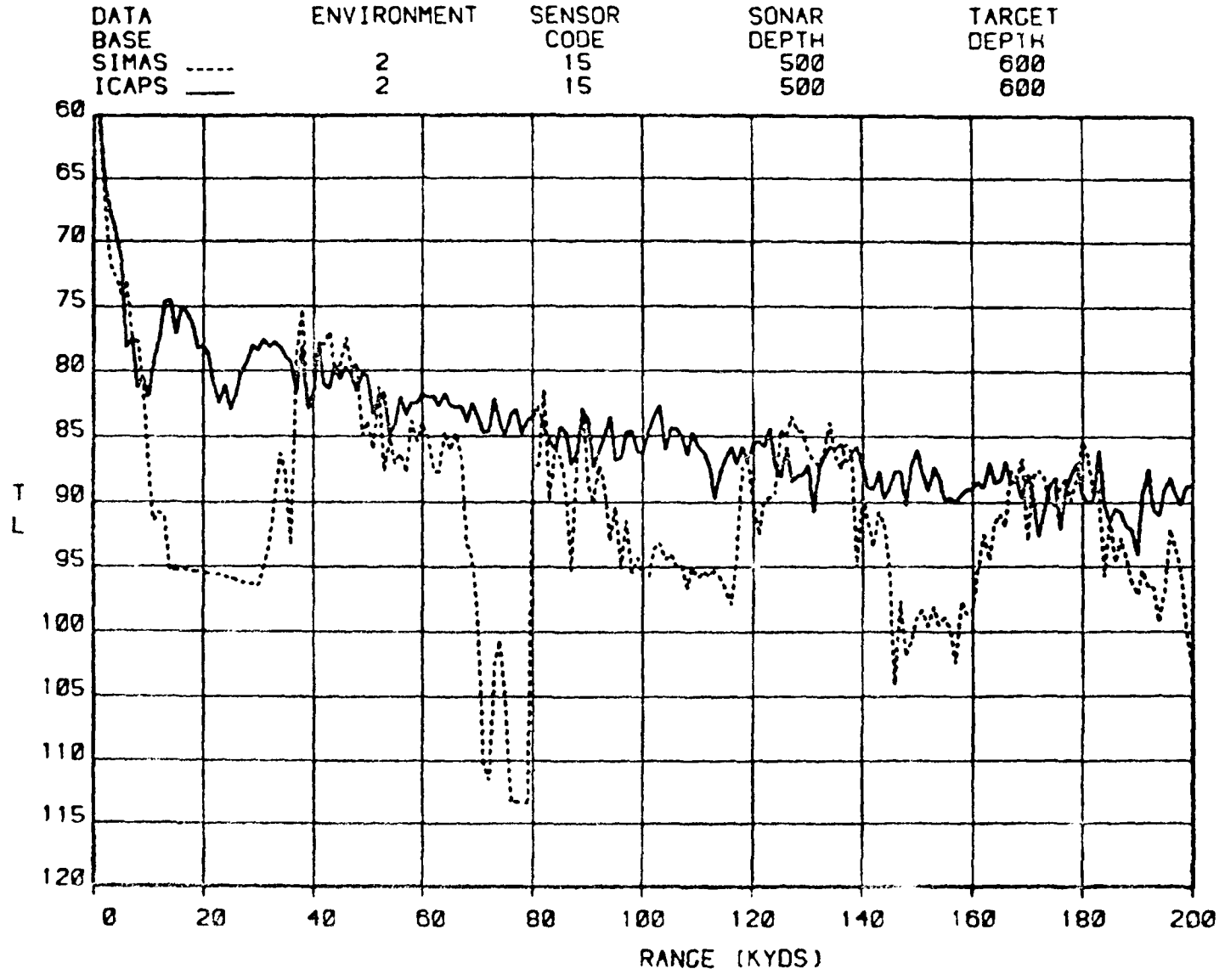

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 9 600 60
ICAPS ____ 2 9 600 60
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RANGE (KYDS)

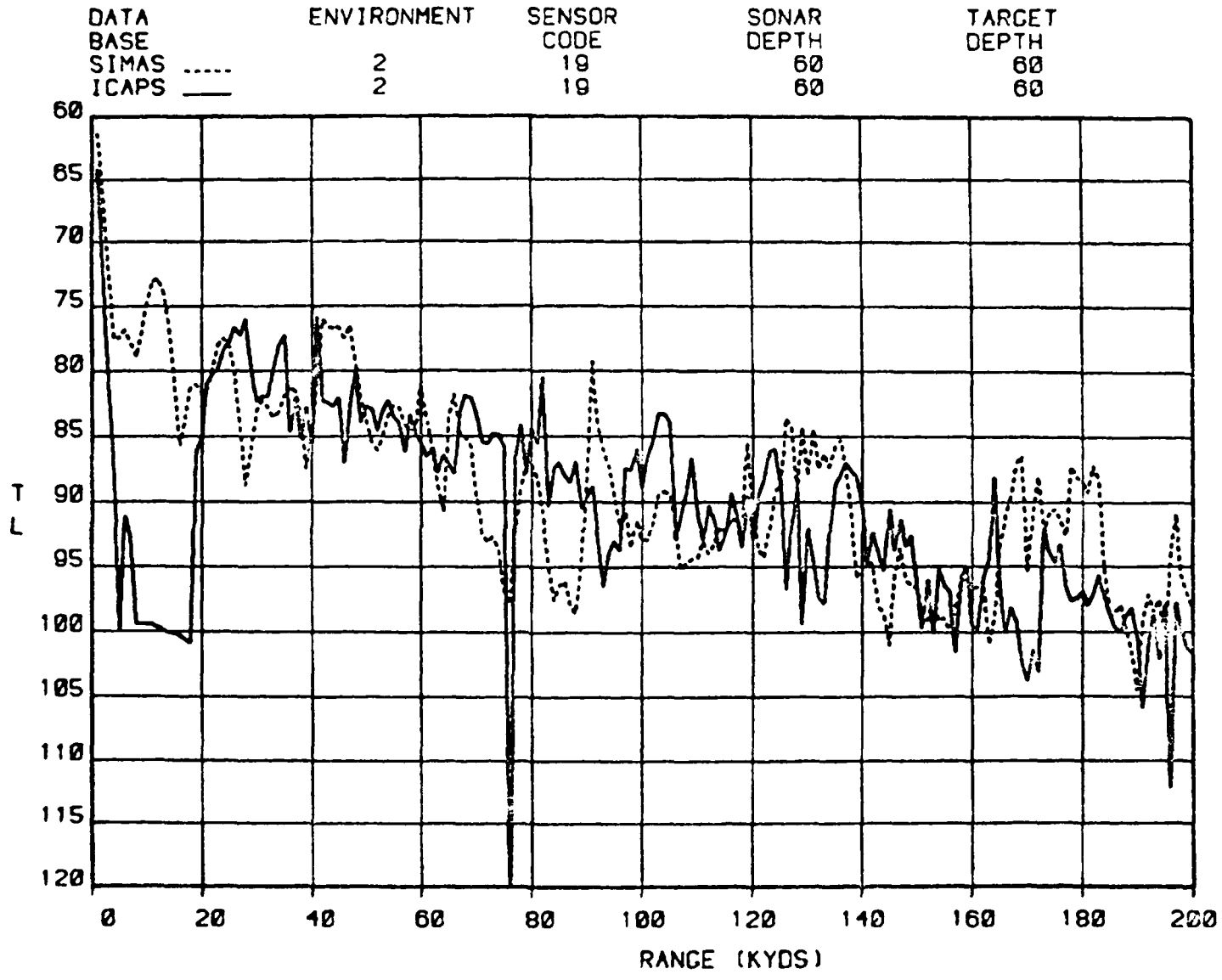

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 9 600 600
ICAPS ____ 2 9 600 600
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T L
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RANGE (KYDS)

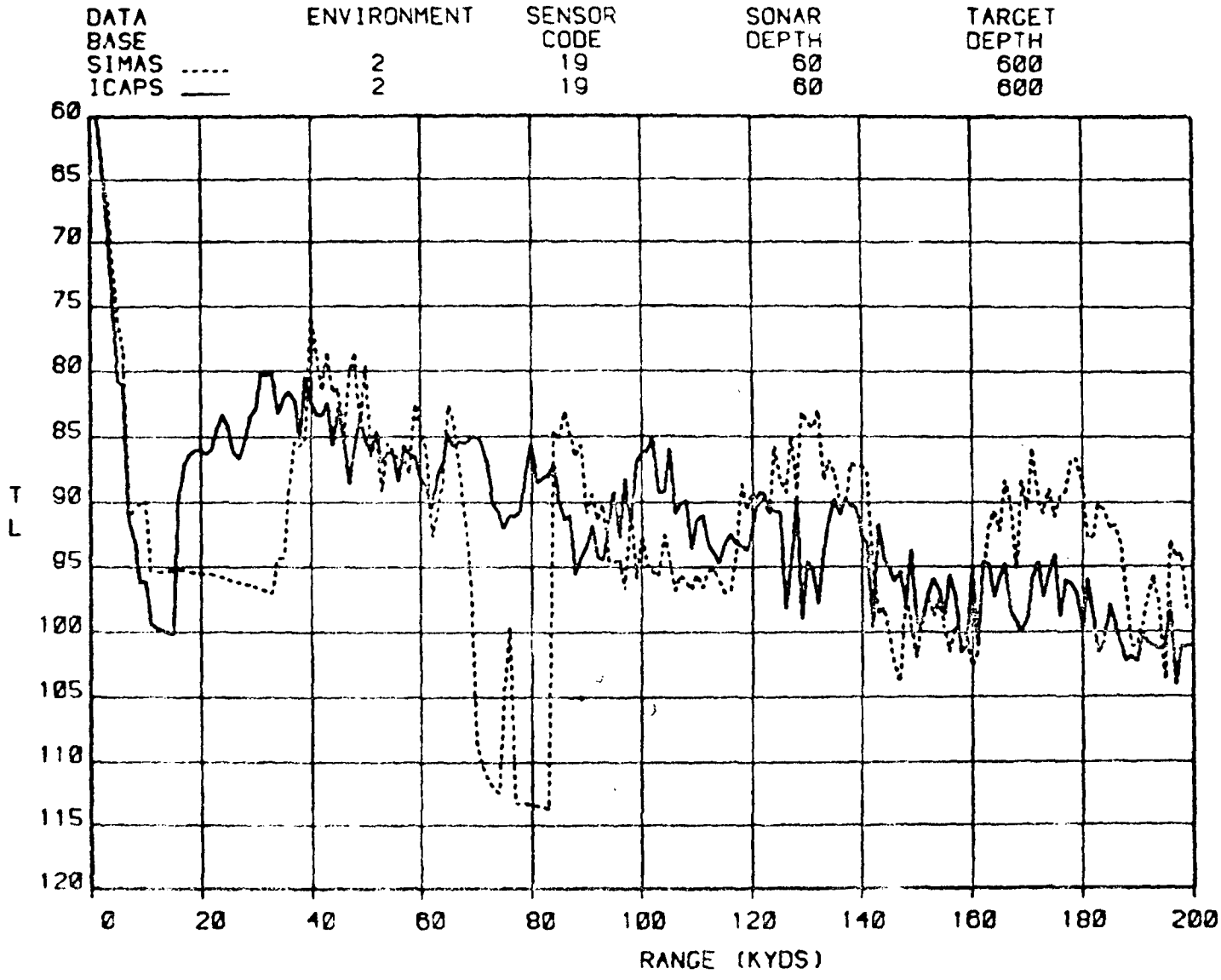

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 15 200 60
ICAPS ____ 2 15 200 60
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75
80
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RANGE (KYDS)

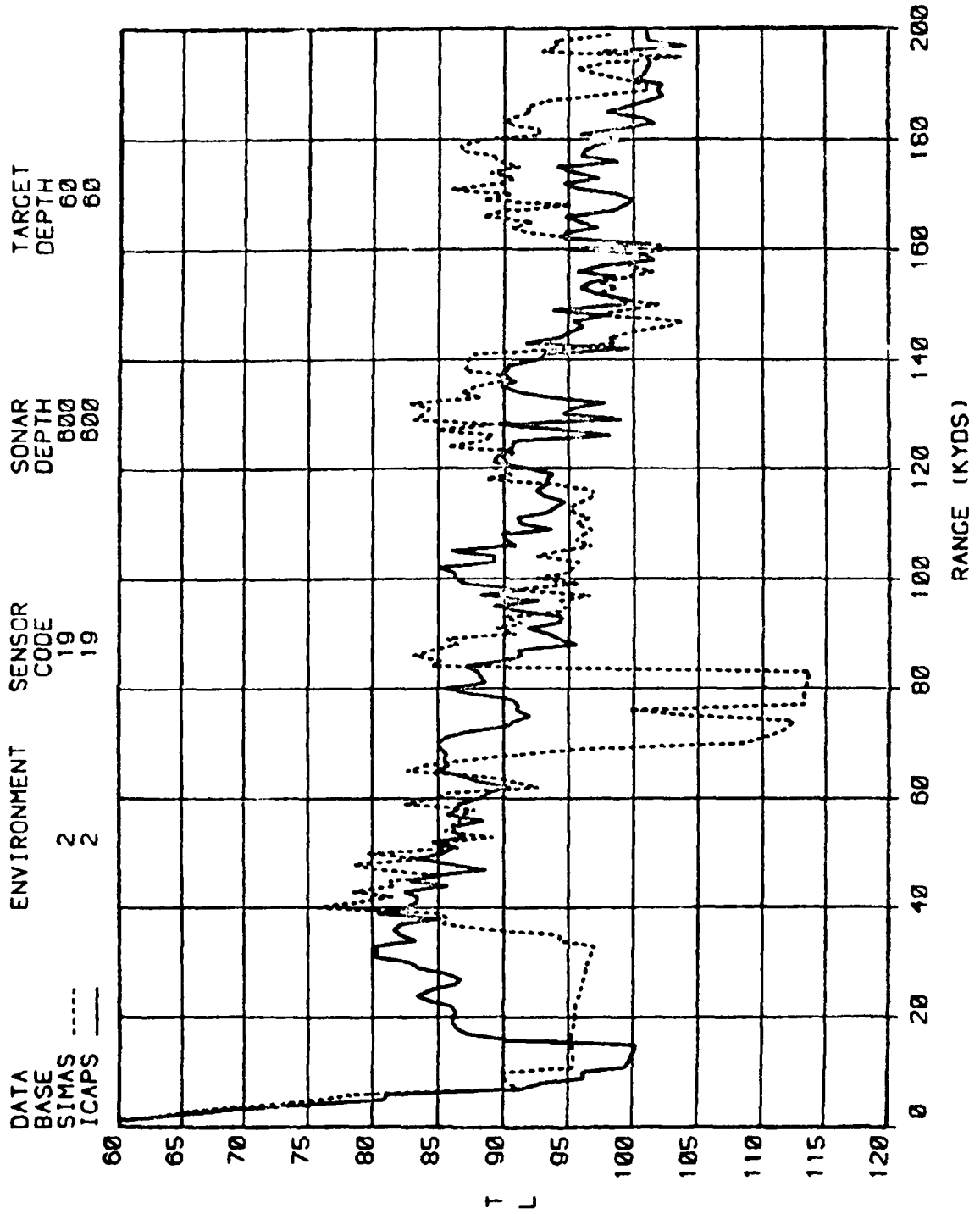

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 15 200 600
ICAPS ____ 2 15 200 600
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75
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RANGE (KYDS)

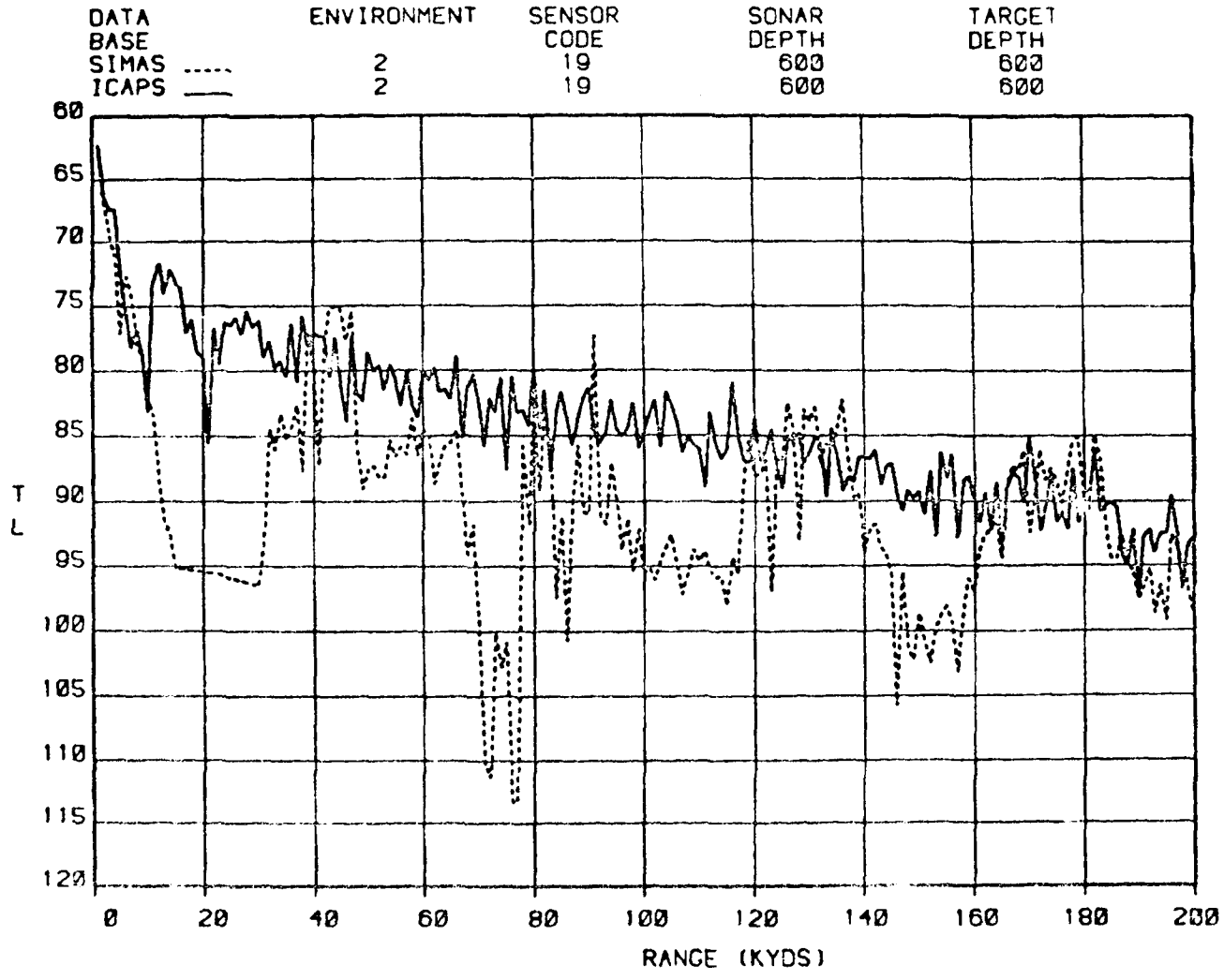

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 15 500 60
ICAPS ____ 2 15 500 60
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200
RANGE (KYDS)

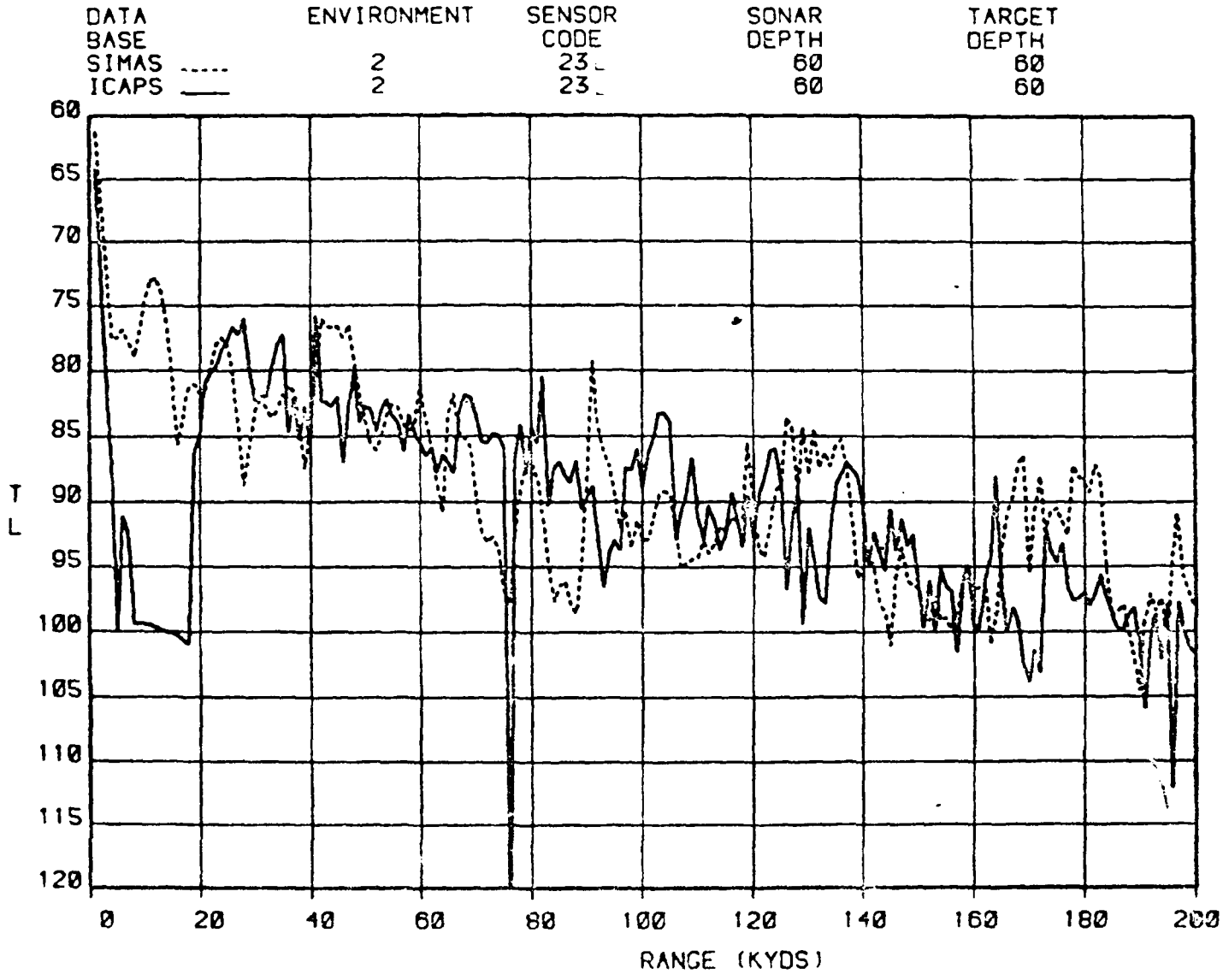

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 1S 500 600
ICAPS ____ 2 1S 500 600
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75
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T L
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200
RANGE (KYDS)

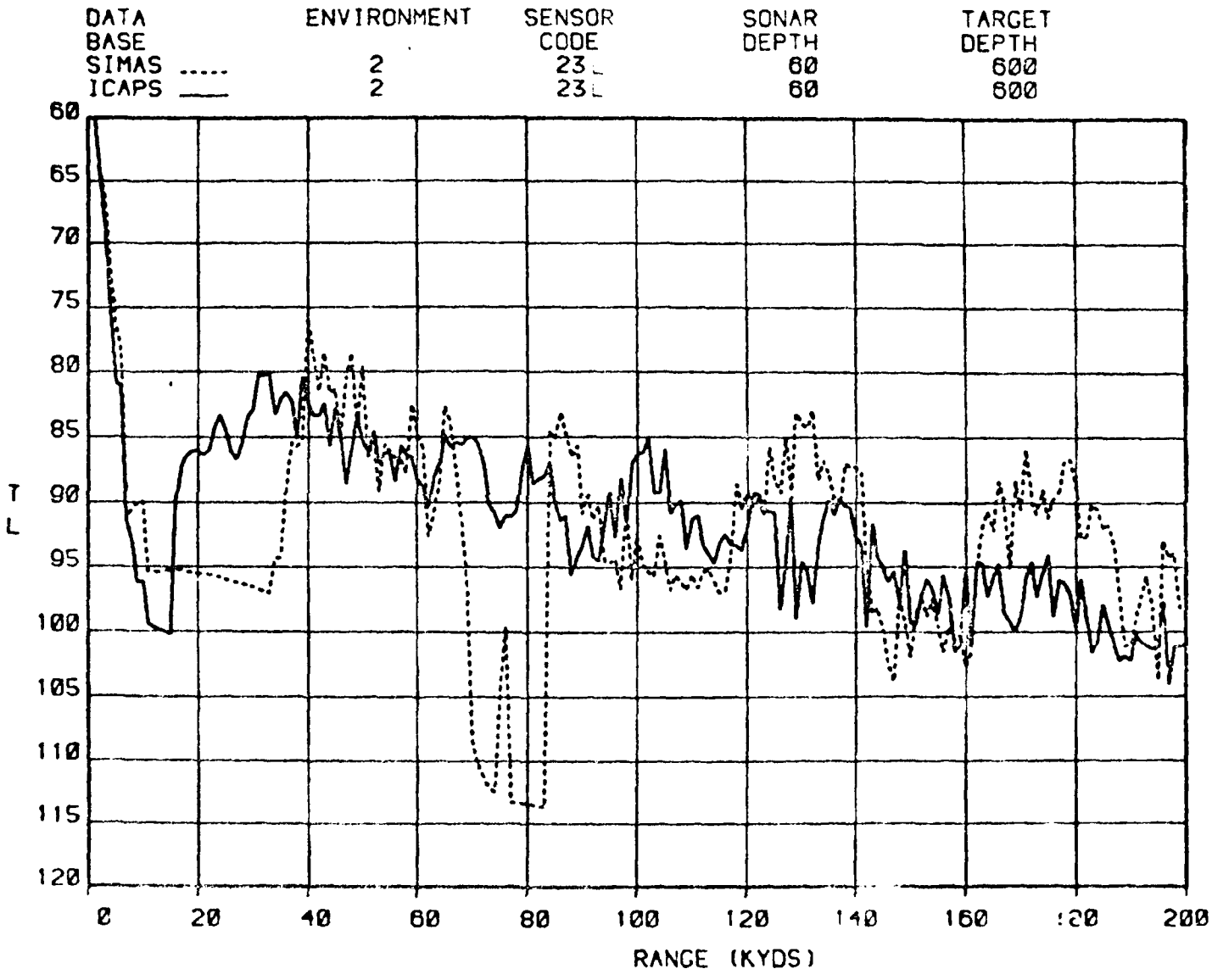

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 19 60 60
ICAPS ____ 2 19 60 60
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65
70
75
80
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200
RANGE (KYDS)

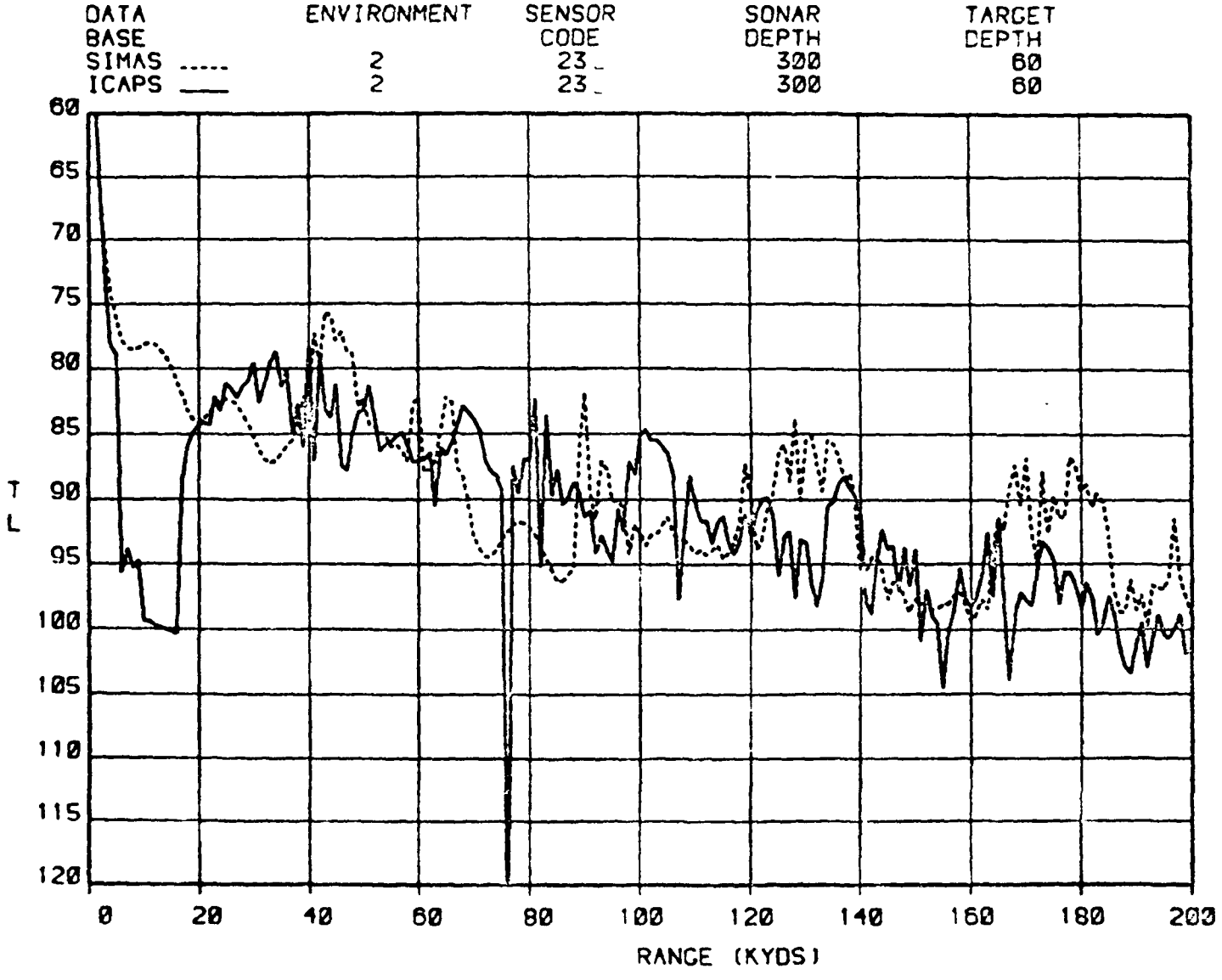

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 19 60 600
ICAPS ____ 2 19 60 600
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RANGE (KYDS)

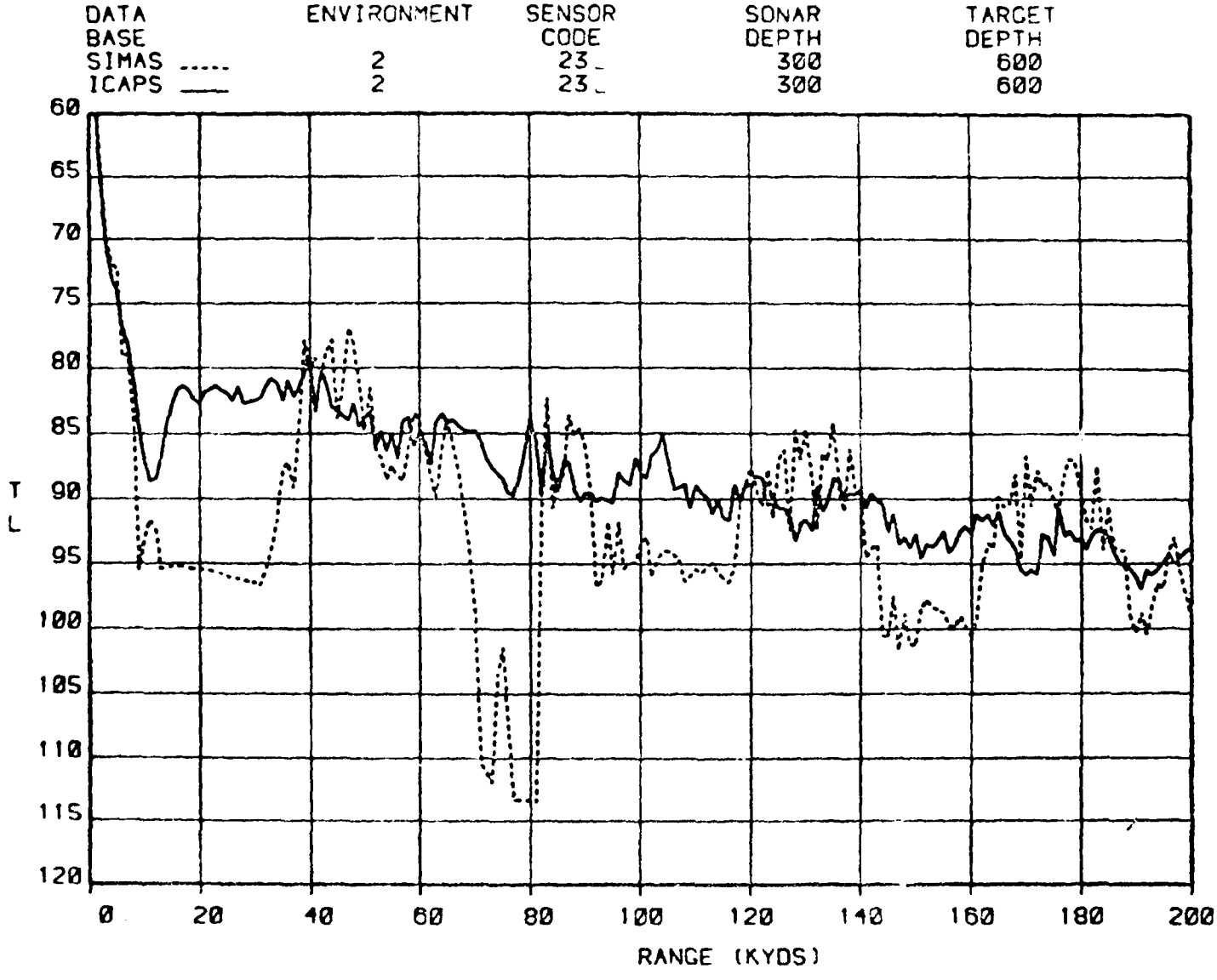

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
2
2
SENSOR CODE
19
19
SONAR DEPTH
600
600
TARGET DEPTH
60
60
T L
60
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200
RANGE (KYDS)

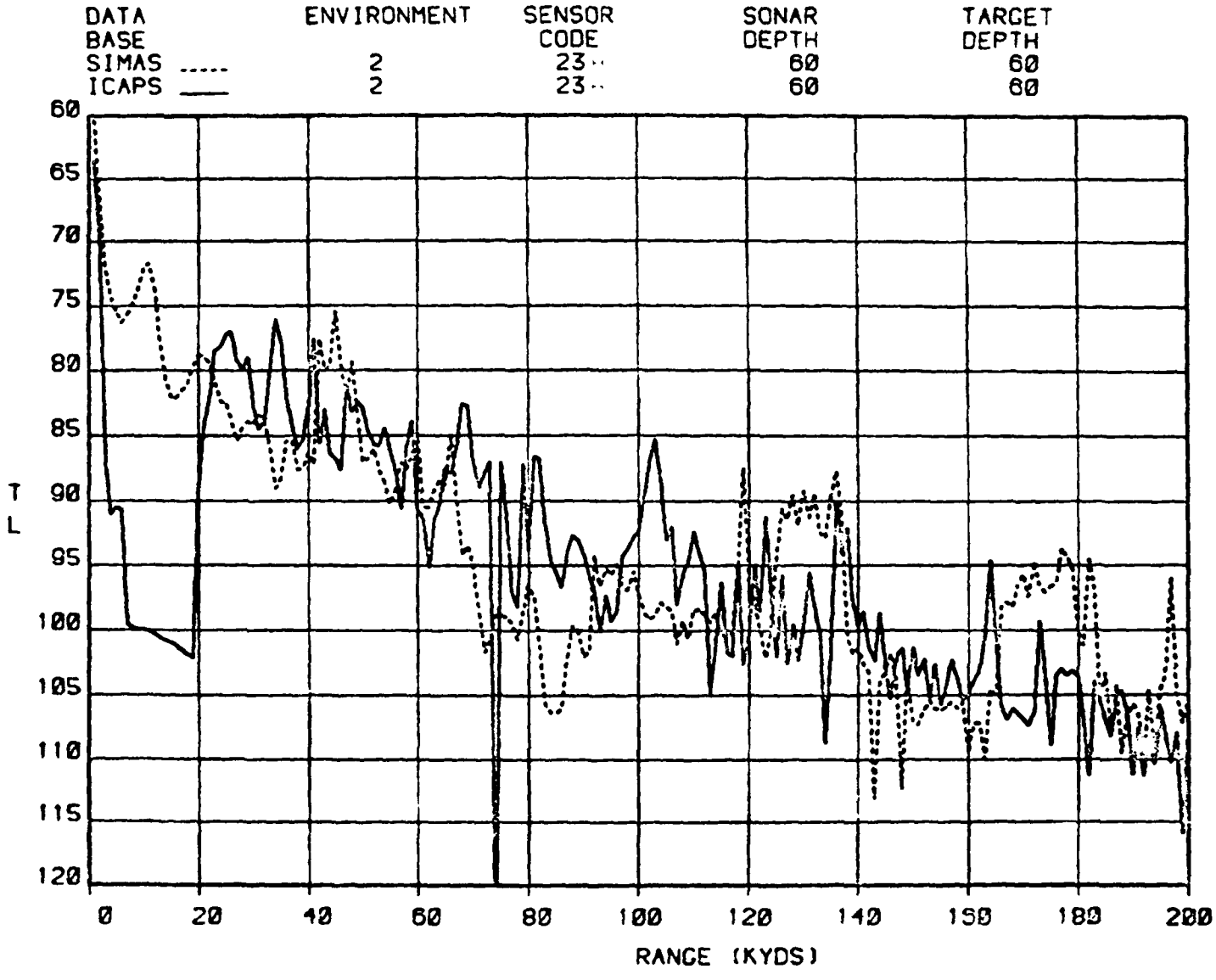

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 19 600 600
ICAPS ——— 2 19 600 600
60
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RANGE (KYDS)

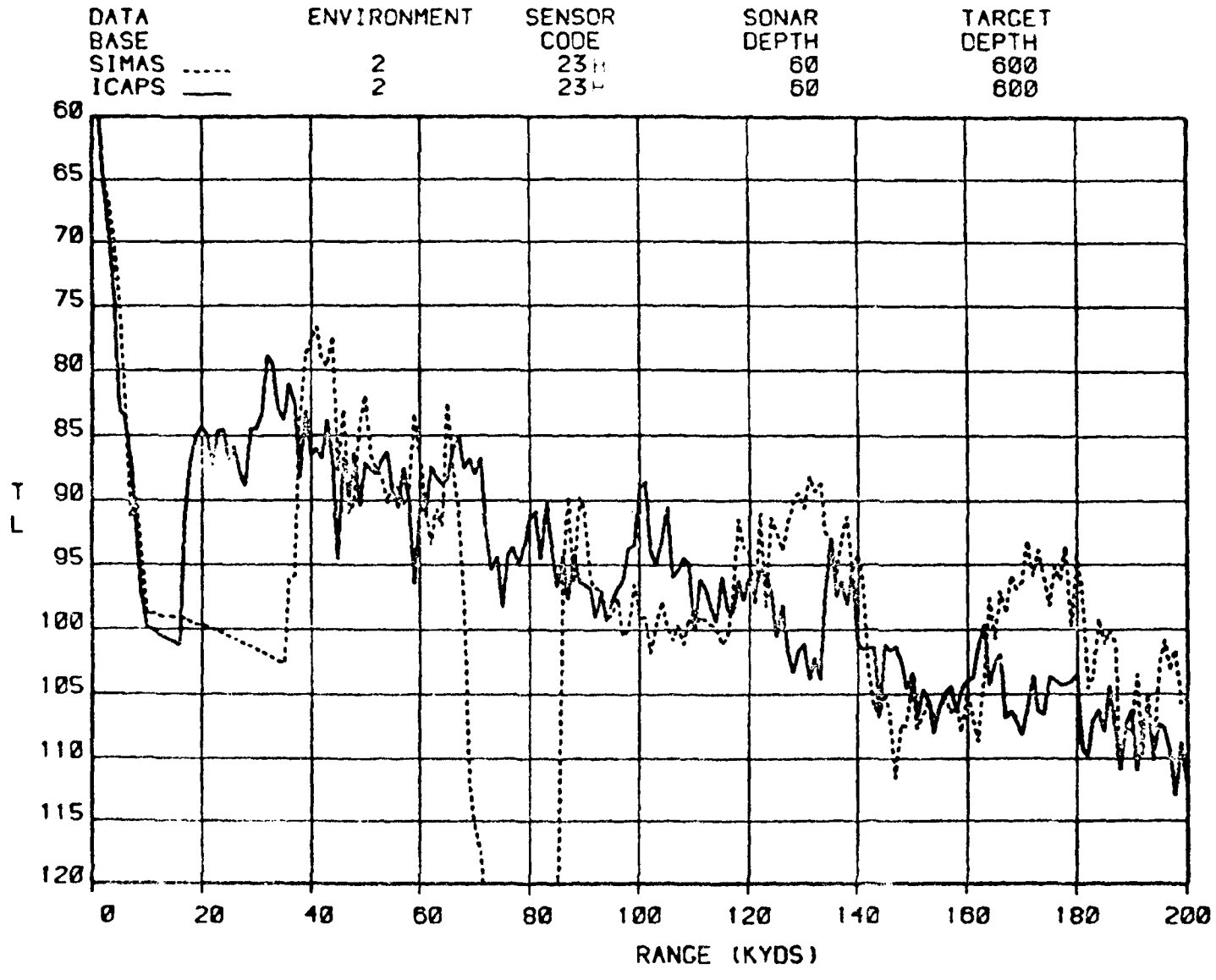

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 23 60 60
ICAPS ____ 2 23 60 60
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RANGE (KYDS)

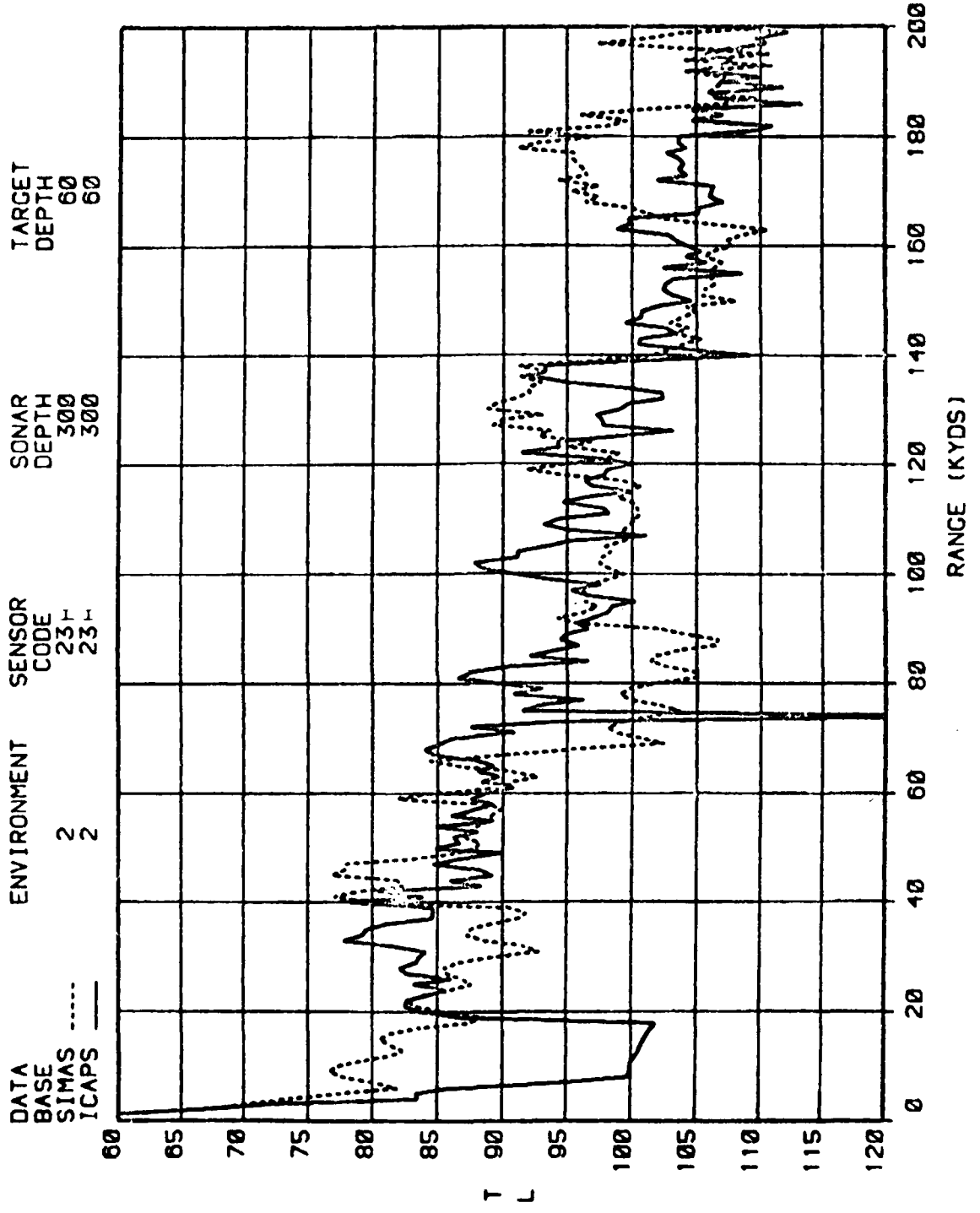

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 23 60 600
ICAPS ____ 2 23 60 600
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200
RANGE (KYDS)

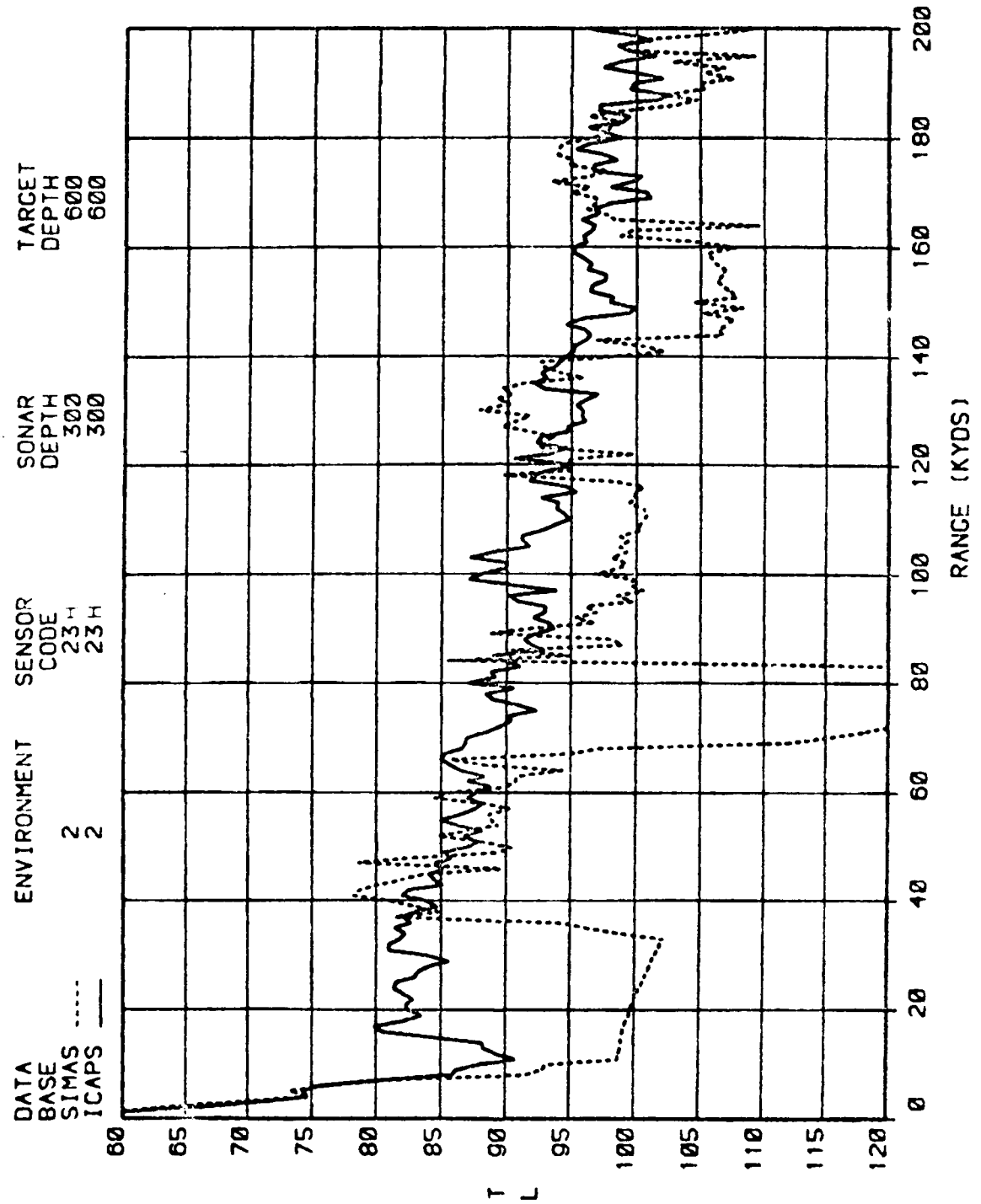

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 23_ 300 60
ICAPS ____ 2 23_ 300 60
60
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200
RANGE (KYDS)

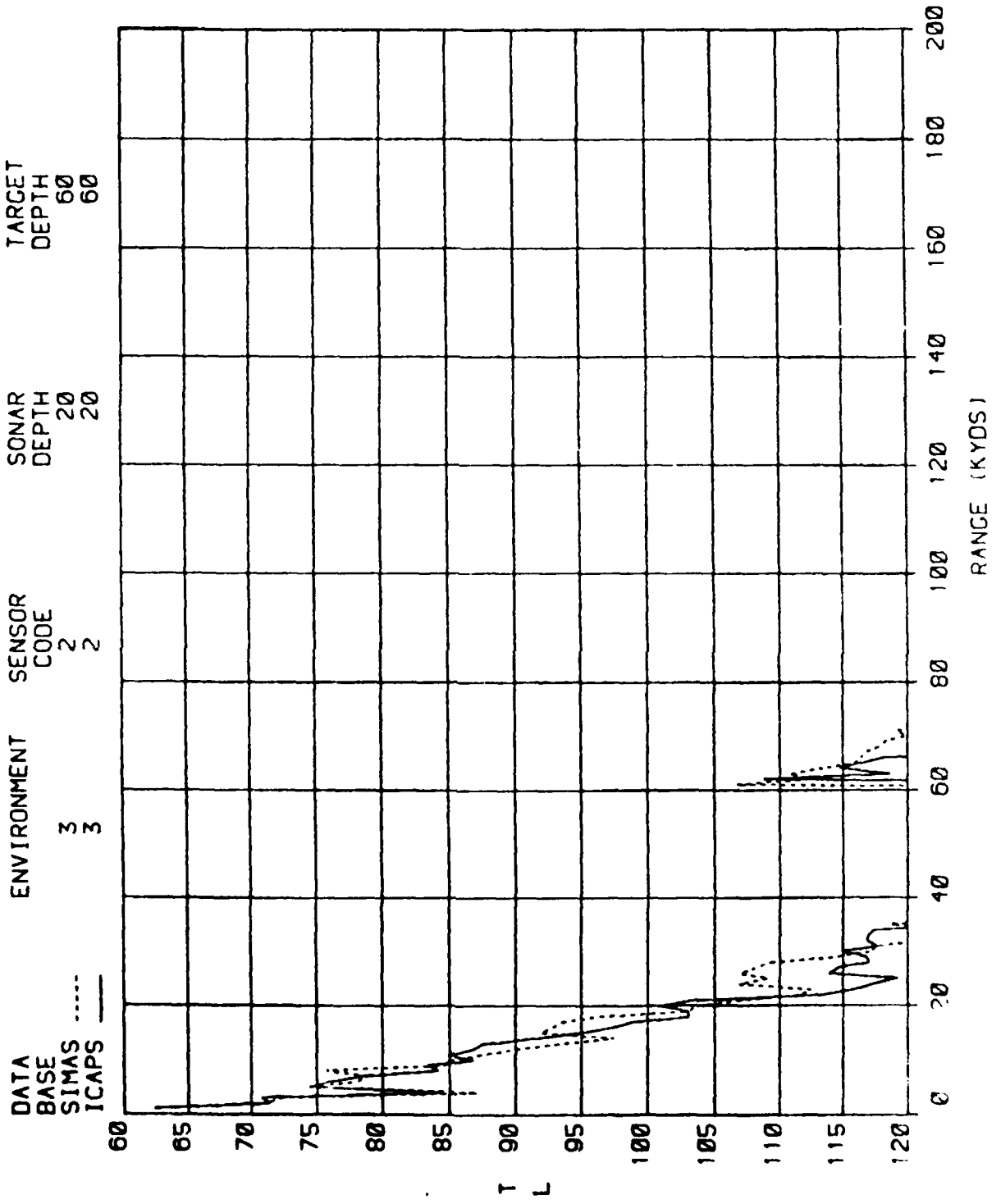

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 23_ 300 600
ICAPS ____ 2 23_ 300 600
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200
RANGE (KYDS)

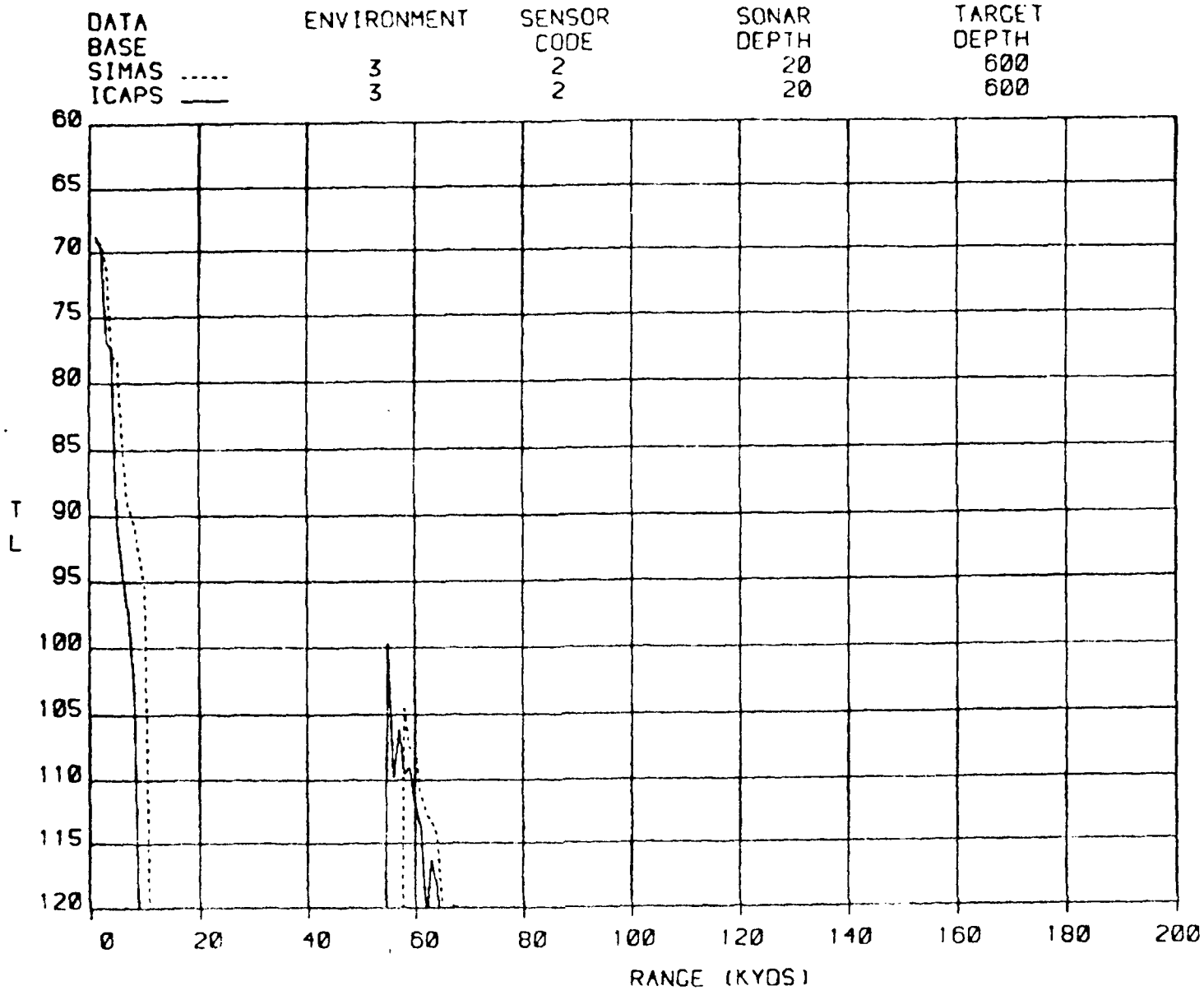

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 23·· 60 60
ICAPS ____ 2 23·· 60 60
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75
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120
T L
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20
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120
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200
RANGE (KYDS)

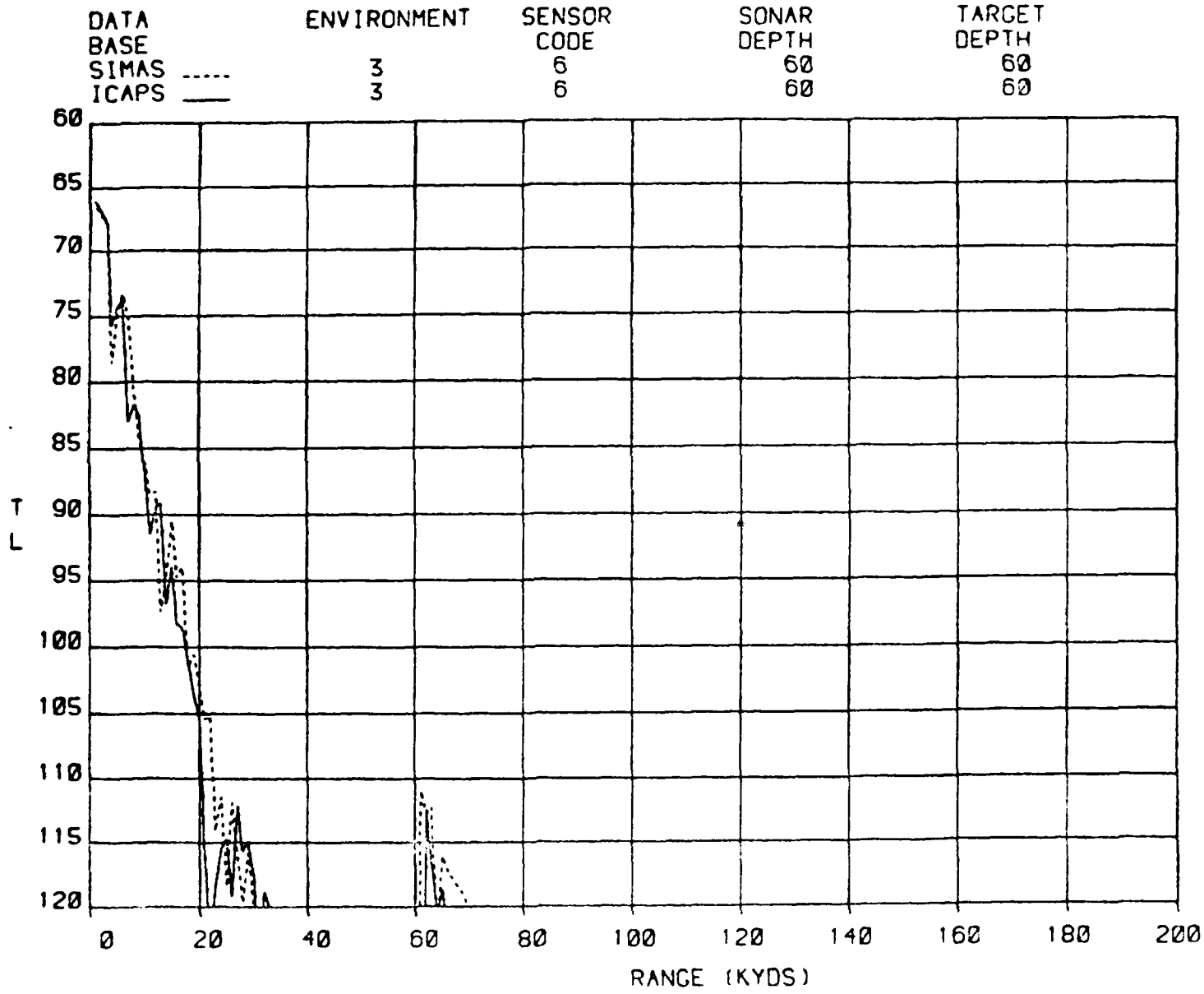

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 23 60 600
ICAPS ____ 2 23 60 600
60
65
70
75
80
85
90
95
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120
T L
0
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120
140
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200
RANGE (KYDS)

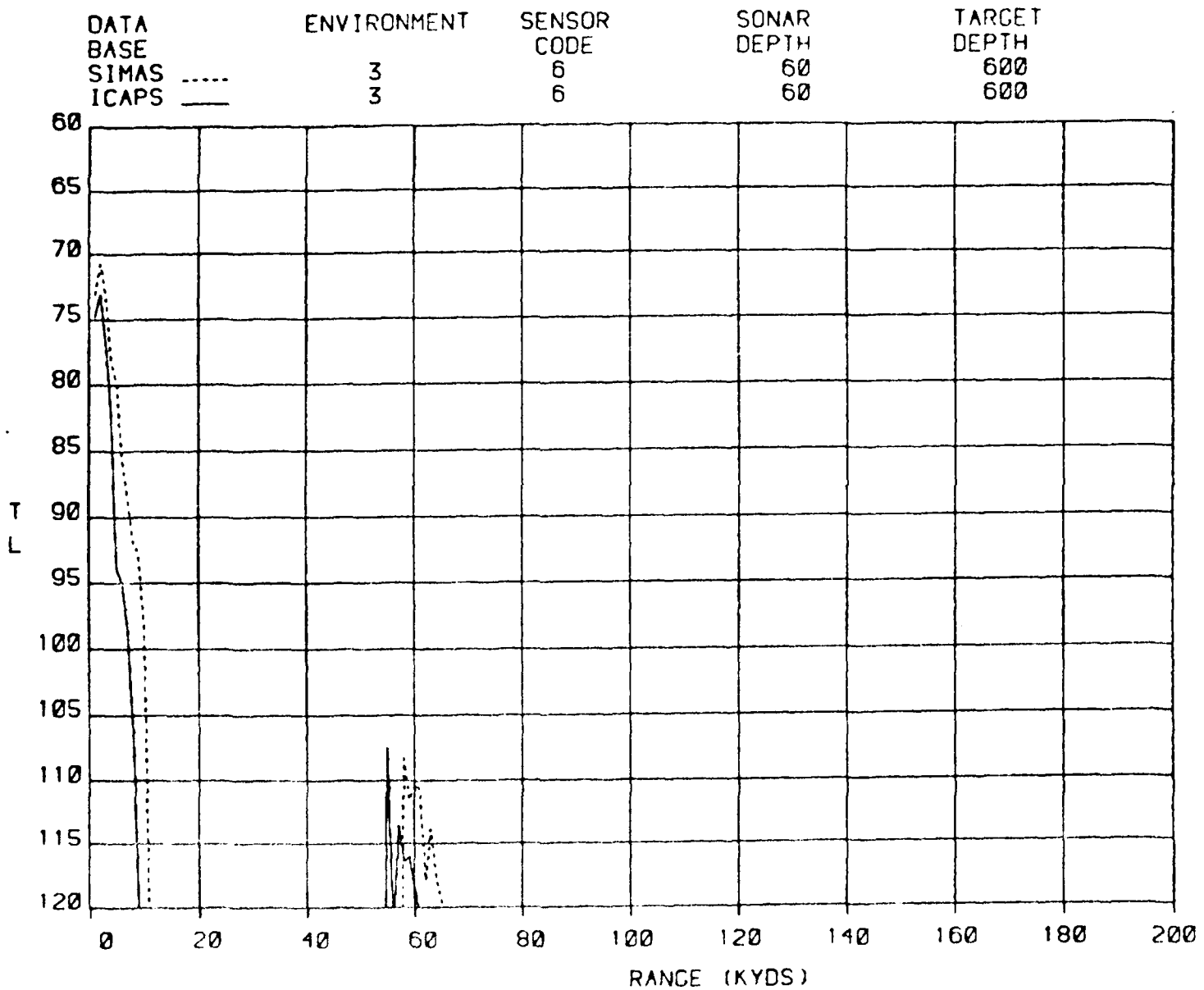

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
2
2
SENSOR CODE
23H
23H
SONAR DEPTH
300
300
TARGET DEPTH
60
60
60
65
70
75
80
85
90
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T L
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200
RANGE (KYDS)

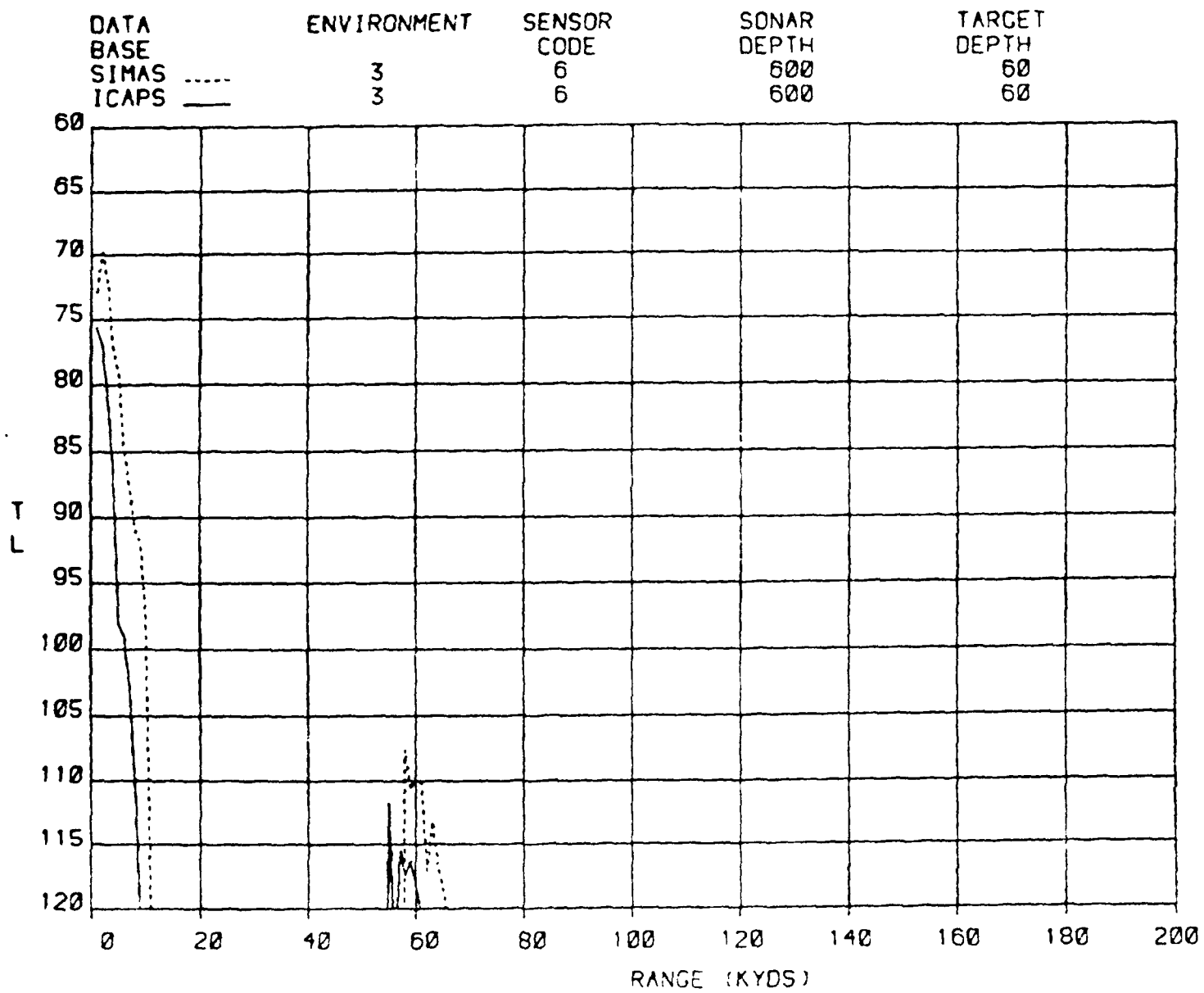

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
2
2
SENSOR CODE
23 H
23 H
SONAR DEPTH
300
300
TARGET DEPTH
600
600
T L
60
65
70
75
80
85
90
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120
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200
RANGE (KYDS)

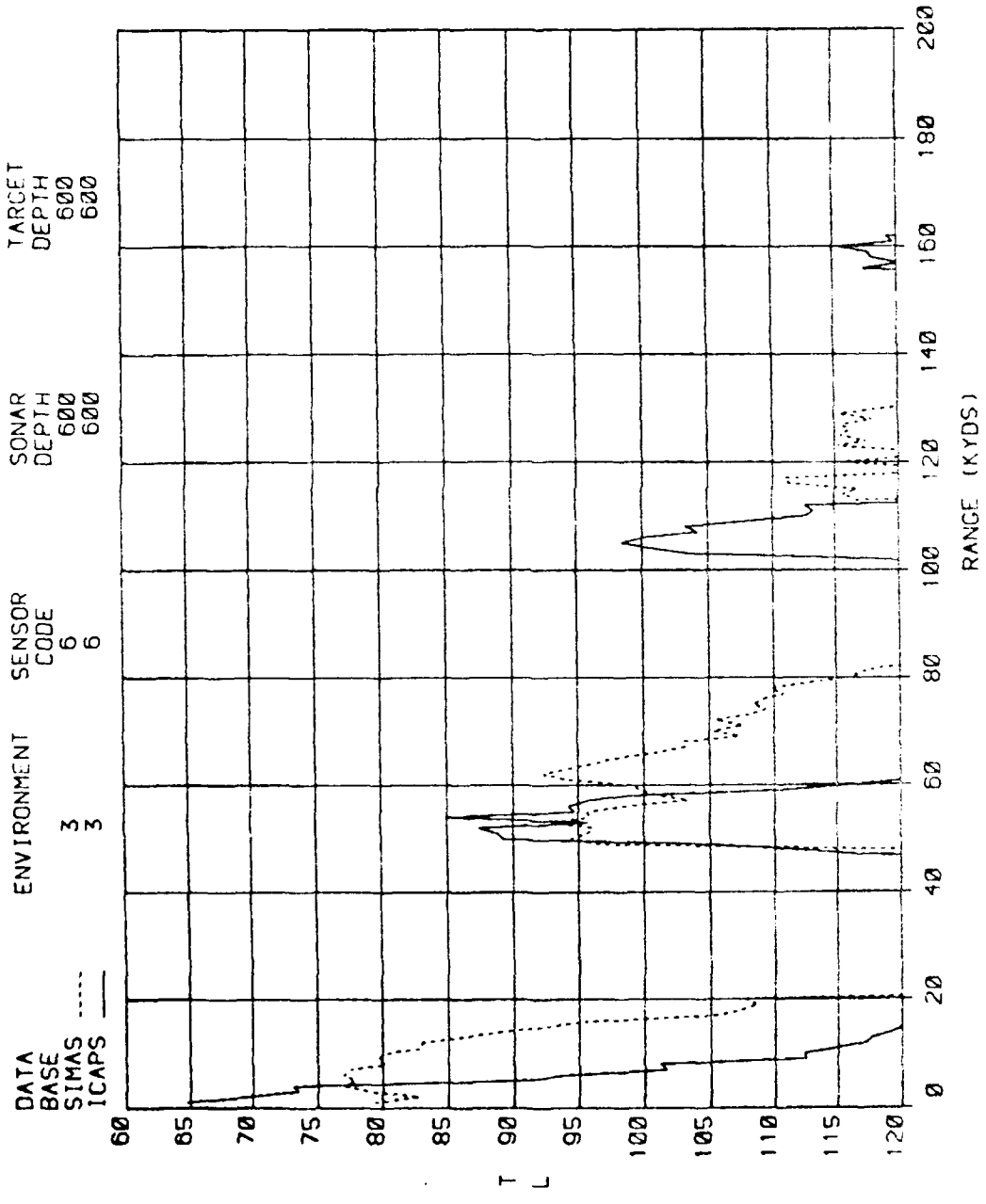

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
3
3
SENSOR CODE
2
2
SONAR DEPTH
20
20
TARGET DEPTH
60
60
T L
60
65
70
75
80
85
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RANGE (KYDS)

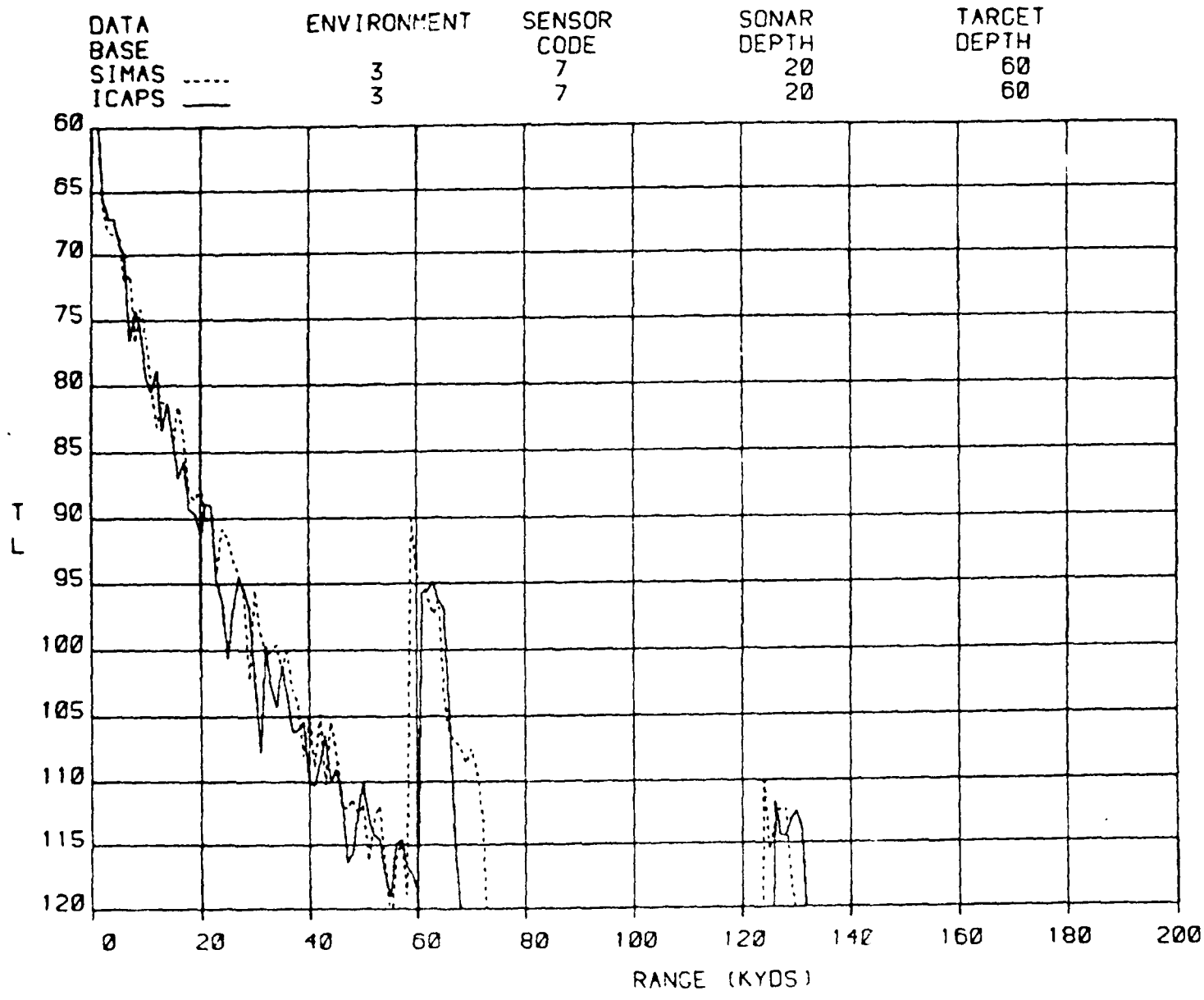

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 2 20 600
ICAPS ____ 3 2 20 600
60
65
70
75
80
85
90
95
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120
T L
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200
RANGE (KYDS)

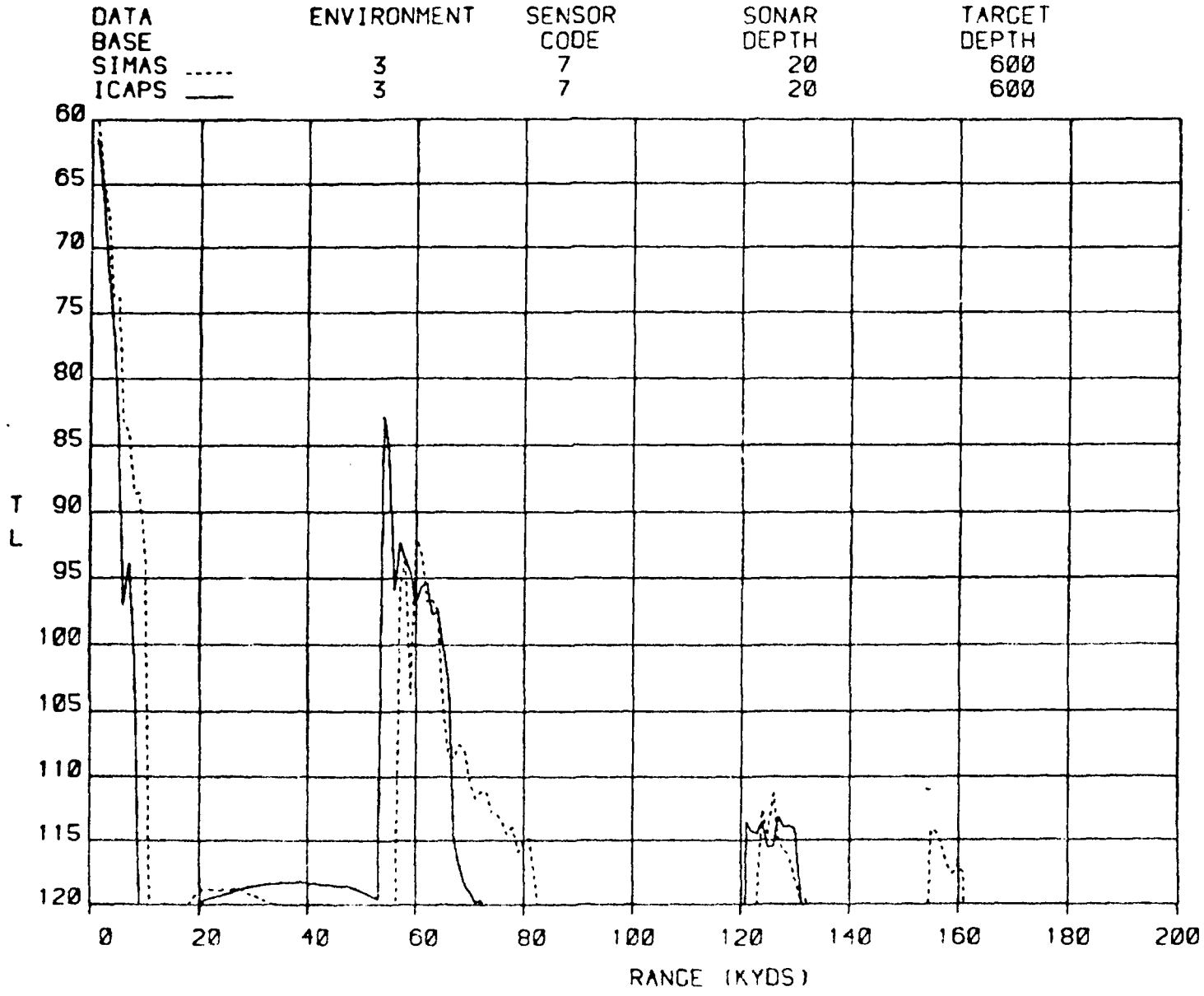

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 6 60 60
ICAPS ____ 3 6 60 60
60
65
70
75
80
85
90
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120
T L
0
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40
60
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120
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160
180
200
RANGE (KYDS)

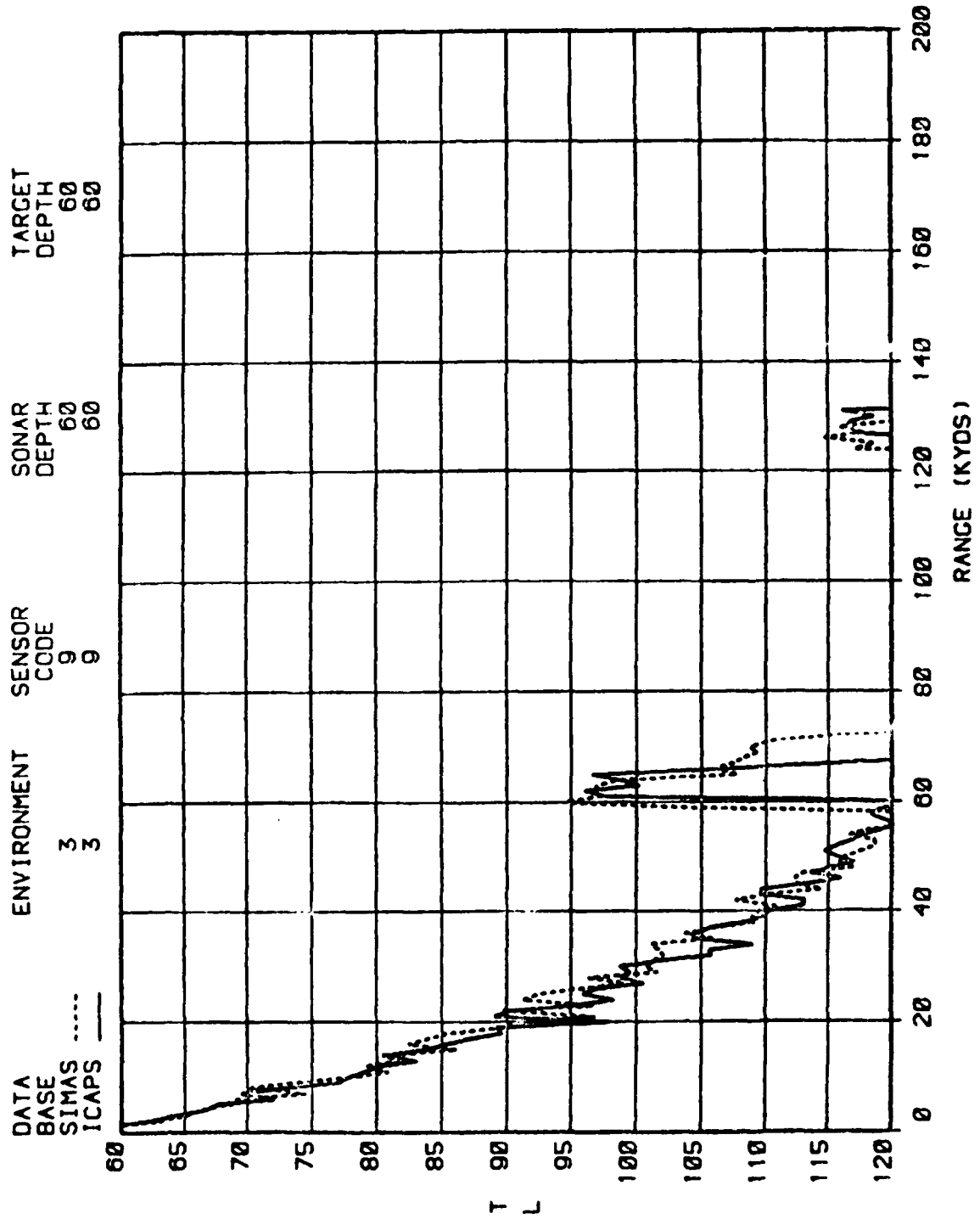

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 6 60 600
ICAPS ____ 3 6 60 600
60
65
70
75
80
85
90
95
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120
T L
0
20
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200
RANGE (KYDS)

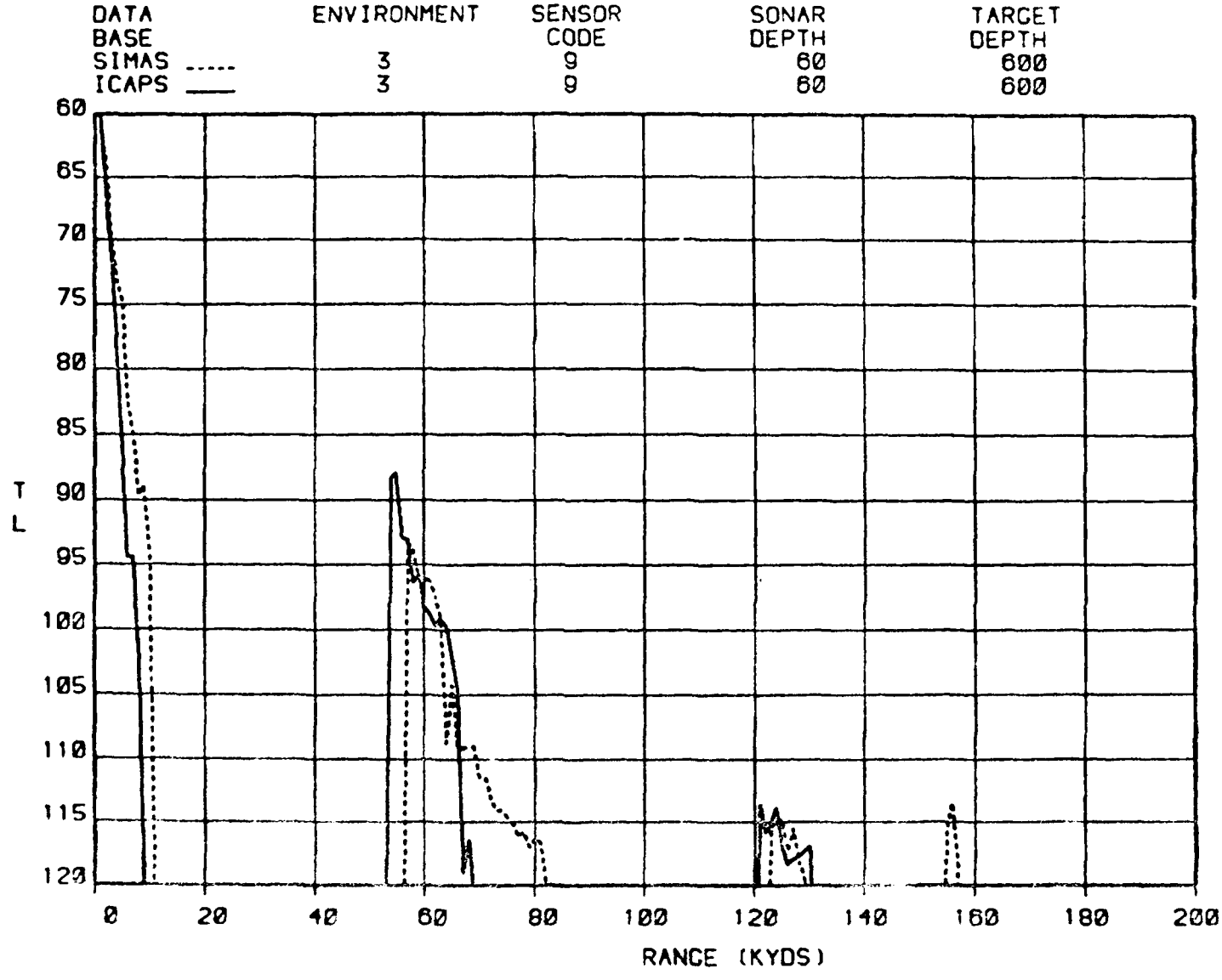

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 6 600 60
ICAPS —— 3 6 600 60
60
65
70
75
80
85
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T L
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200
RANGE (KYDS)

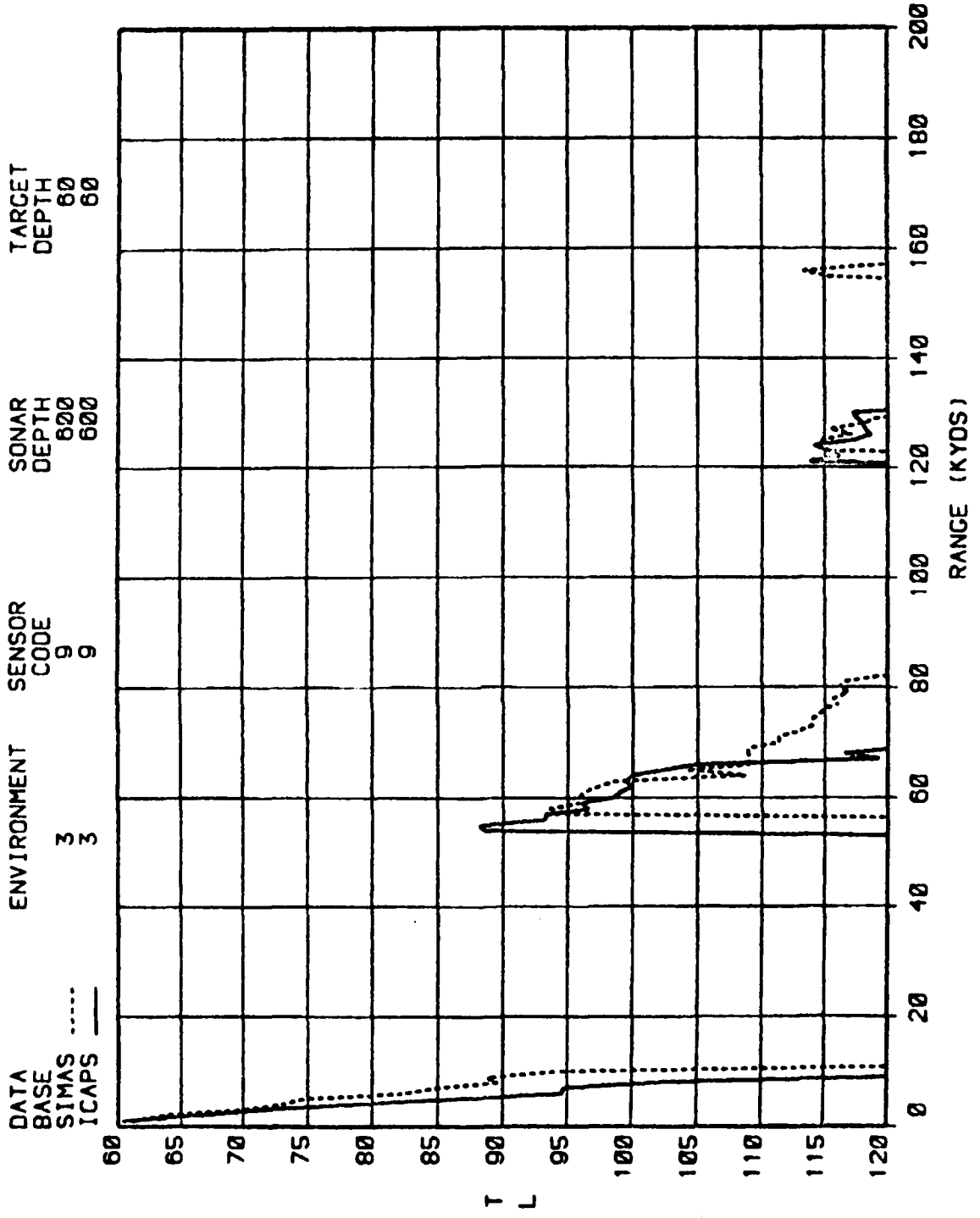

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
3
3
SENSOR CODE
6
6
SONAR DEPTH
600
600
TARGET DEPTH
600
600
T L
60
65
70
75
80
85
90
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100
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115
120
0
20
40
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200
RANGE (KYDS)

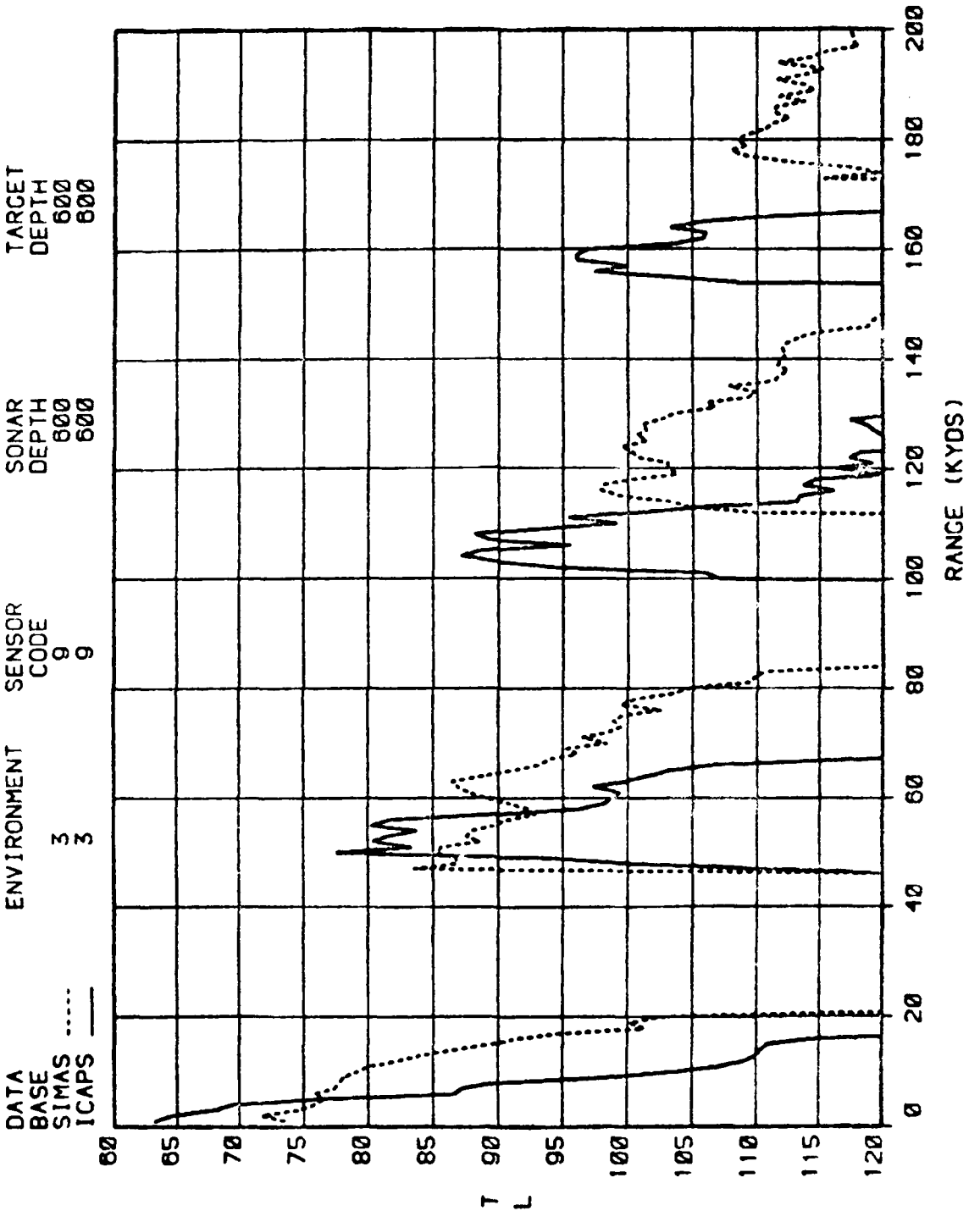

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 7 20 60
ICAPS ____ 3 7 20 60
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
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120
140
160
180
200
RANGE (KYDS)

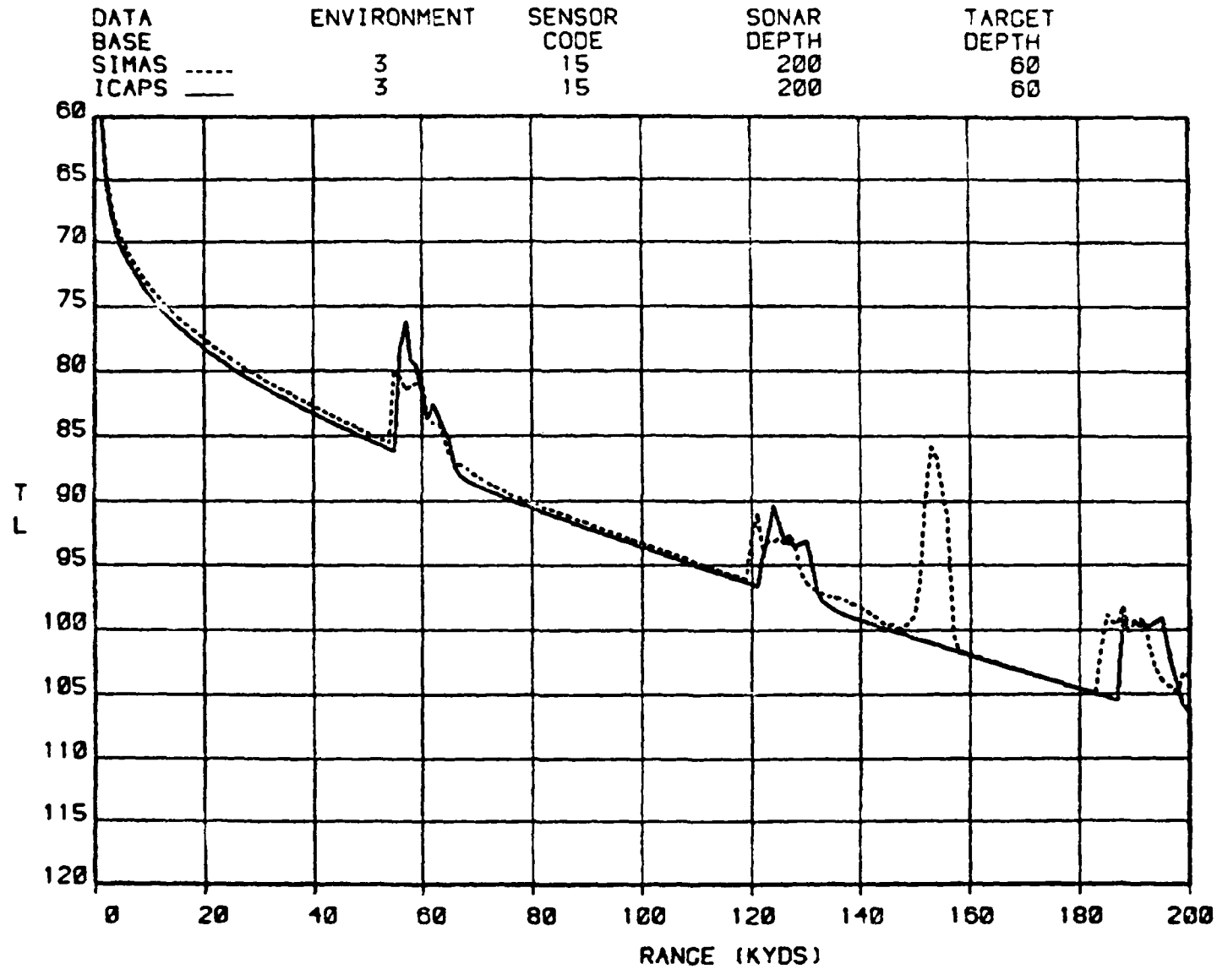

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 7 20 600
ICAPS ____ 3 7 20 600
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65
70
75
80
85
90
95
100
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110
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L
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RANGE (KYDS)

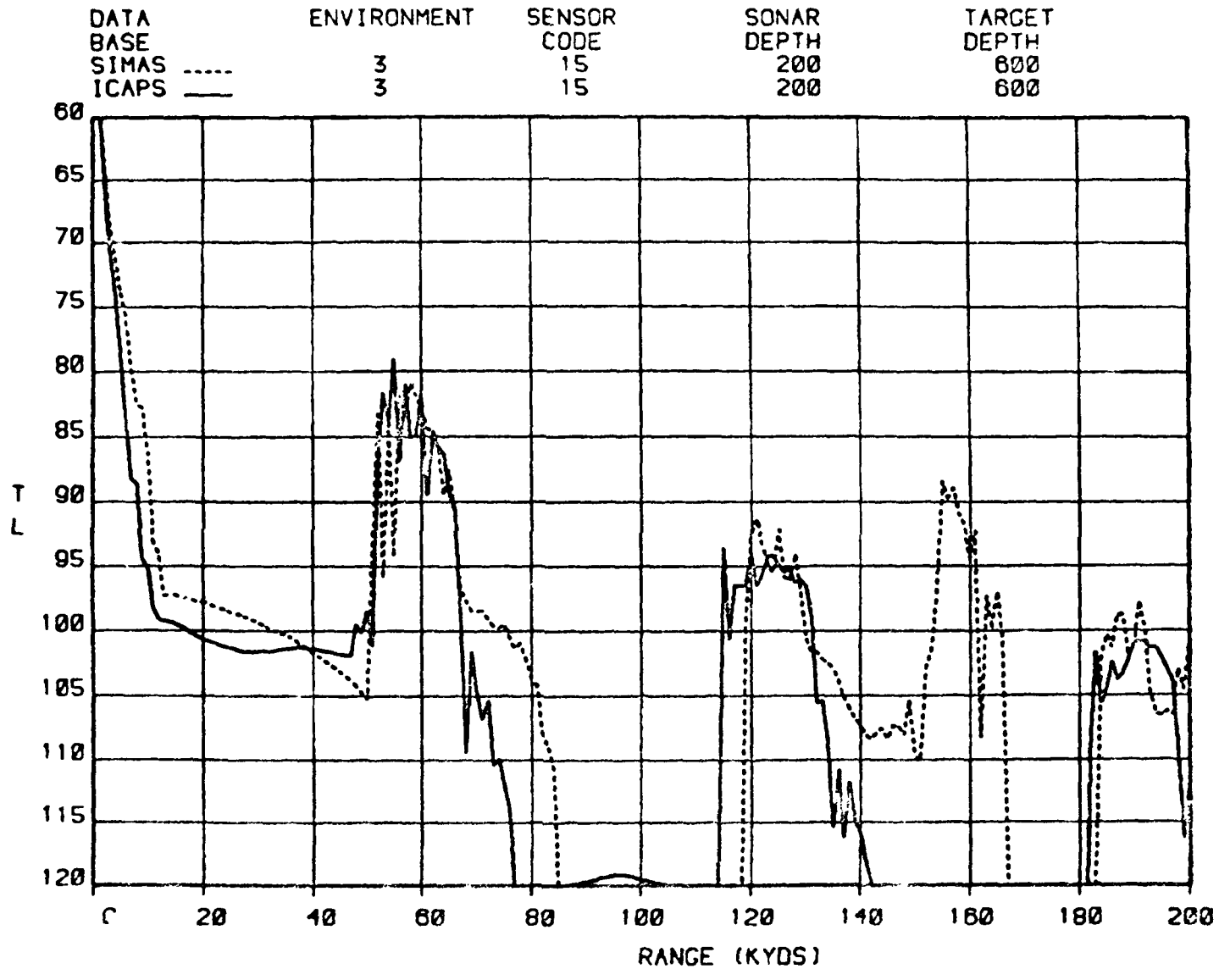

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
3
3
SENSOR CODE
9
9
SONAR DEPTH
60
60
TARGET DEPTH
60
60
T L
60
65
70
75
80
85
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100
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120
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200
RANGE (KYDS)

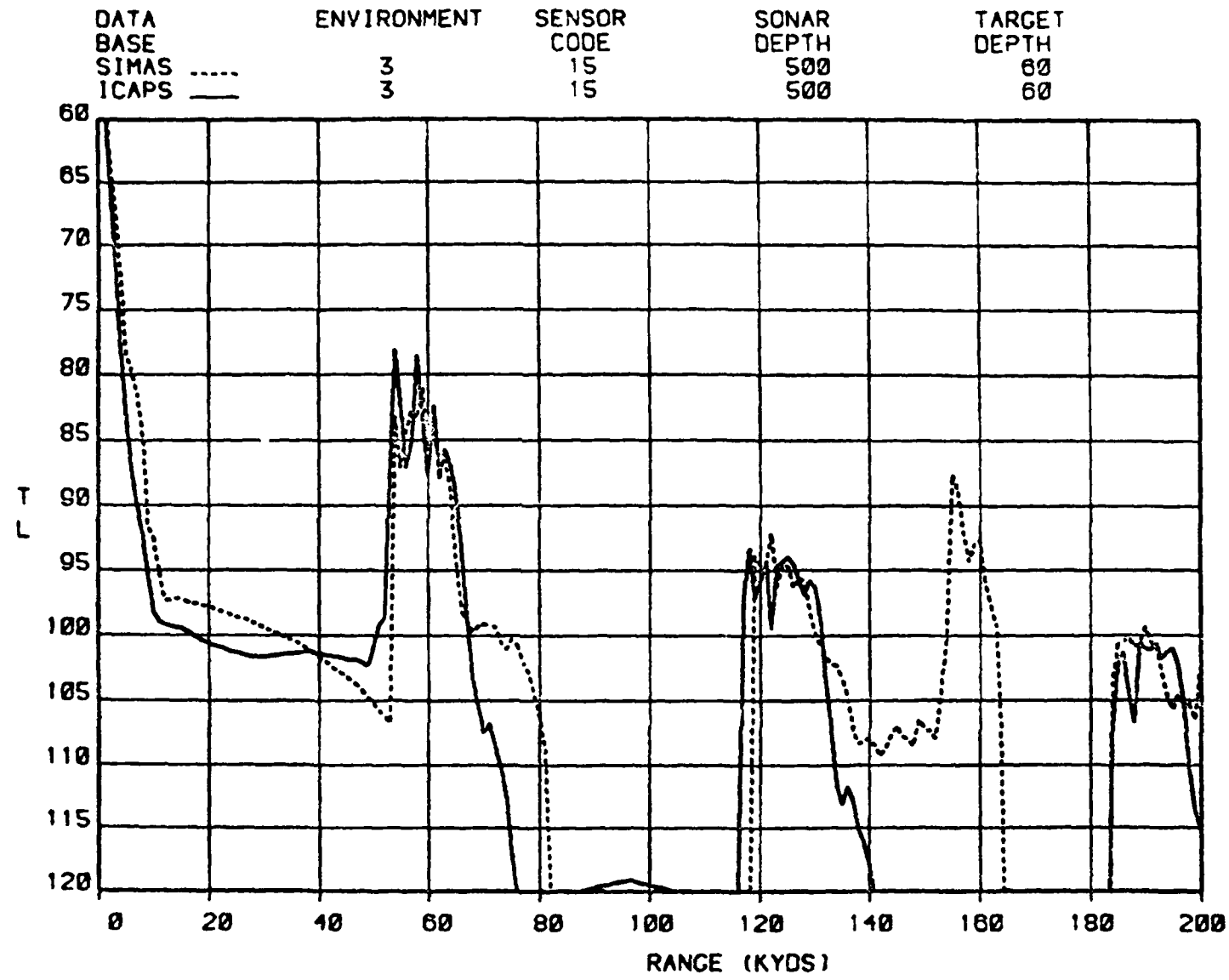

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 9 60 600
ICAPS ____ 3 9 60 600
60
65
70
75
80
85
90
95
100
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110
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T
L
0
20
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60
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120
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180
200
RANGE (KYDS)

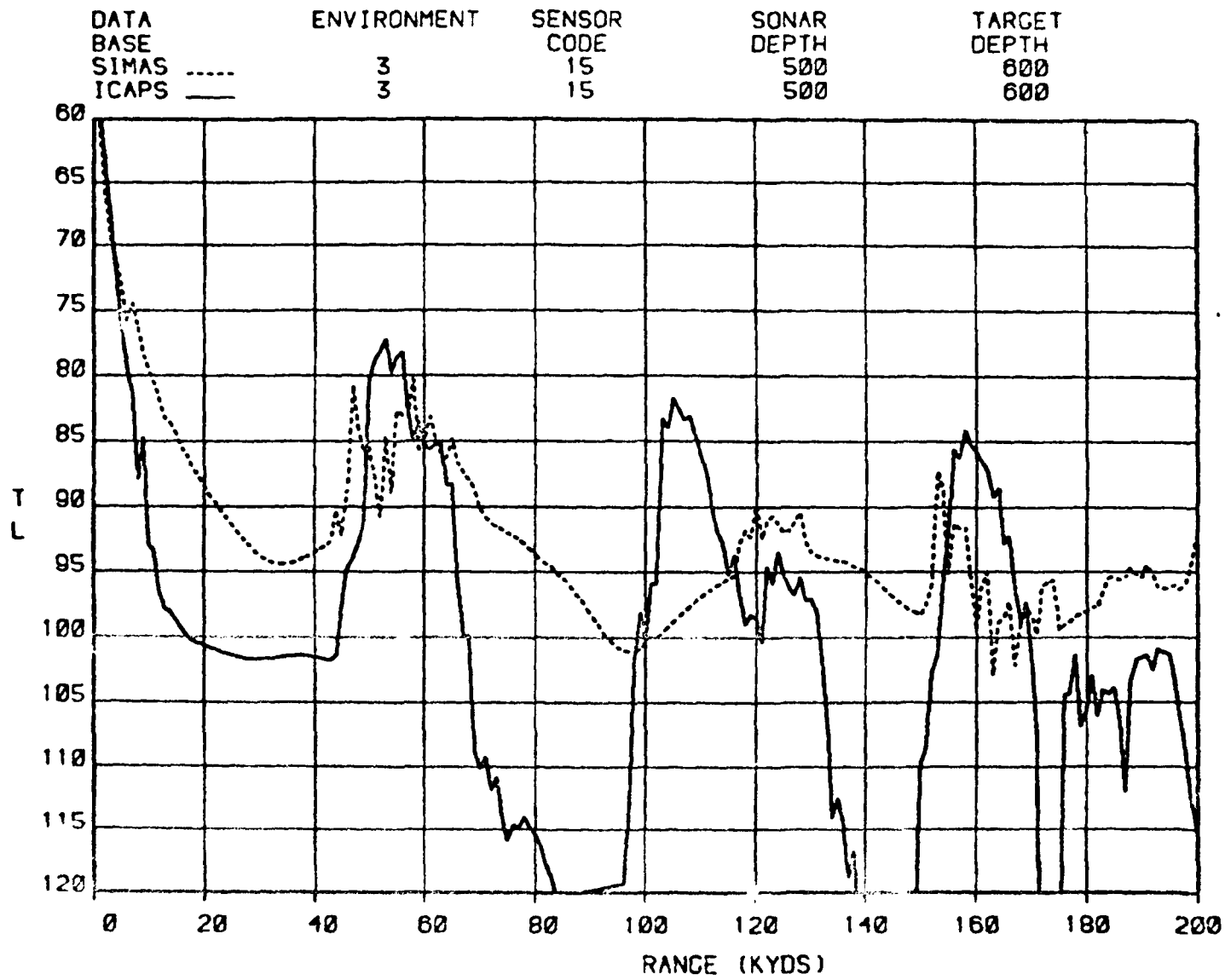

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
3
3
SENSOR CODE
9
9
SONAR DEPTH
800
600
TARGET DEPTH
60
60
T L
60
65
70
75
80
85
90
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100
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115
120
0
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40
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200
RANGE (KYDS)

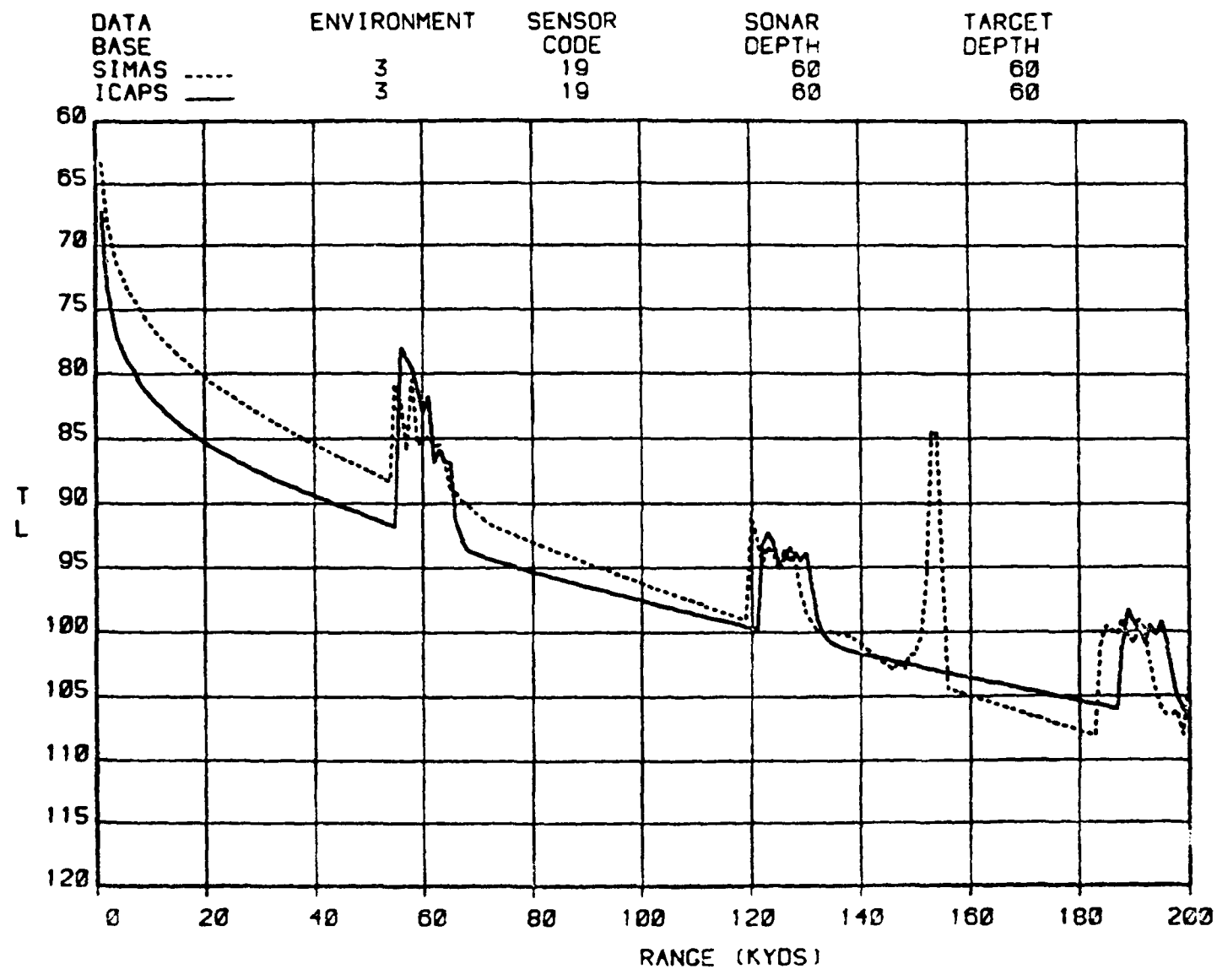

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT 3 3
SENSOR CODE 9 9
SONAR DEPTH 600 600
TARGET DEPTH 600 800
T L
RANGE (KYDS)
60 65 70 75 80 85 90 95 100 105 110 115 120
0 20 40 60 80 100 120 140 160 180 200

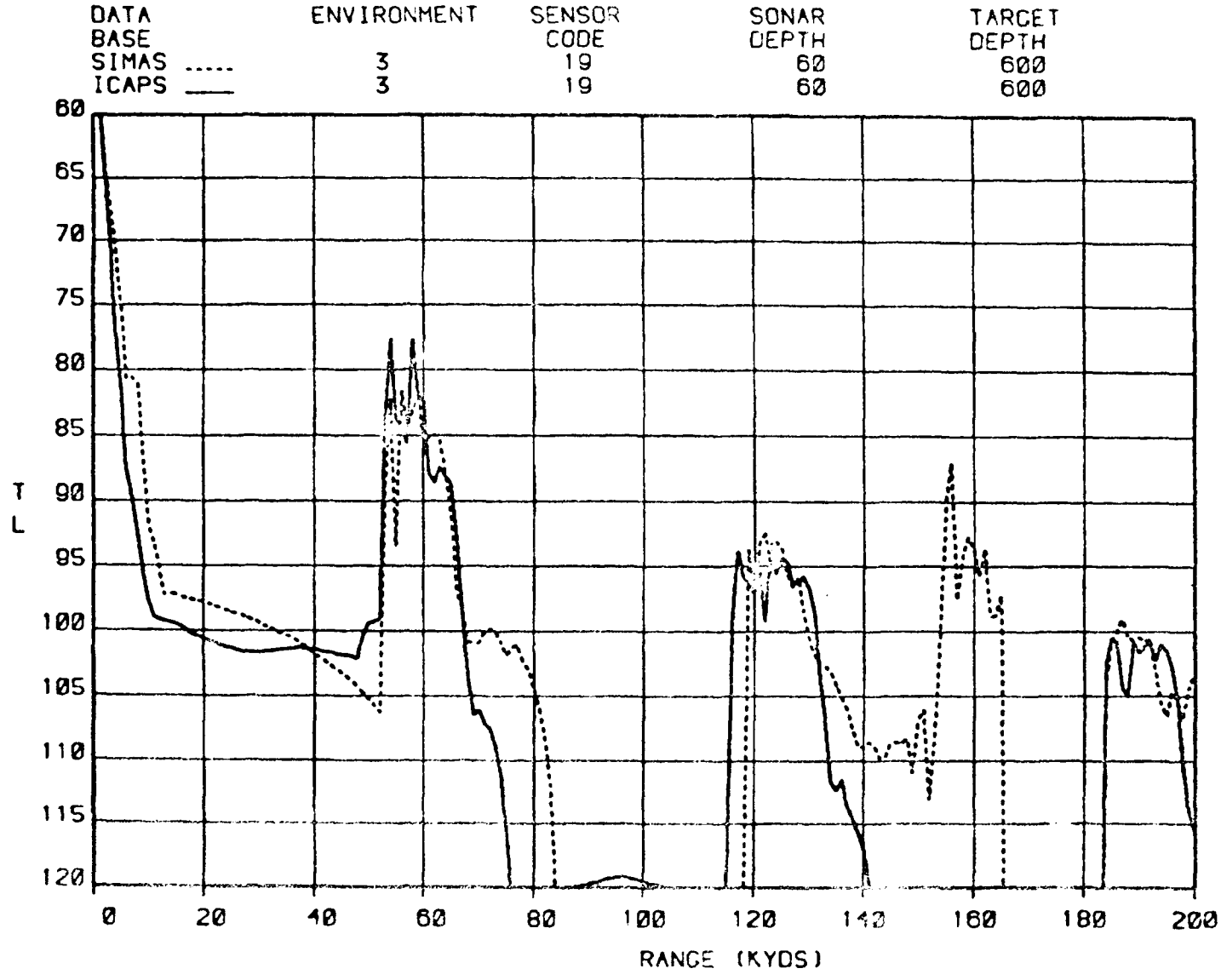

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 15 200 60
ICAPS ____ 3 15 200 60
60
65
70
75
80
85
90
95
100
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120
T L
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60
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120
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180
200
RANGE (KYDS)

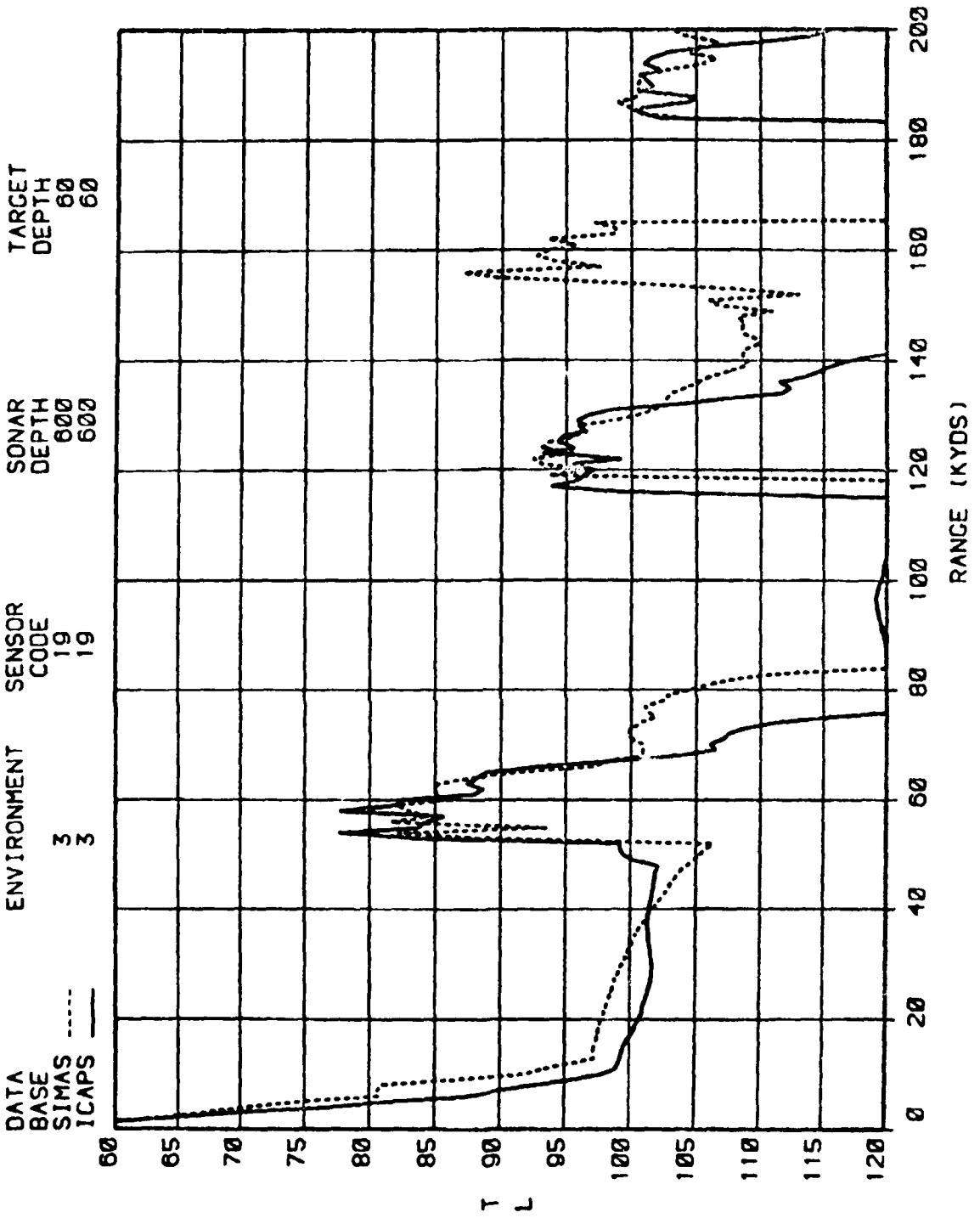

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 15 200 600
ICAPS ____ 3 15 200 600
60
65
70
75
80
85
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95
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L
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120
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160
180
200
RANGE (KYDS)

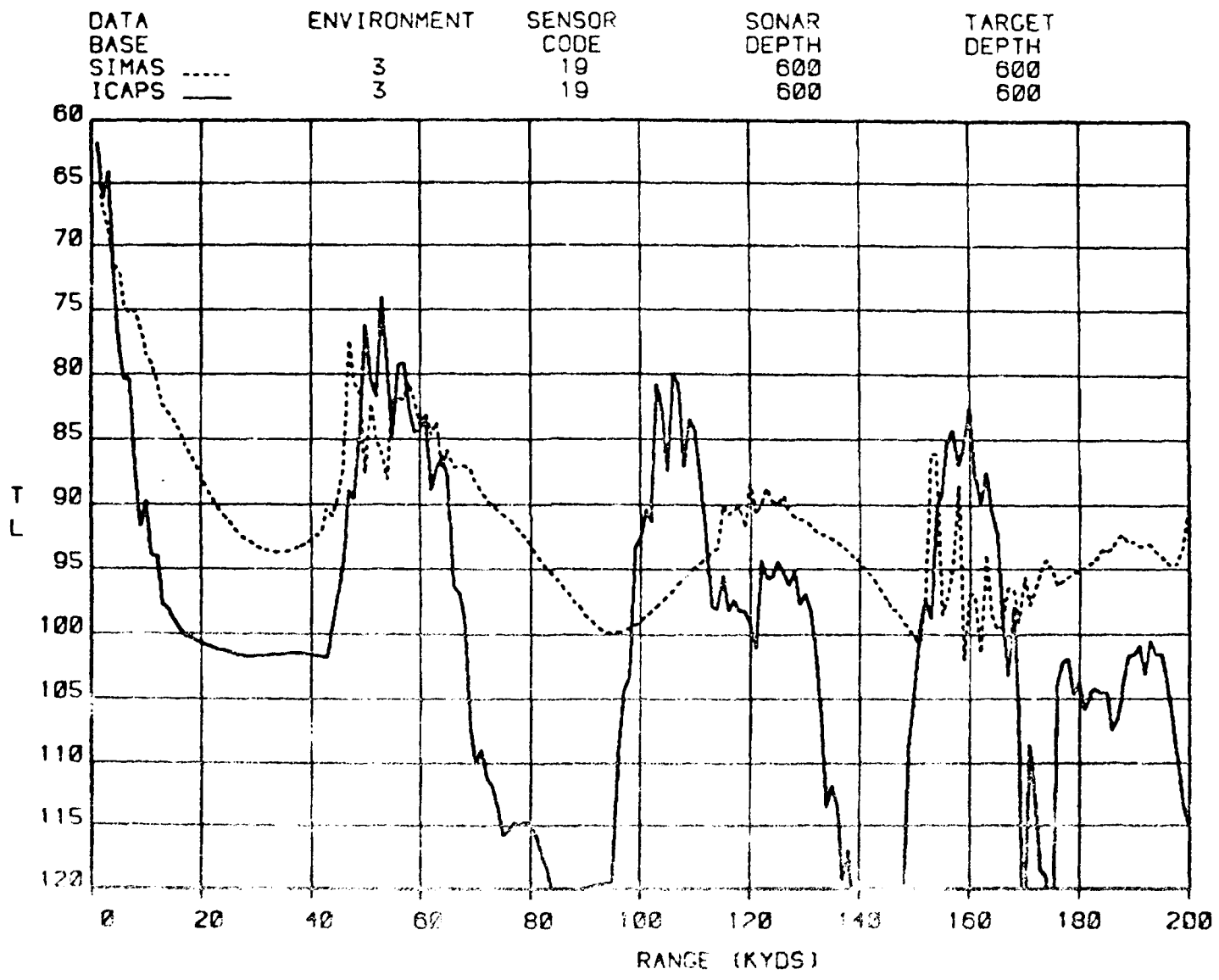

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 15 500 60
ICAPS ____ 3 15 500 60
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75
80
85
90
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120
T L
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180
200
RANGE (KYDS)

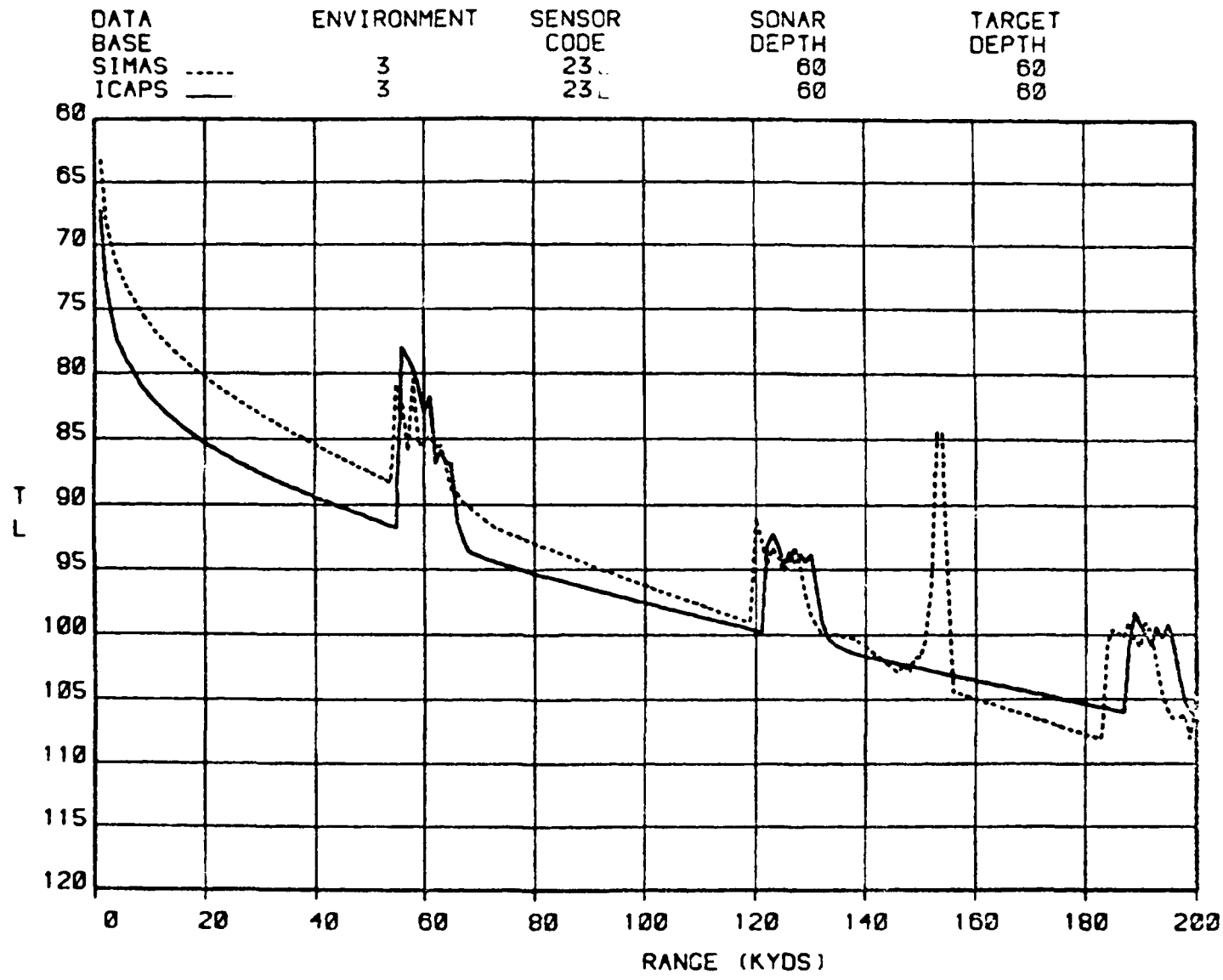

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 15 500 600
ICAPS ___ 3 15 500 600
60
65
70
75
80
85
90
95
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120
T L
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180
200
RANGE (KYDS)

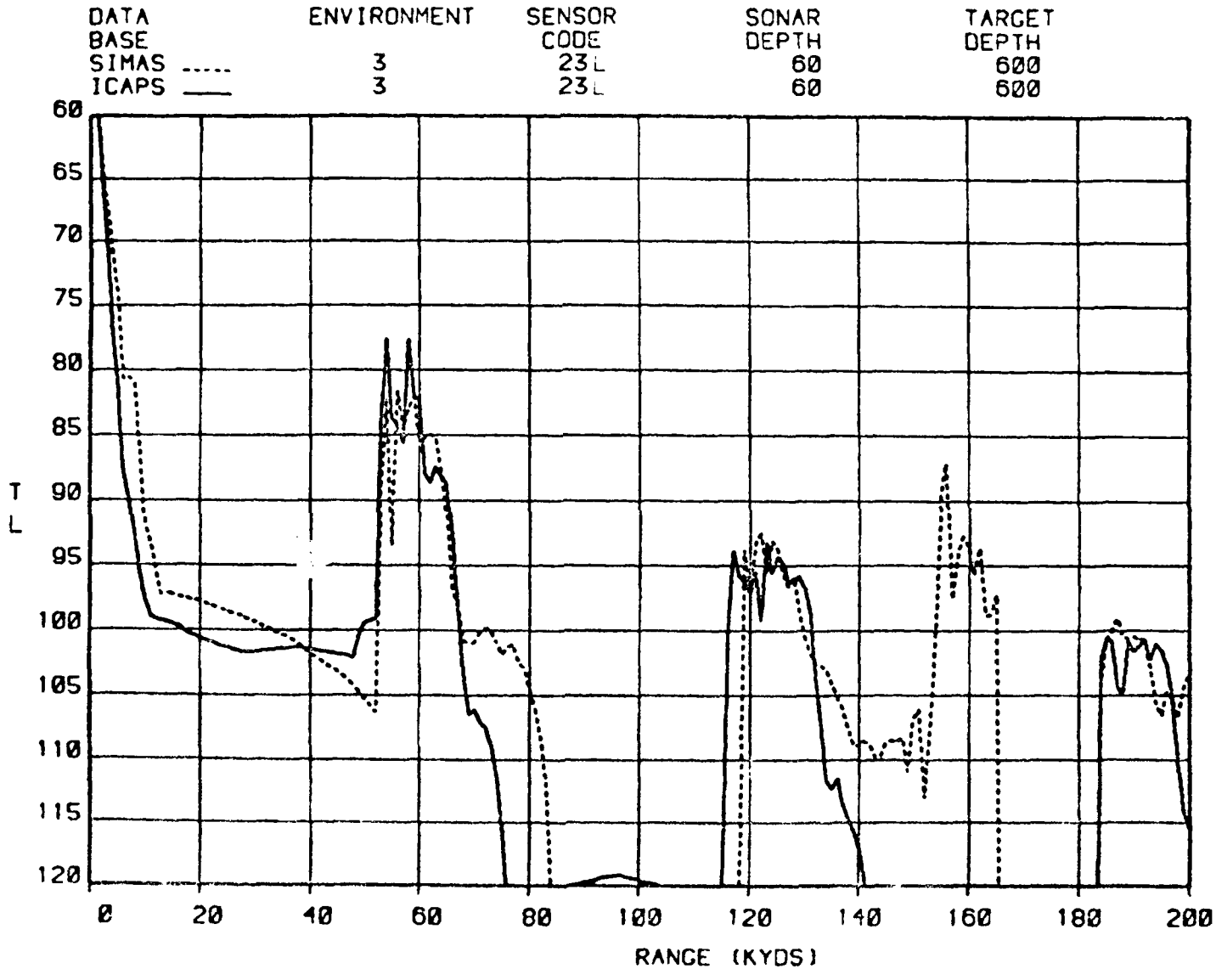

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 19 60 60
ICAPS ____ 3 19 60 60
60
65
70
75
80
85
90
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T L
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180
200
RANGE (KYDS)

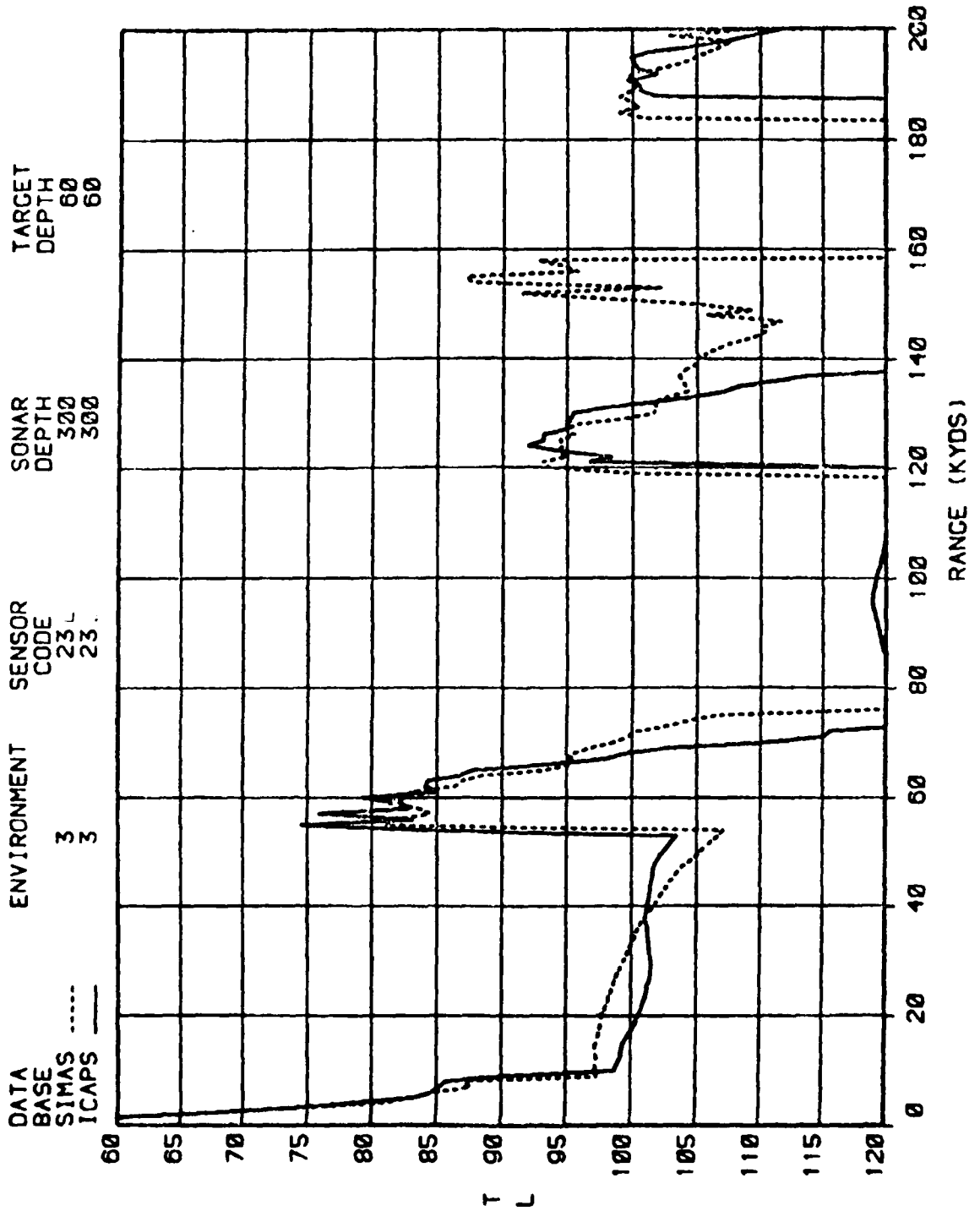

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 19 60 600
ICAPS ____ 3 19 60 600
60
65
70
75
80
85
90
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T L
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160
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200
RANGE (KYDS)

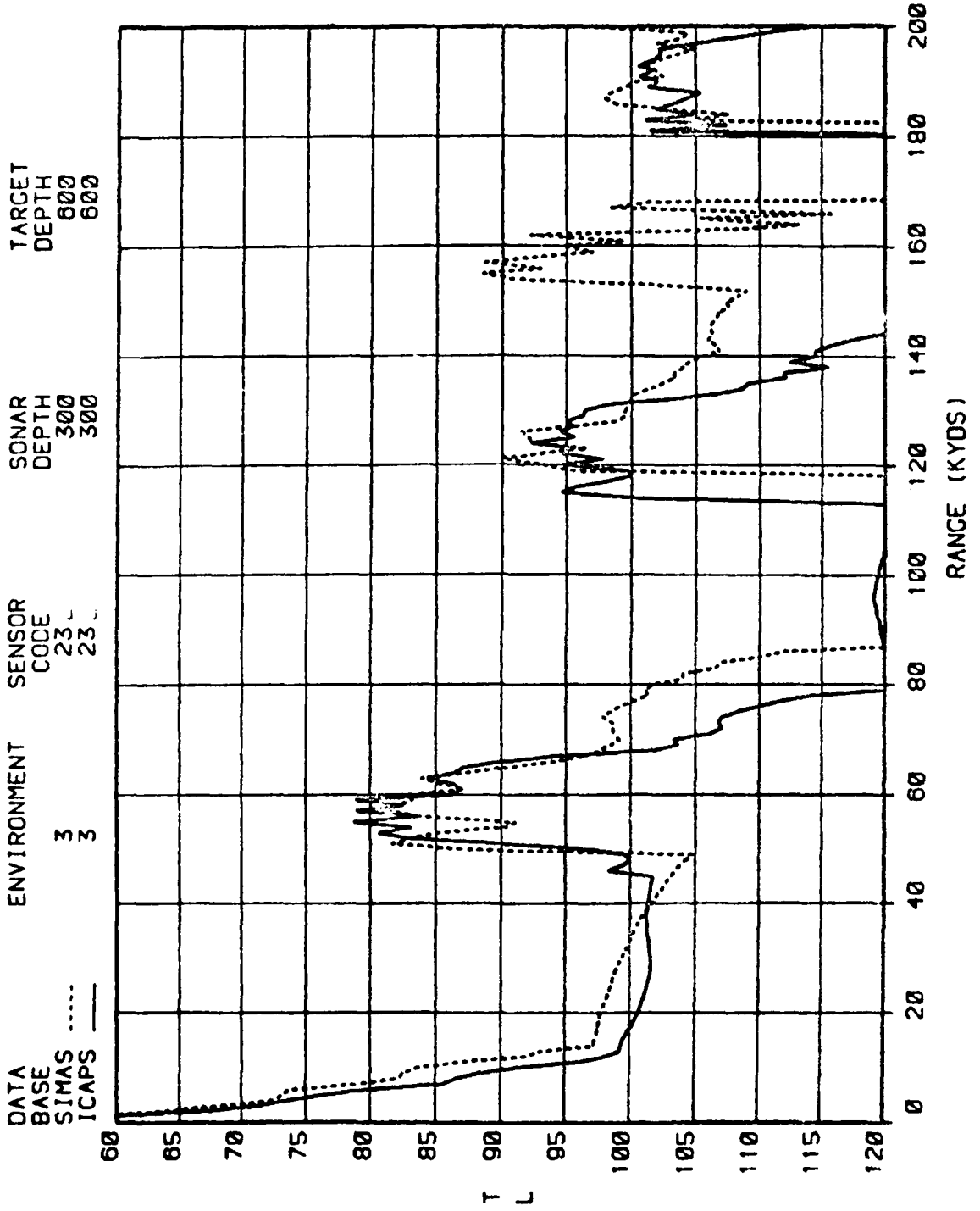

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
3
3
SENSOR CODE
19
19
SONAR DEPTH
600
600
TARGET DEPTH
60
60
T L
60
65
70
75
80
85
90
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120
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80
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120
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160
180
200
RANGE (KYDS)

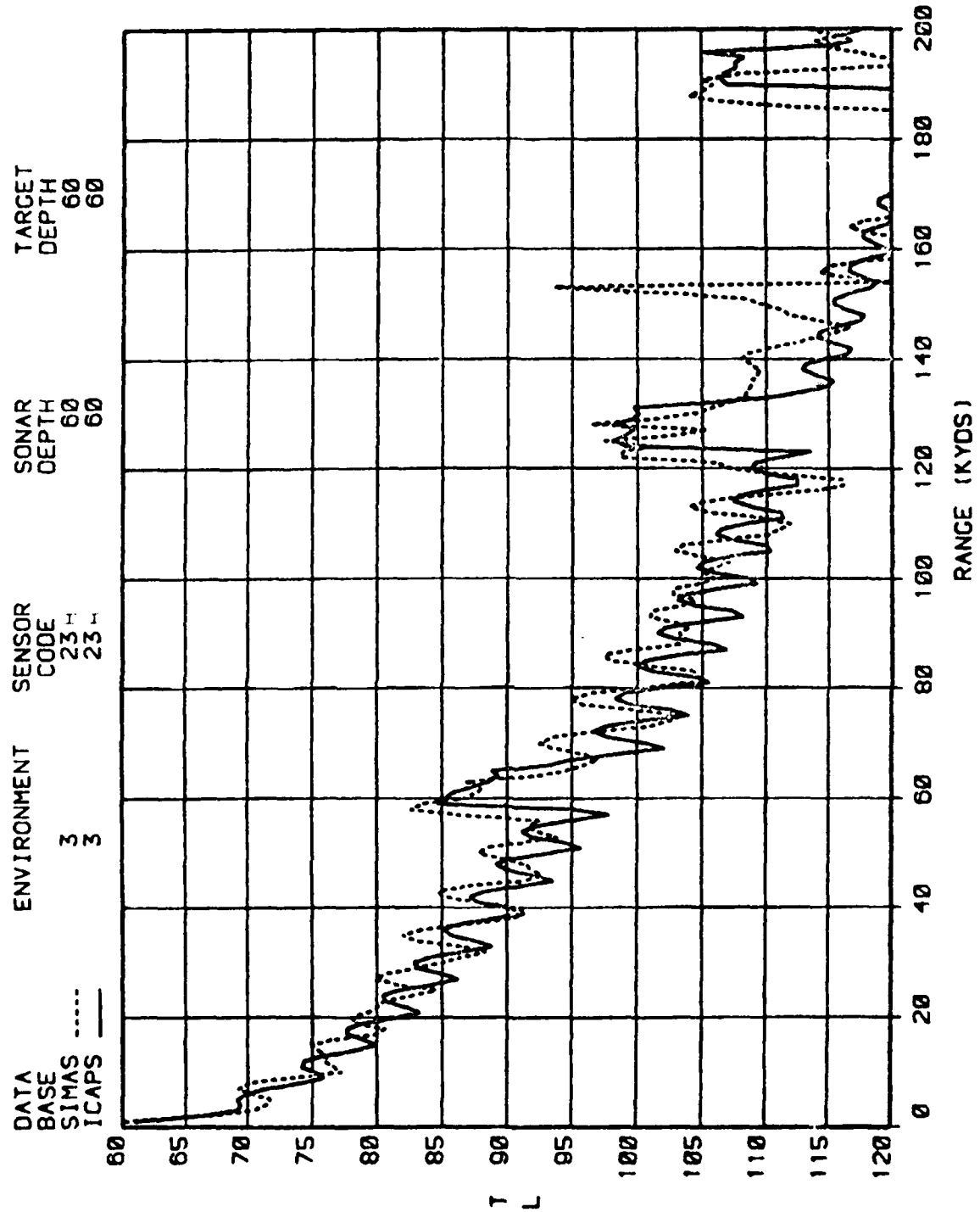

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 19 600 600
ICAPS ____ 3 19 600 600
60
65
70
75
80
85
90
95
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120
T L
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180
200
RANGE (KYDS)

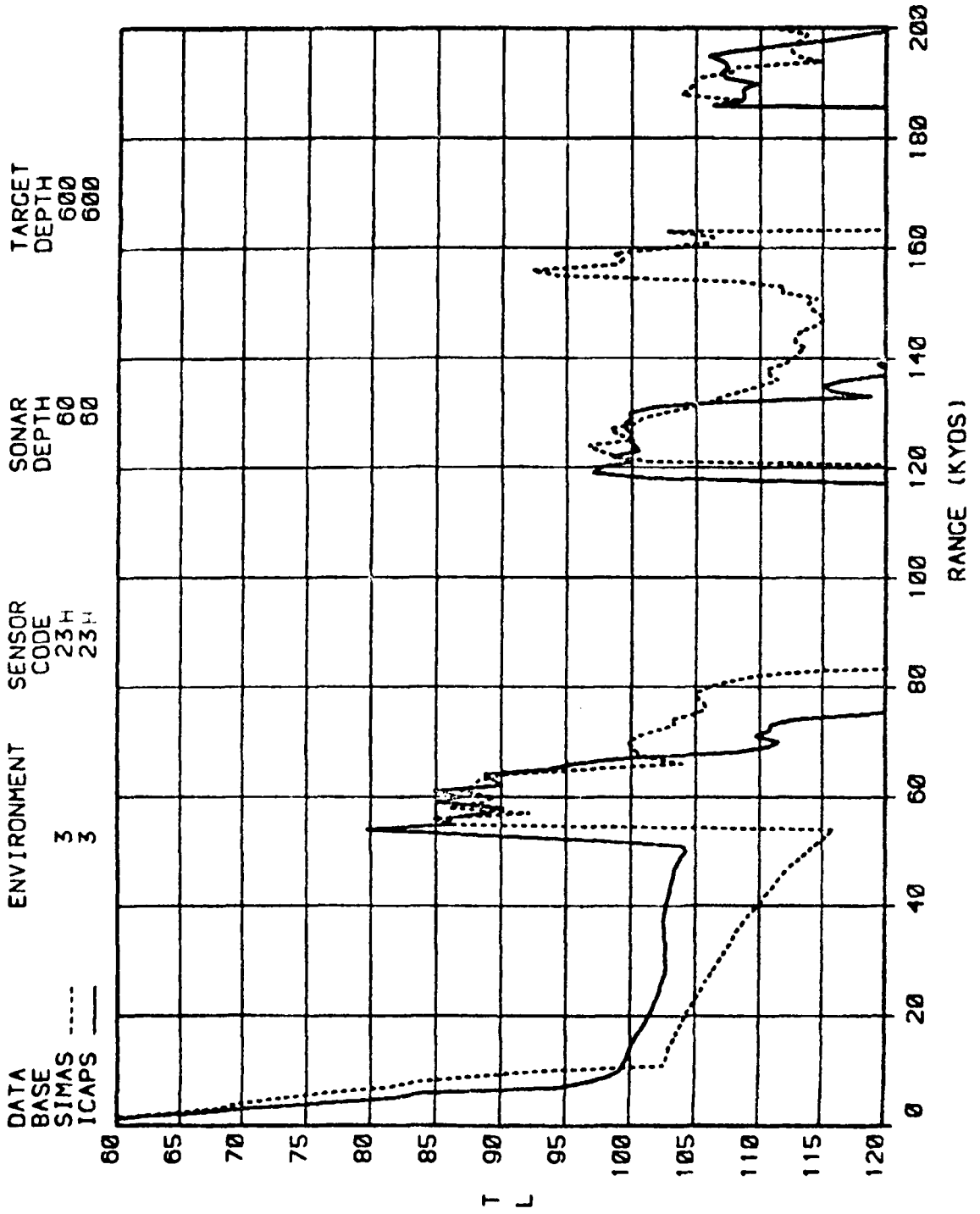

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 23 60 60
ICAPS ____ 3 23 60 60
60
65
70
75
80
85
90
95
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120
T L
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80
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120
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180
200
RANGE (KYDS)

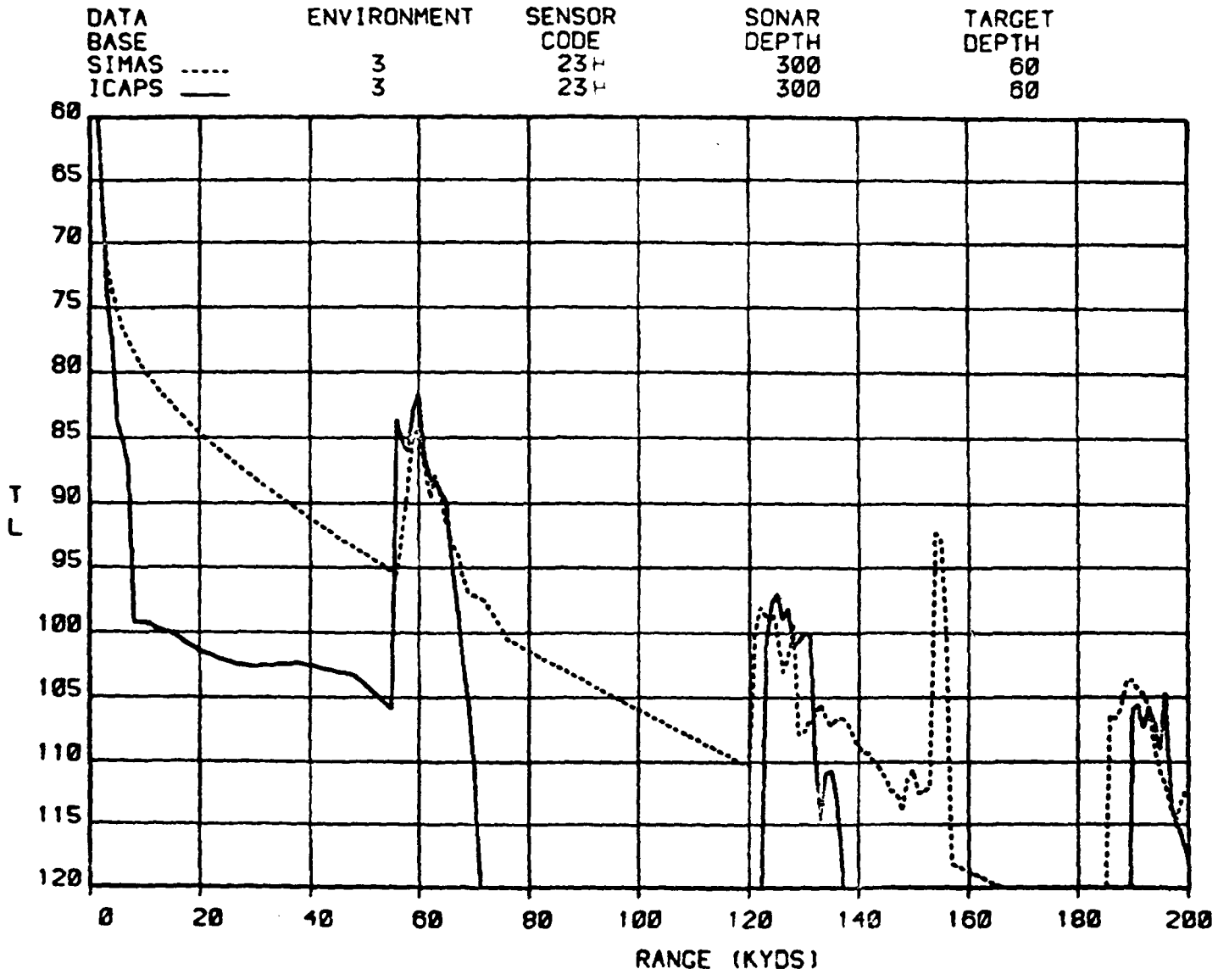

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 23L 60 600
ICAPS ____ 3 23L 60 600
60
65
70
75
80
85
90
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120
TL
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40
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120
140
160
180
200
RANGE (KYDS)

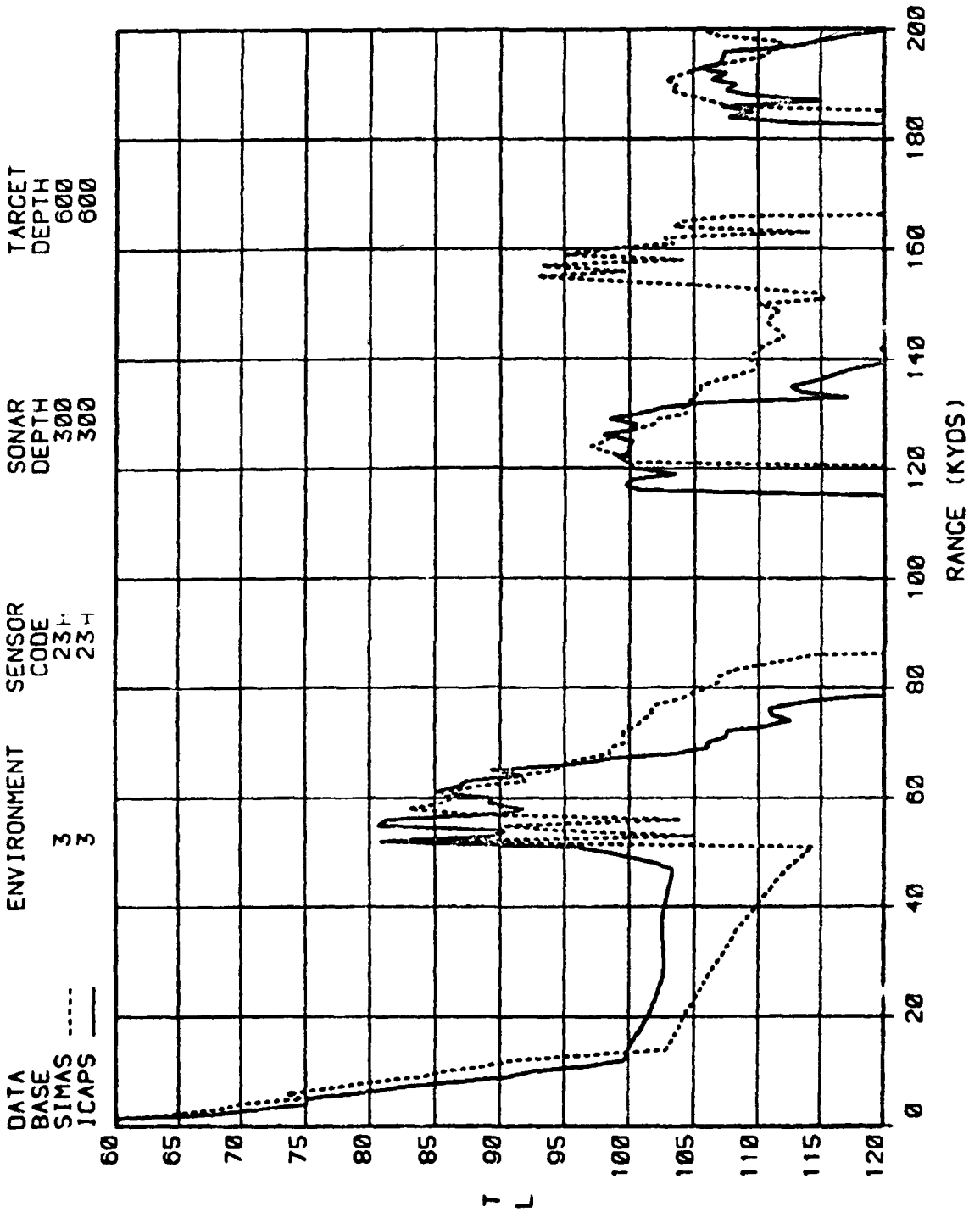

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
3
3
SENSOR CODE
23L
23.
SONAR DEPTH
300
300
TARGET DEPTH
60
60
T L
60 65 70 75 80 85 90 95 100 105 110 115 120
0 20 40 60 80 100 120 140 160 180 200
RANGE (KYDS)

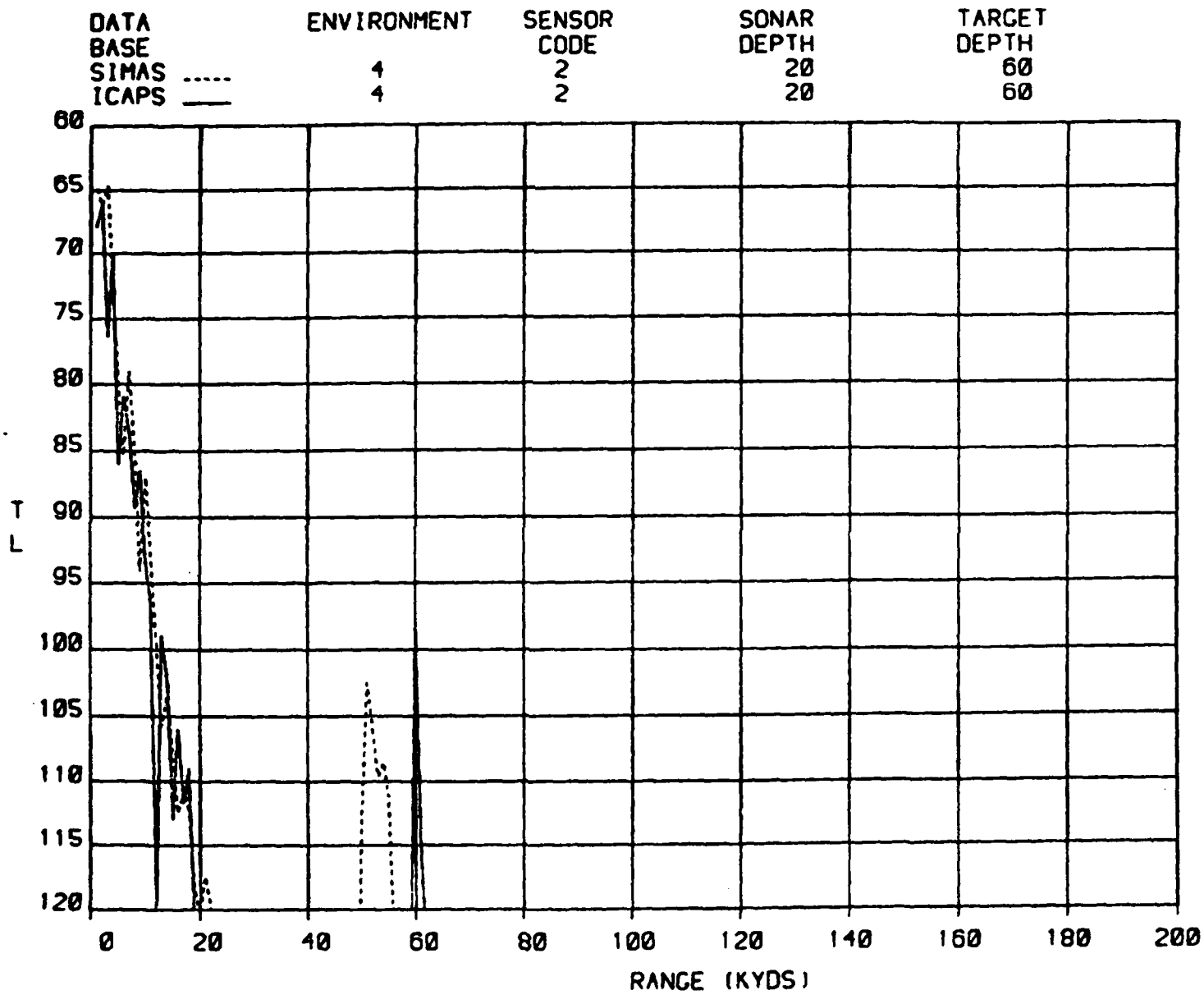

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
3
3
SENSOR CODE
23
23
SONAR DEPTH
300
300
TARGET DEPTH
600
600
T L
60
65
70
75
80
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200
RANGE (KYDS)

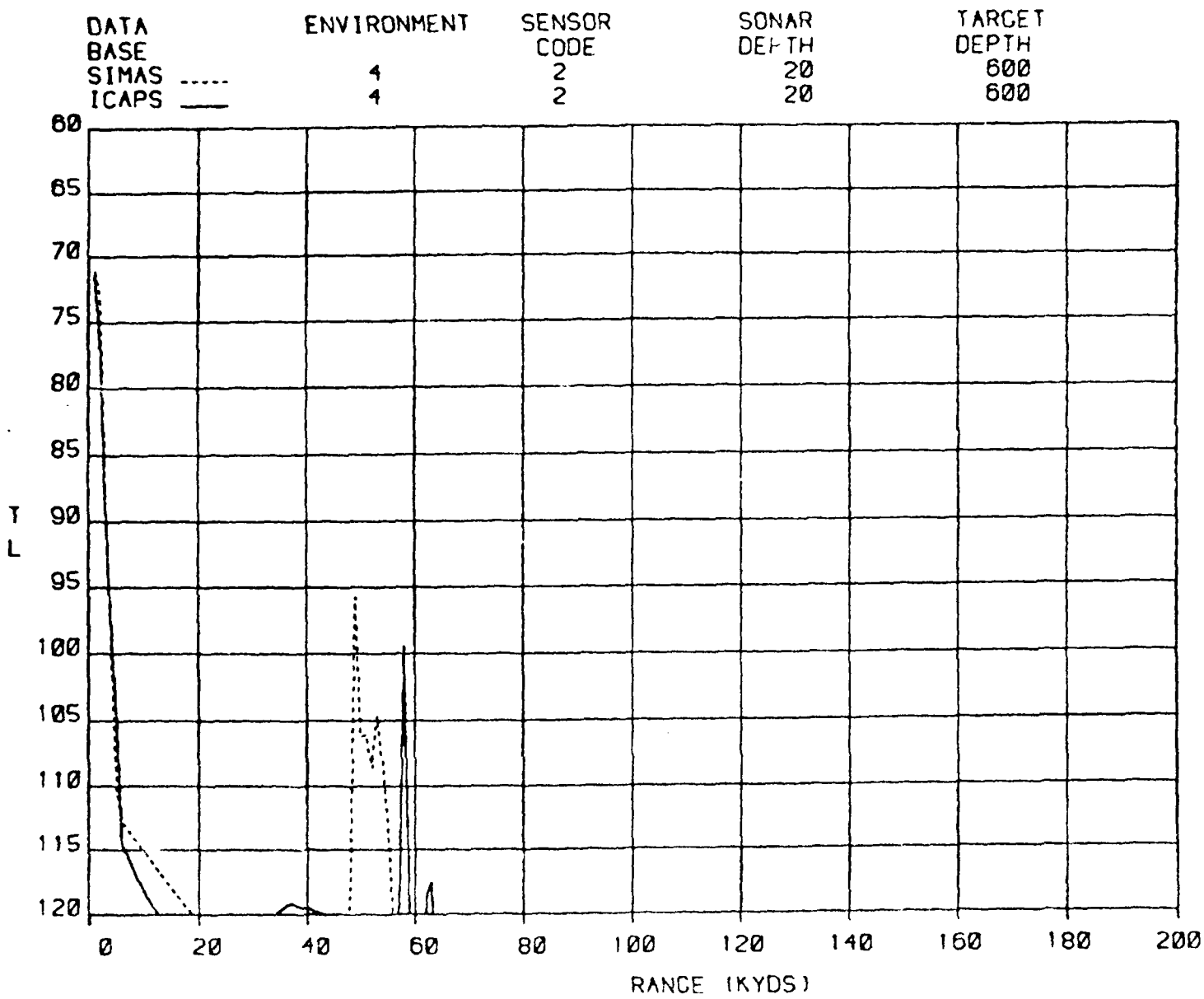

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
3
3
SENSOR CODE
23 I I
23 I I
SONAR DEPTH
60
60
TARGET DEPTH
60
60
T L
80
65
70
75
80
85
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200
RANGE (KYDS)

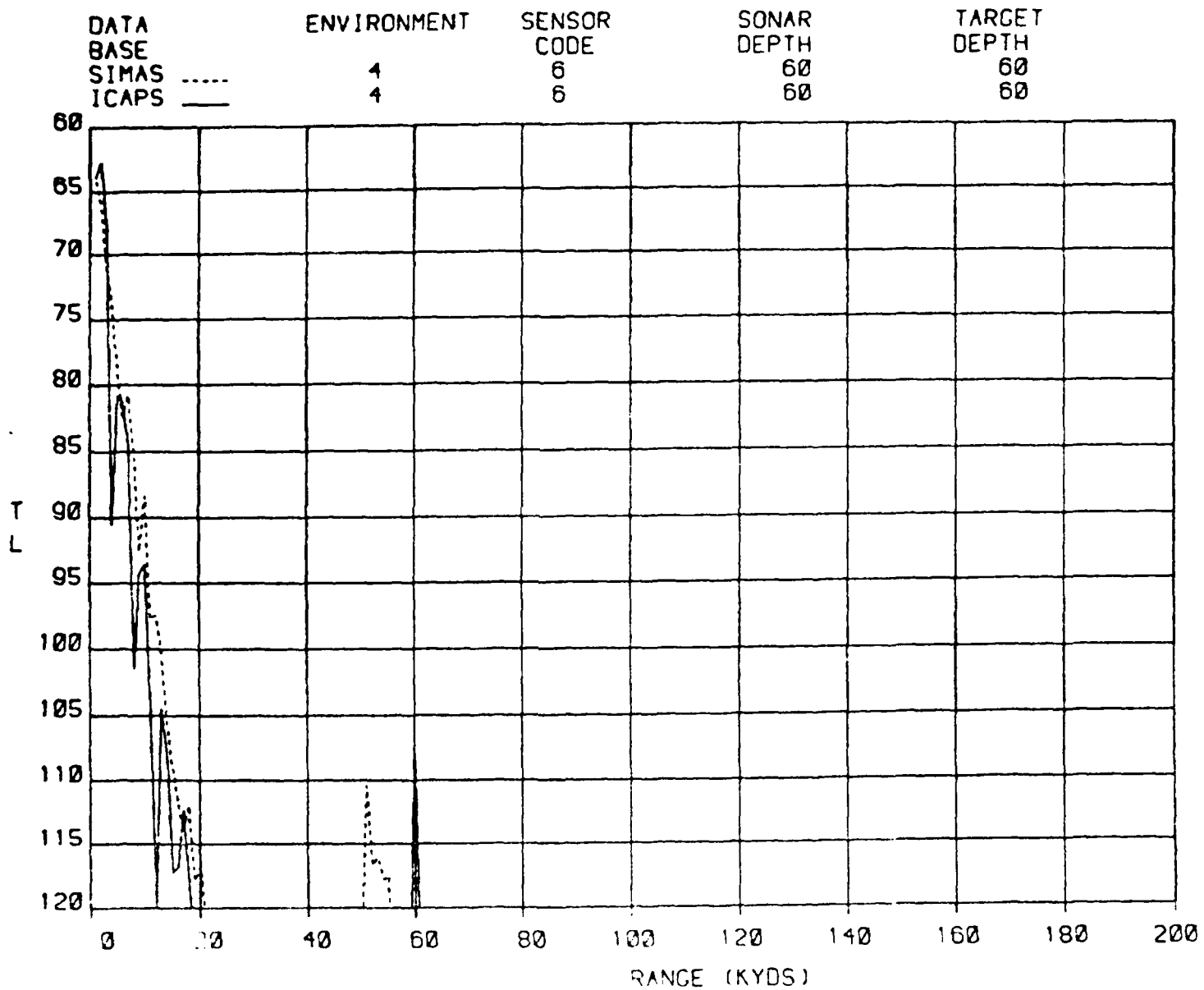

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
3
3
SENSOR CODE
23H
23H
SONAR DEPTH
60
60
TARGET DEPTH
600
600
T L
60
65
70
75
80
85
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140
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200
RANGE (KYDS)

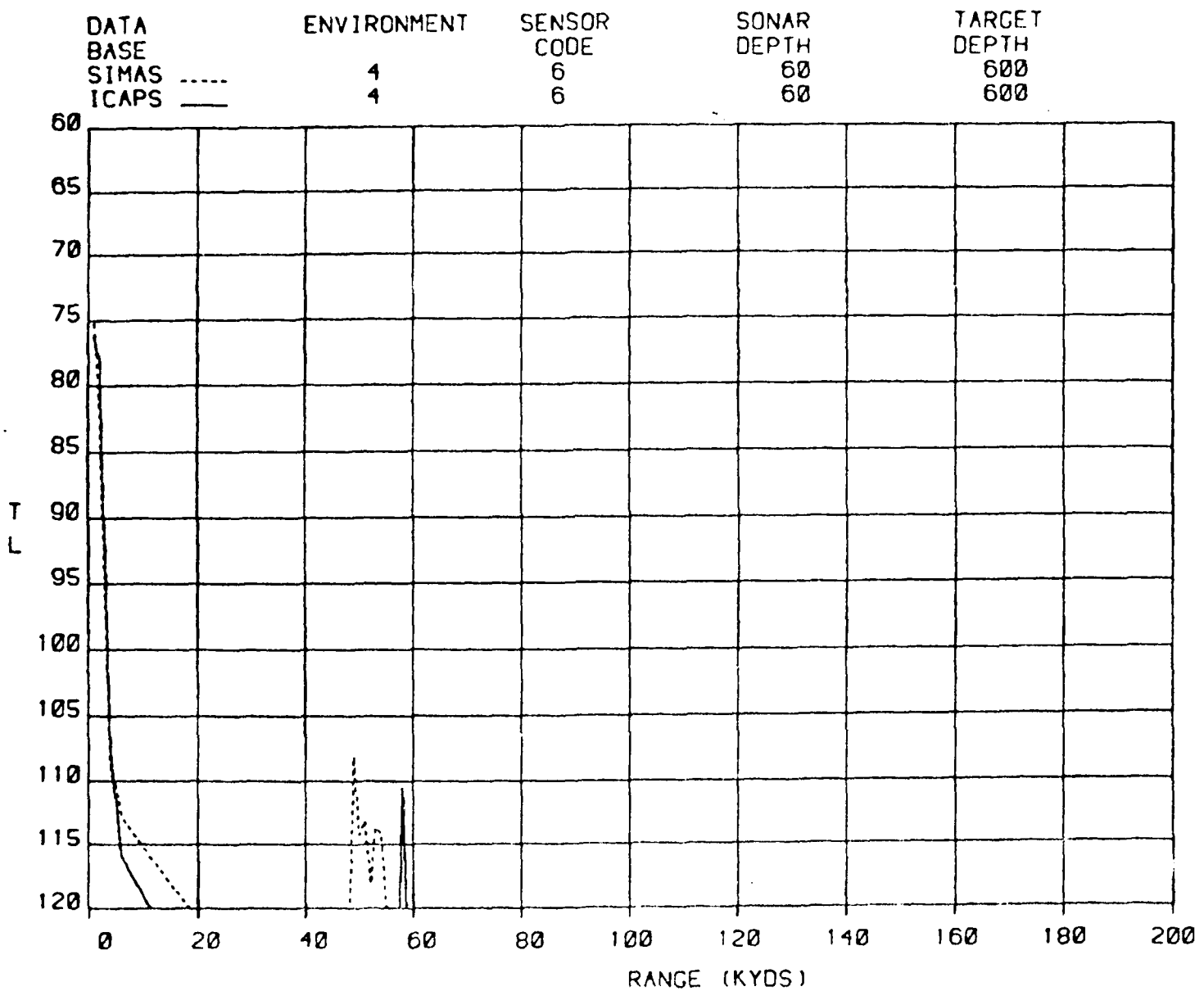

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 23H 300 60
ICAPS ____ 3 23H 300 60
60
65
70
75
80
85
90
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120
T L
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20
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120
140
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180
200
RANGE (KYDS)

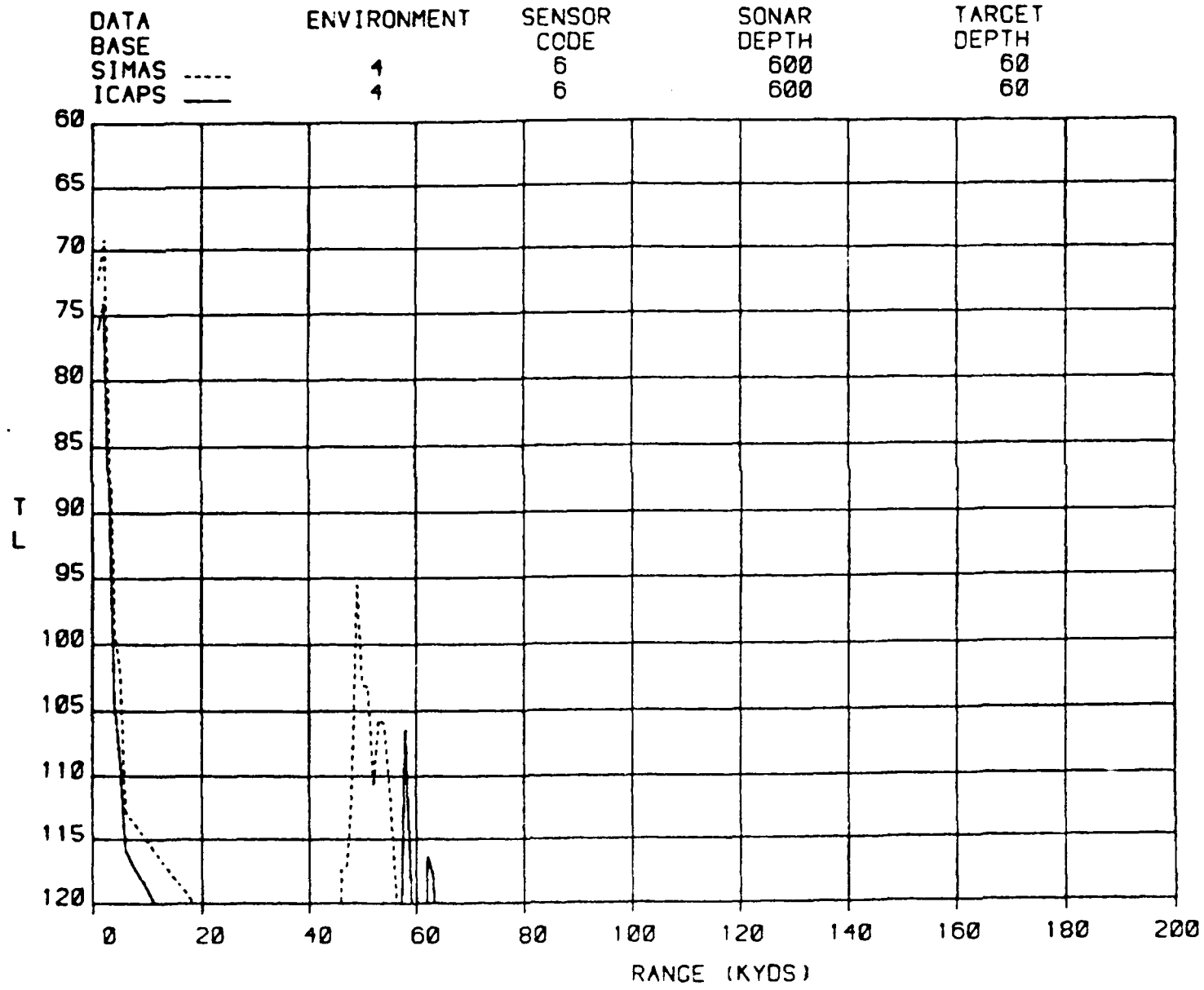

DATA BASE
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ICAPS ——
ENVIRONMENT
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SENSOR CODE
23H
23H
SONAR DEPTH
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TARGET DEPTH
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RANGE (KYDS)

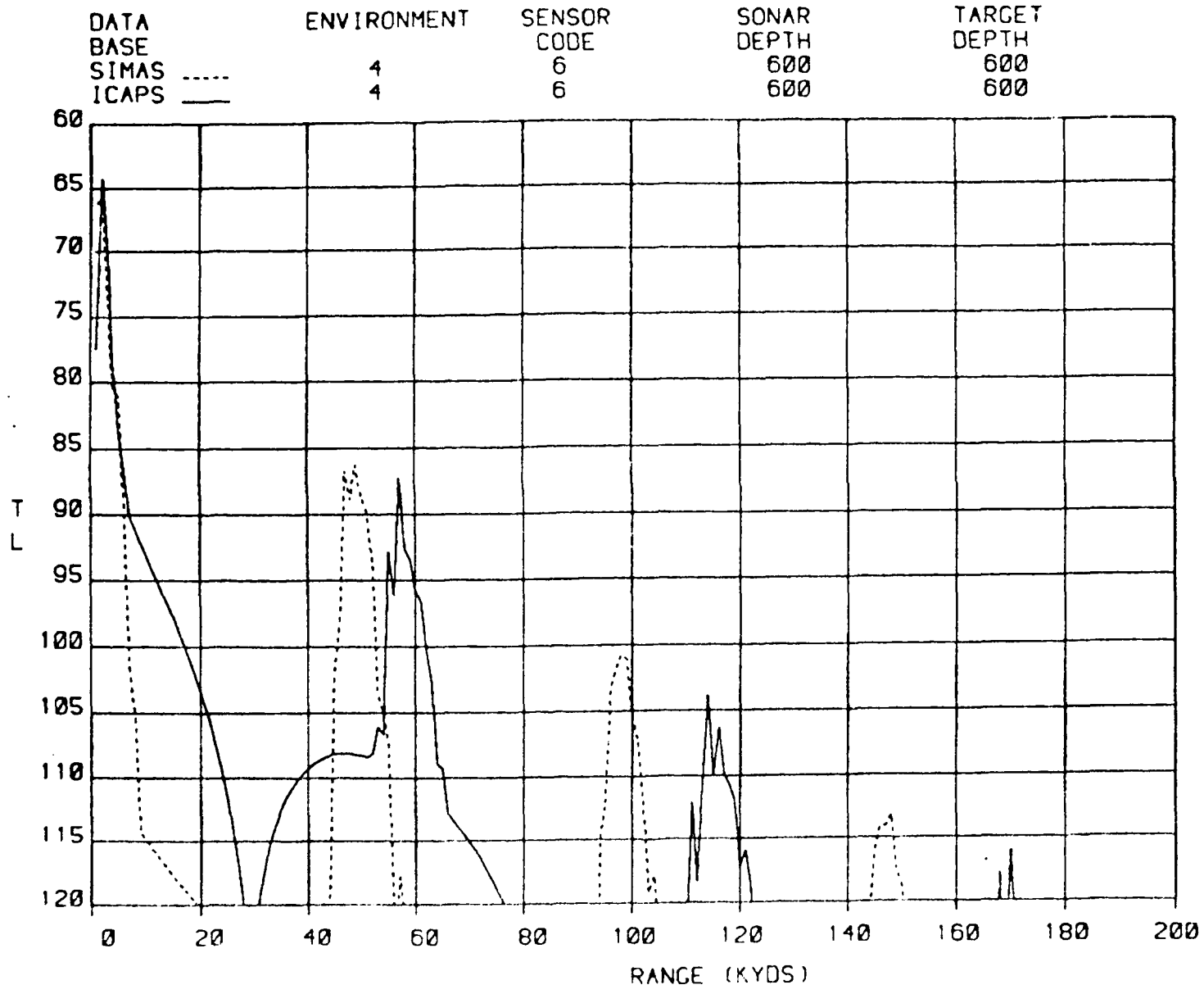

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 2 20 60
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RANGE (KYDS)

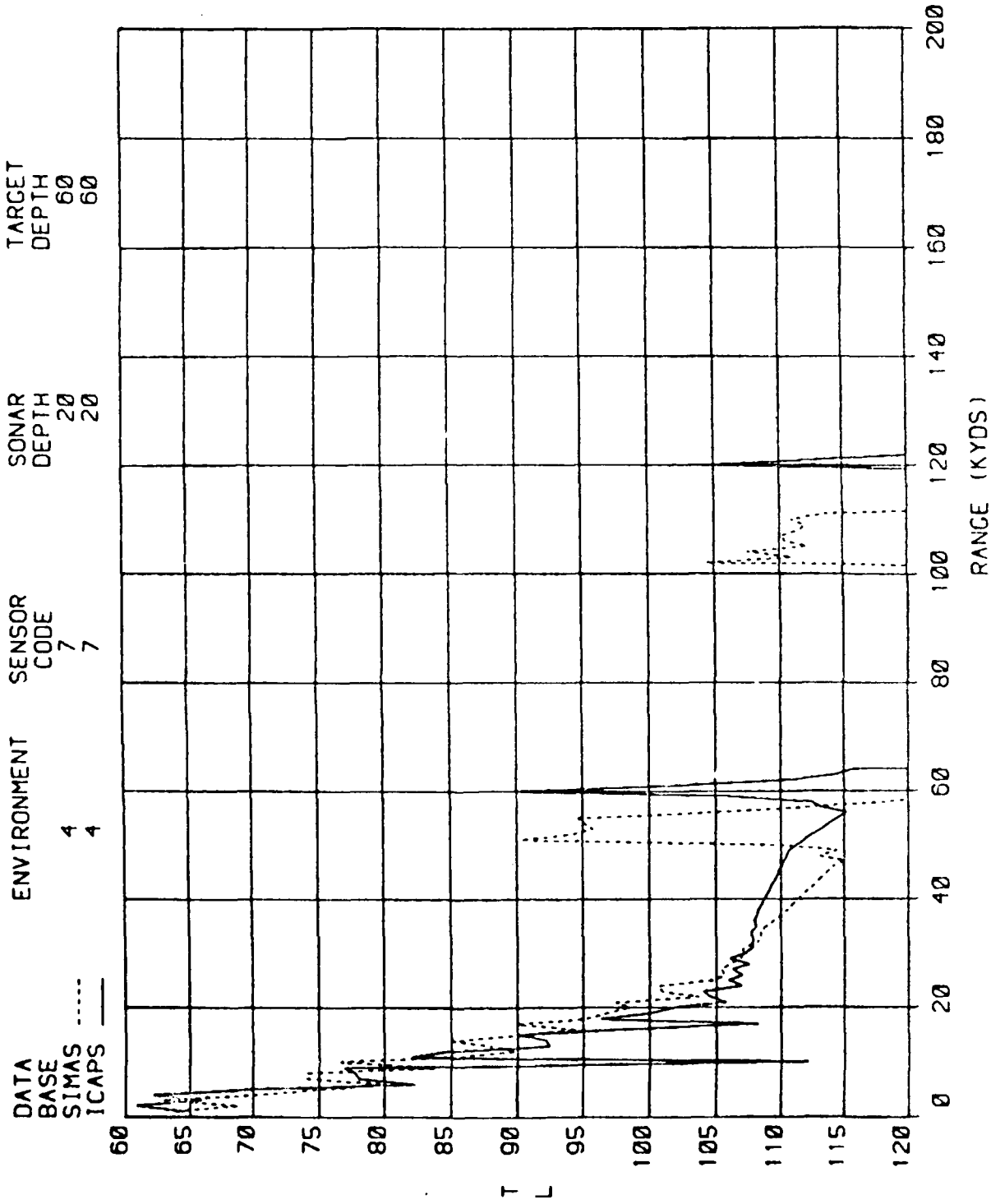

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
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RANGE (KYDS)


DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 6 60 60
ICAPS ____ 4 6 60 60
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RANGE (KYDS)

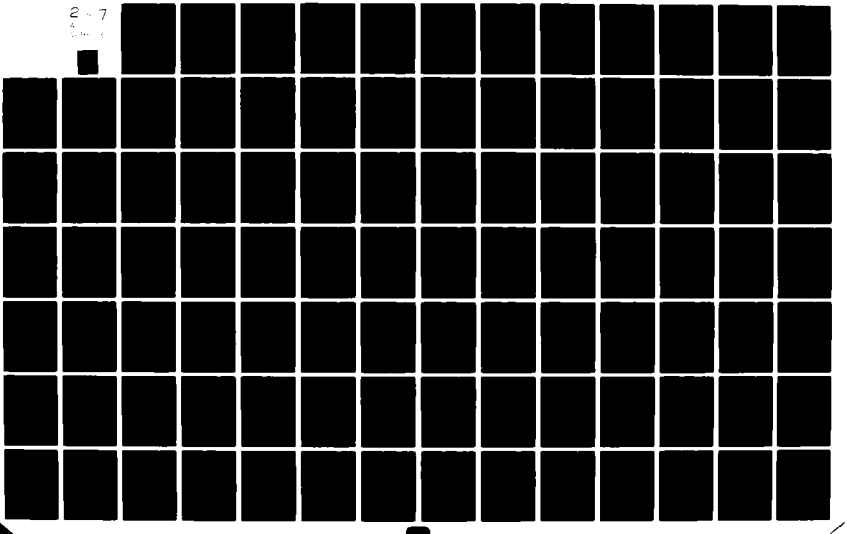

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
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RANGE (KYDS)

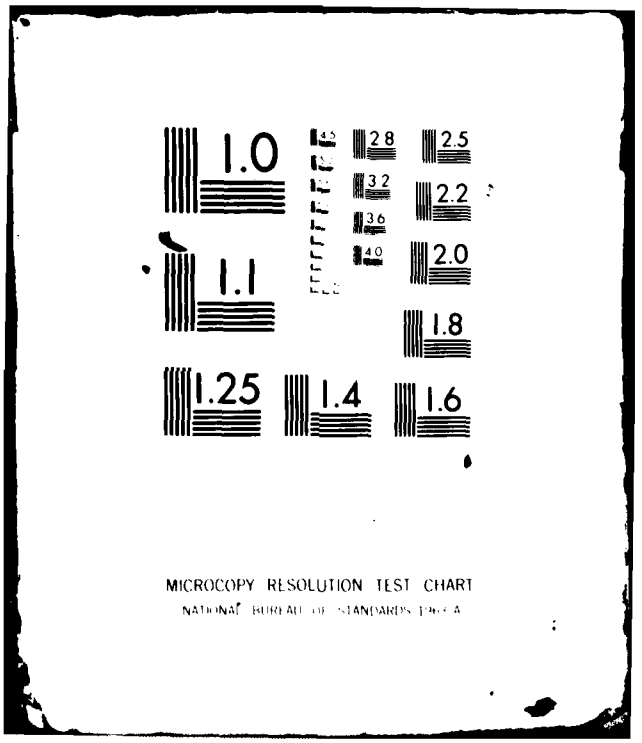

DATA BASE
ENVIRONMENT
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TARGET DEPTH
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RANGE (KYDS)

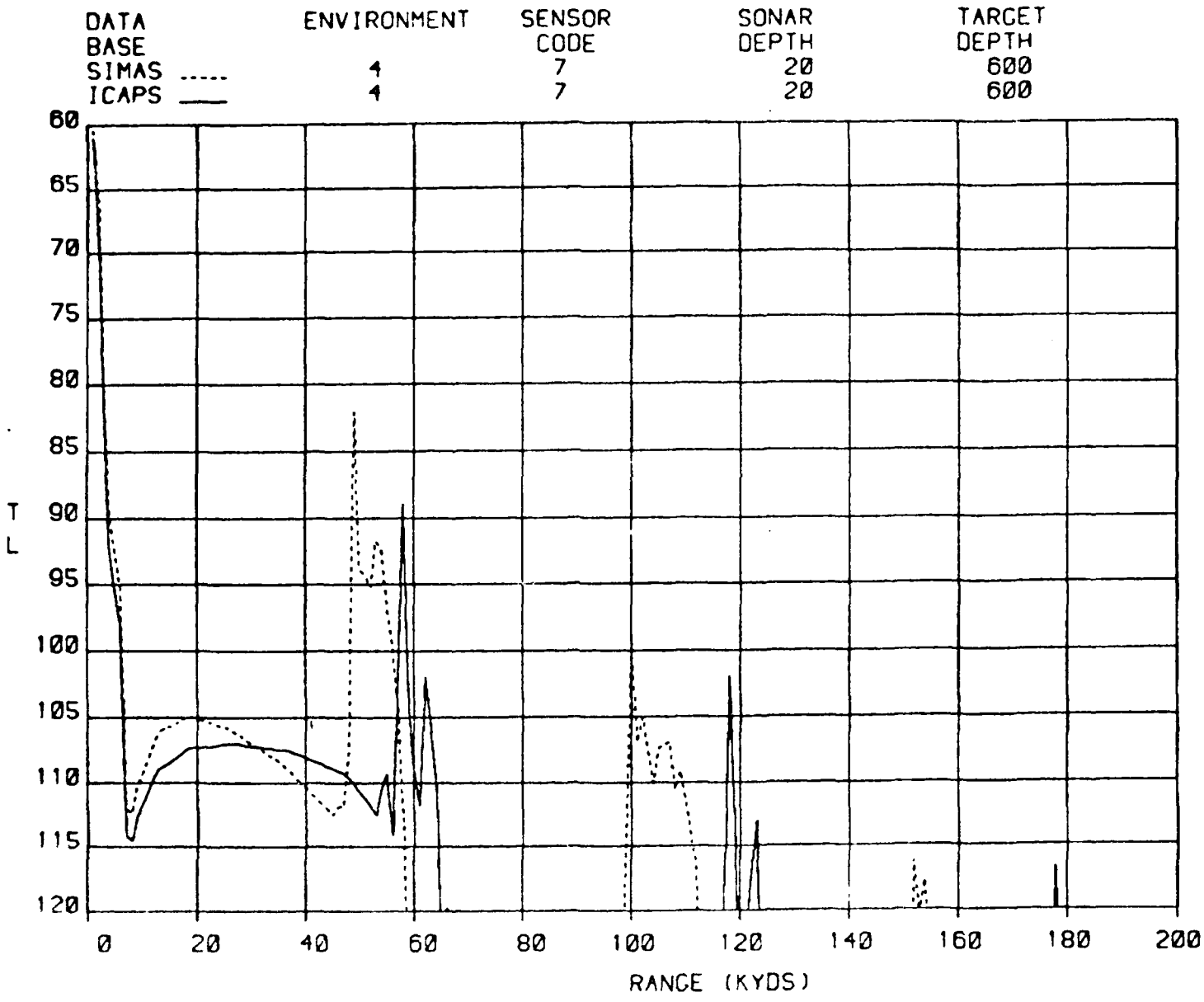

DATA BASE
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TARGET DEPTH
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RANGE (KYDS)

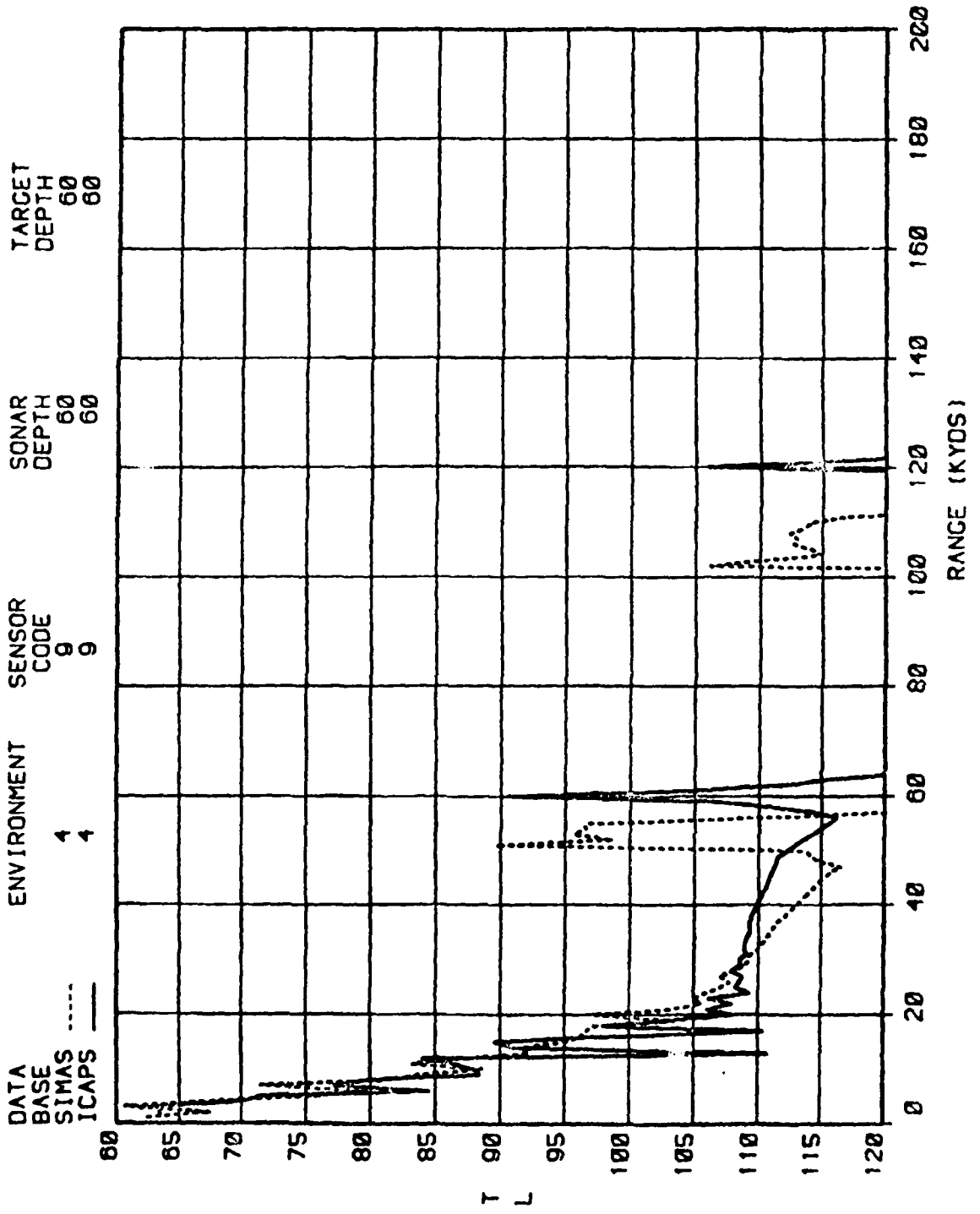

DATA BASE
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ICAPS ——
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TARGET DEPTH
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RANGE (KYDS)

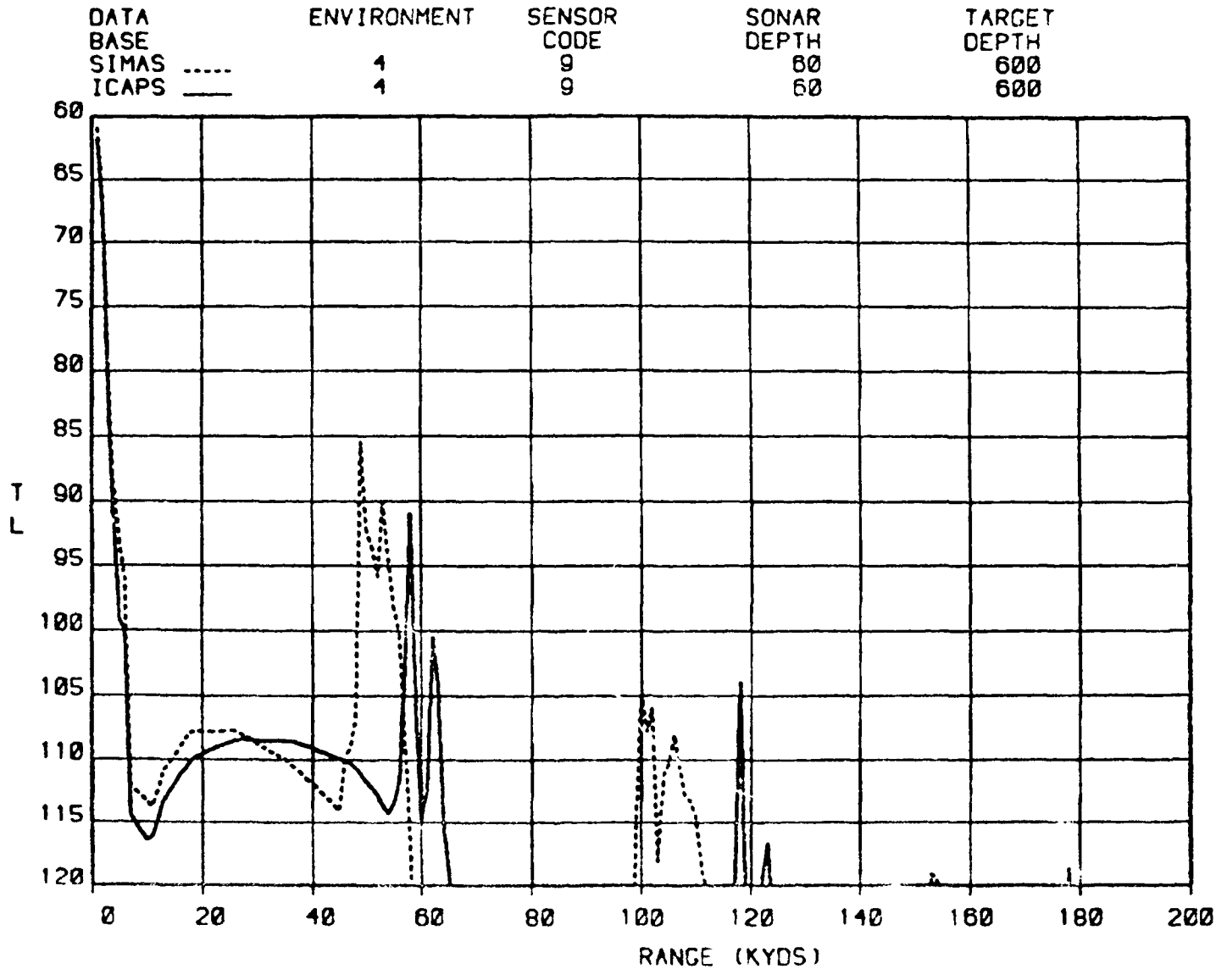
AD-A098 932 NAVAL OCEAN RESEARCH AND DEVELOPMENT ACTIVITY NSTL S--ETC F/G 20/1
ACOUSTIC MODEL SENSITIVITY TO INPUT DATA DIFFERENCES: OBJECTIVE--ETC(U)
SEP 80 B A BRUNSON
UNCLASSIFIED NORDA-TN-73-VOL-2 NL

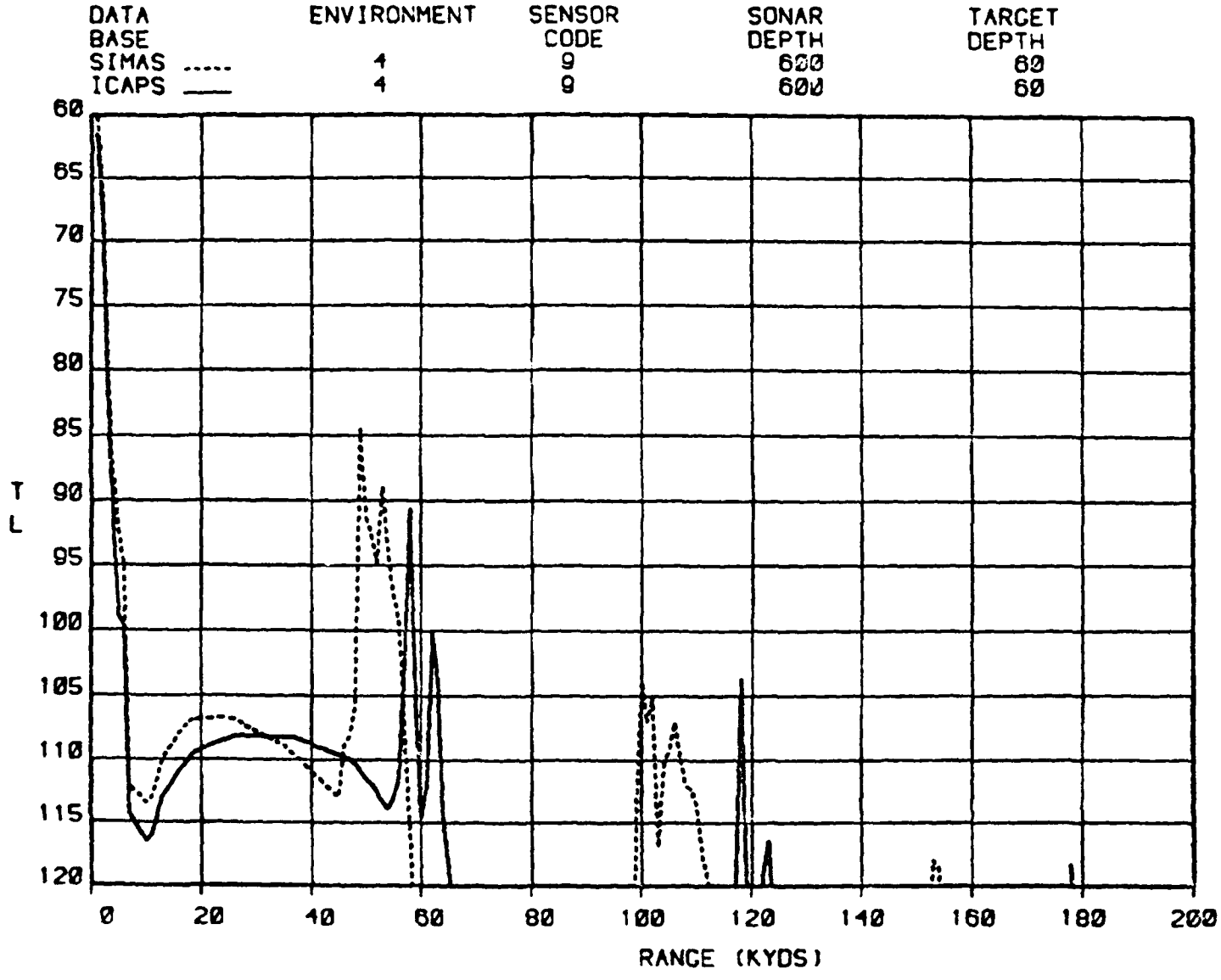


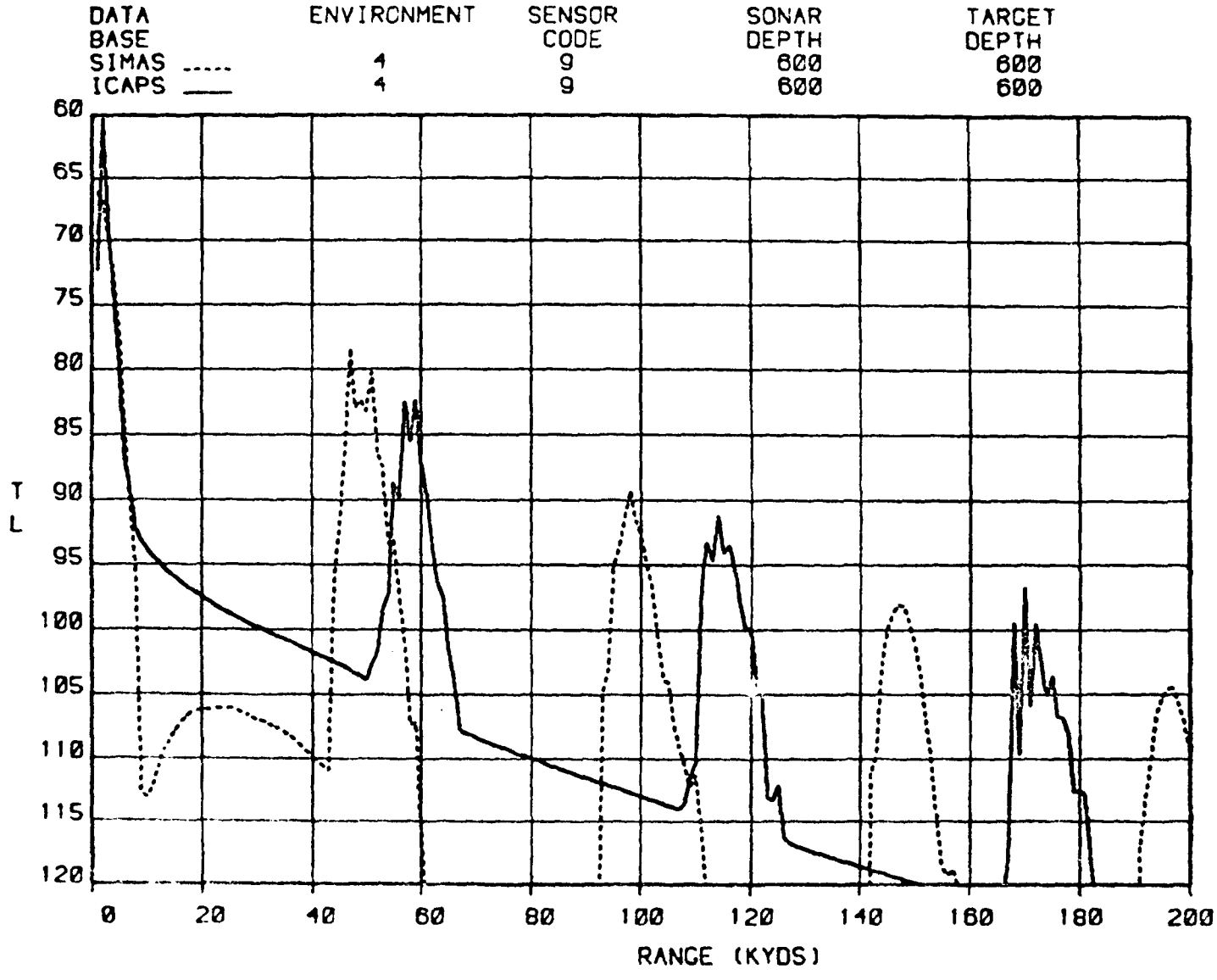

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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

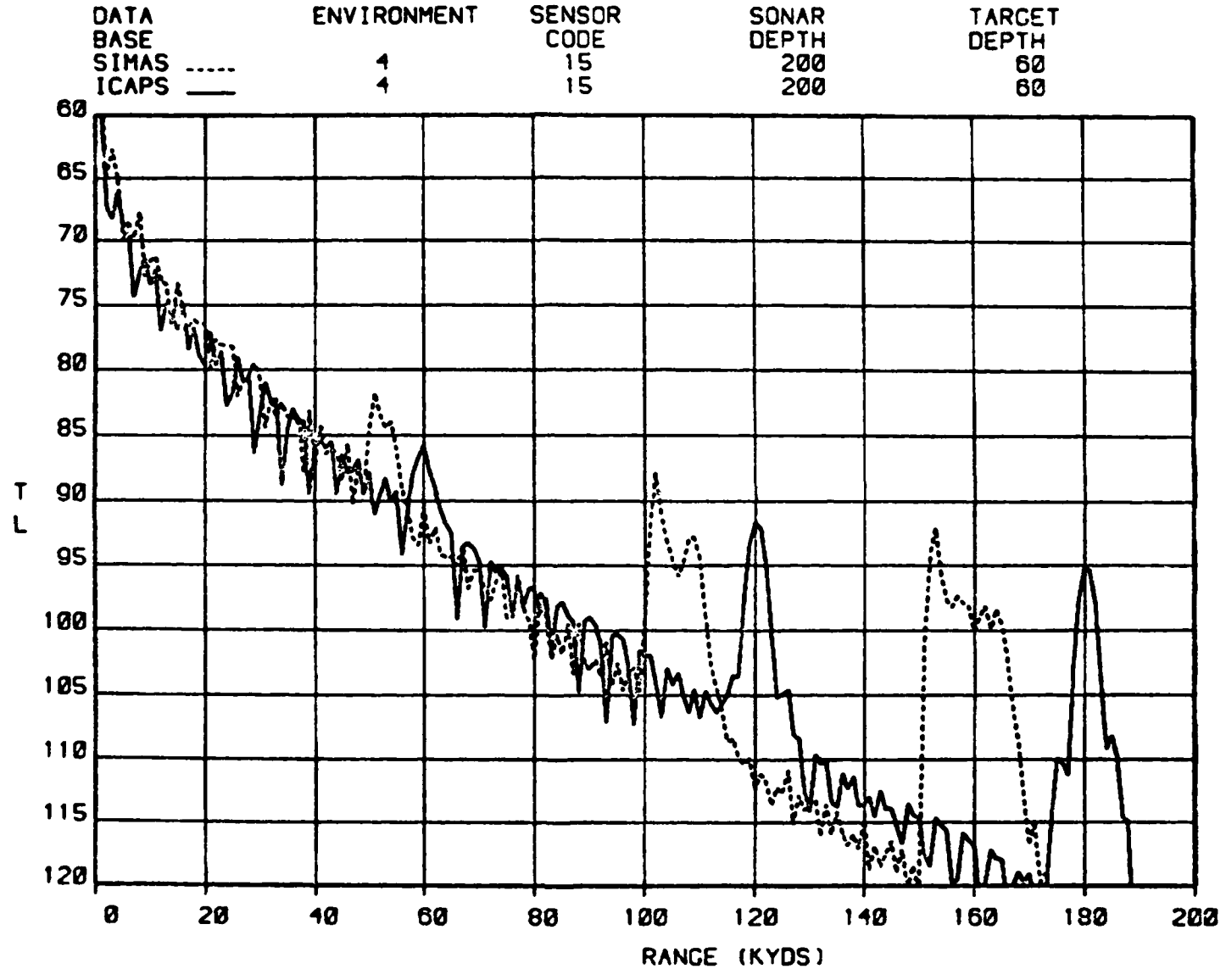

DATA BASE
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TARGET DEPTH
SIMAS ----- 4 7 20 600
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RANGE (KYDS)

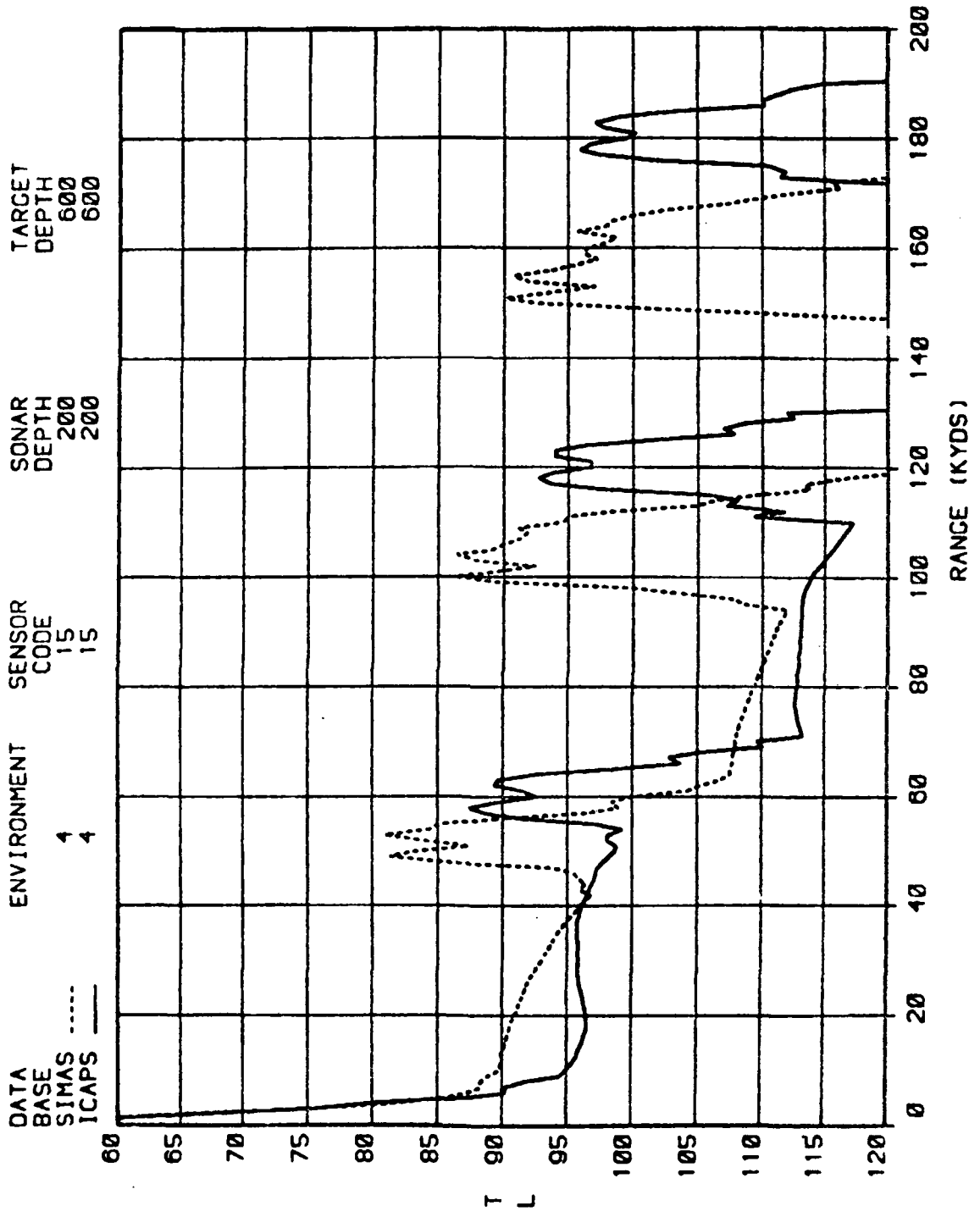

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RANGE (KYDS)

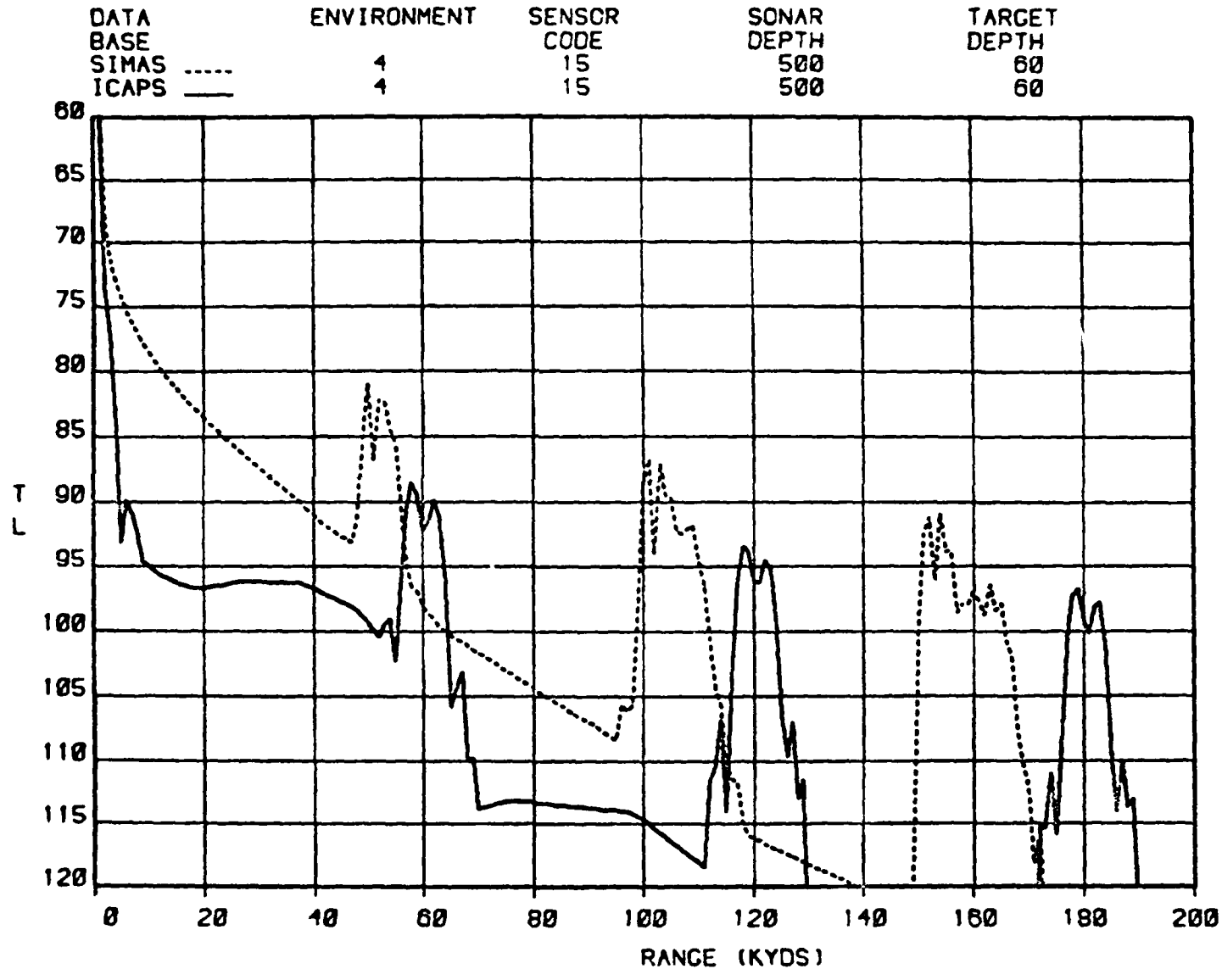

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 9 60 600
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RANGE (KYDS)

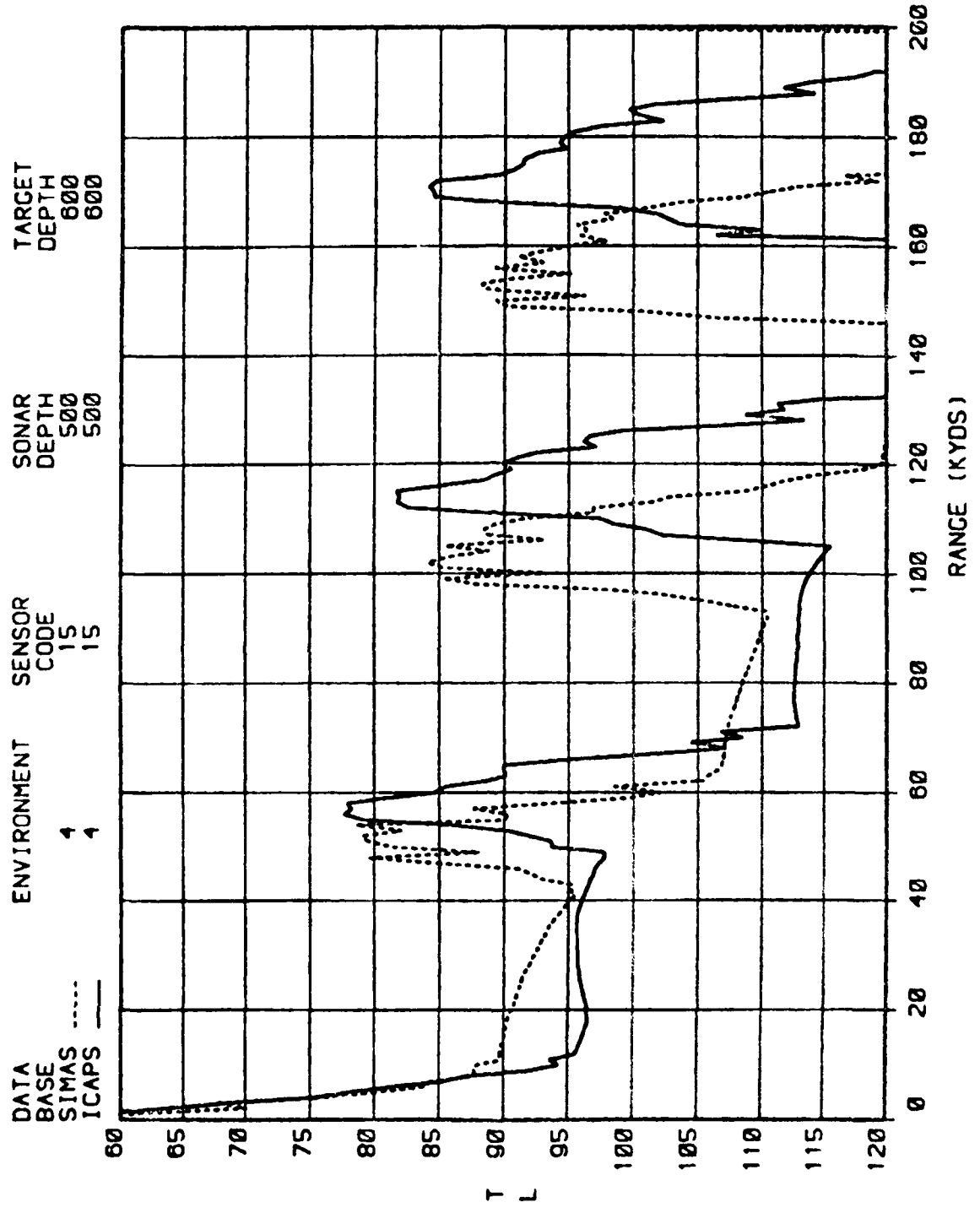

DATA BASE
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SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 9 600 60
ICAPS ____ 4 9 600 60
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RANGE (KYDS)

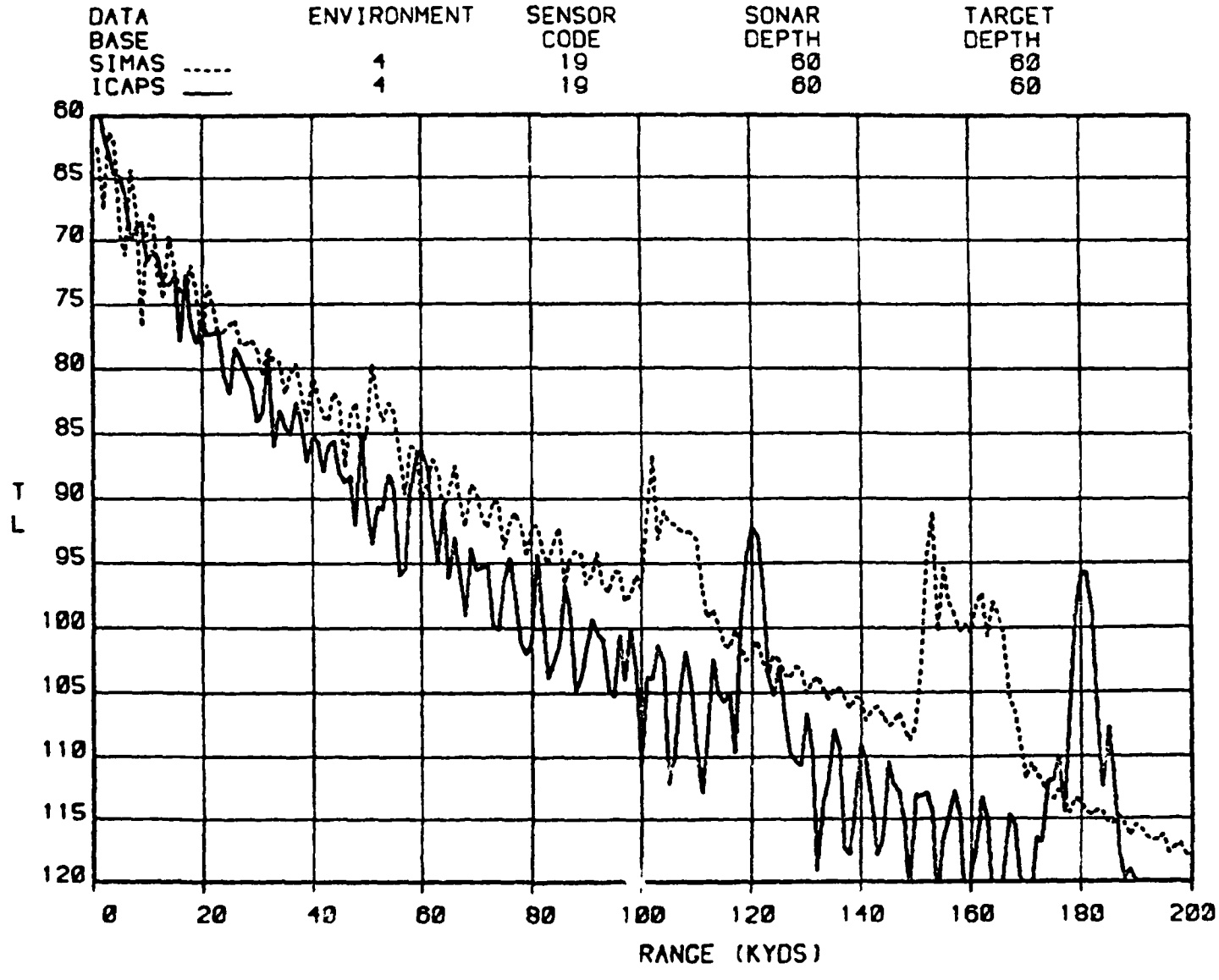

DATA BASE
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SENSOR CODE
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TARGET DEPTH
SIMAS ----- 4 9 600 600
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RANGE (KYDS)

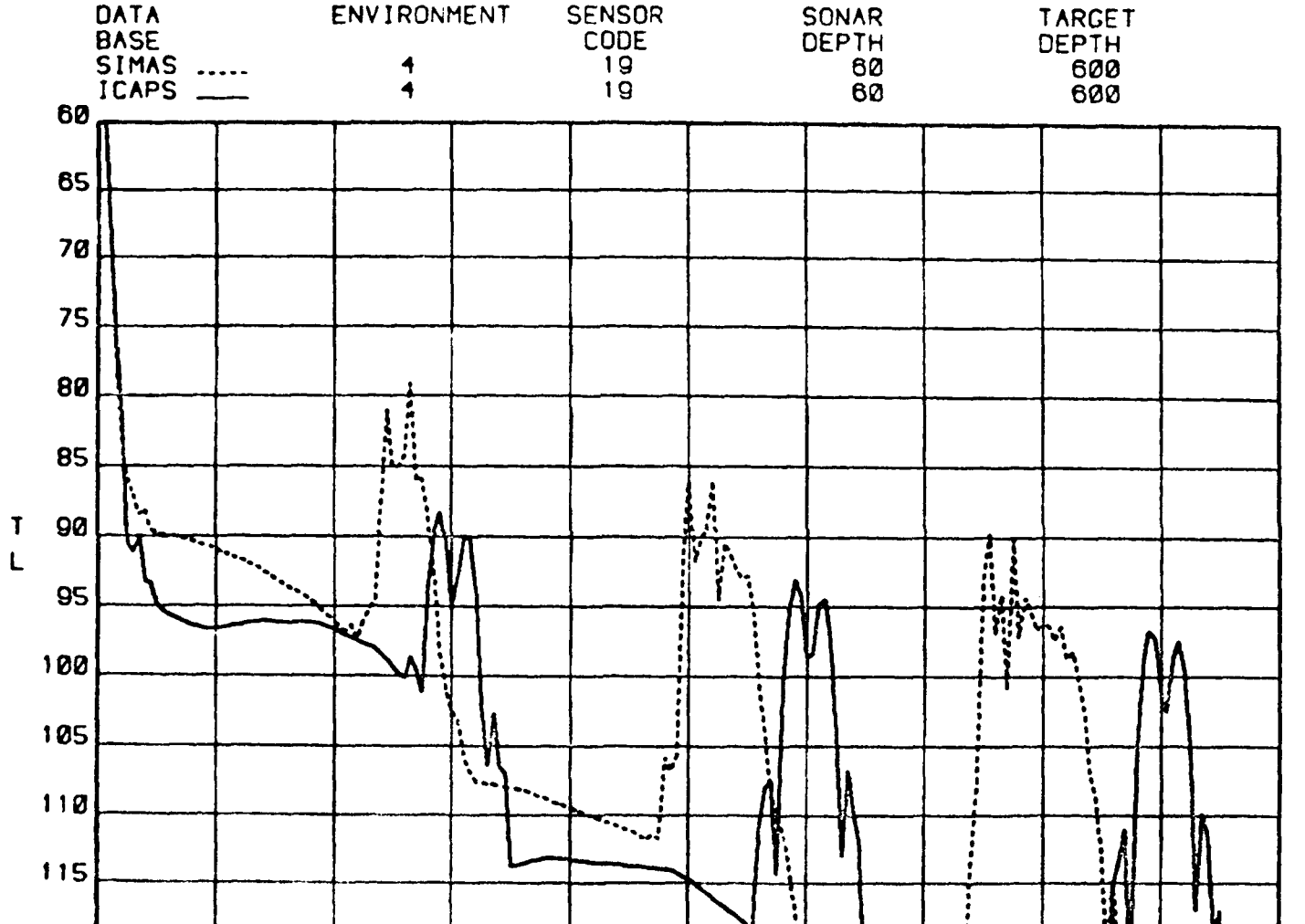

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
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ICAPS ____ 4 15 200 60
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RANGE (KYDS)

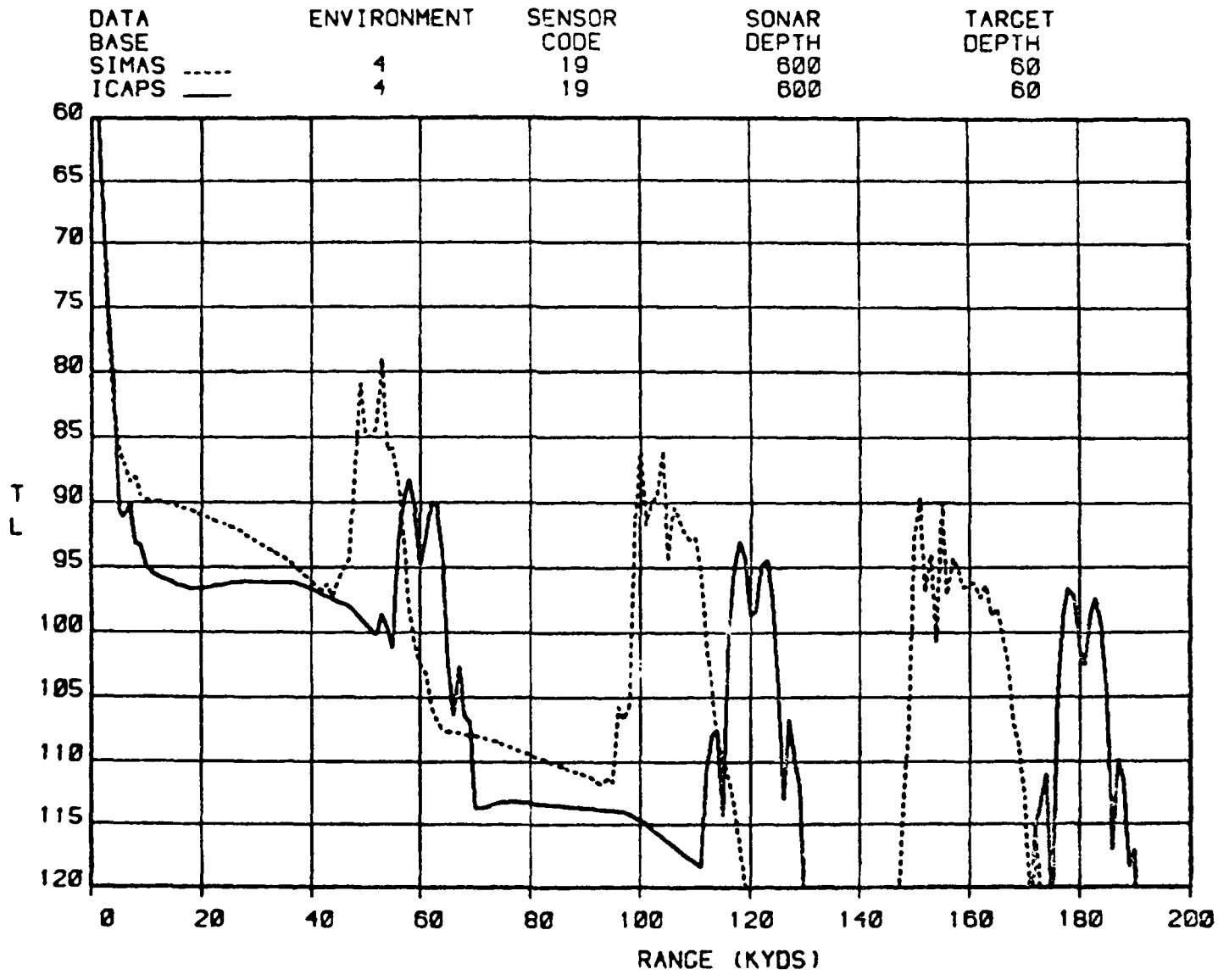

DATA BASE
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ENVIRONMENT
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SENSOR CODE
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SONAR DEPTH
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TARGET DEPTH
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RANGE (KYDS)

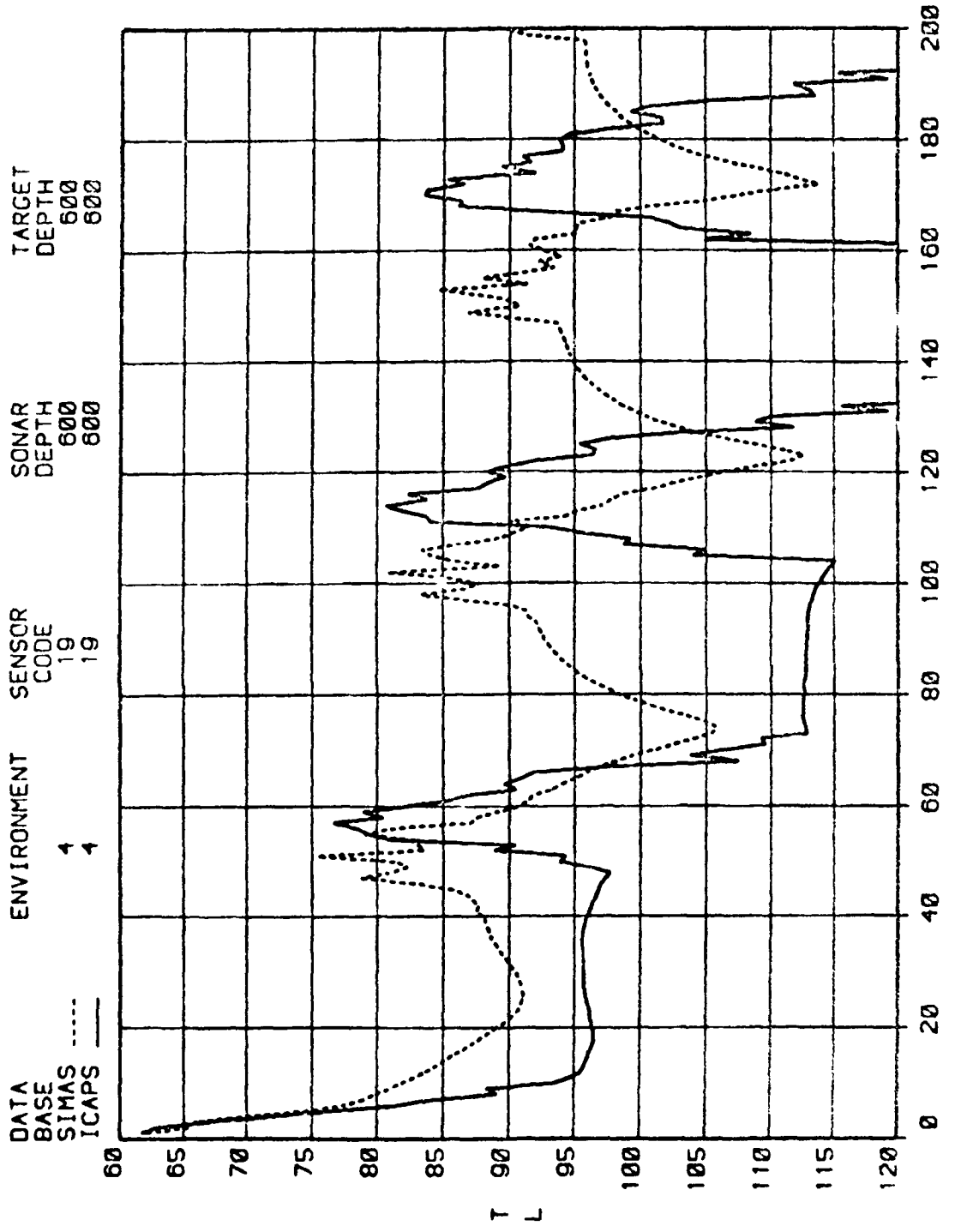

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
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RANGE (KYDS)

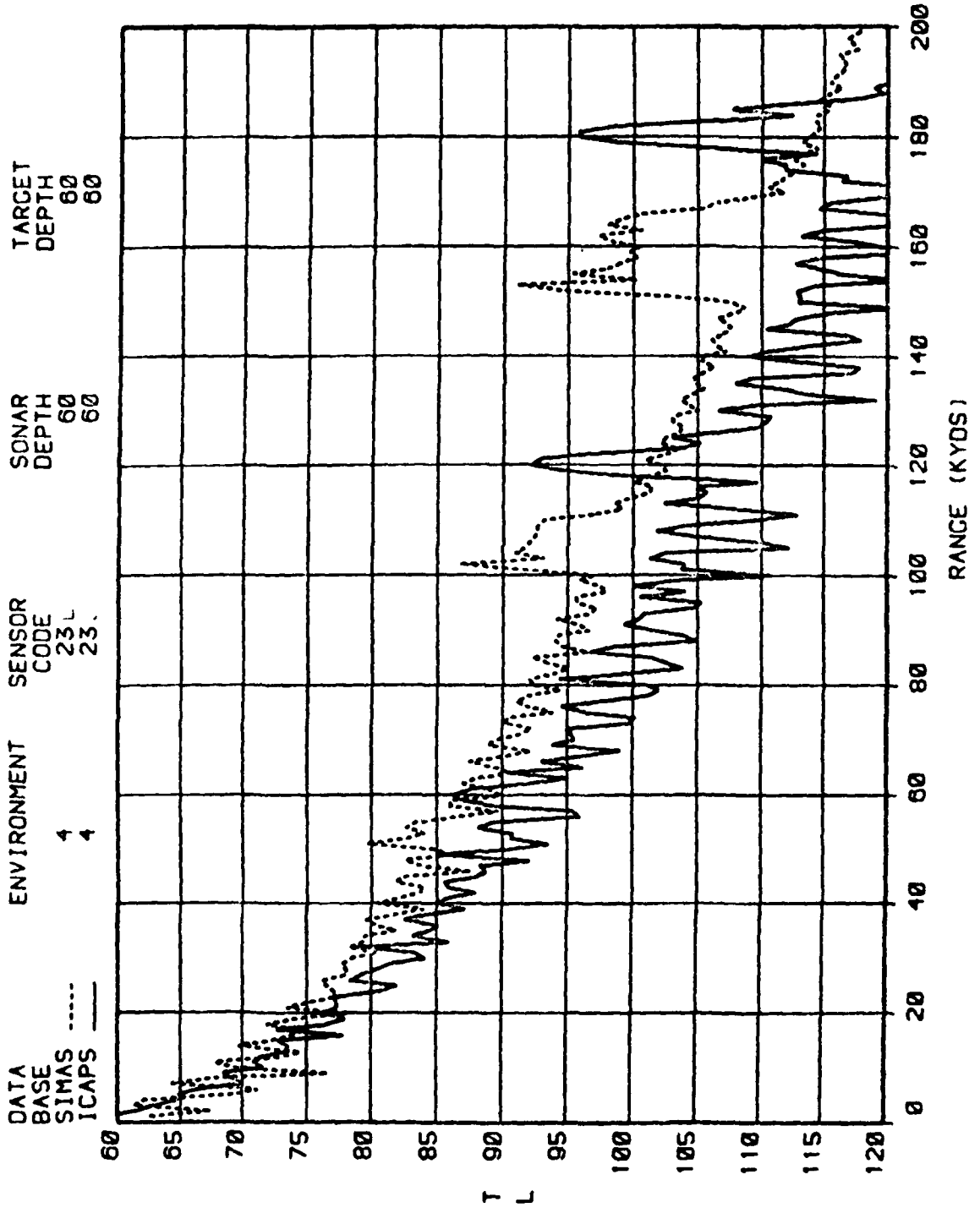

DATA BASE
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ENVIRONMENT
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SENSOR CODE
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TARGET DEPTH
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RANGE (KYDS)

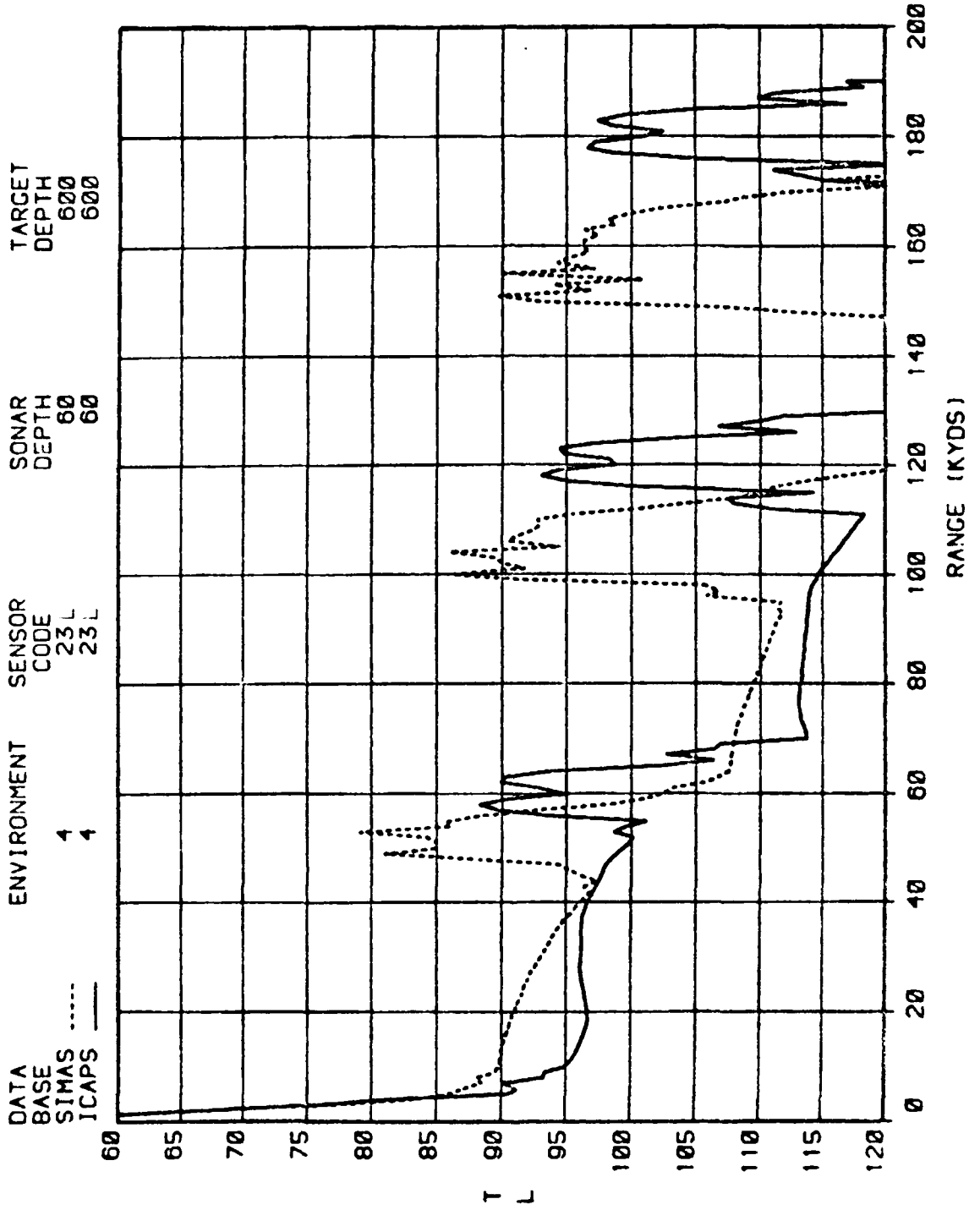

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
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ICAPS ——— 4 19 60 60
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RANGE (KYDS)

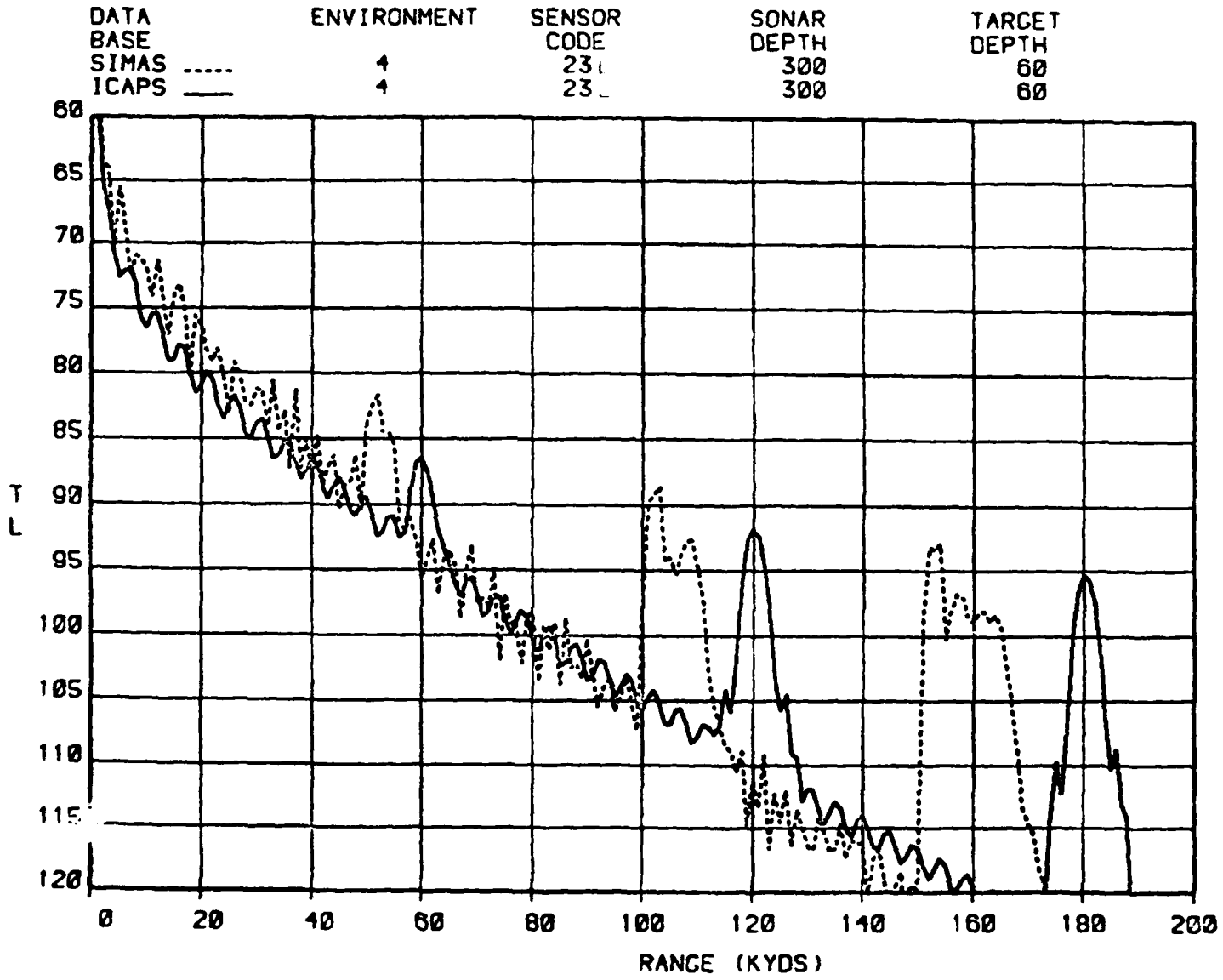

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
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RANGE (KYDS)

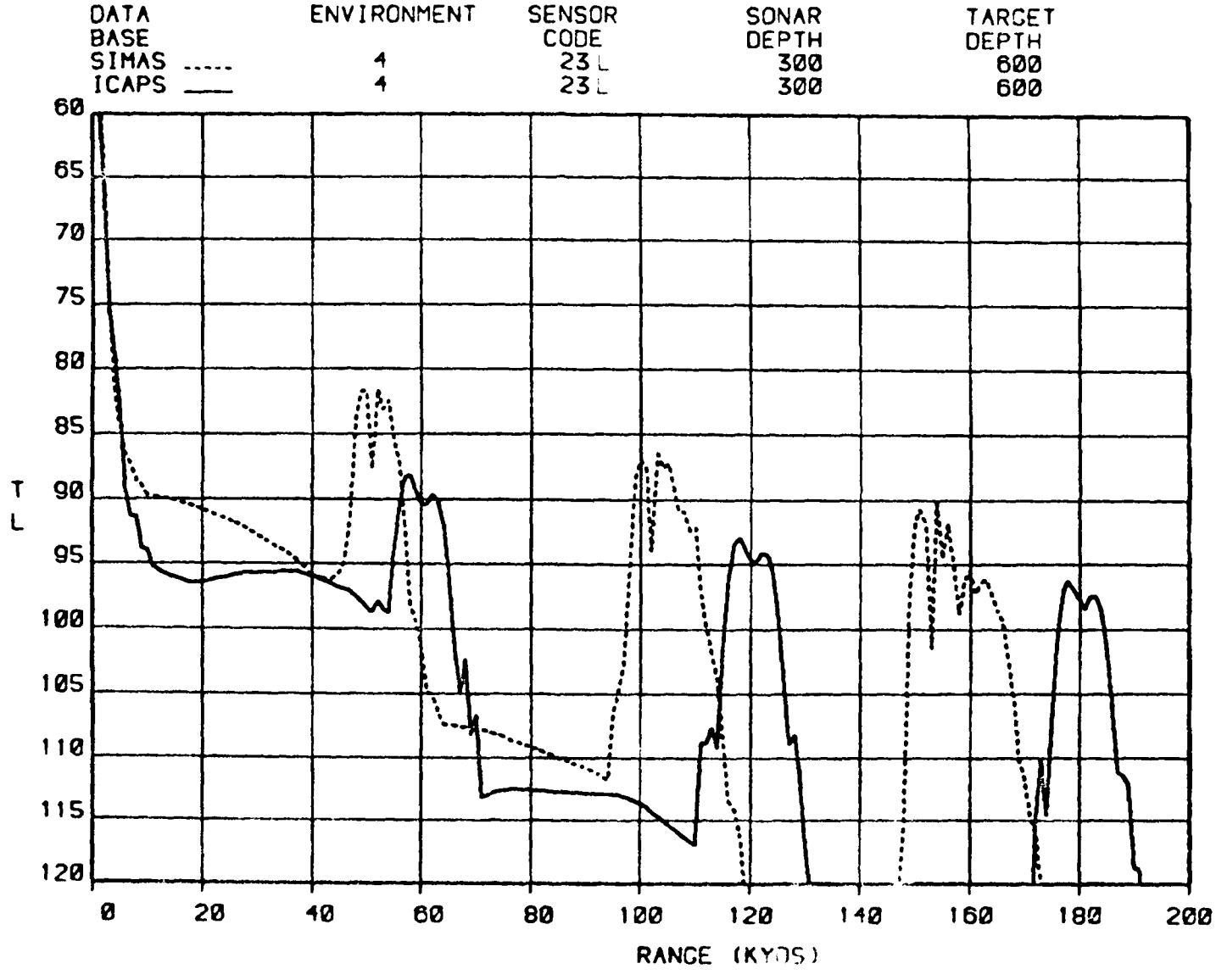

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 19 600 60
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RANGE (KYDS)

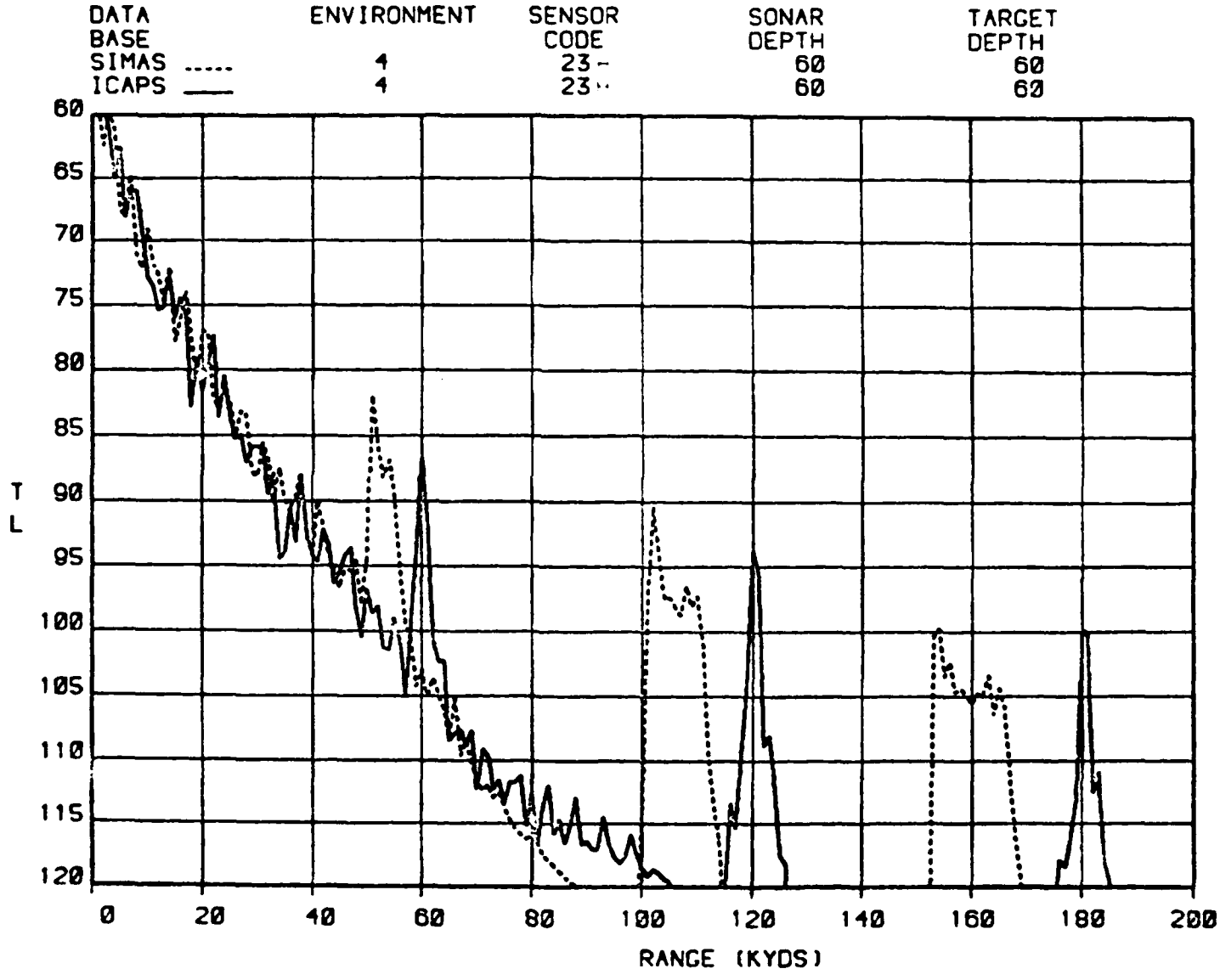

DATA BASE
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TARGET DEPTH
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RANGE (KYDS)

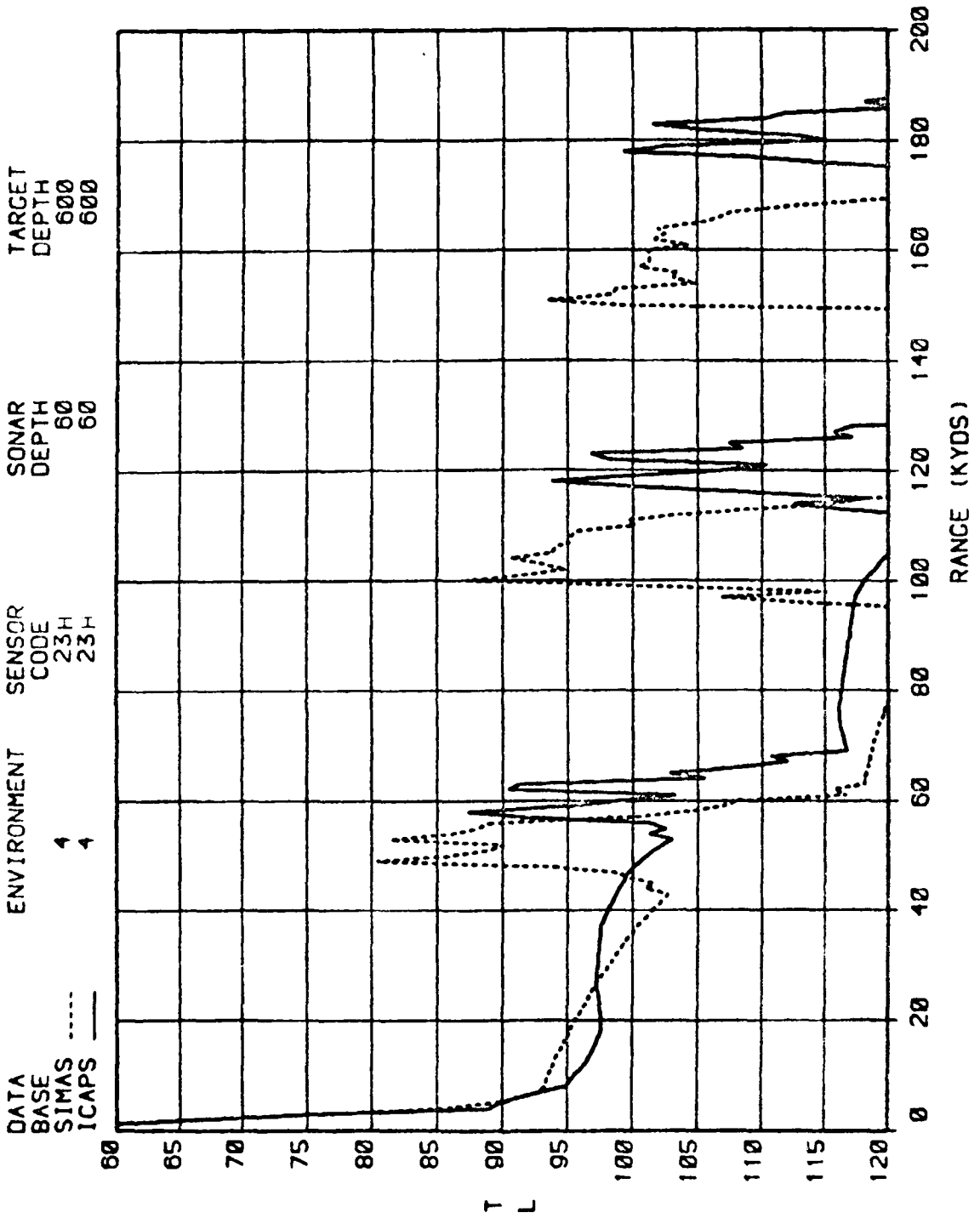

DATA BASE
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TARGET DEPTH
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RANGE (KYDS)

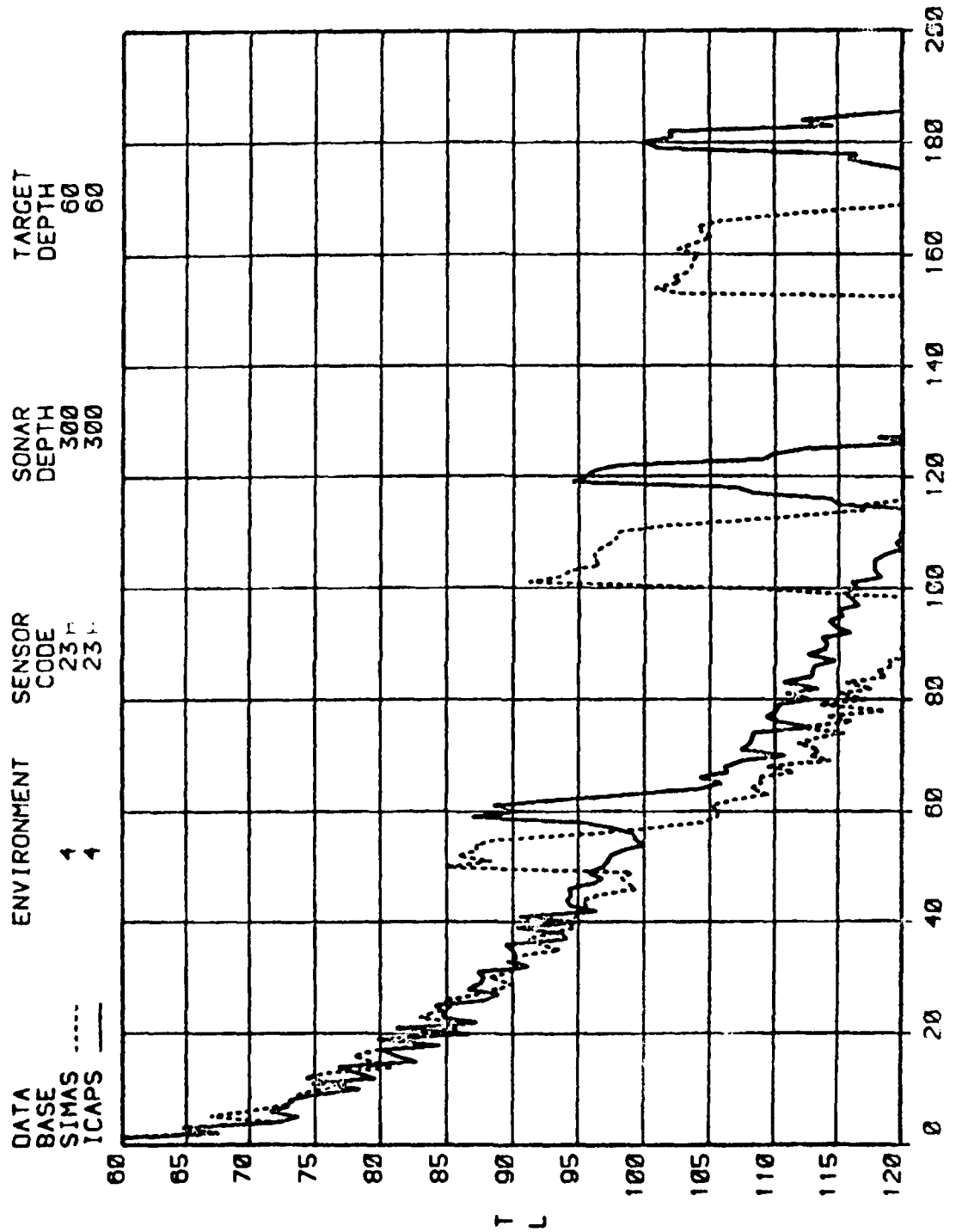

DATA BASE
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RANGE (KYDS)

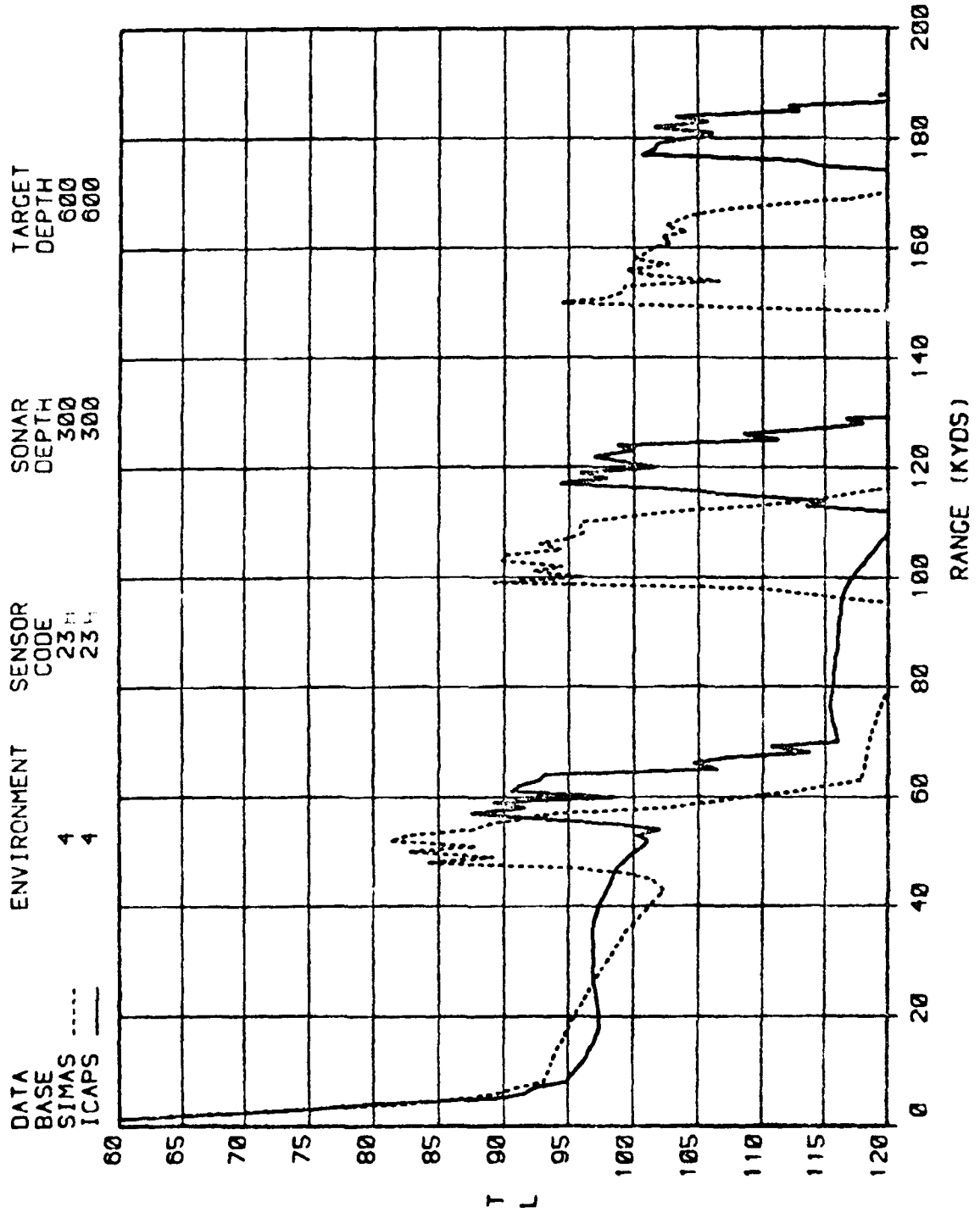

DATA BASE
ENVIRONMENT
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TARGET DEPTH
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RANGE (KYDS)

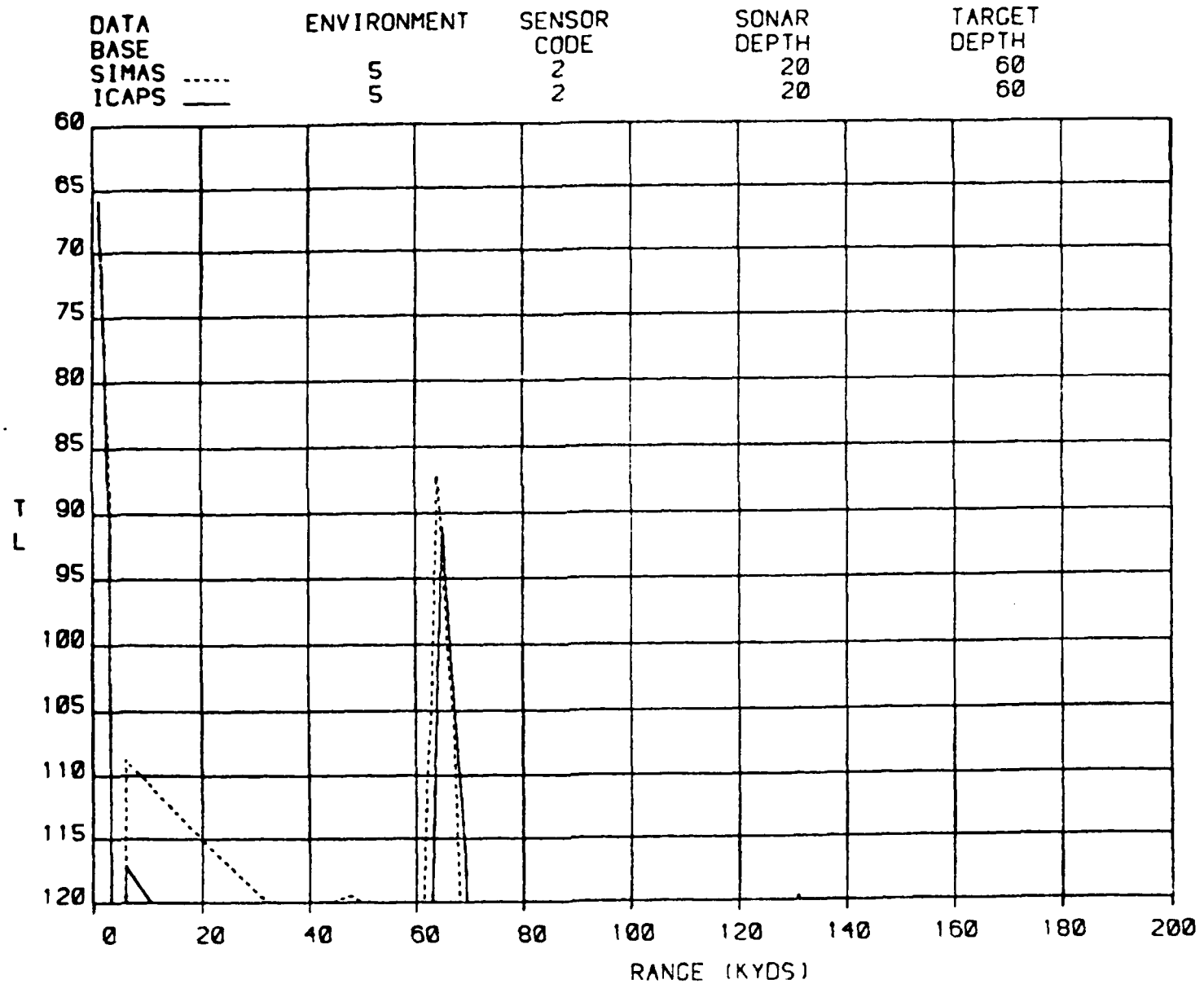

DATA BASE
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TARGET DEPTH
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RANGE (KYDS)

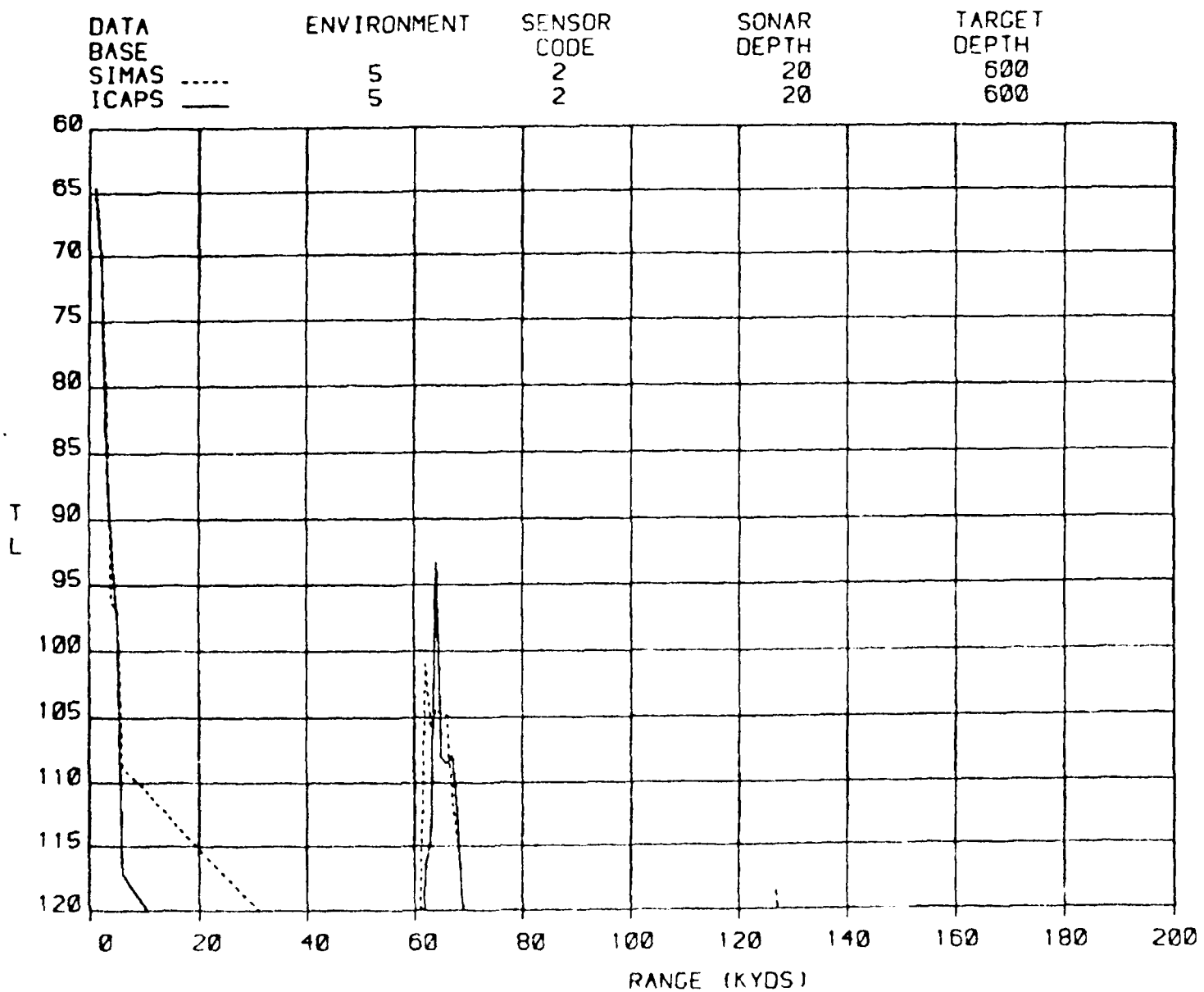

DATA BASE
ENVIRONMENT
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TARGET DEPTH
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RANGE (KYDS)

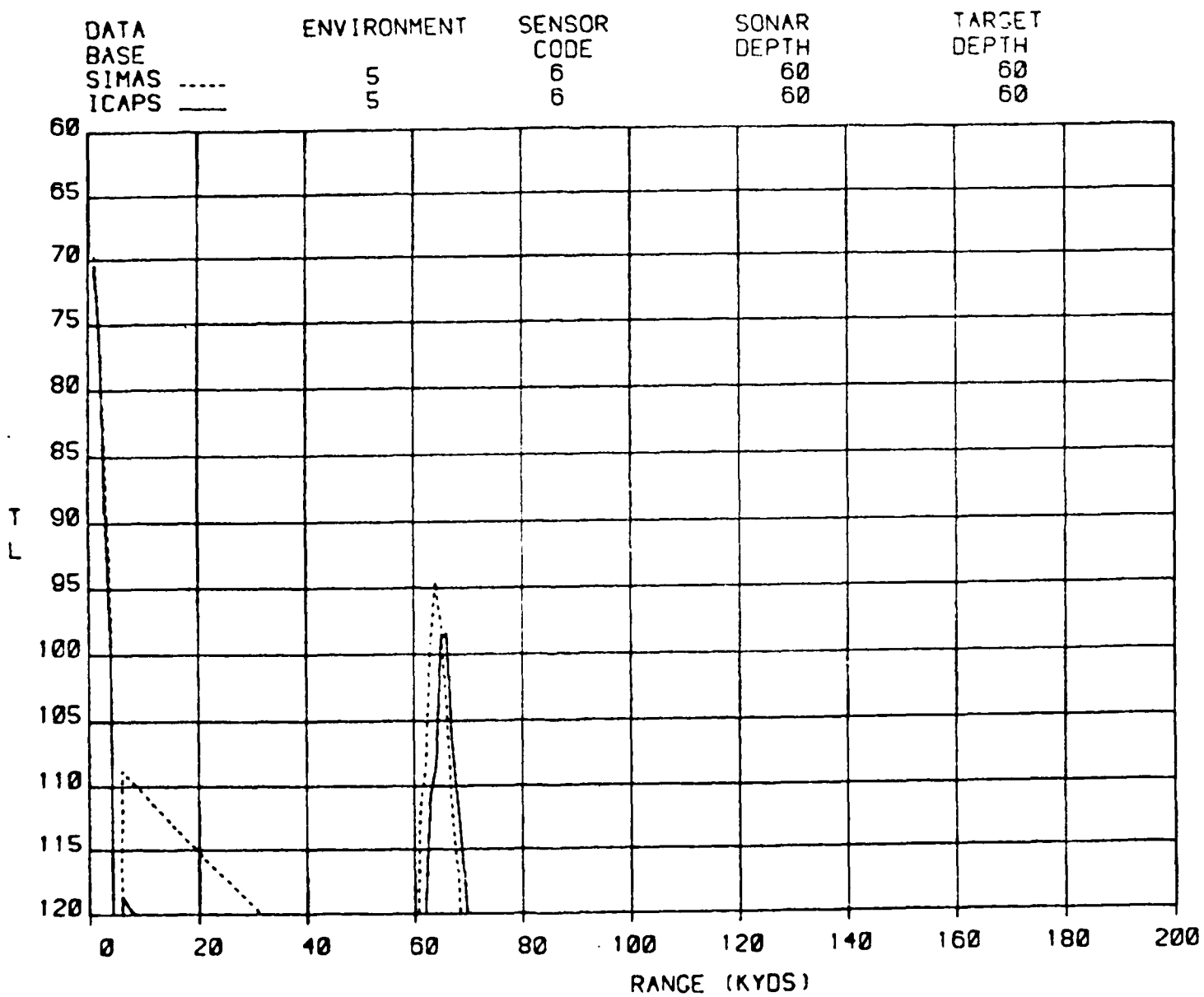

DATA BASE
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RANGE (KYDS)

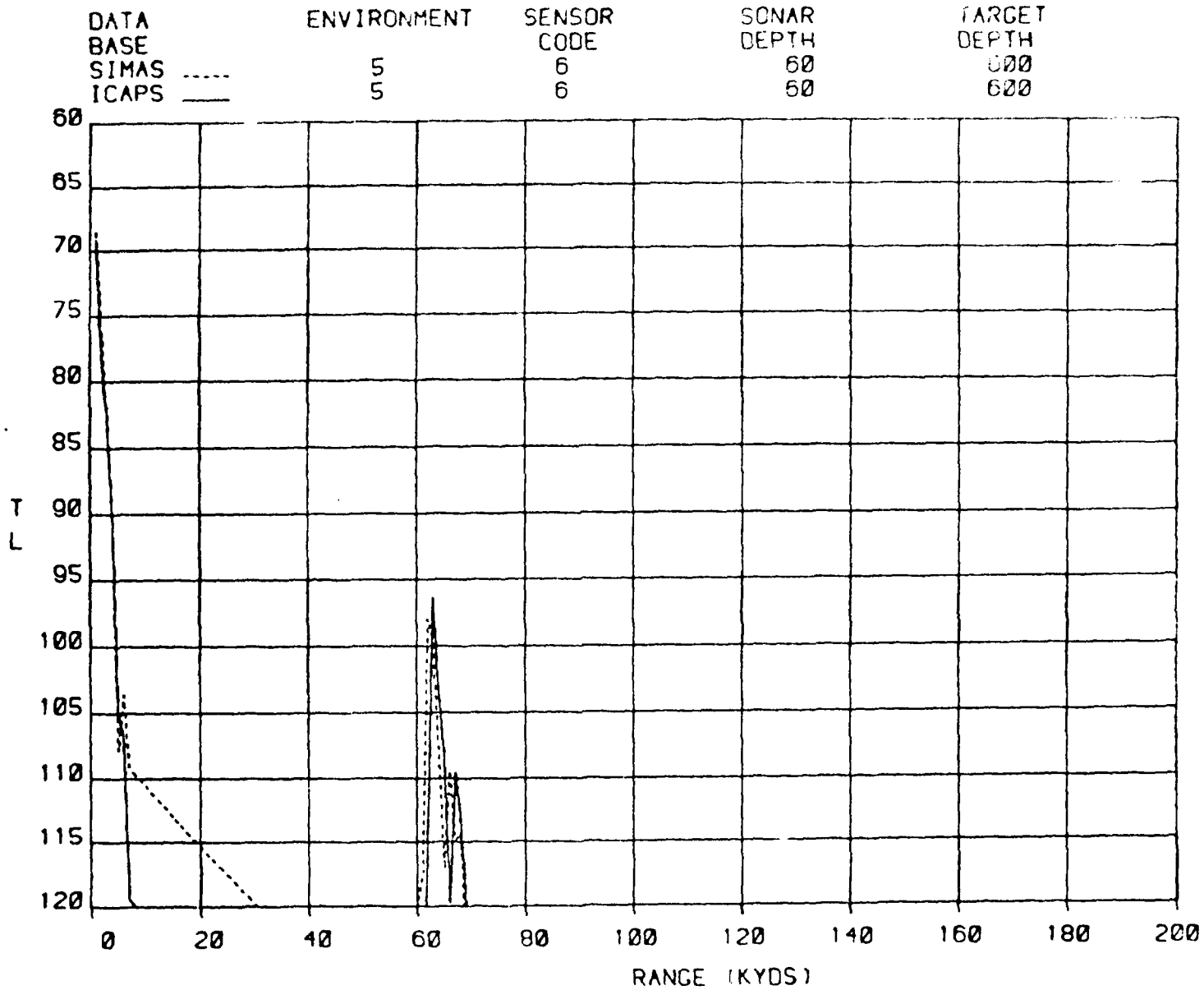

DATA BASE
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RANGE (KYDS)
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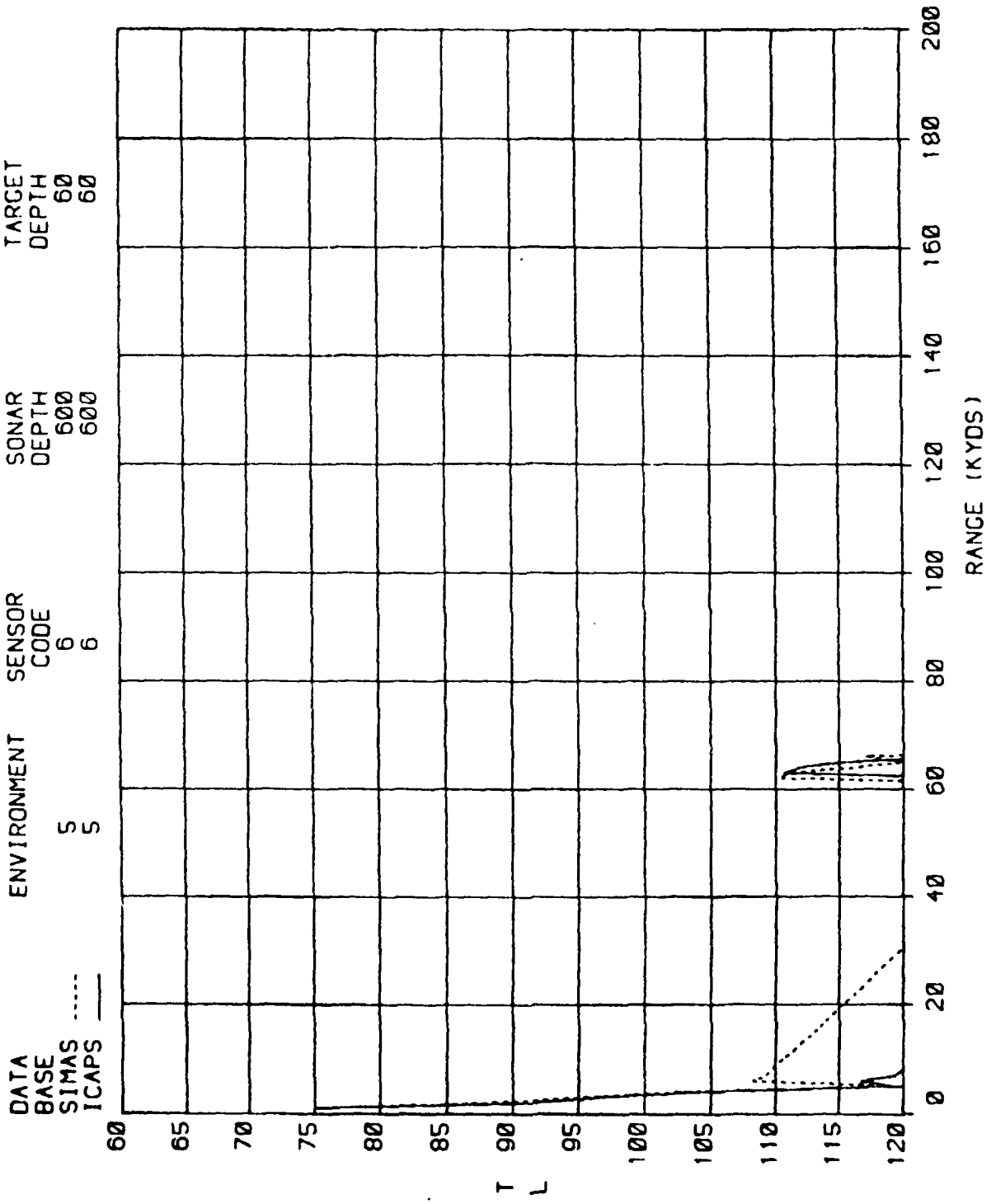

DATA BASE
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RANGE (KYDS)
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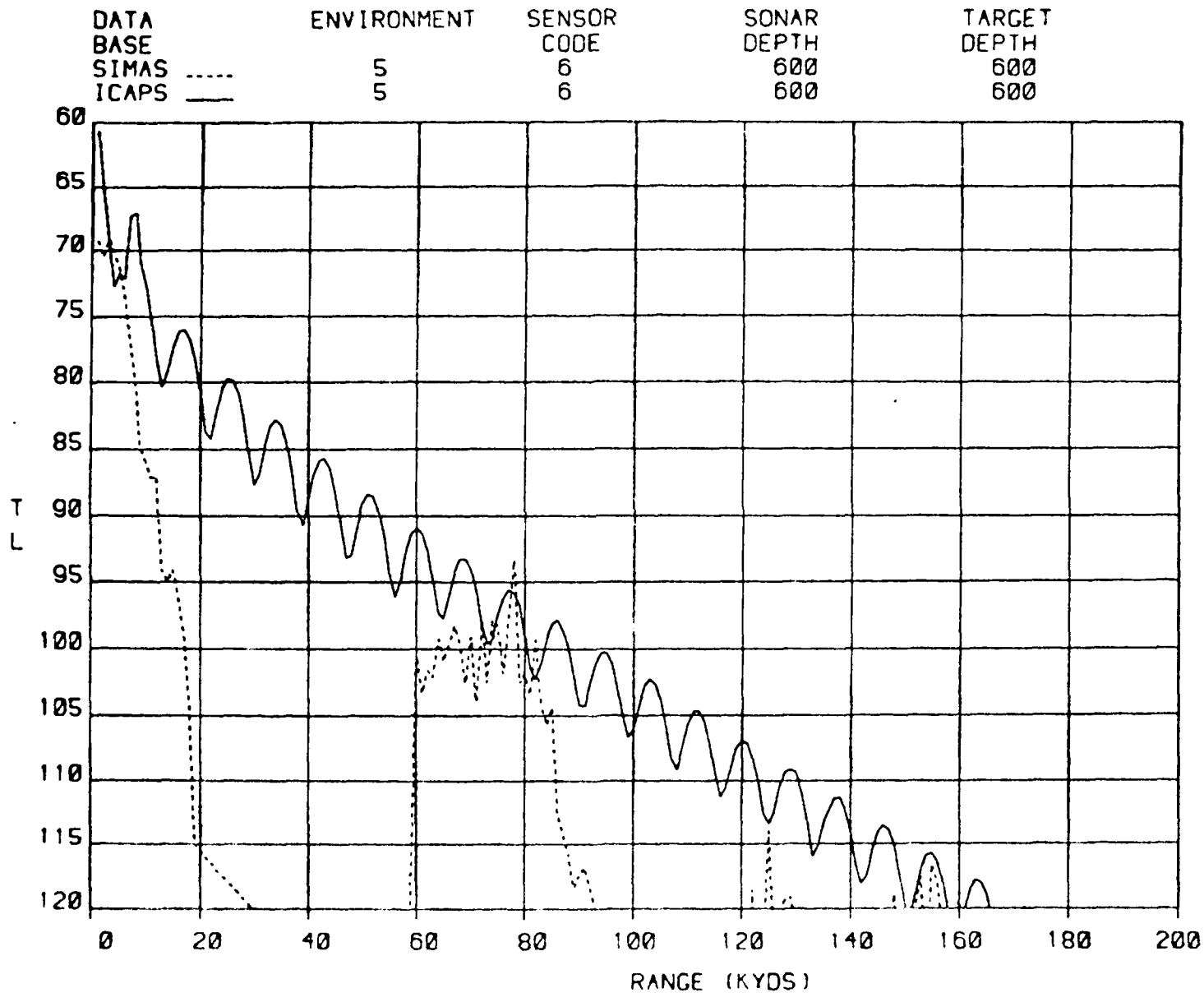

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 2 20 60
ICAPS ——— 5 2 20 60
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RANGE (KYDS)

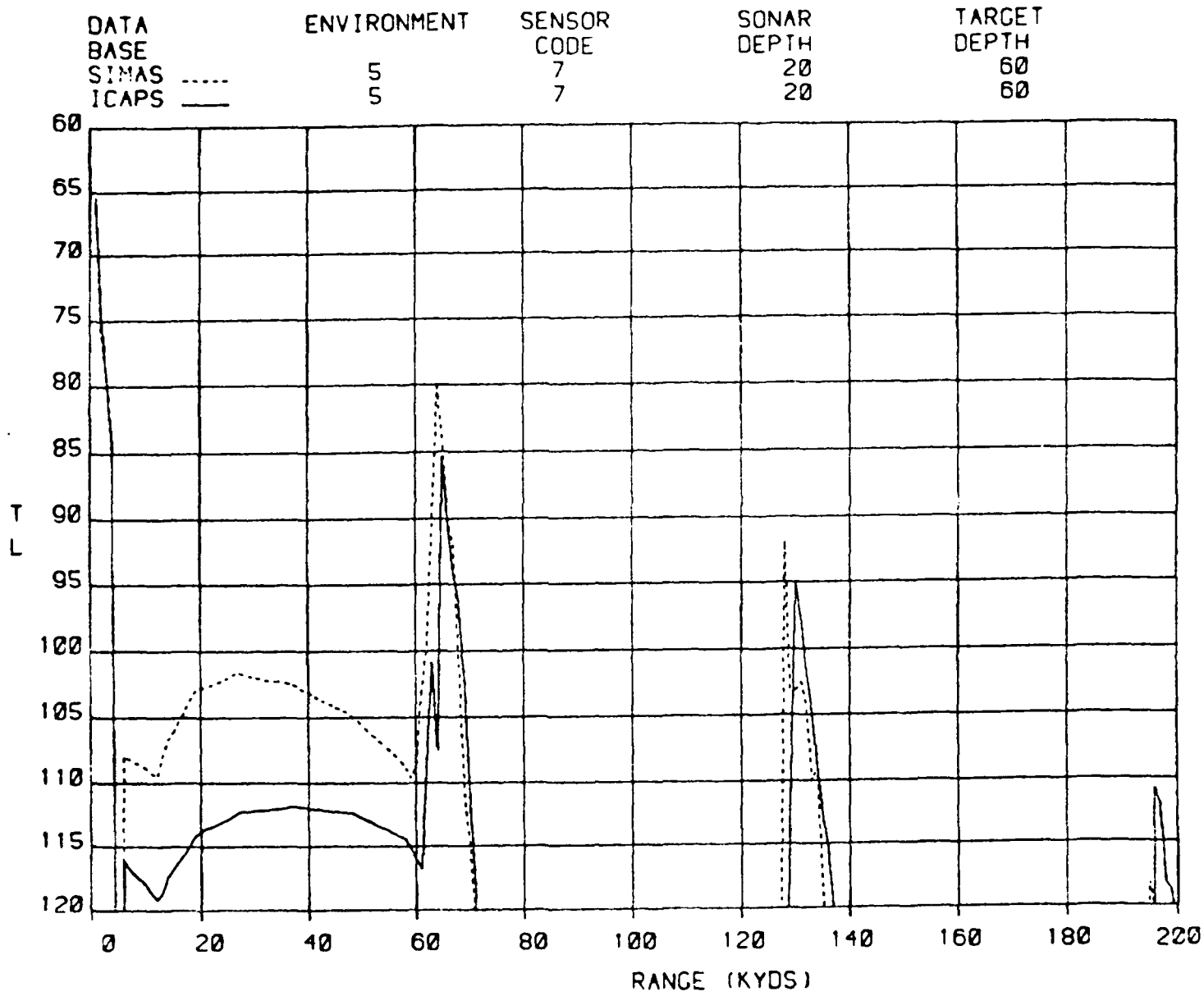

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
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ICAPS ___ 5 2 20 600
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RANGE (KYDS)

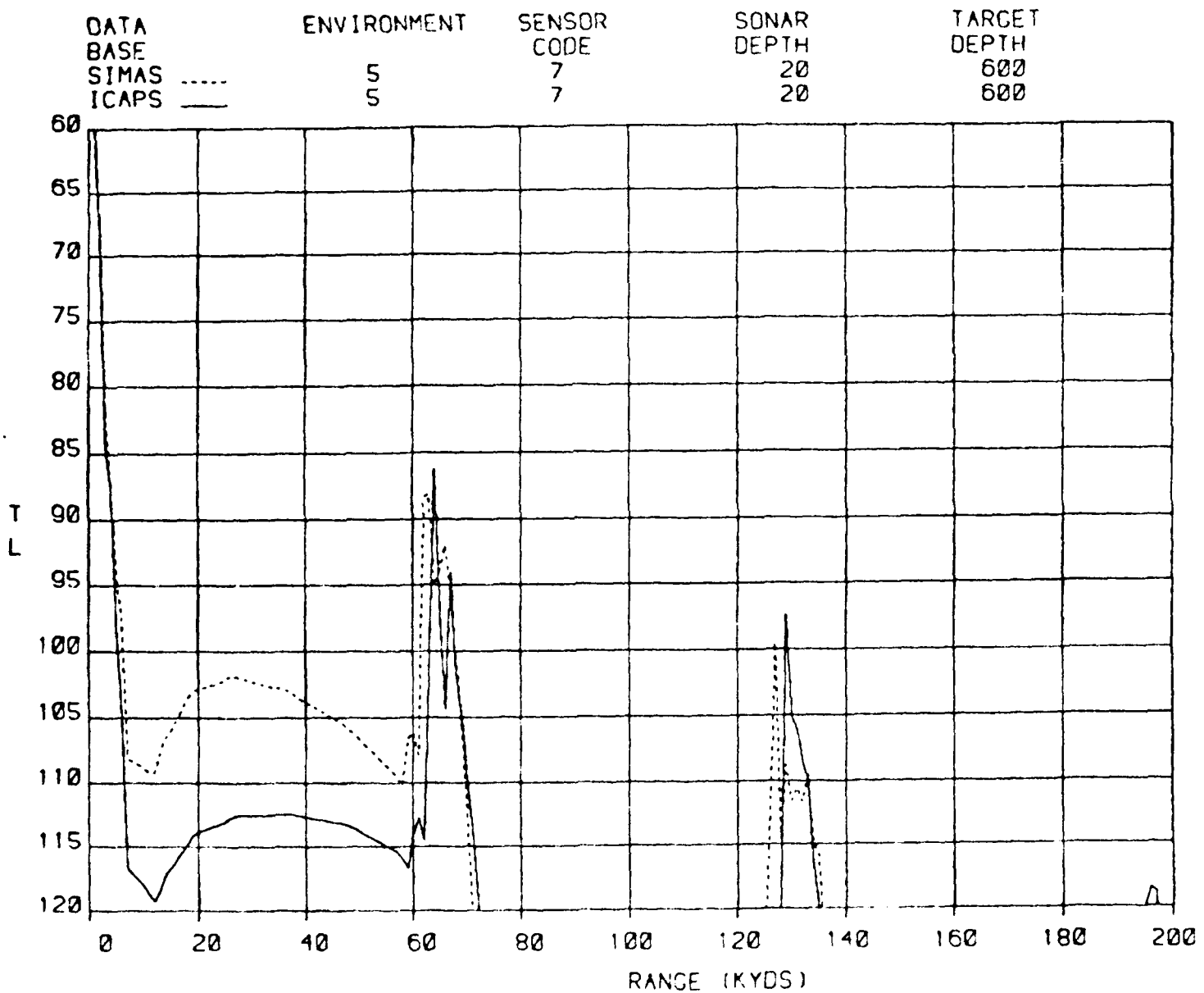

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 6 60 60
ICAPS ____ 5 6 60 60
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RANGE (KYDS)

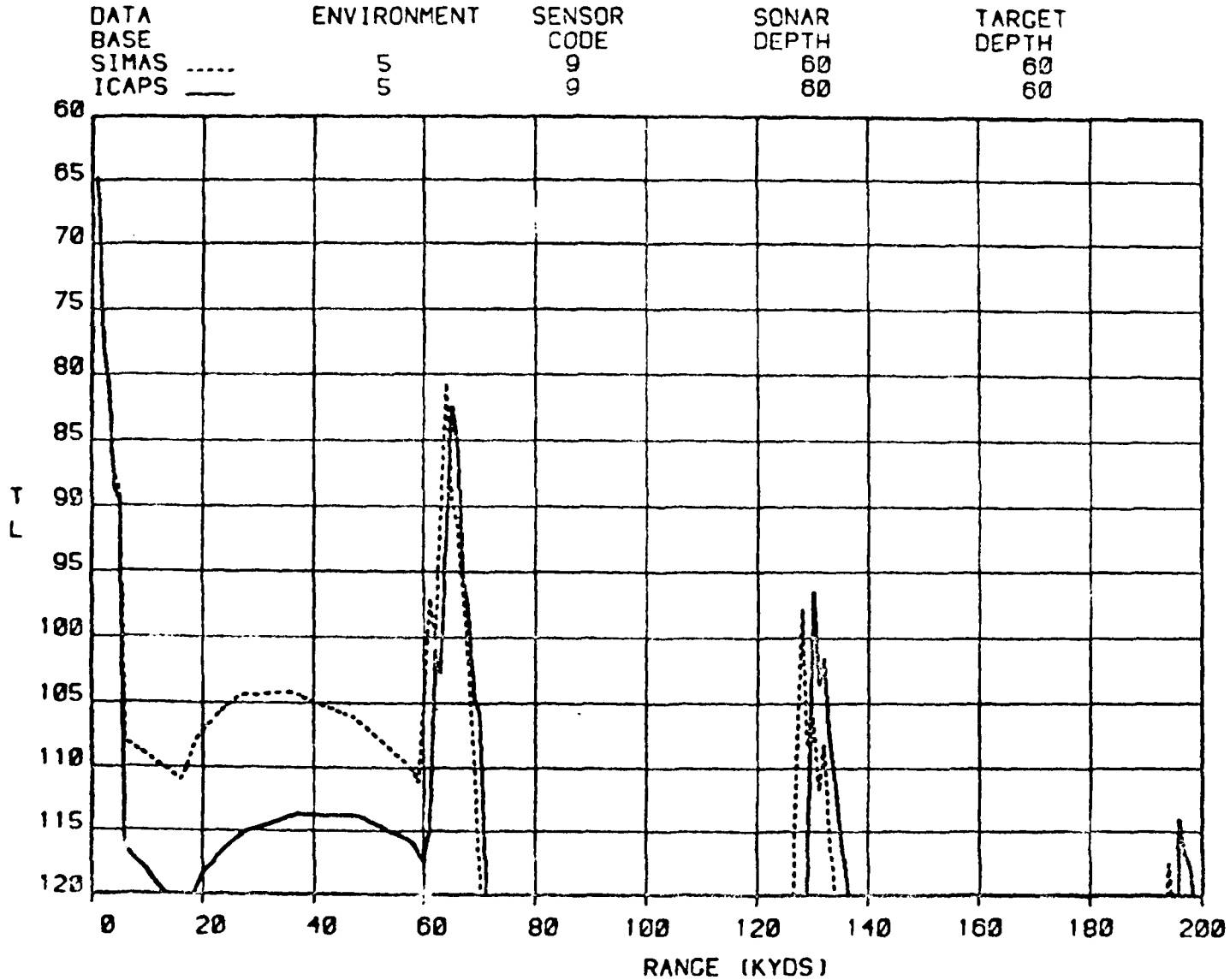

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SENSOR CODE
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TARGET DEPTH
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RANGE (KYDS)

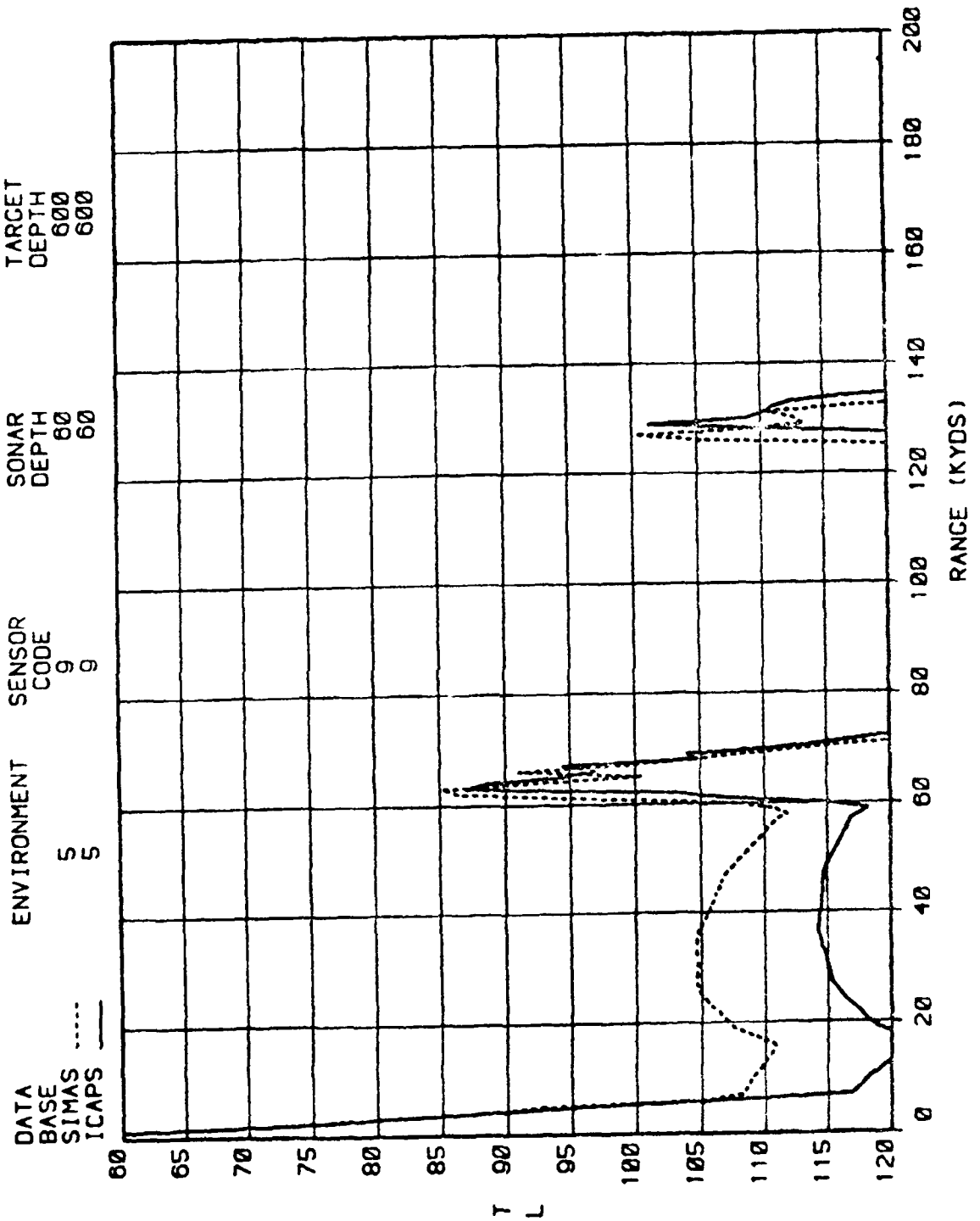

DATA BASE
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ICAPS ——
ENVIRONMENT
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SENSOR CODE
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SONAR DEPTH
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TARGET DEPTH
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RANGE (KYDS)

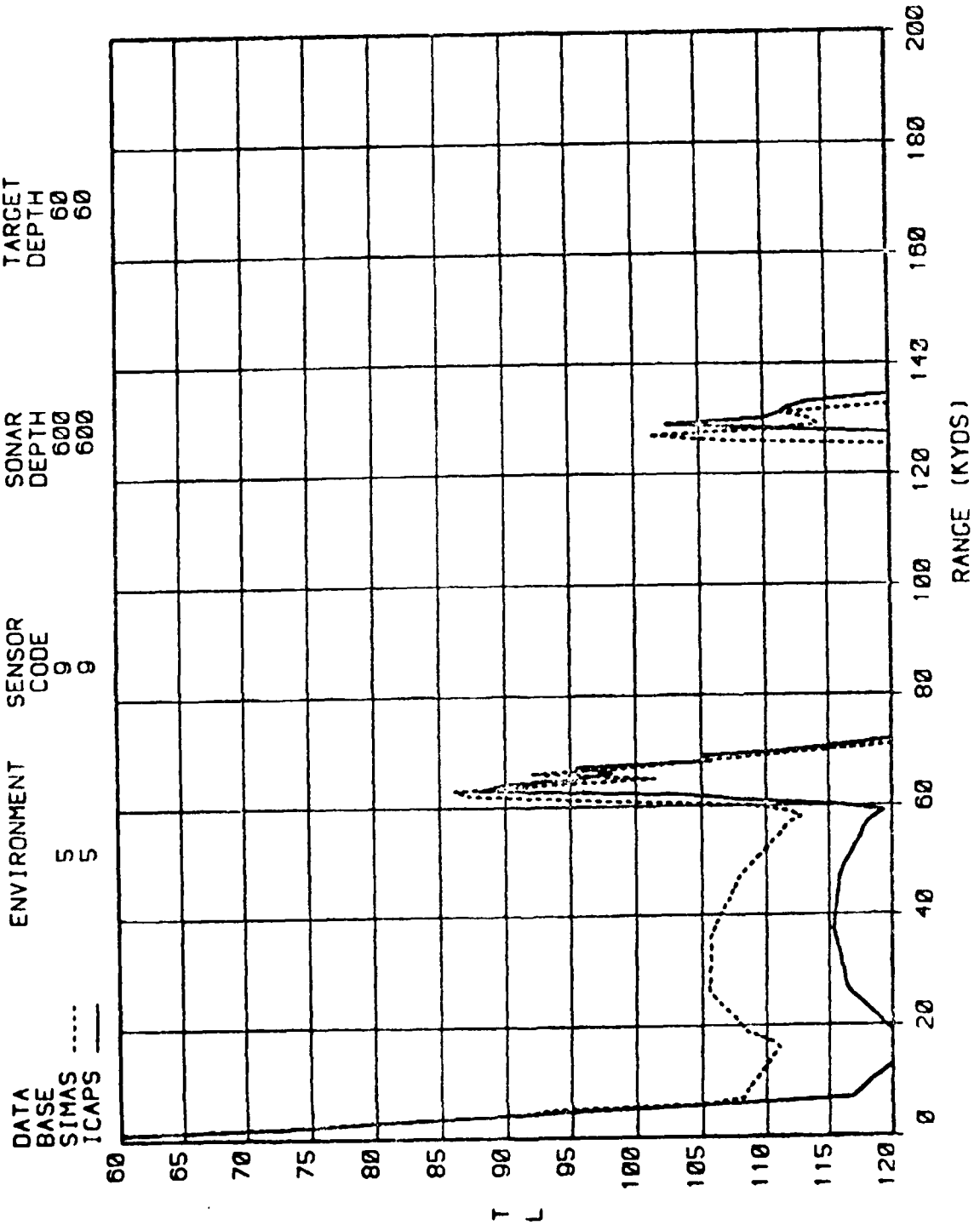

DATA BASE
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SENSOR CODE
SONAR DEPTH
TARGET DEPTH
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ICAPS ____ 5 6 600 600
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RANGE (KYDS)

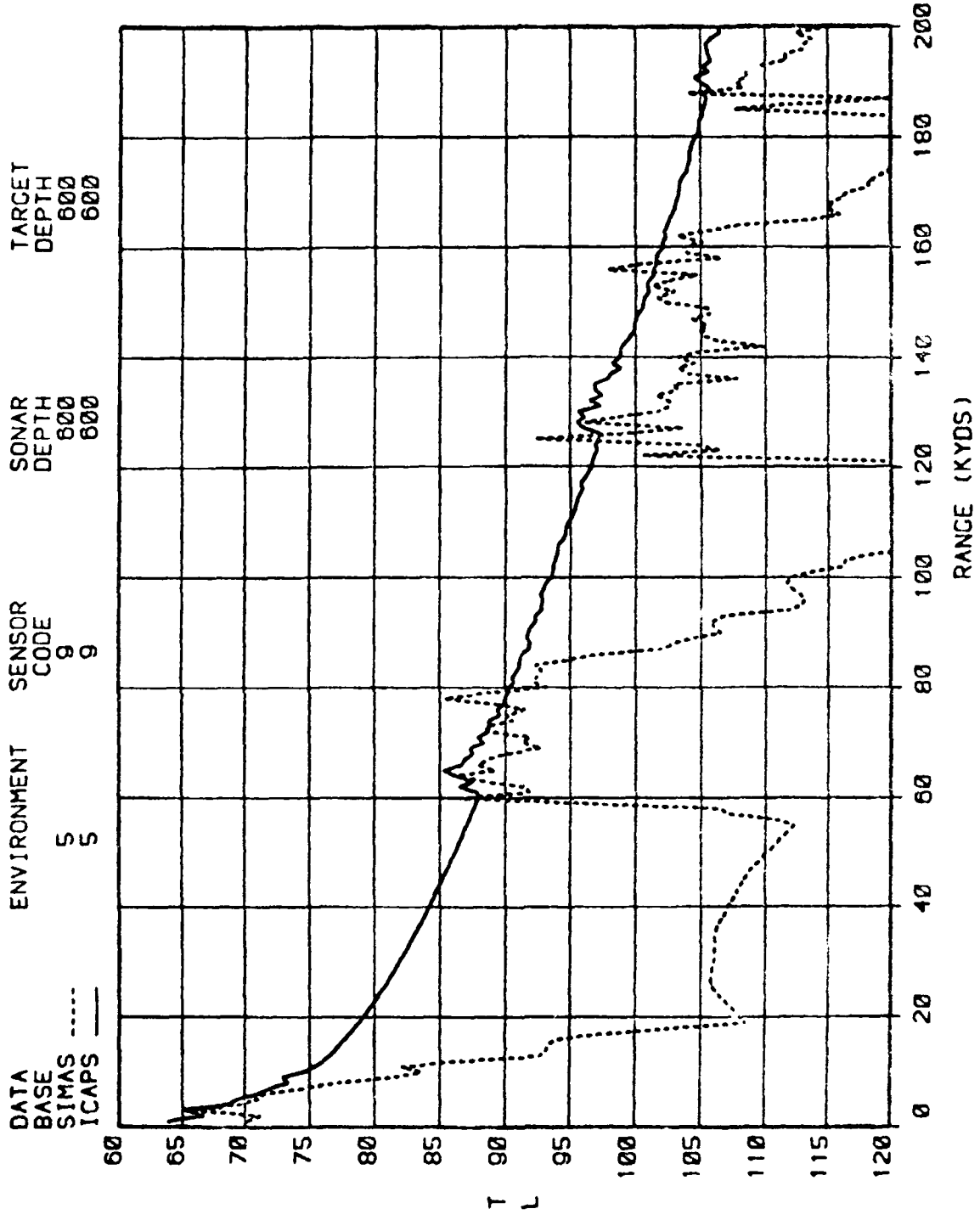

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 7 20 60
ICAPS ——— 5 7 20 60
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RANGE (KYDS)

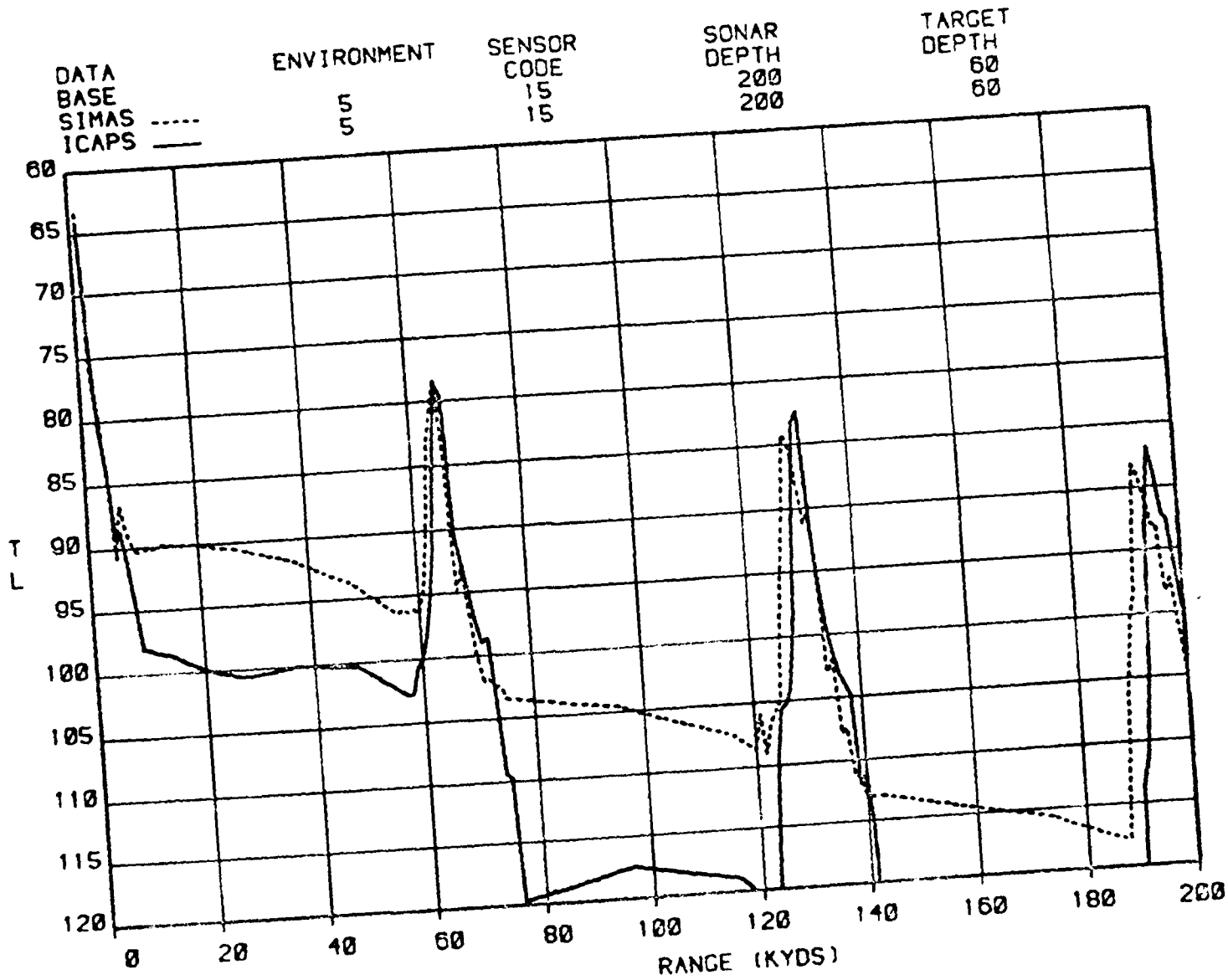

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 7 20 600
ICAPS ____ 5 7 20 600
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RANGE (KYDS)

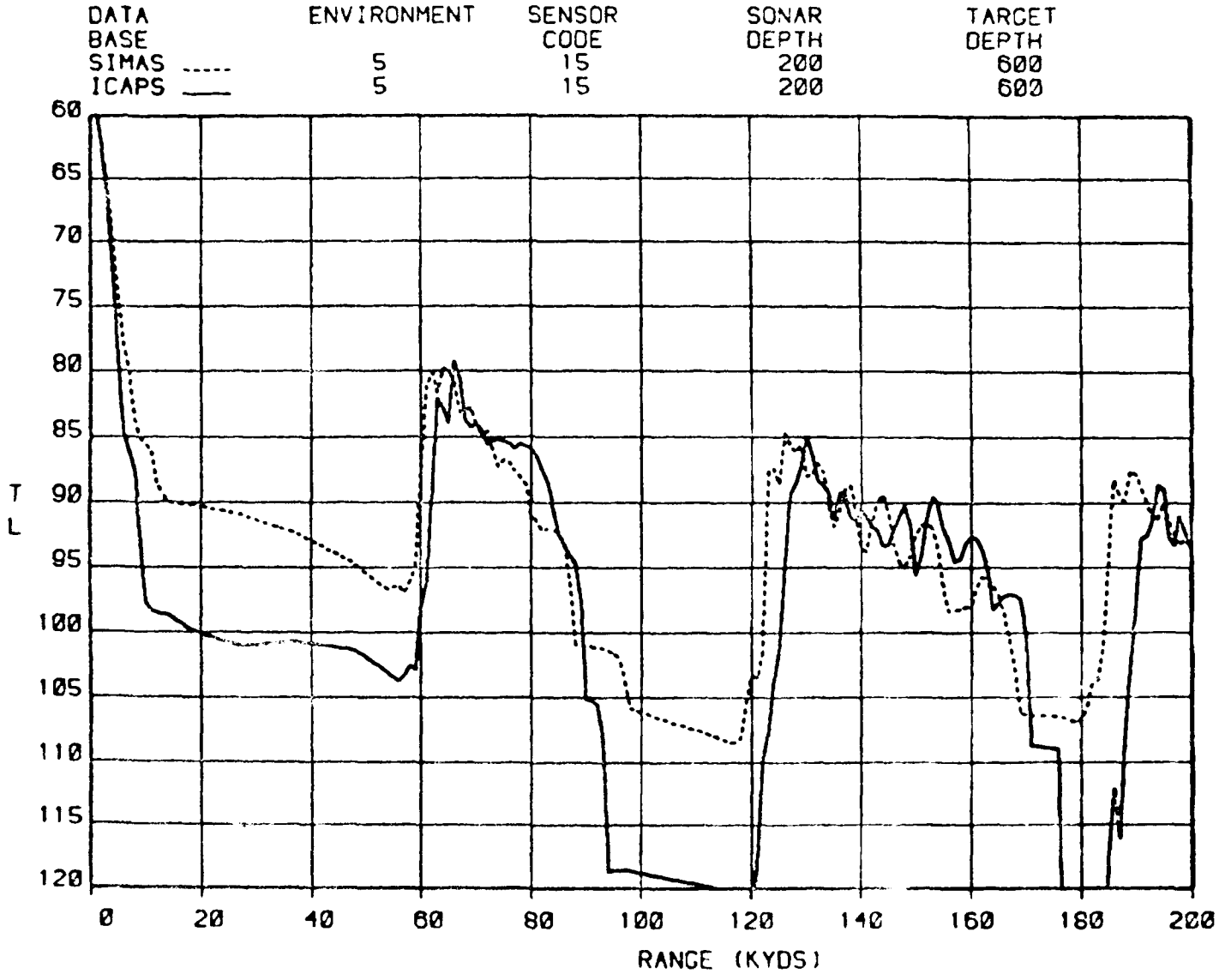

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 9 60 60
ICAPS ____ 5 9 60 60
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RANGE (KYDS)

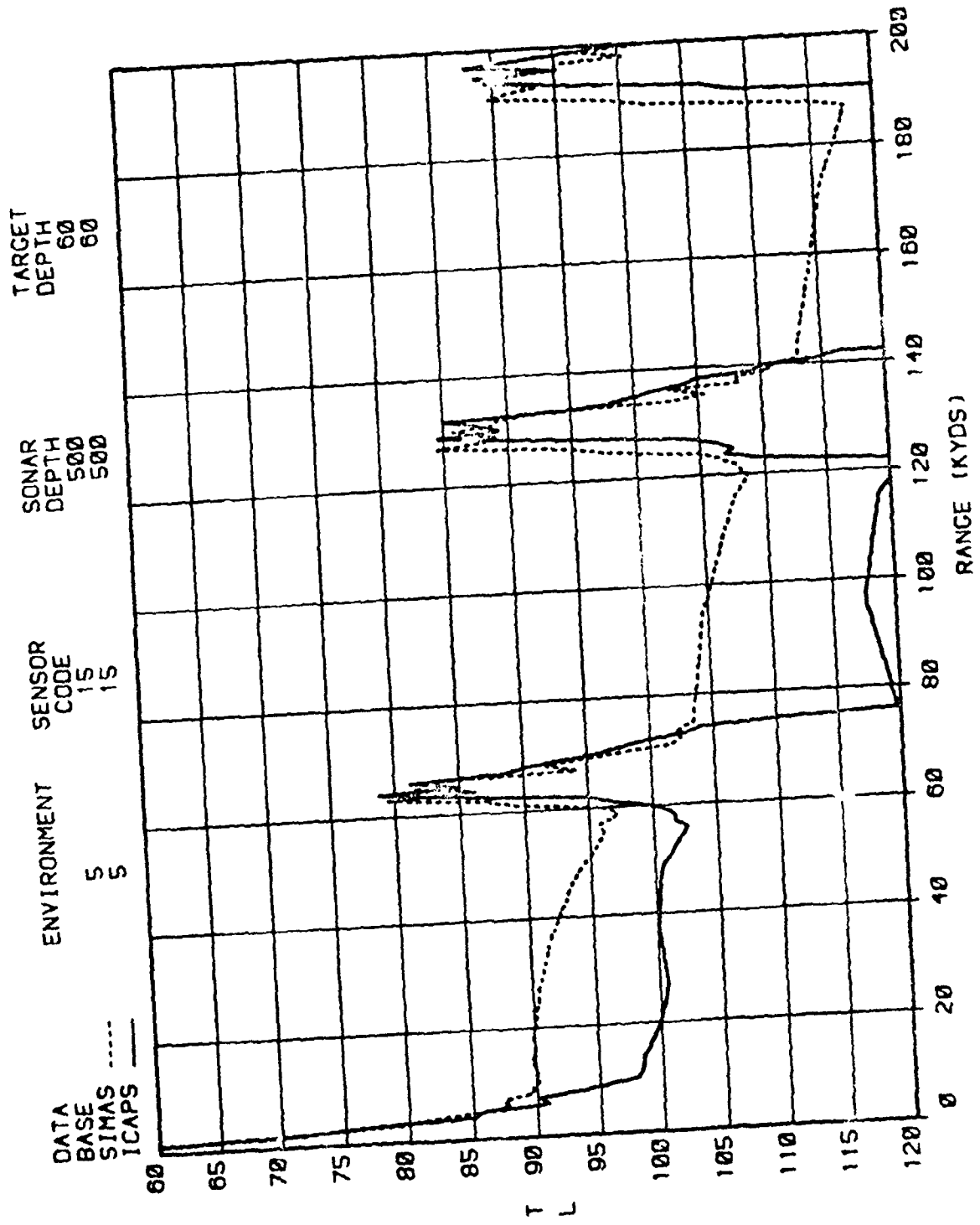

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
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5
SENSOR CODE
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9
SONAR DEPTH
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TARGET DEPTH
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600
T L
RANGE (KYDS)
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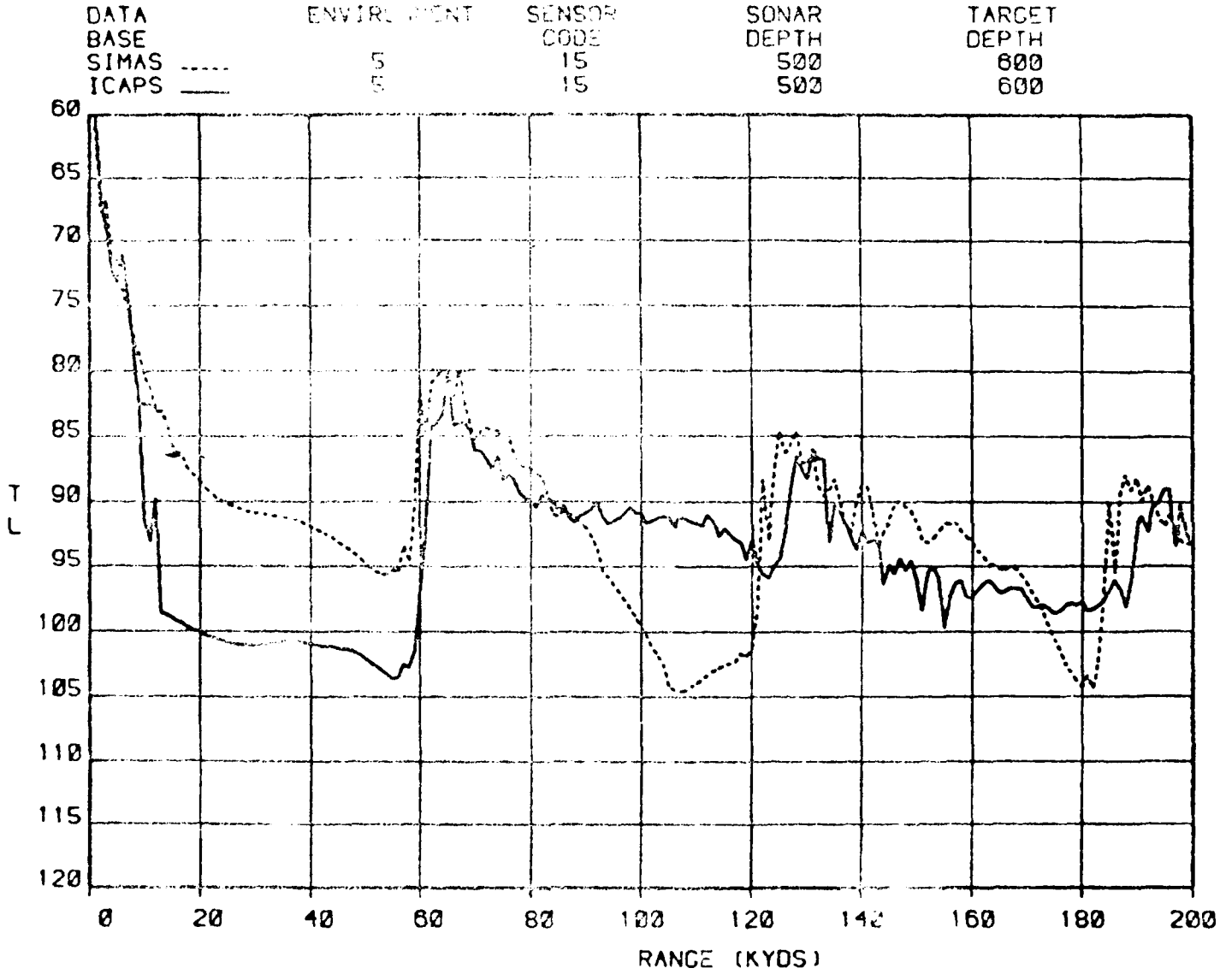

DATA BASE SIMAS ----- ICAPS ——
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SENSOR CODE 9 9
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TARGET DEPTH 60 60
T L
RANGE (KYDS)
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0 20 40 60 80 100 120 140 160 180 200

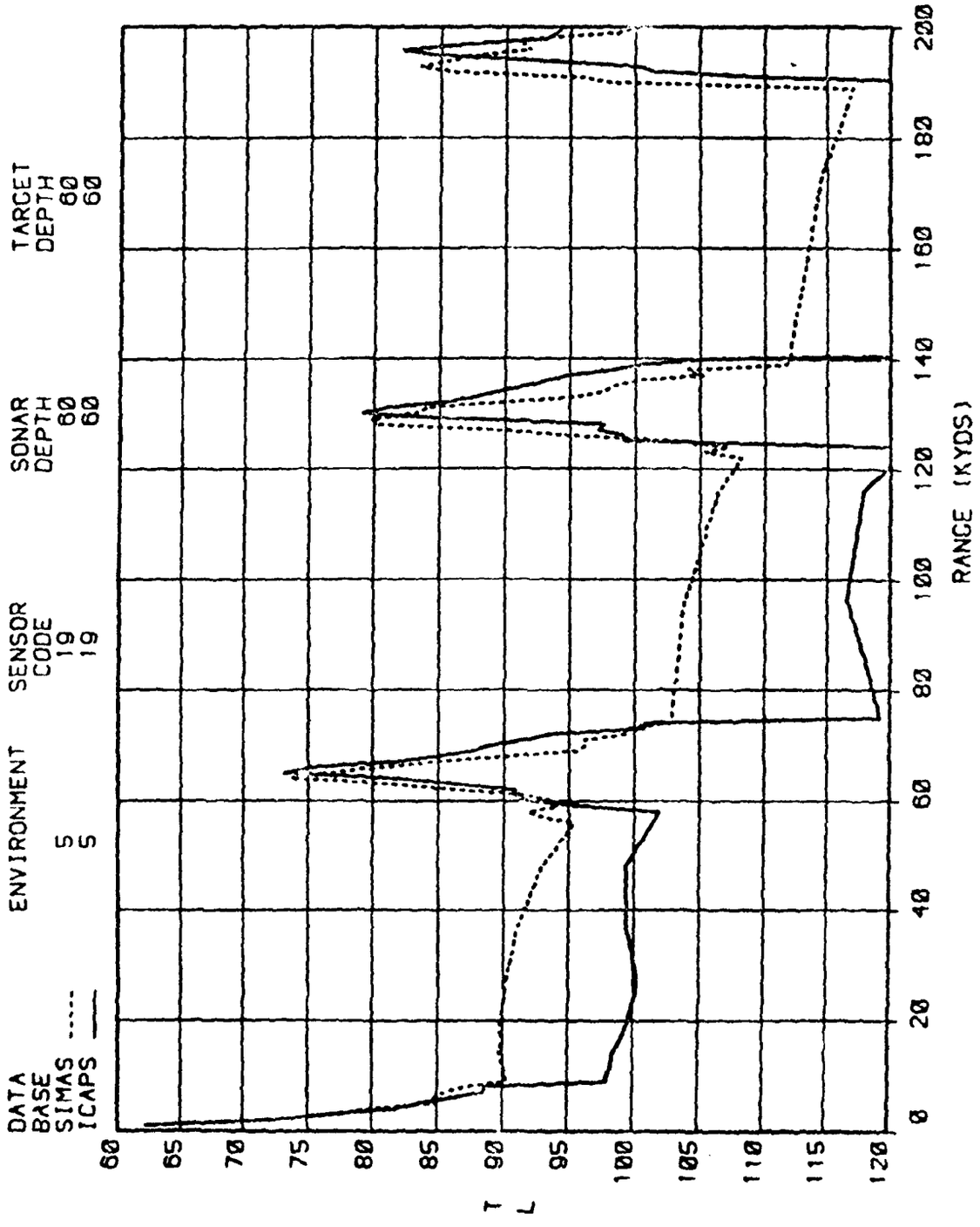

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
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5
SENSOR CODE
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9
SONAR DEPTH
600
600
TARGET DEPTH
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RANGE (KYDS)

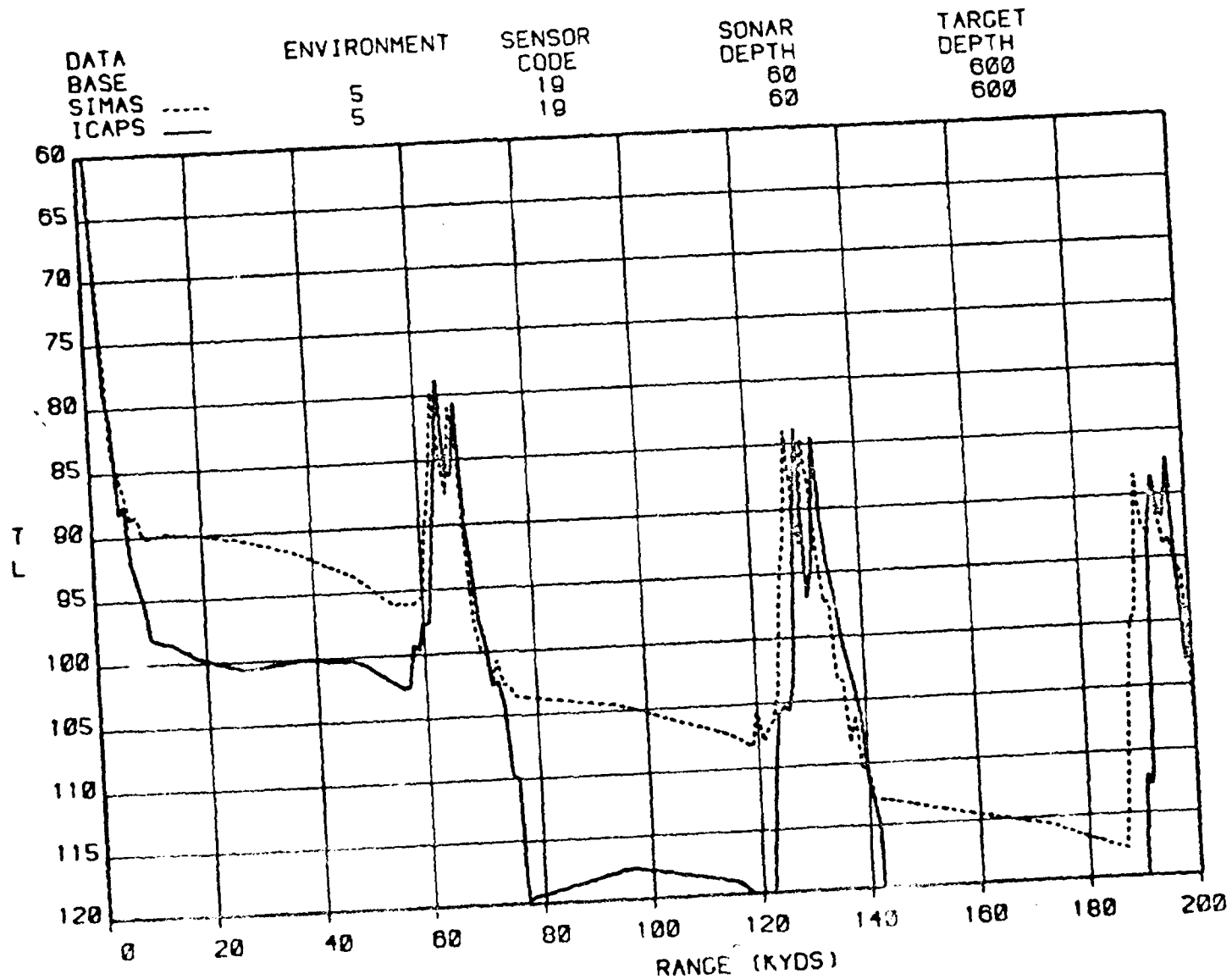

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS -----
ICAPS ——
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200
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RANGE (KYDS)

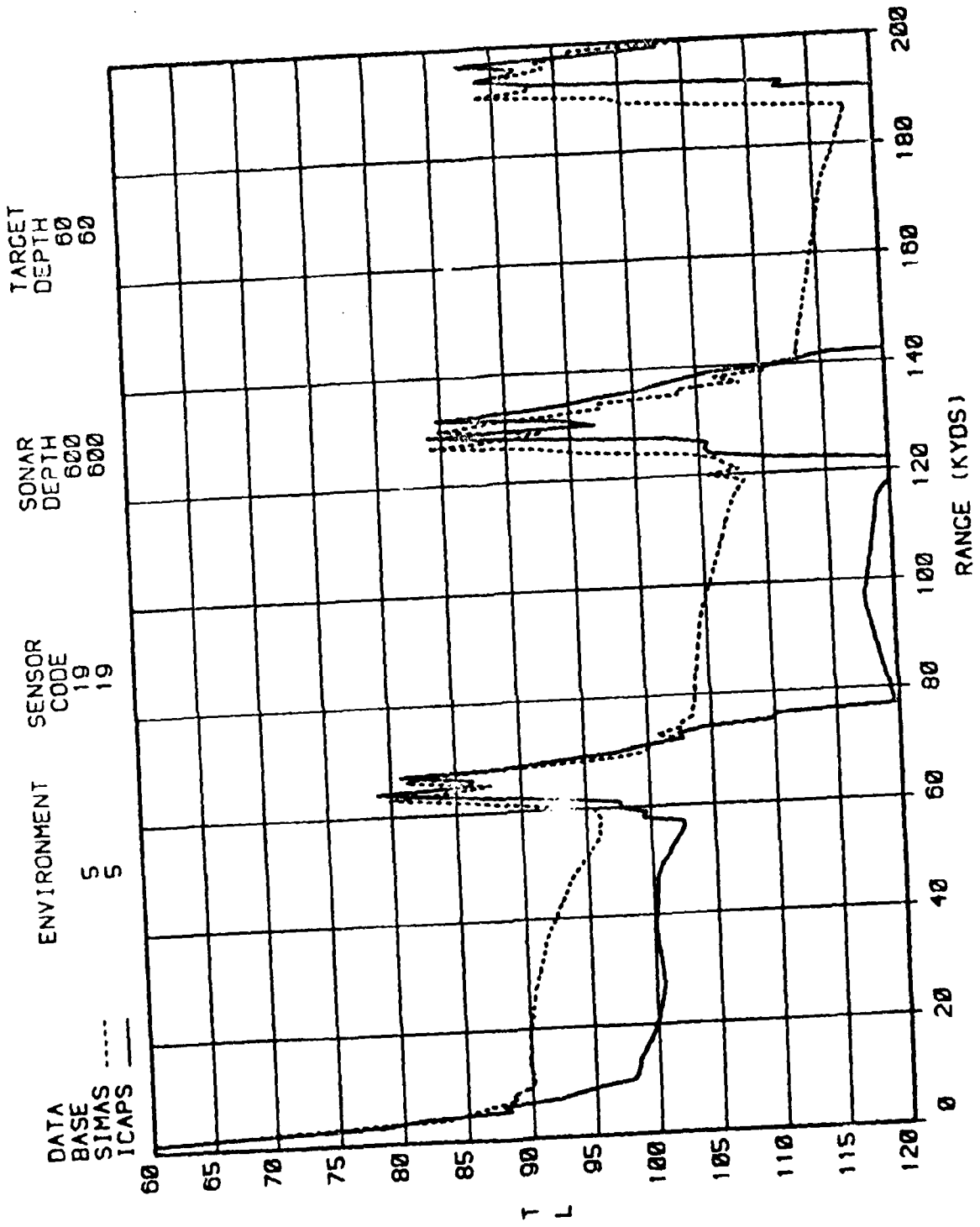

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 15 200 600
ICAPS ____ 5 15 200 600
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RANGE (KYDS)

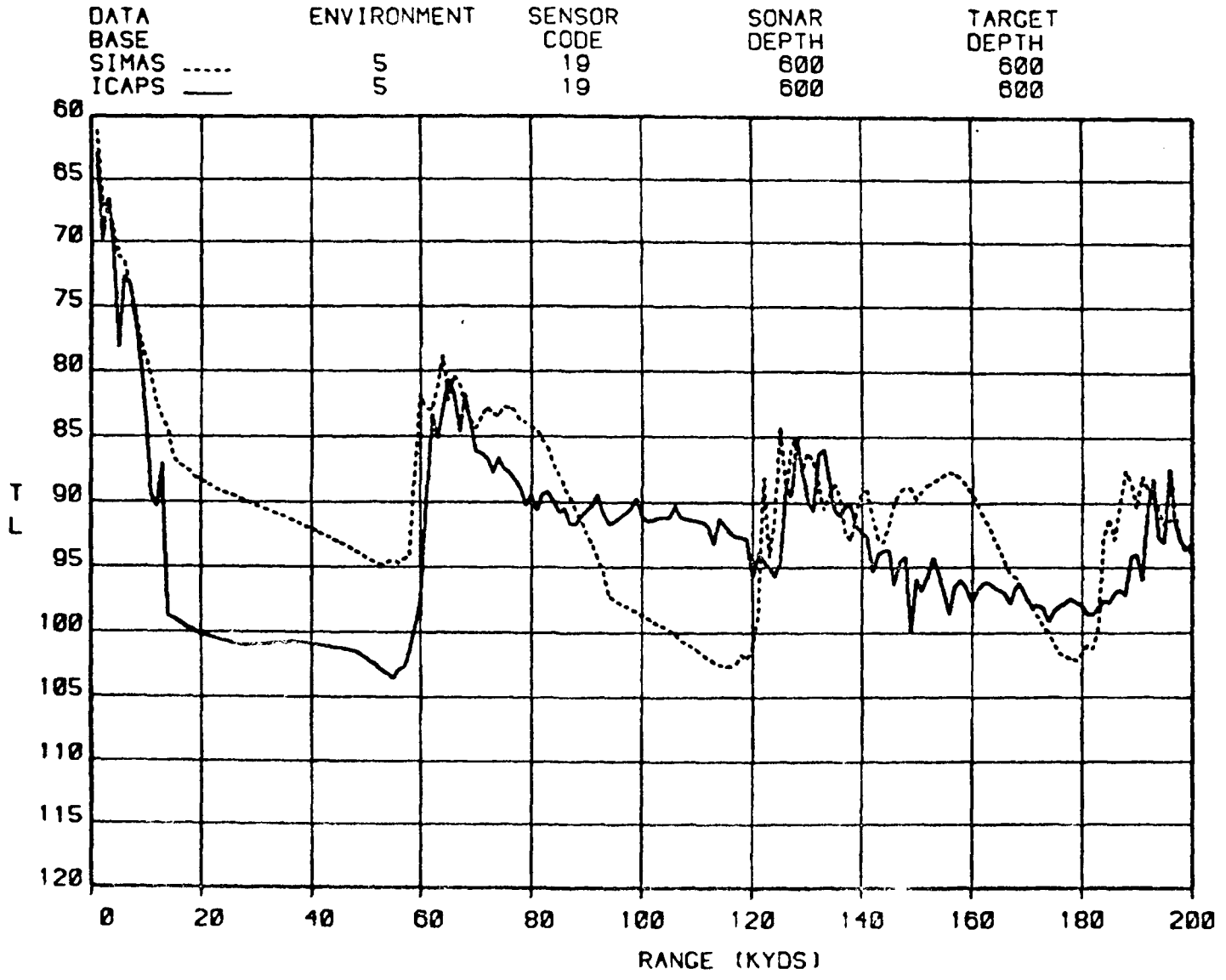

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
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SENSOR CODE
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15
SONAR DEPTH
500
500
TARGET DEPTH
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T L
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RANGE (KYDS)

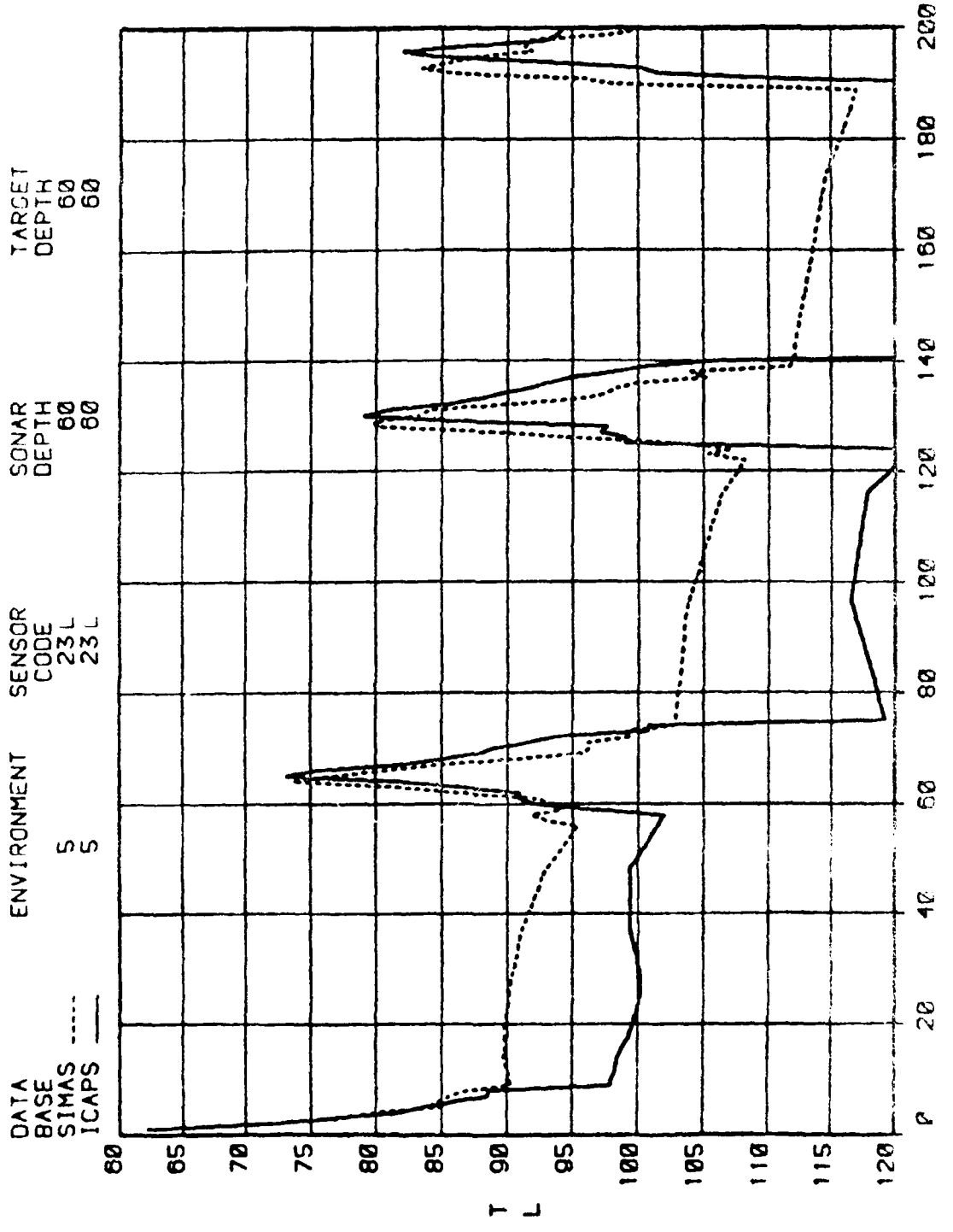

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 15 500 600
ICAPS ____ 5 15 500 600
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RANGE (KYDS)

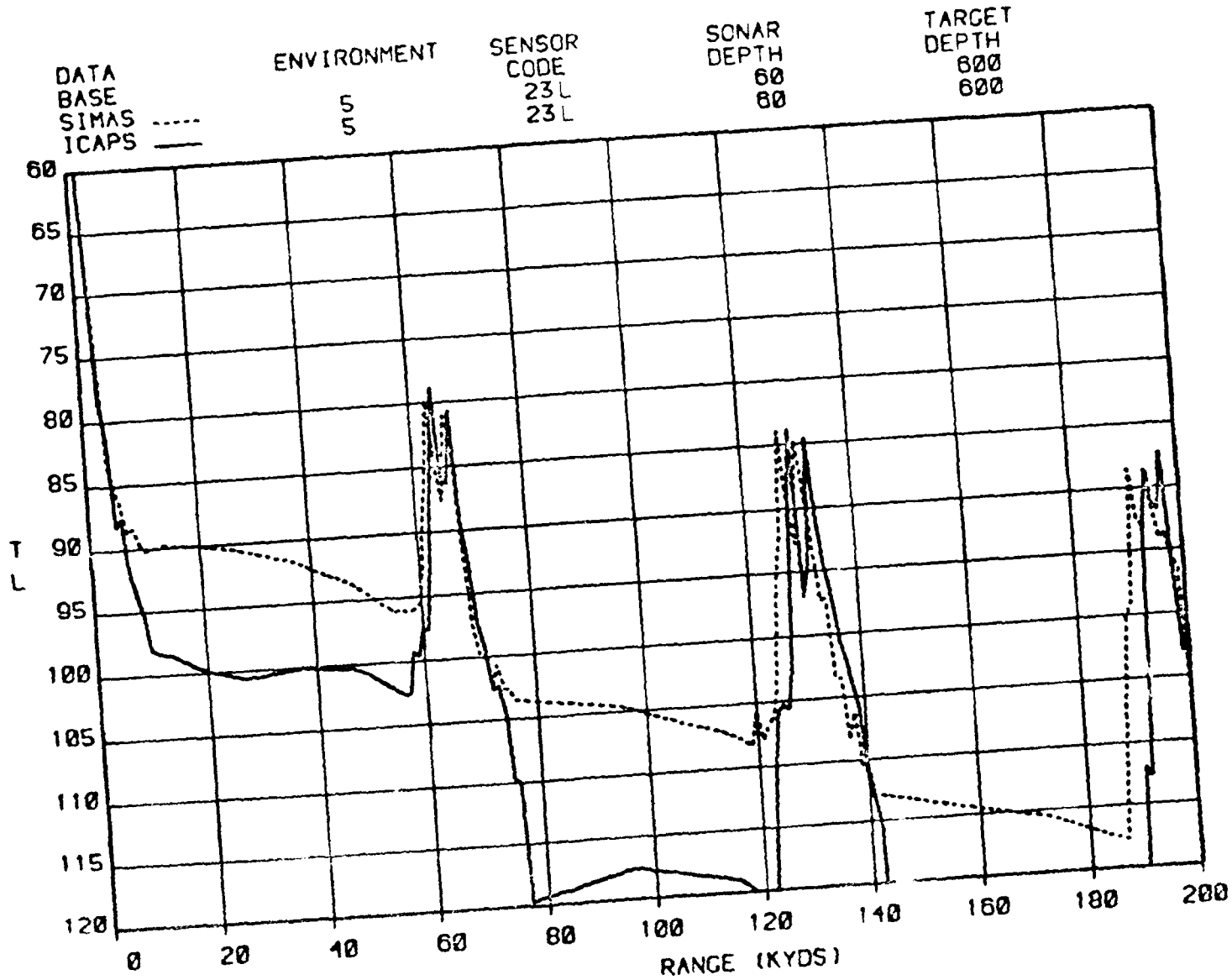

DATA BASE
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ICAPS ——
ENVIRONMENT
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SENSOR CODE
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SONAR DEPTH
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TARGET DEPTH
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T L
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RANGE (KYDS)

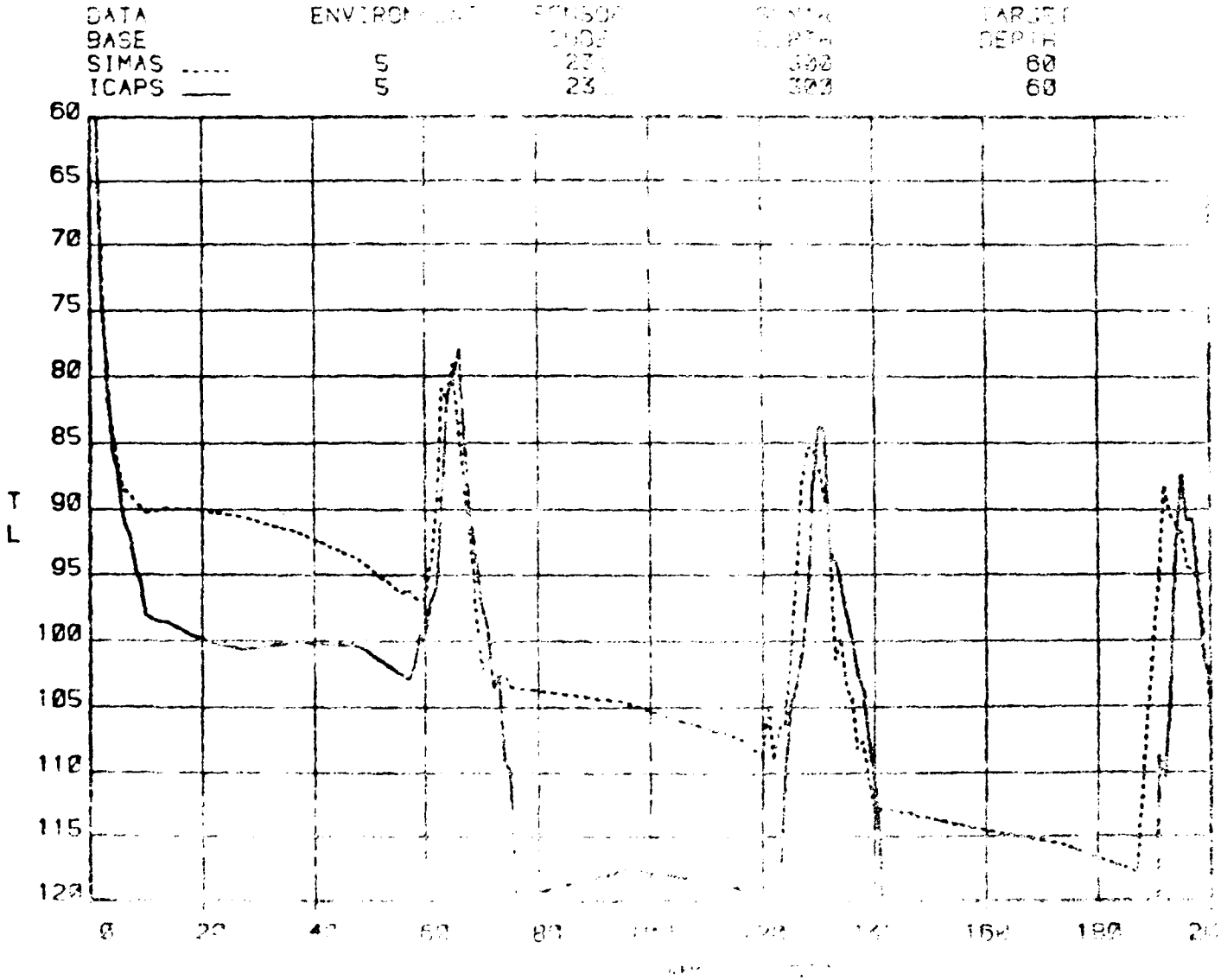

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
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SENSOR CODE
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SONAR DEPTH
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TARGET DEPTH
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RANGE (KYDS)

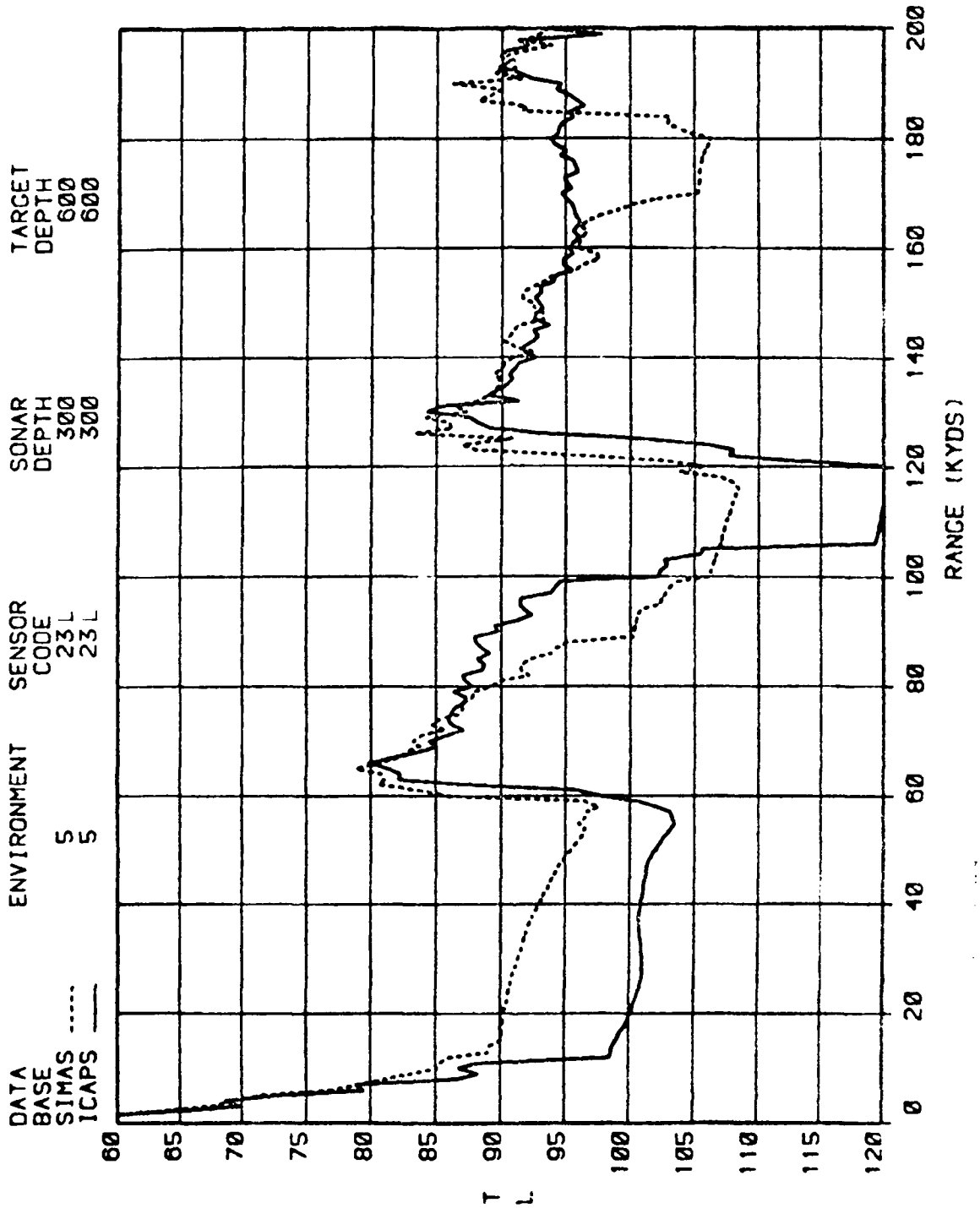

DATA BASE
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ICAPS ——
ENVIRONMENT 5 5
SENSOR CODE 19 19
SONAR DEPTH 600 600
TARGET DEPTH 60 60
T L
RANGE (KYDS)
60
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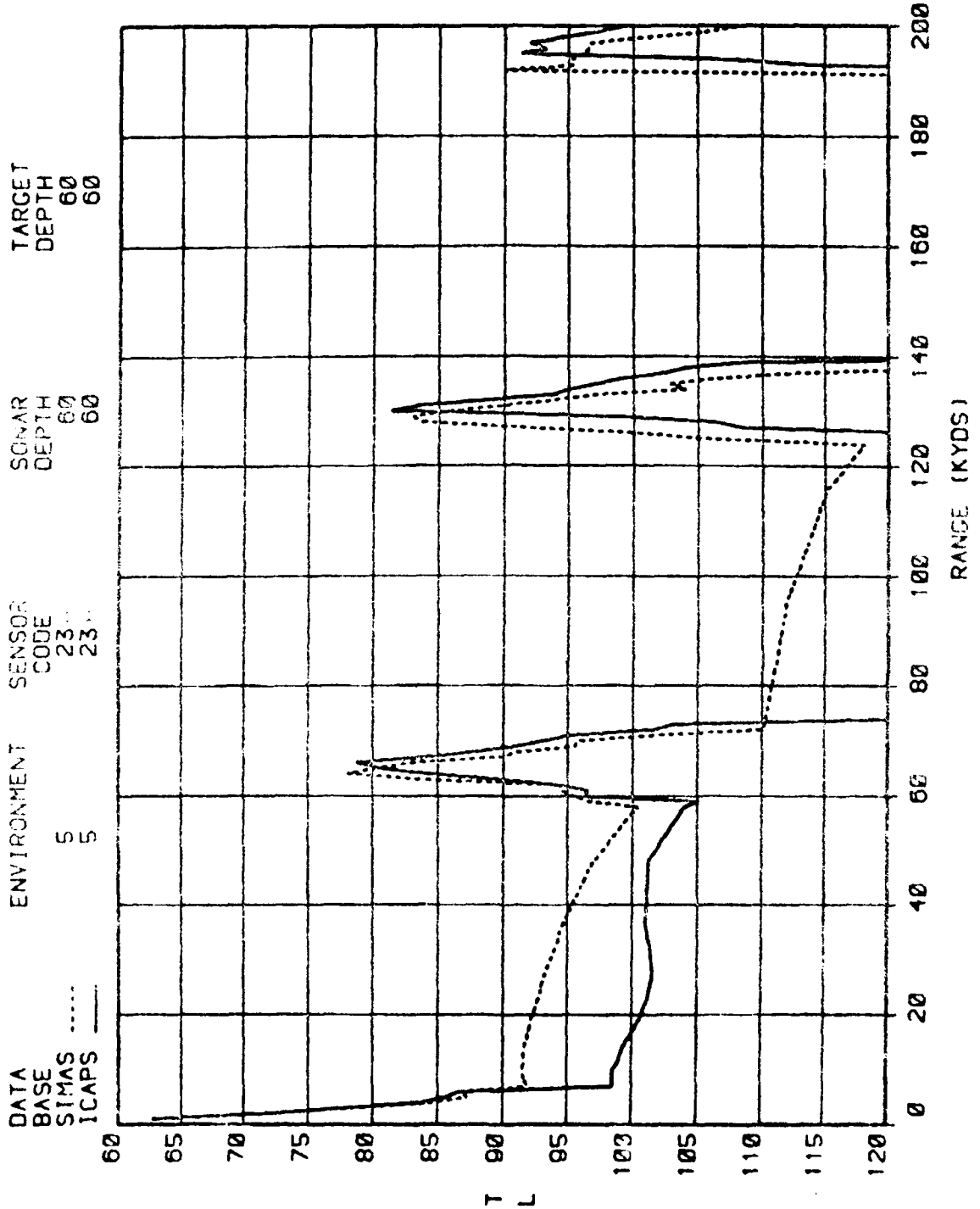

DATA BASE
ENVIRONMENT
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SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 19 600 600
ICAPS ____ 5 19 600 600
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RANGE (KYDS)

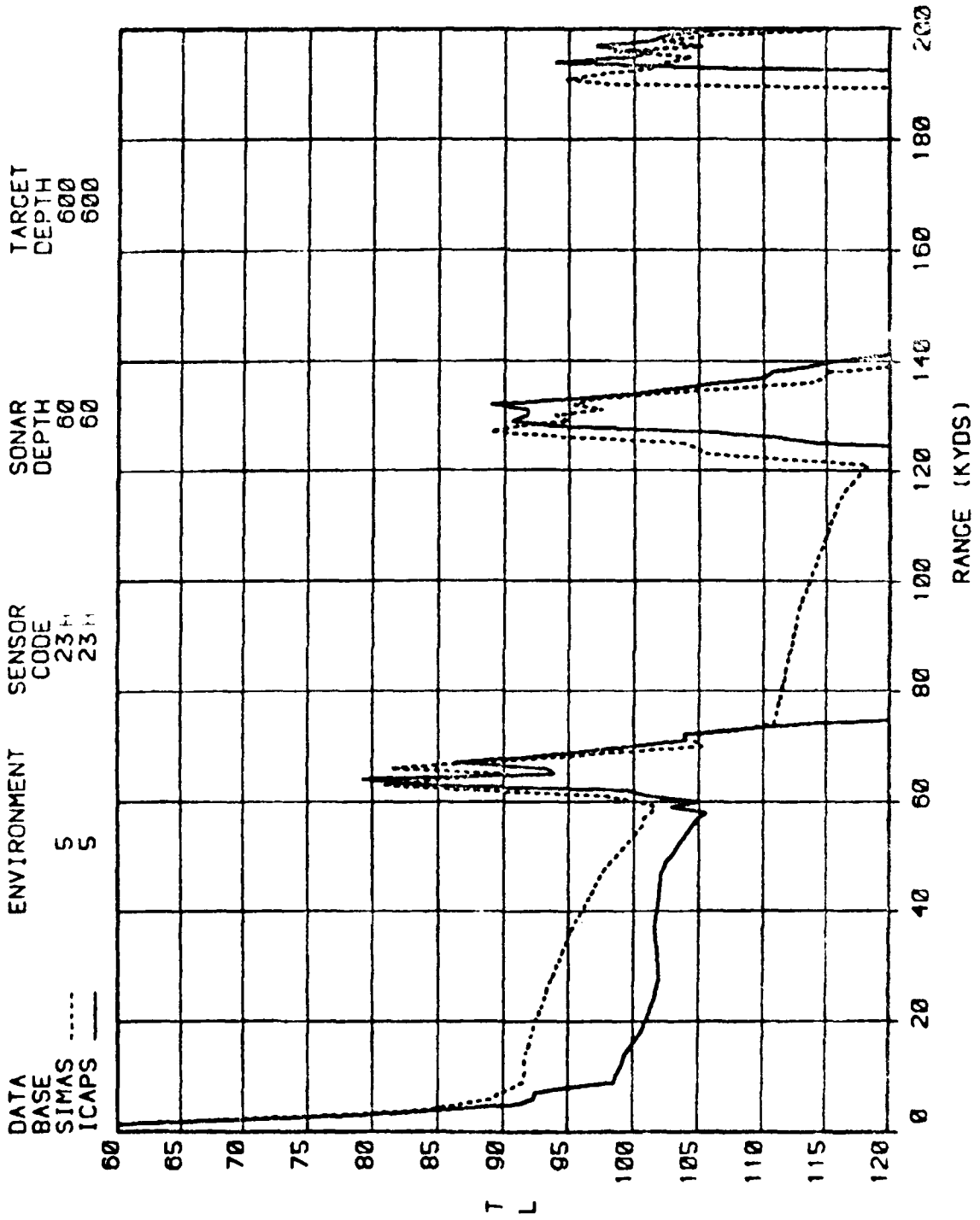

DATA BASE SIMAS ----- ICAPS ——
ENVIRONMENT S S
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SONAR DEPTH 60 60
TARGET DEPTH 60 60
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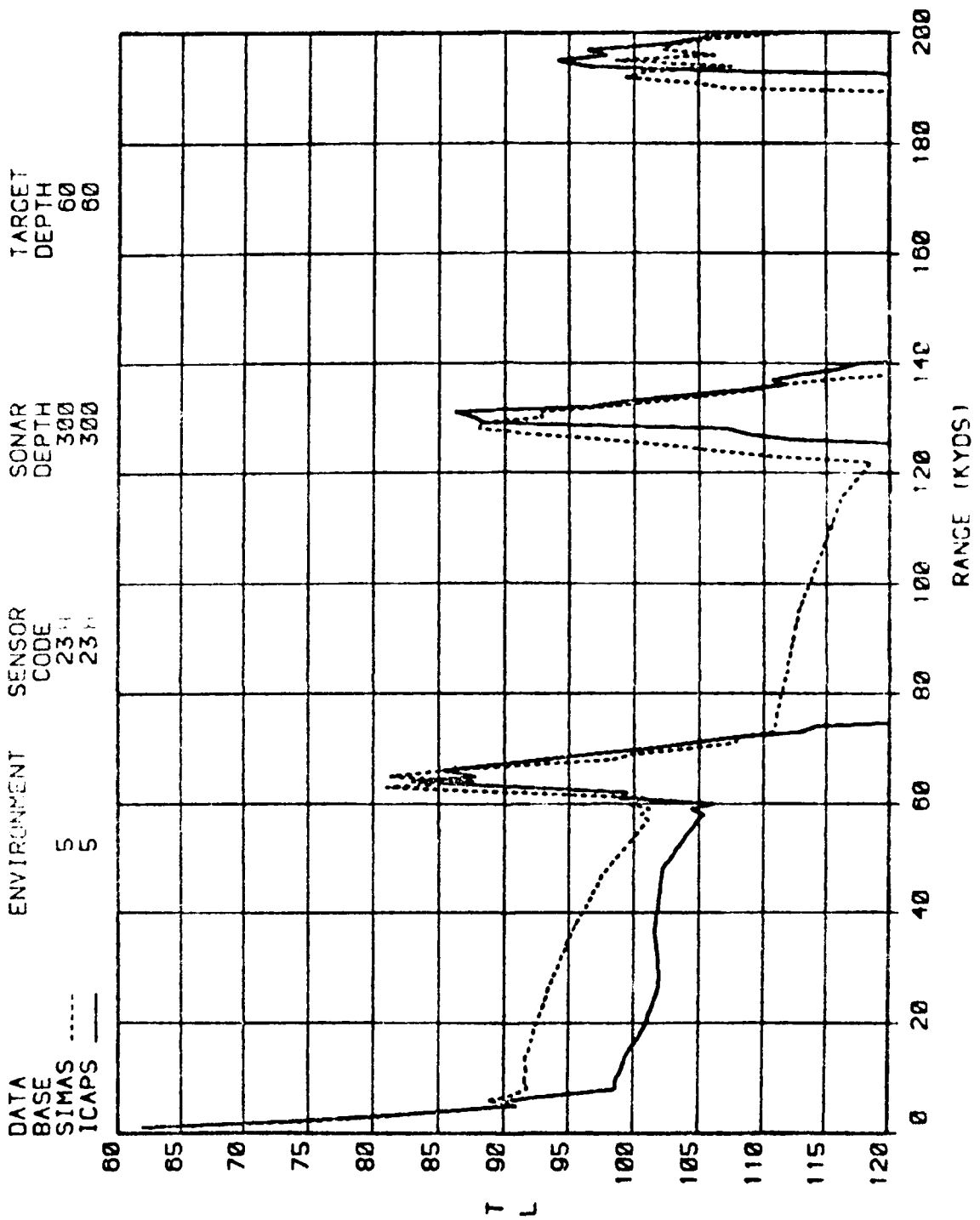

DATA BASE
SIMAS
ICAPS
ENVIRONMENT
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23L
SONAR DEPTH
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TARGET DEPTH
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600
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RANGE (KYDS)

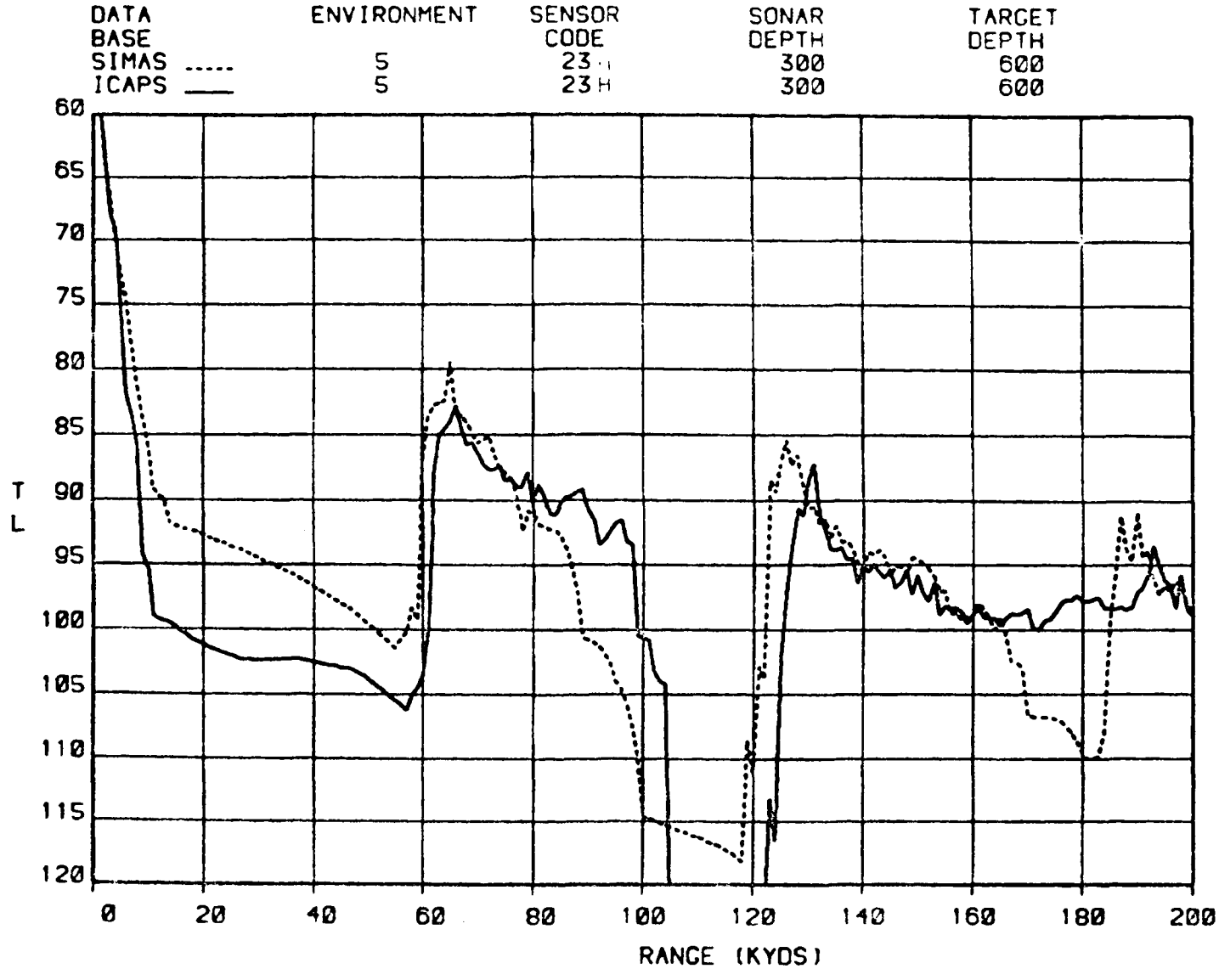

DATA
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ICAPS
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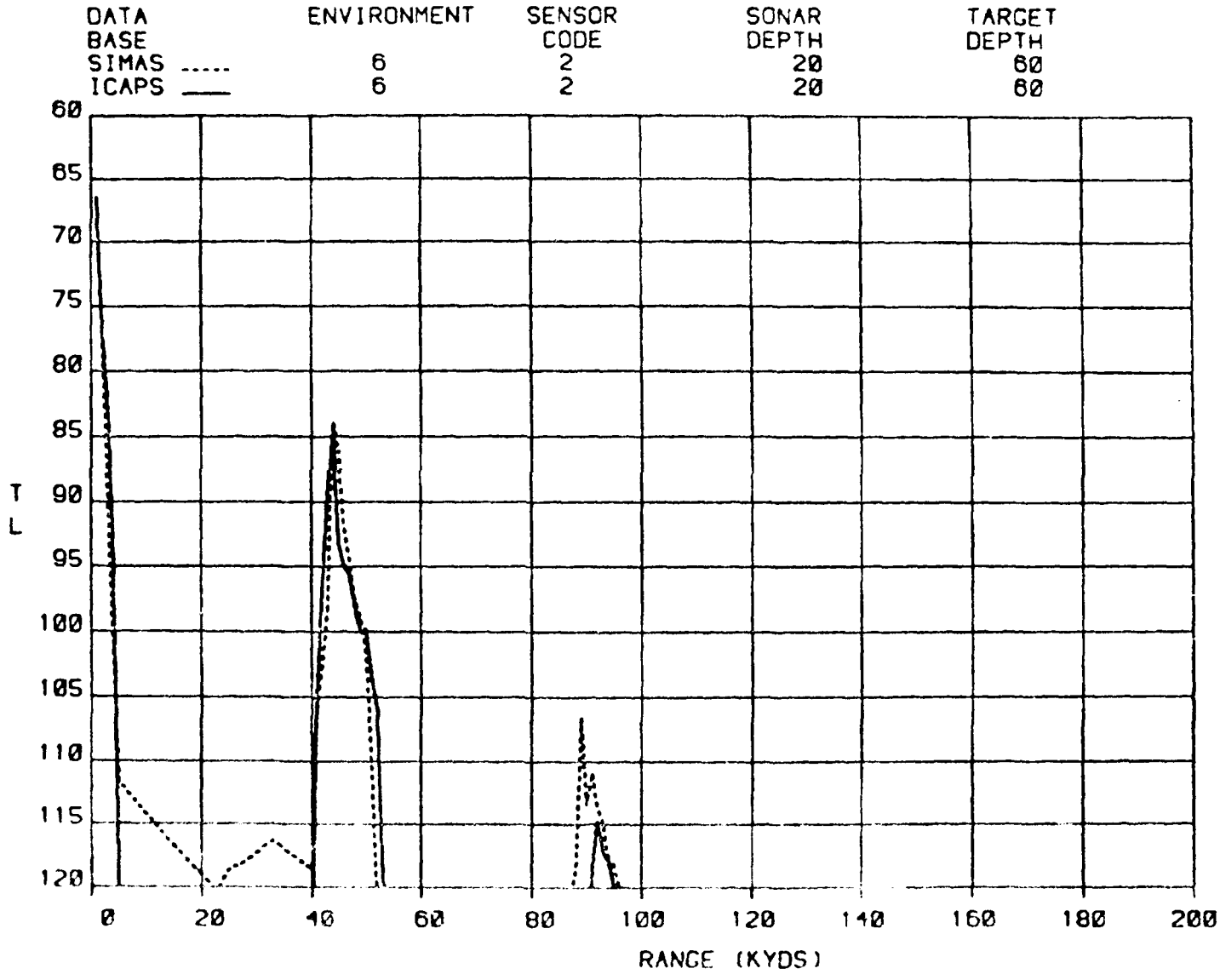

DATA BASE
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TARGET DEPTH
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RANGE (KYDS)
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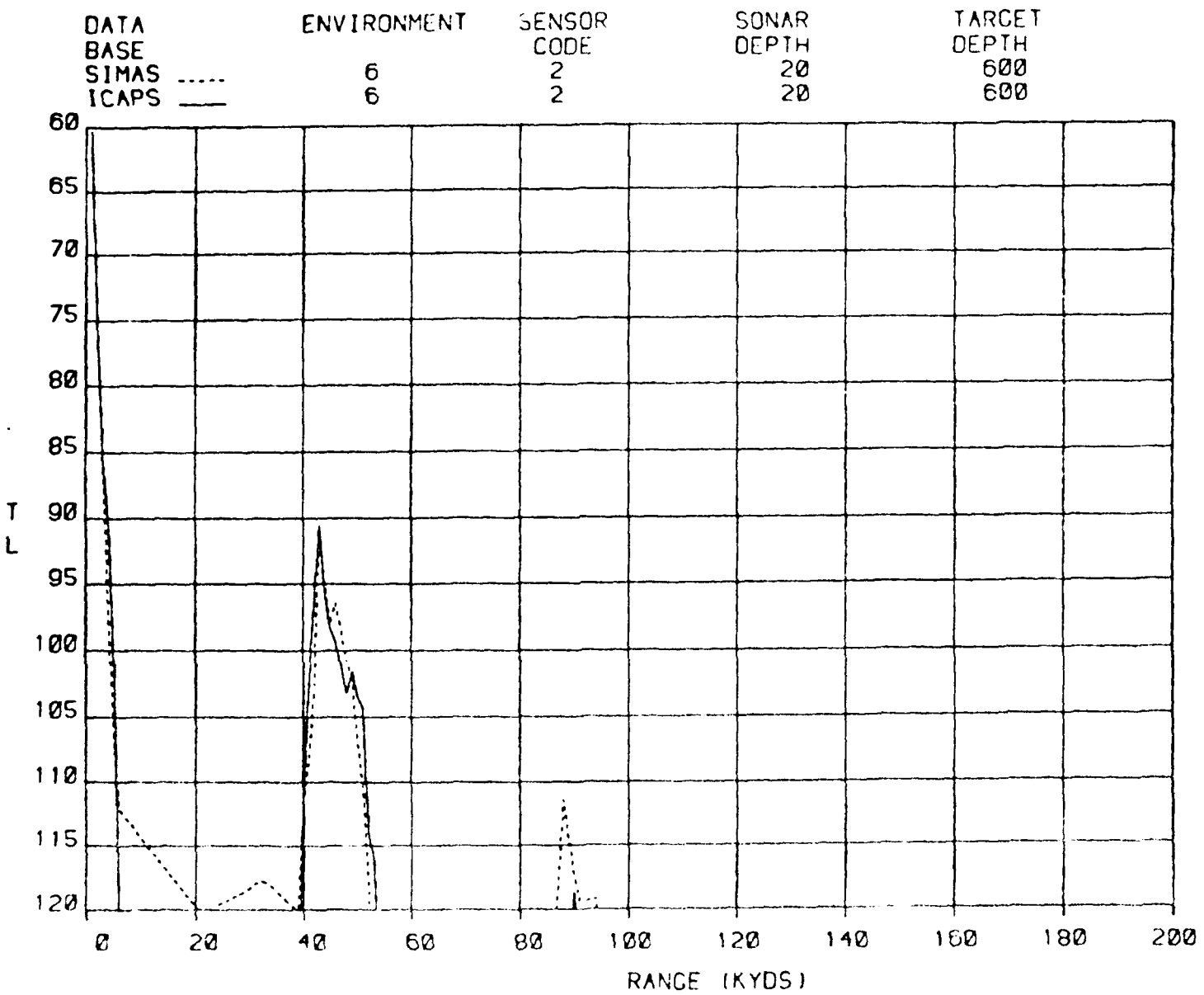

DATA BASE
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23..
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TARGET DEPTH
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RANGE (KYDS)

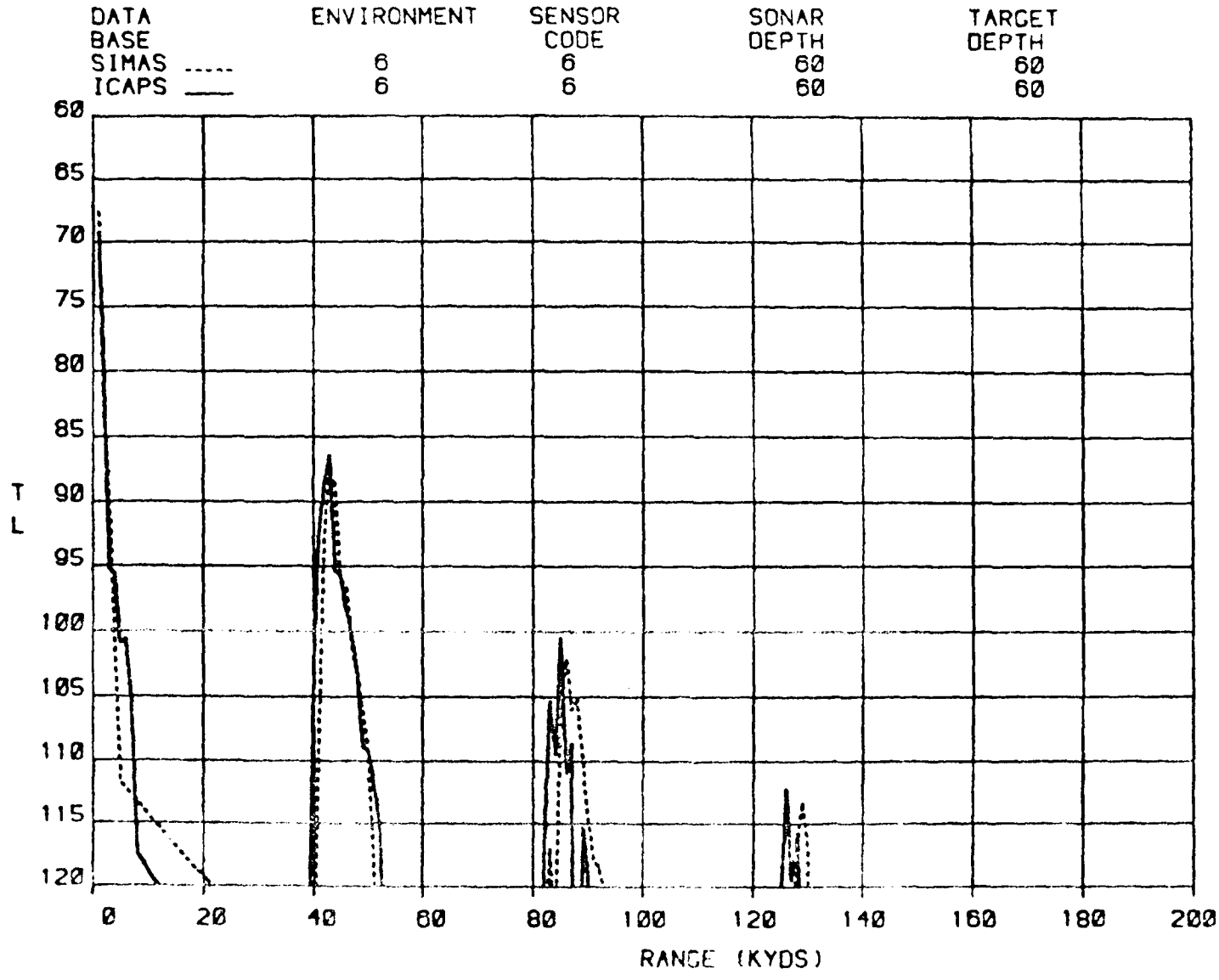

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
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SENSOR CODE
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TARGET DEPTH
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RANGE (KYDS)

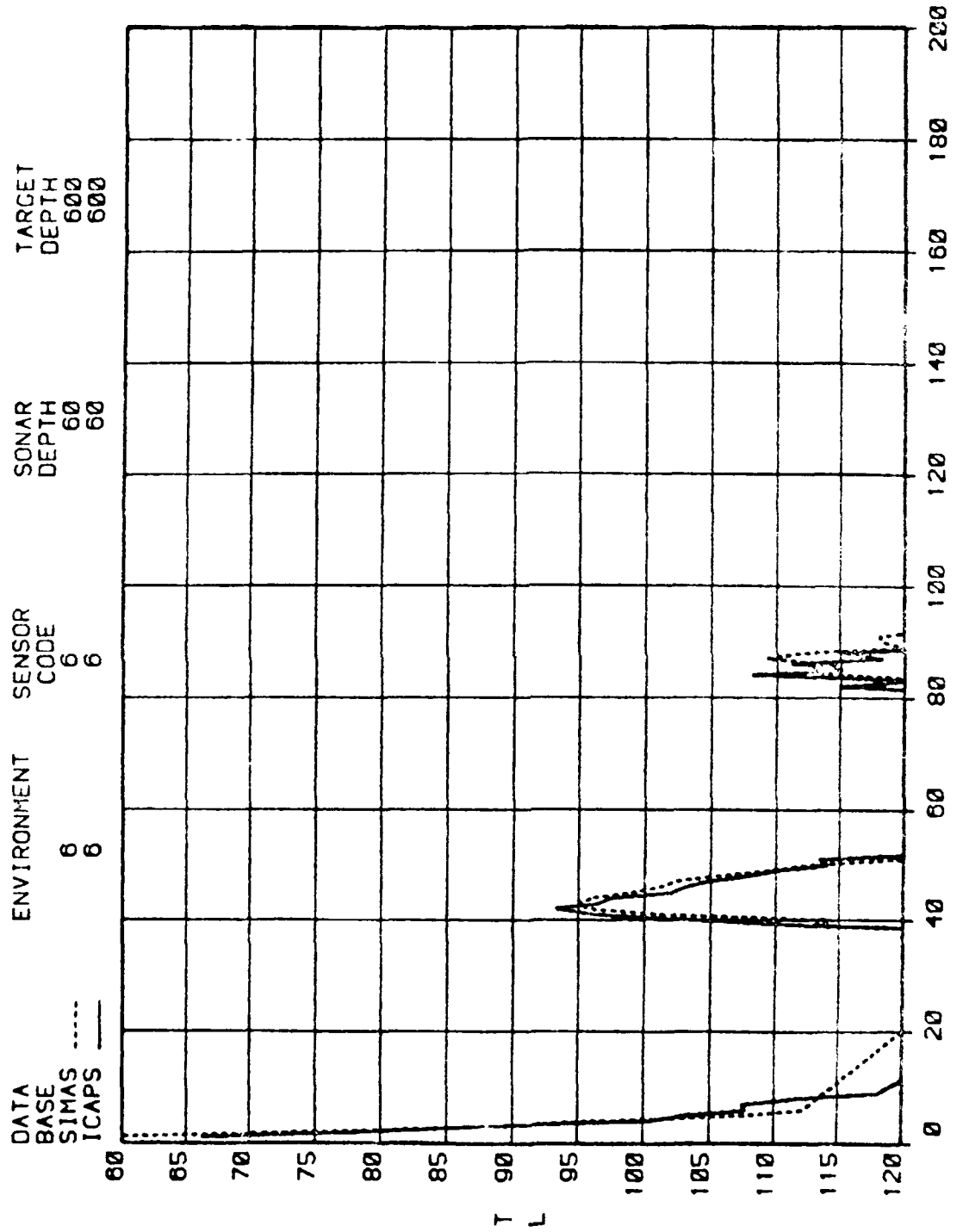

DATA BASE
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300
TARGET DEPTH
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RANGE (KYDS)
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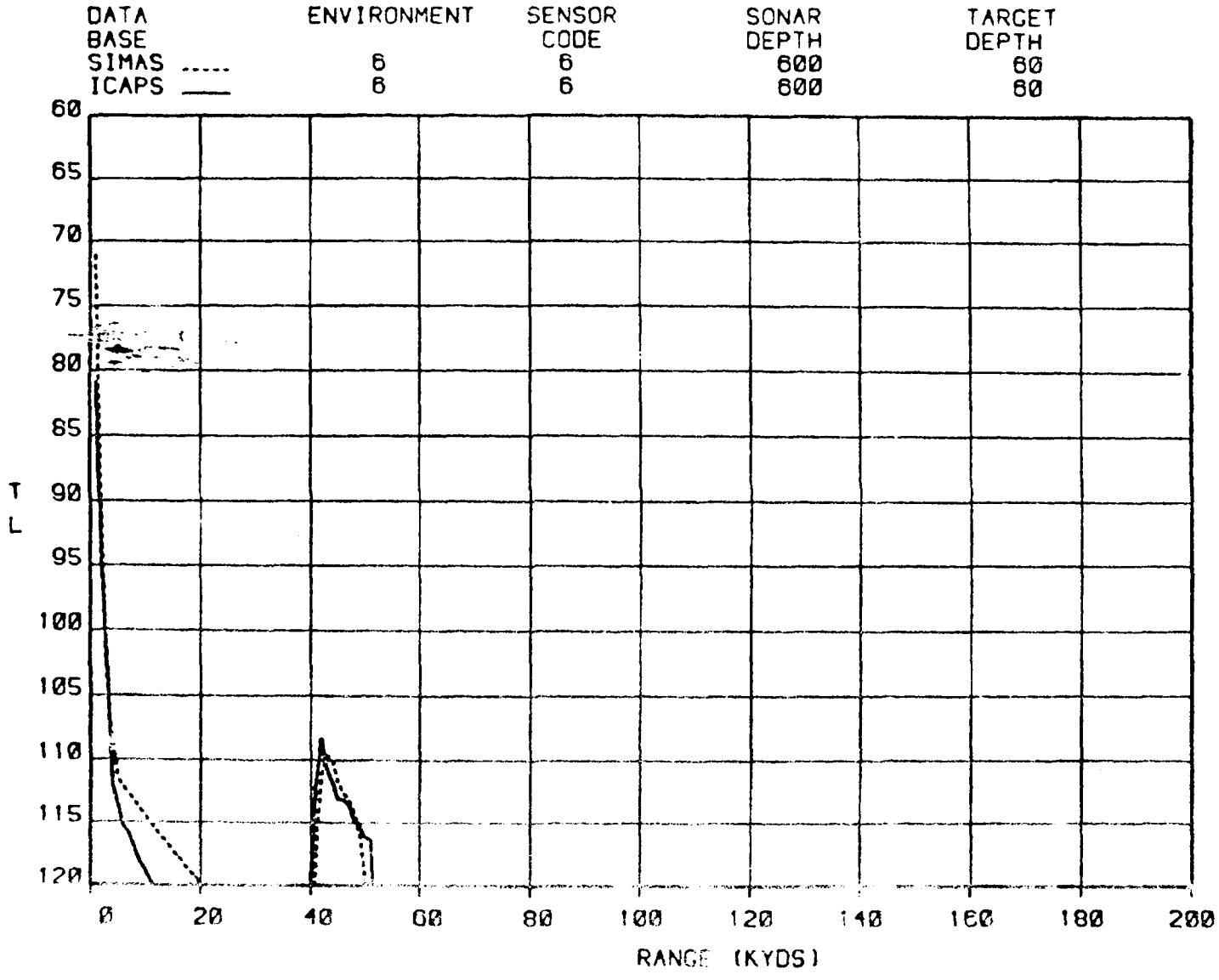

DATA BASE
ENVIRONMENT
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TARGET DEPTH
SIMAS ----- 5 23 I 300 600
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RANGE (KYDS)

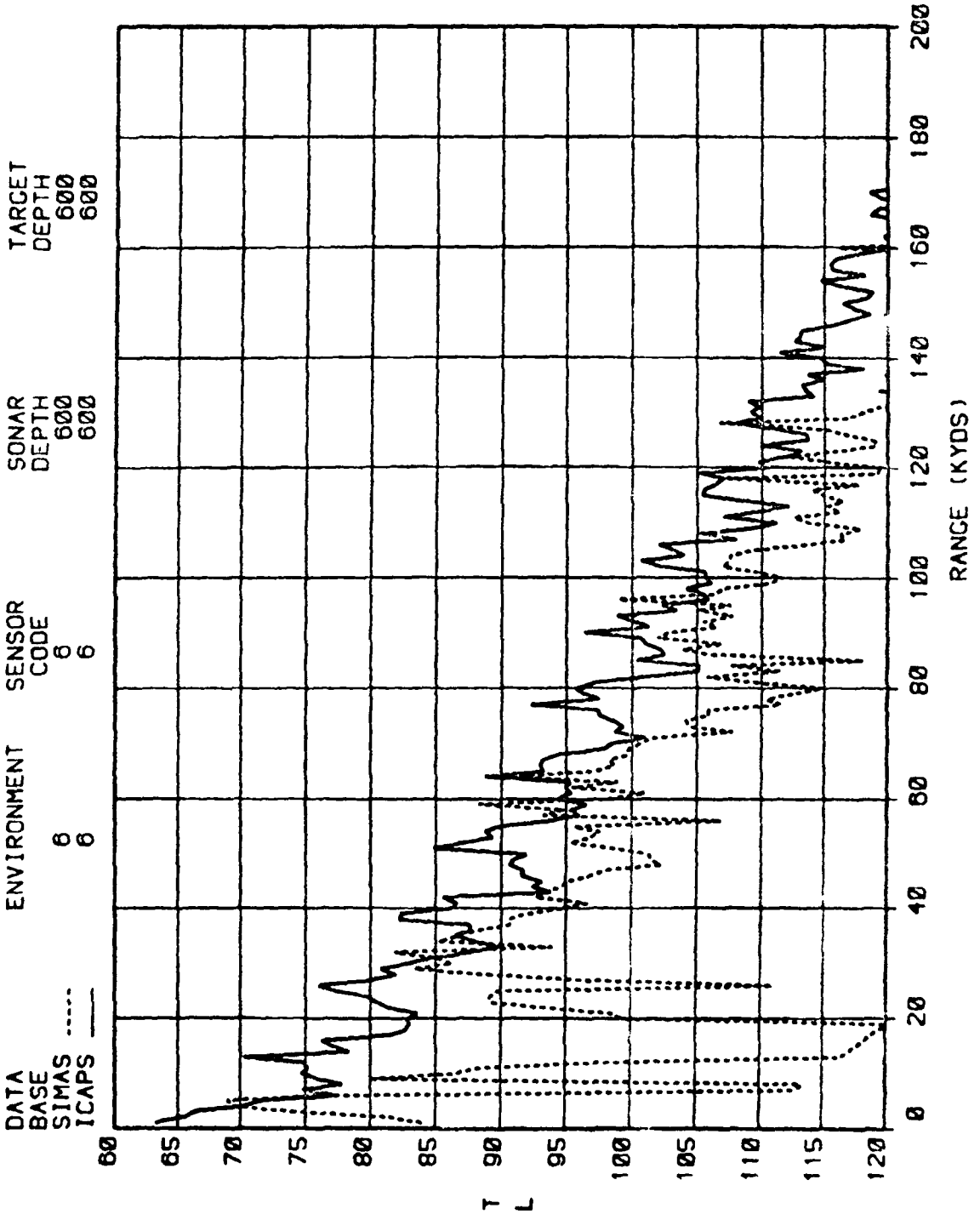

DATA BASE
ENVIRONMENT
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TARGET DEPTH
SIMAS ----- 6 2 20 60
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RANGE (KYDS)

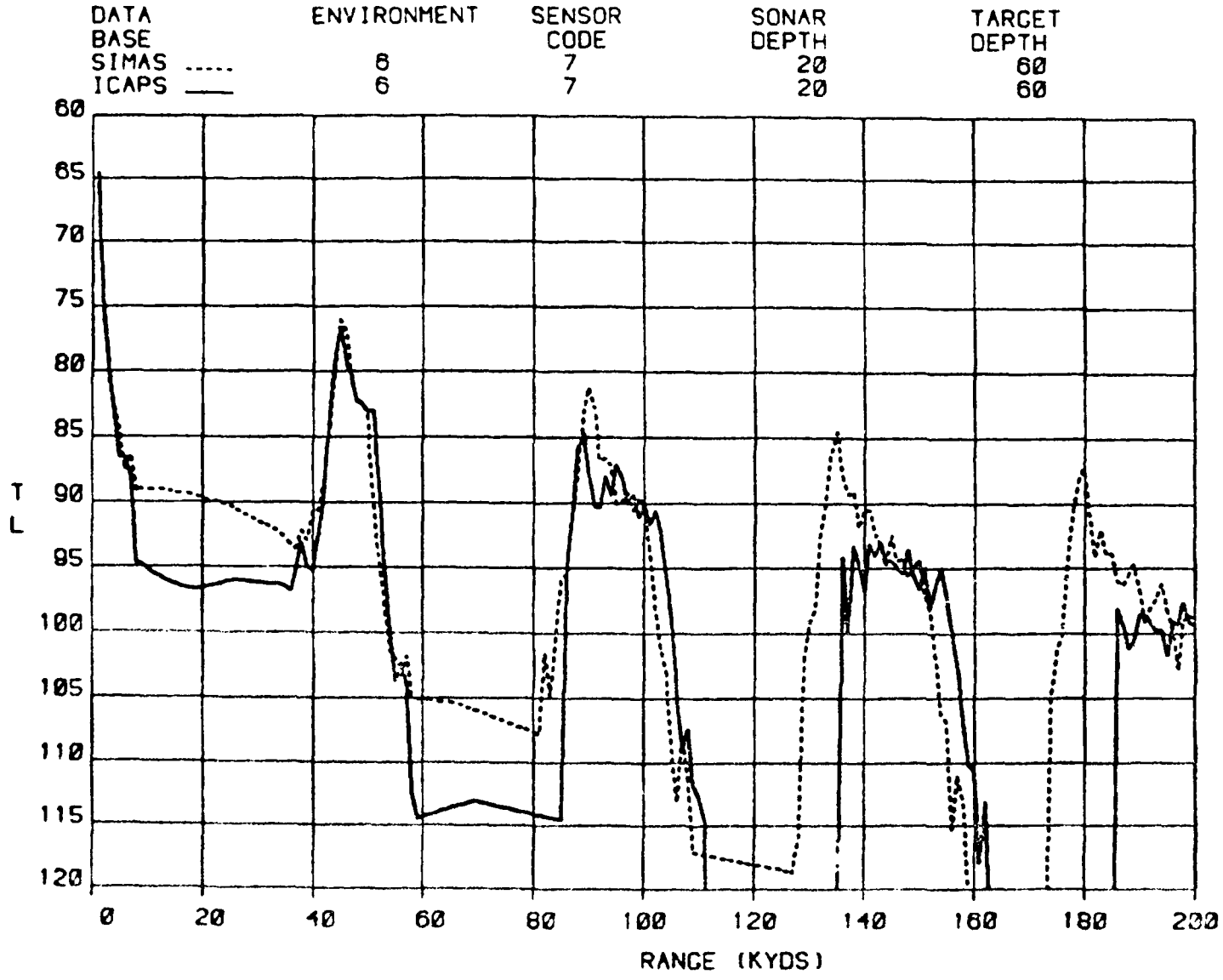

DATA BASE
ENVIRONMENT
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TARGET DEPTH
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RANGE (KYDS)

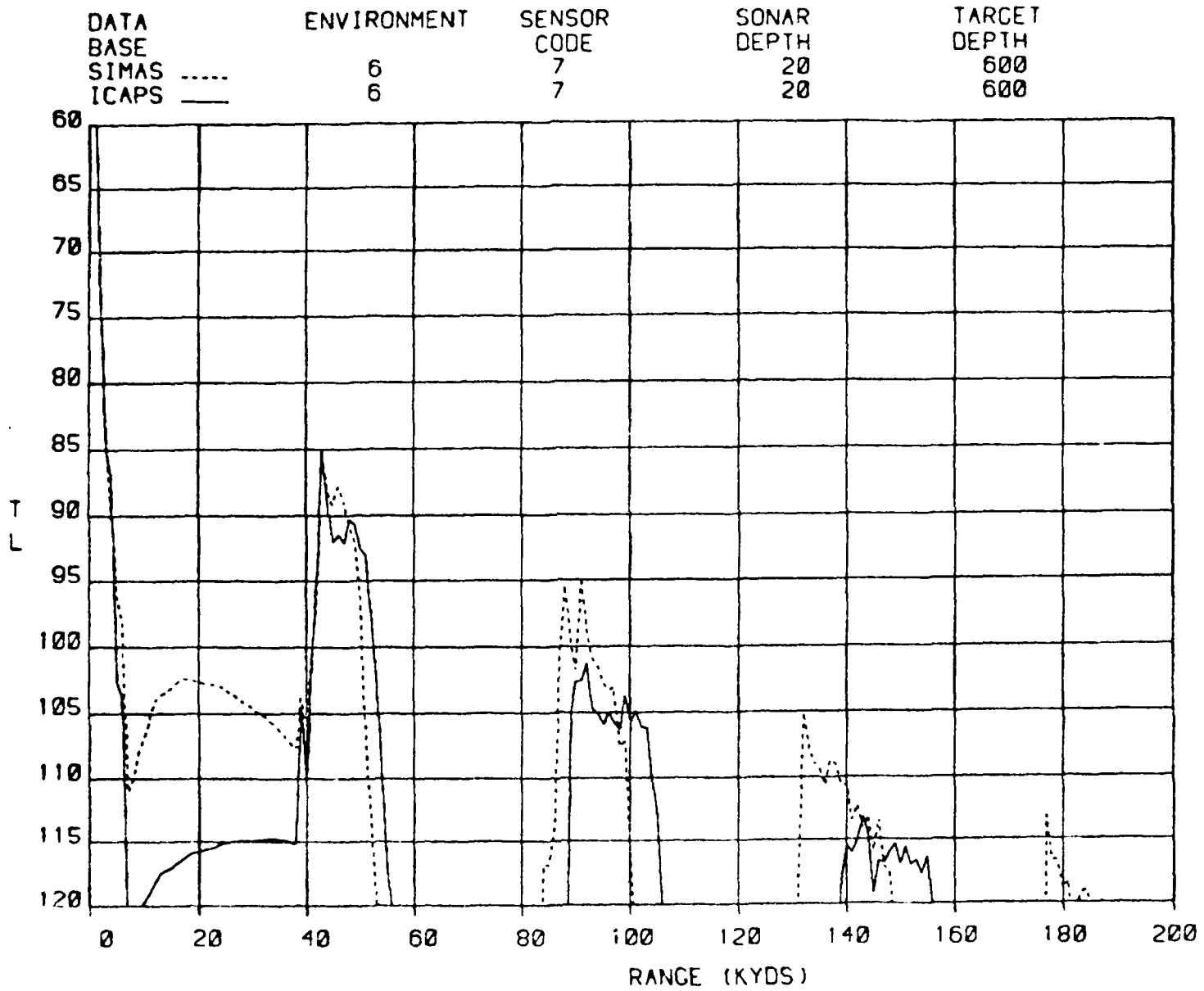

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 6 60 60
ICAPS ____ 6 6 60 60
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110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

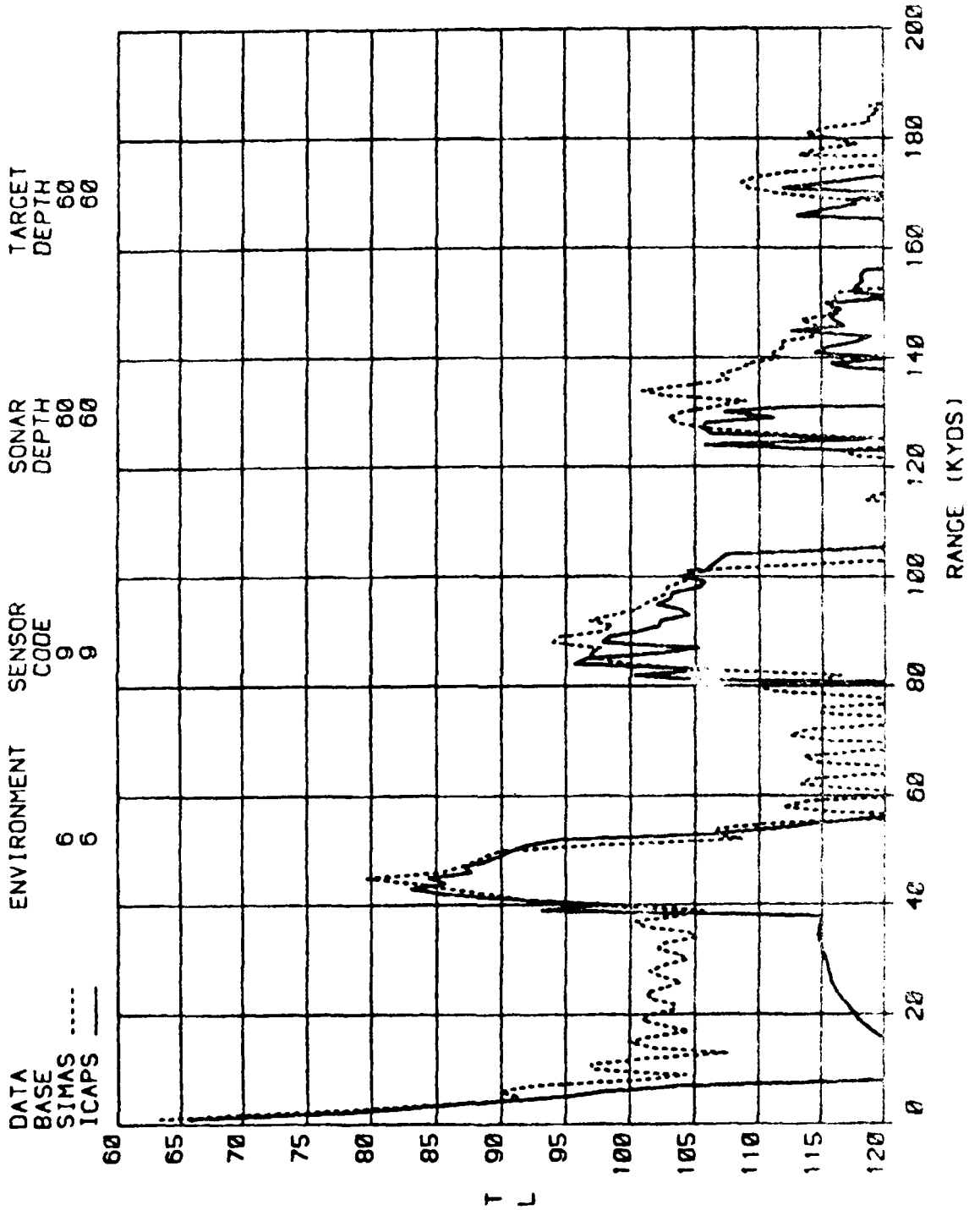

DATA BASE SIMAS ----- ICAPS ——
ENVIRONMENT 6 6
SENSOR CODE 6 6
SONAR DEPTH 60 60
TARGET DEPTH 600 600
T L
RANGE (KYDS)
60 65 70 75 80 85 90 95 100 105 110 115 120
0 20 40 60 80 100 120 140 160 180 200

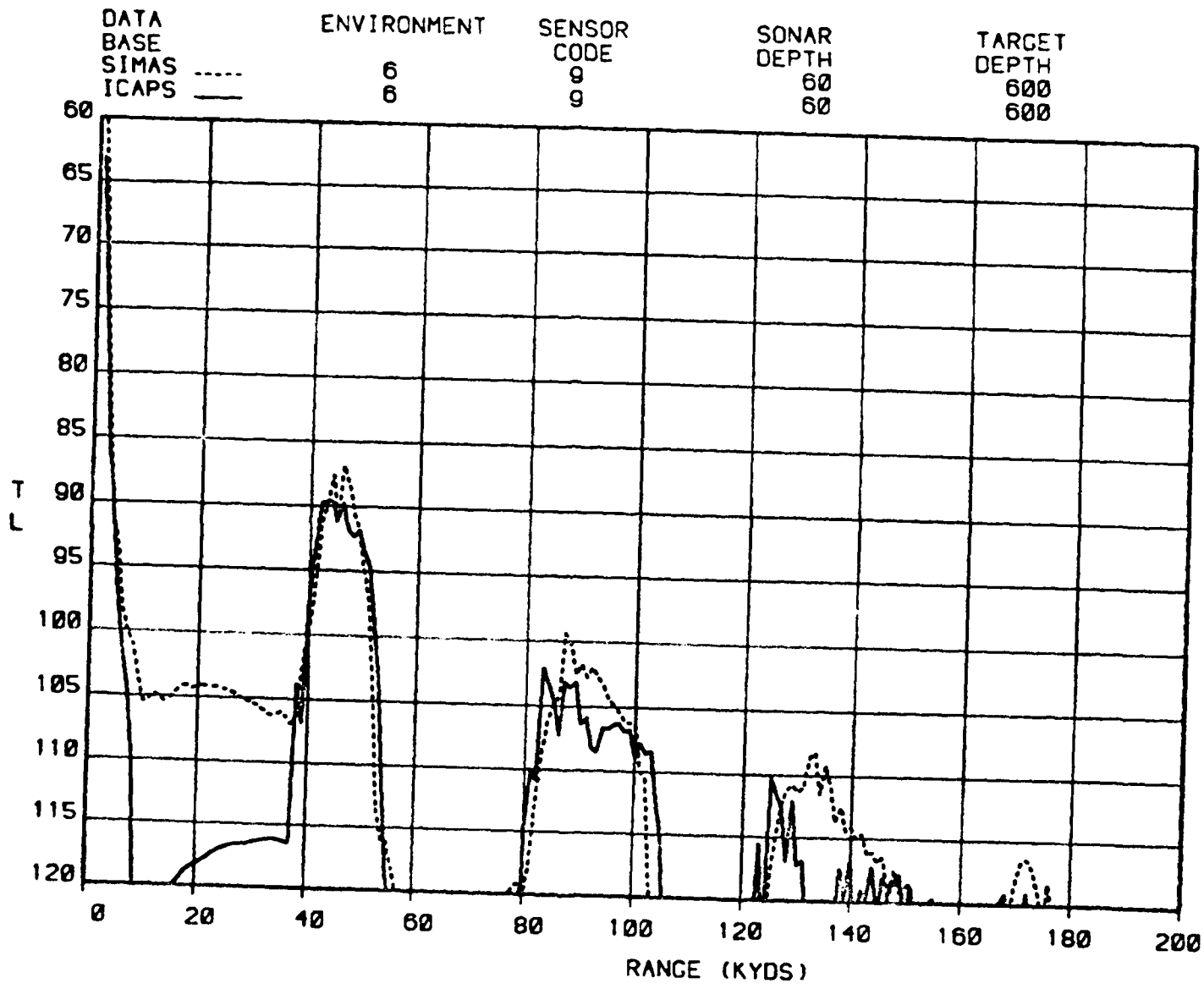

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 6 600 60
ICAPS ____ 6 6 600 60
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

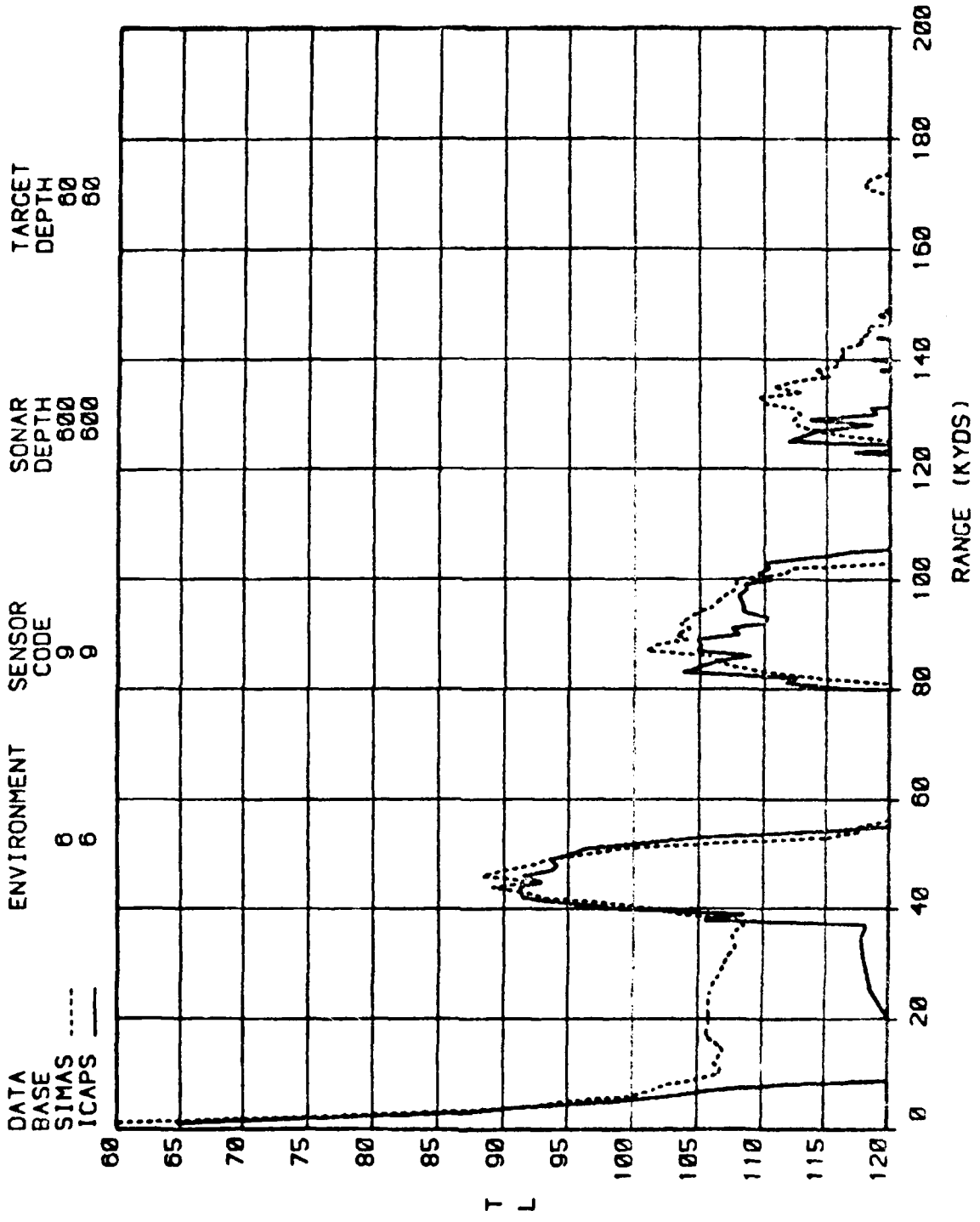

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
6
6
SENSOR CODE
6
6
SONAR DEPTH
600
600
TARGET DEPTH
600
600
T L
60
65
70
75
80
85
90
95
100
105
110
115
120
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

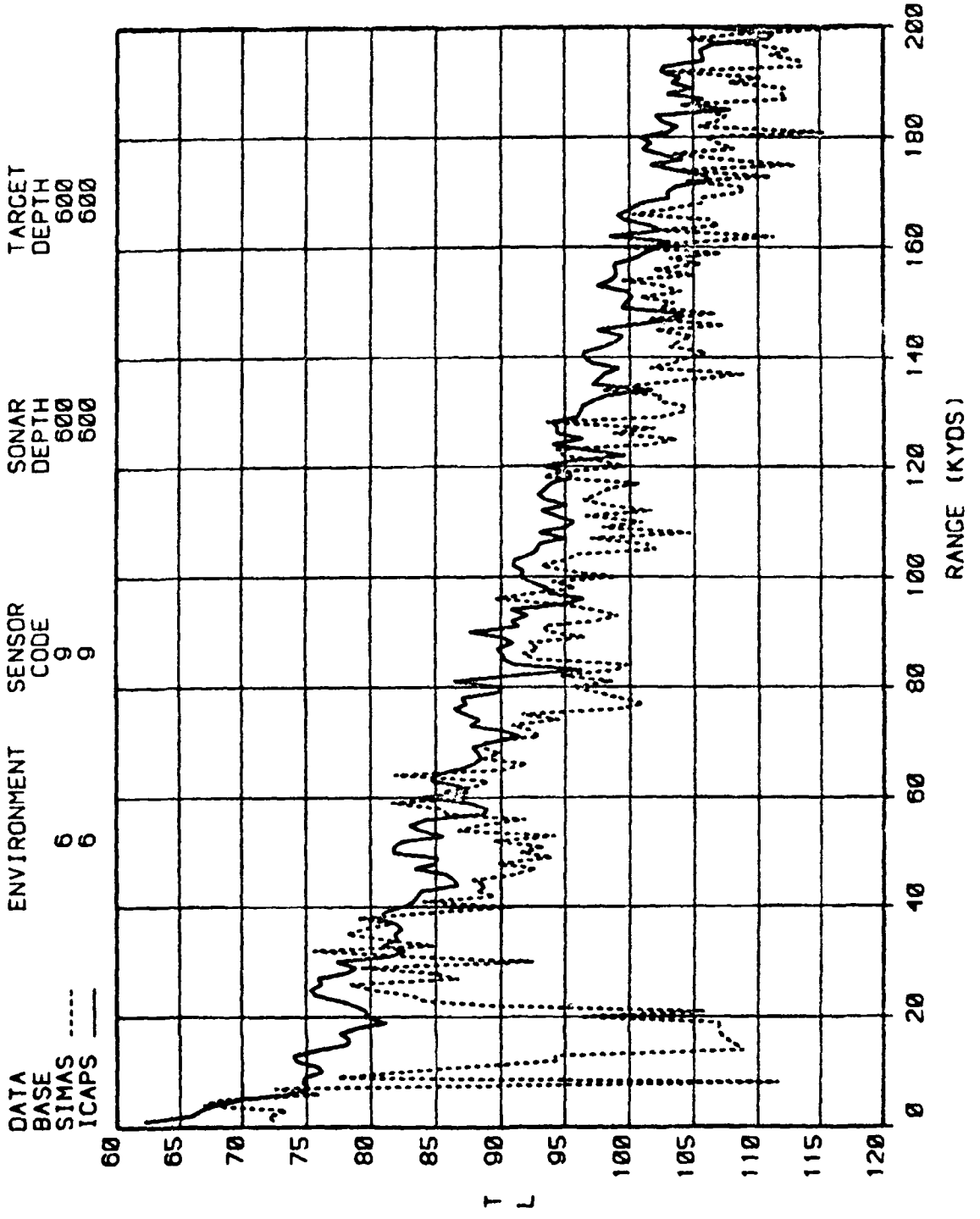

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 7 20 60
ICAPS ____ 6 7 20 60
60
65
70
75
80
85
90
95
100
105
110
115
120
TL
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

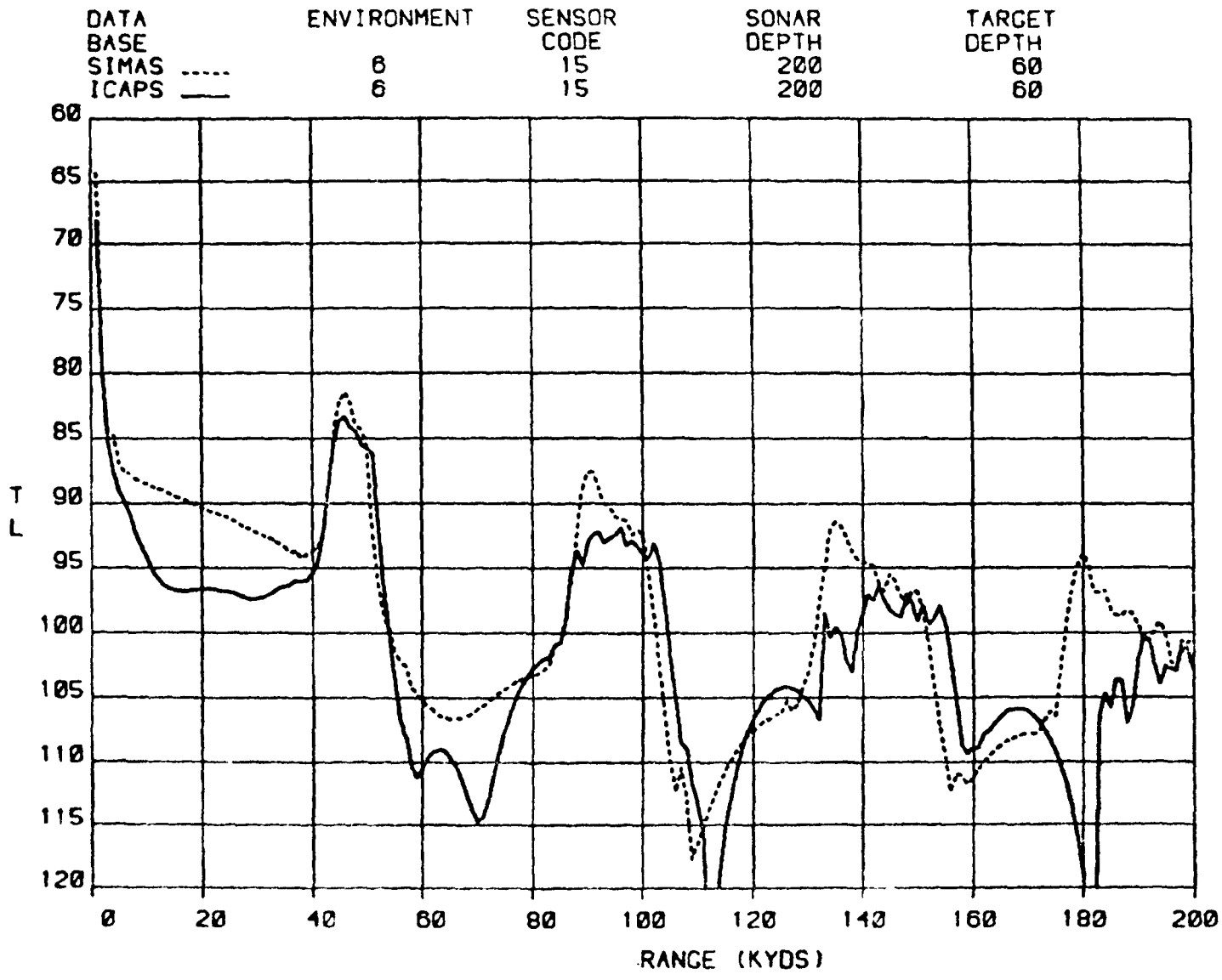

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 7 20 600
ICAPS ____ 6 7 20 600
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

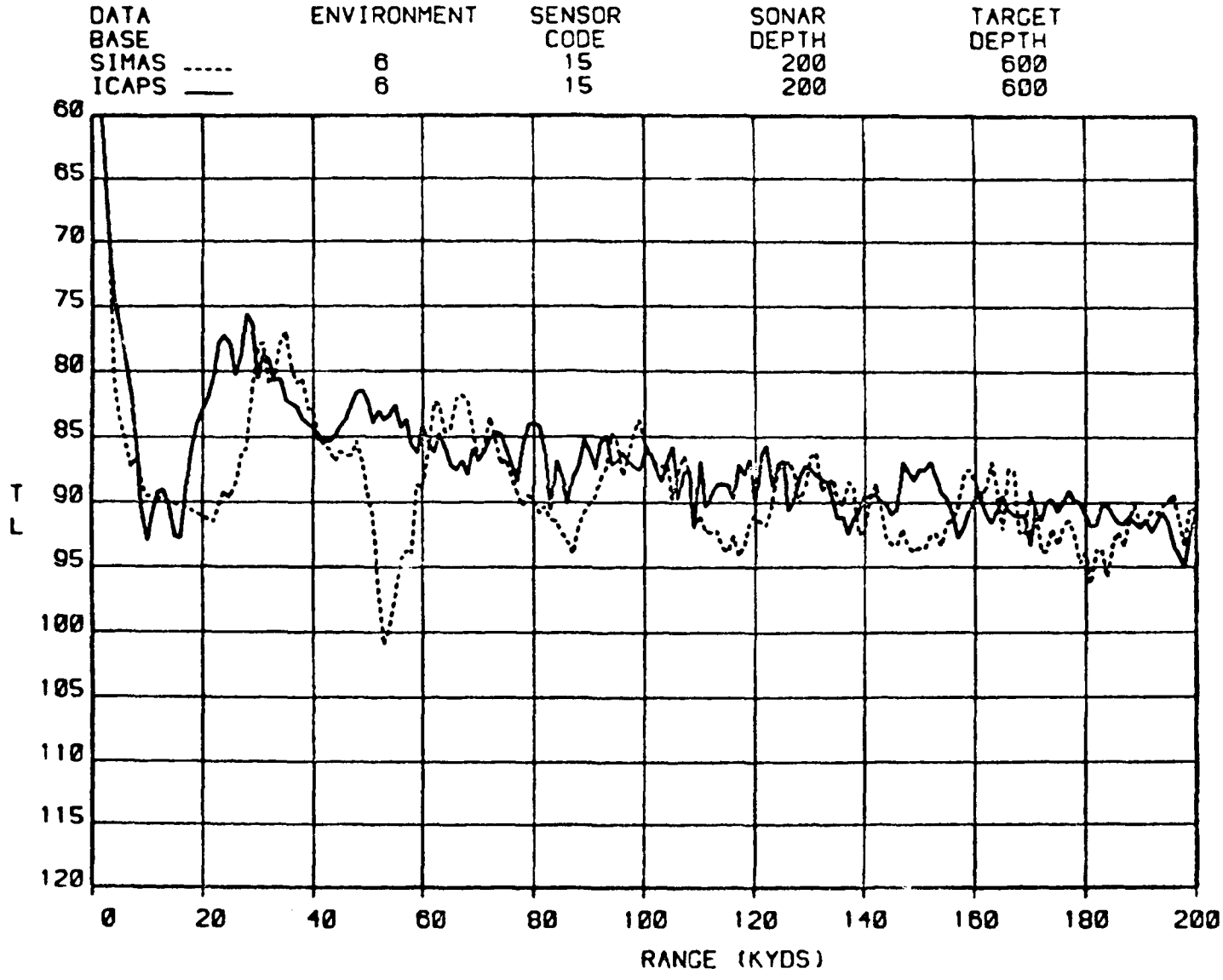

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT 6 6
SENSOR CODE 9 9
SONAR DEPTH 60 60
TARGET DEPTH 60 60
T L
RANGE (KYDS)
60
65
70
75
80
85
90
95
100
105
110
115
120
0
20
40
60
80
100
120
140
160
180
200

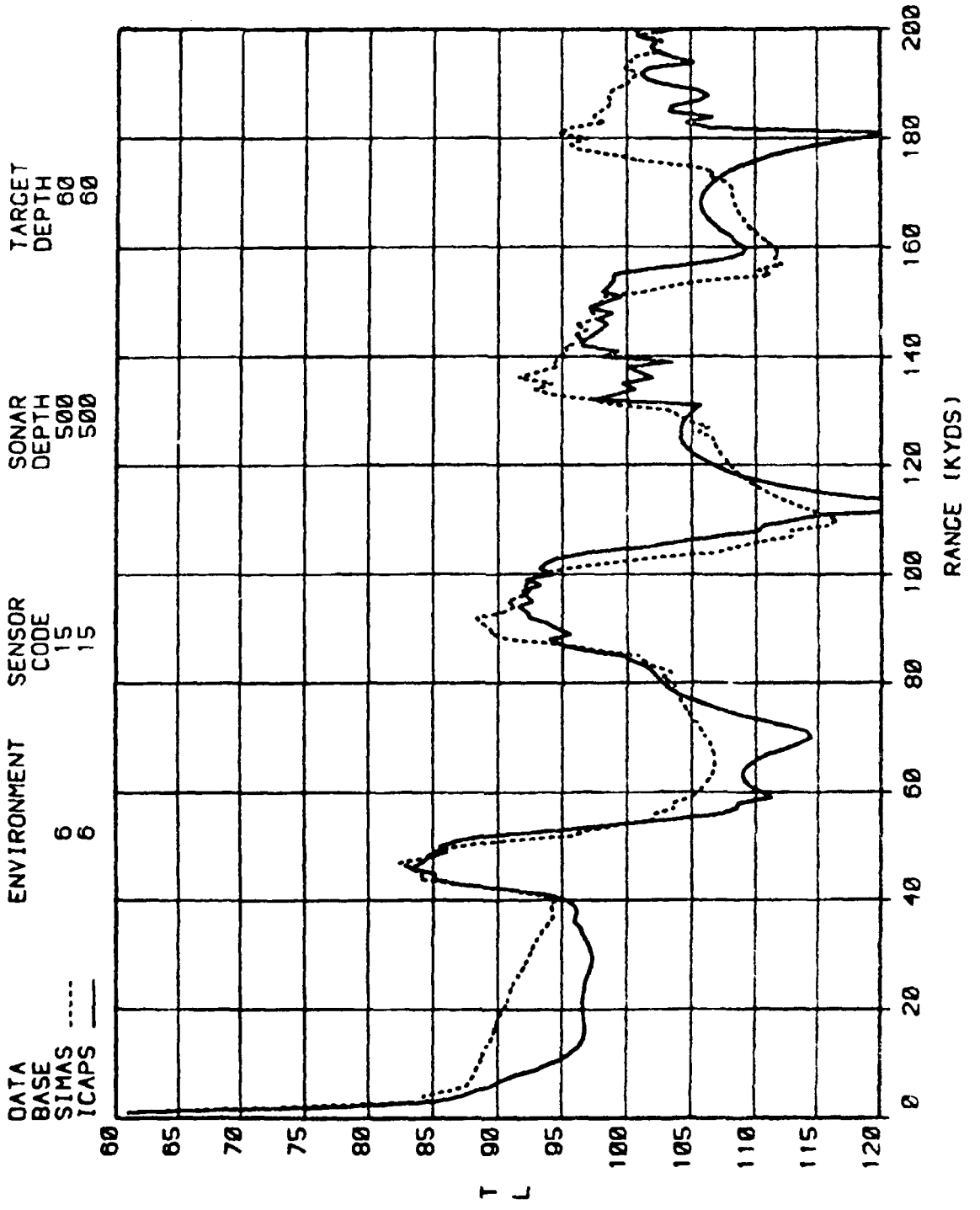

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 9 60 600
ICAPS —— 6 9 60 600
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

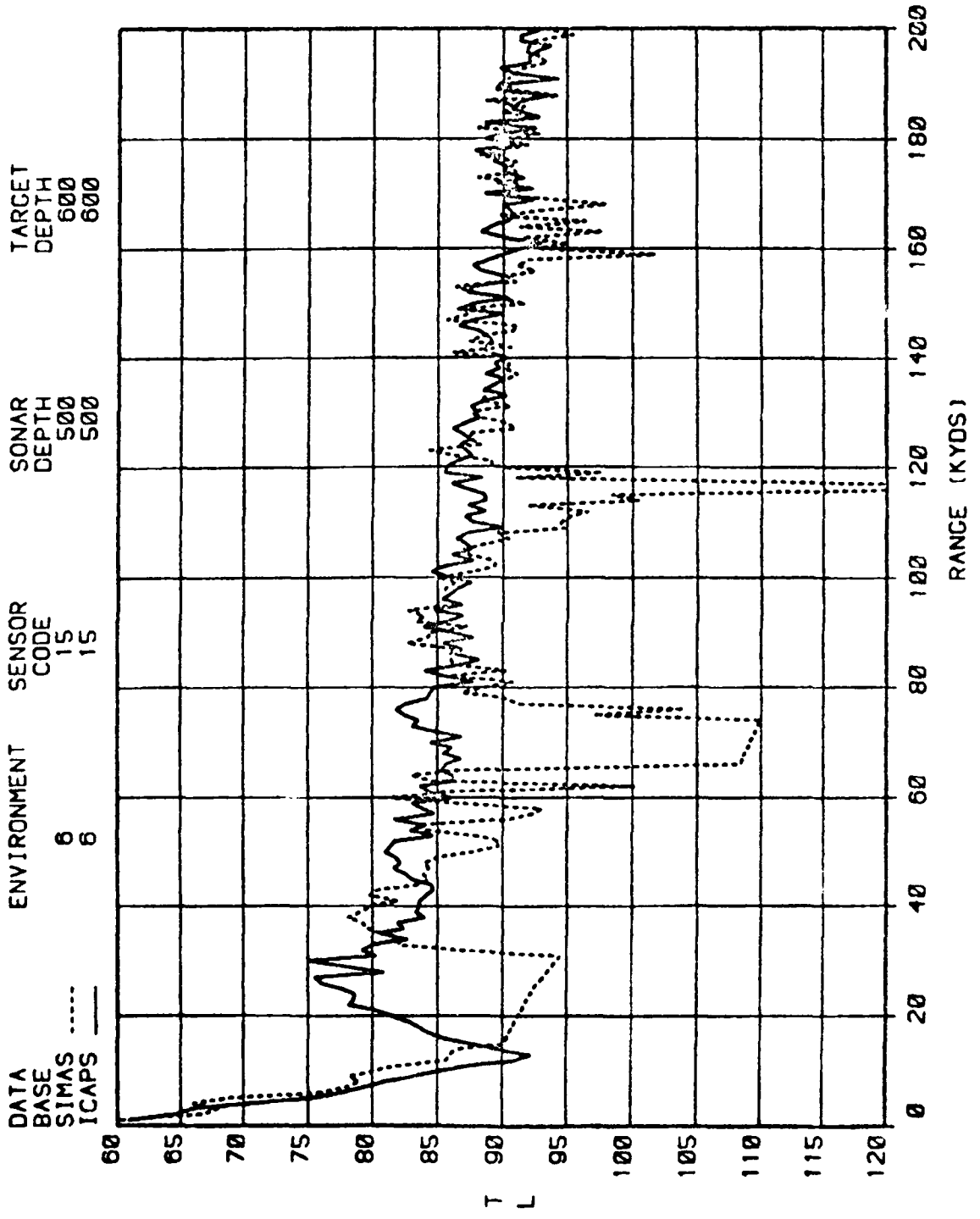

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT 8 6
SENSOR CODE 9 9
SONAR DEPTH 600 600
TARGET DEPTH 80 80
T L
RANGE (KYDS)
60
65
70
75
80
85
90
95
100
105
110
115
120
0
20
40
60
80
100
120
140
160
180
200

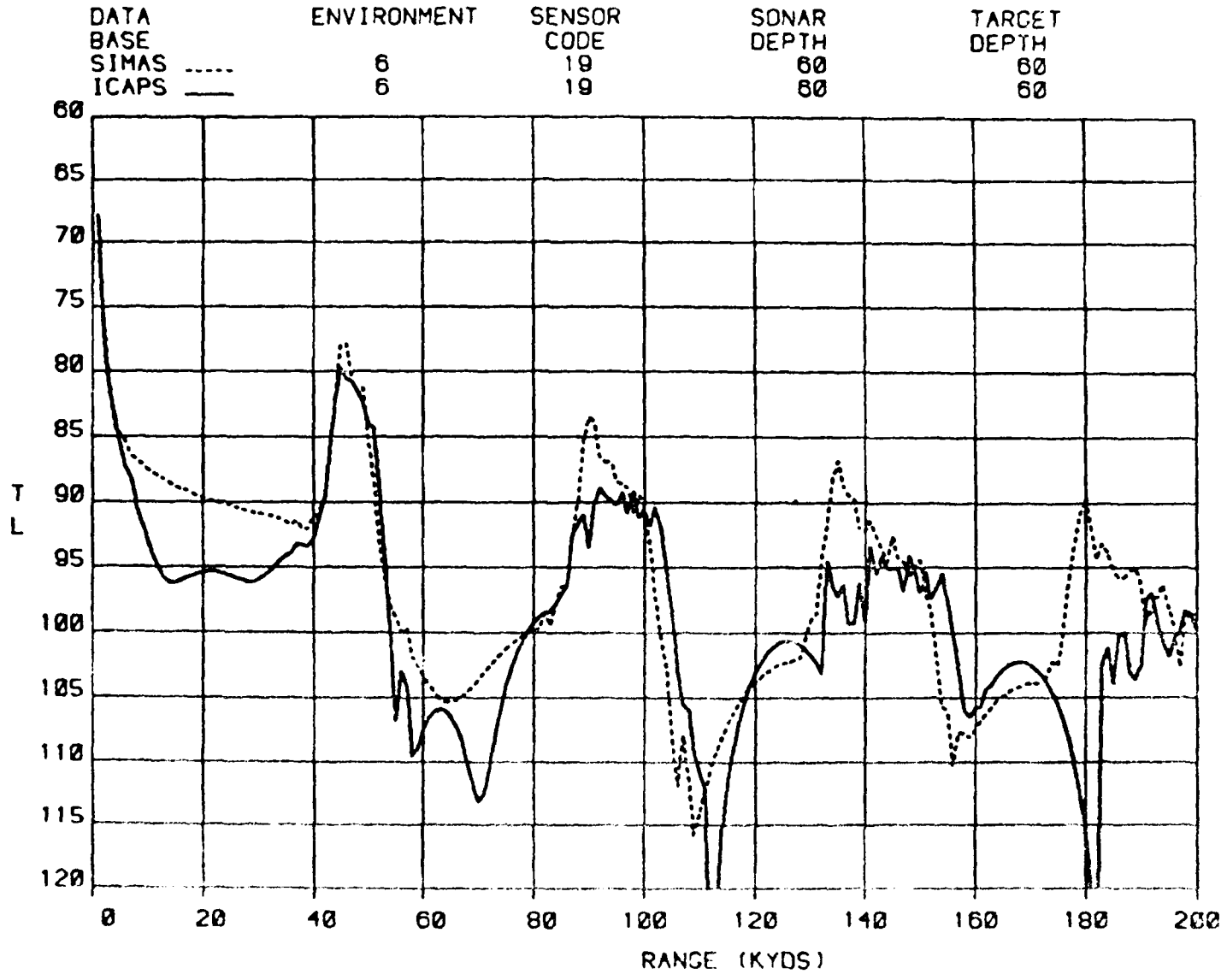

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
6
6
SENSOR CODE
9
9
SONAR DEPTH
600
600
TARGET DEPTH
600
600
T L
60
65
70
75
80
85
90
95
100
105
110
115
120
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

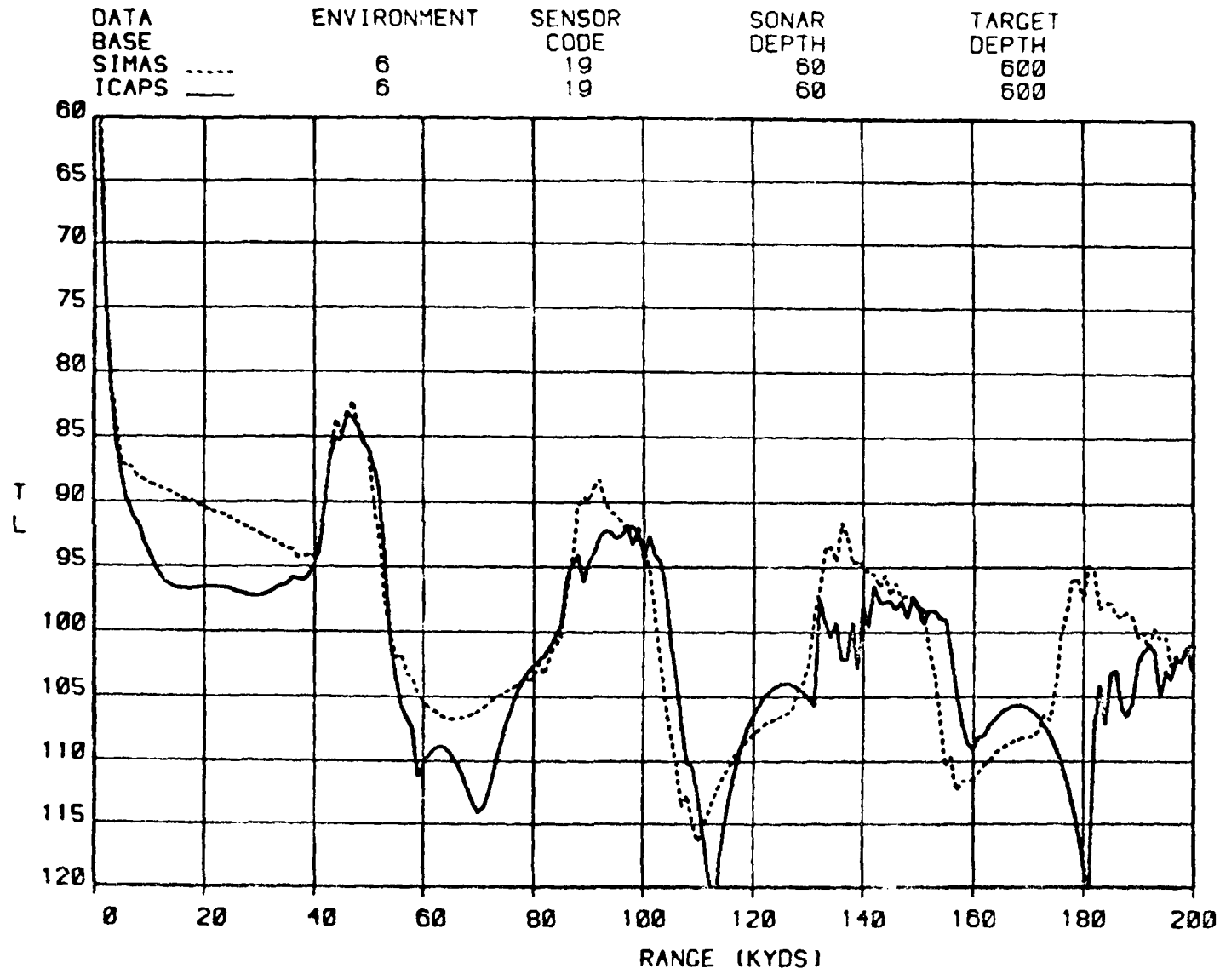

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 15 200 60
ICAPS —— 6 15 200 60
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

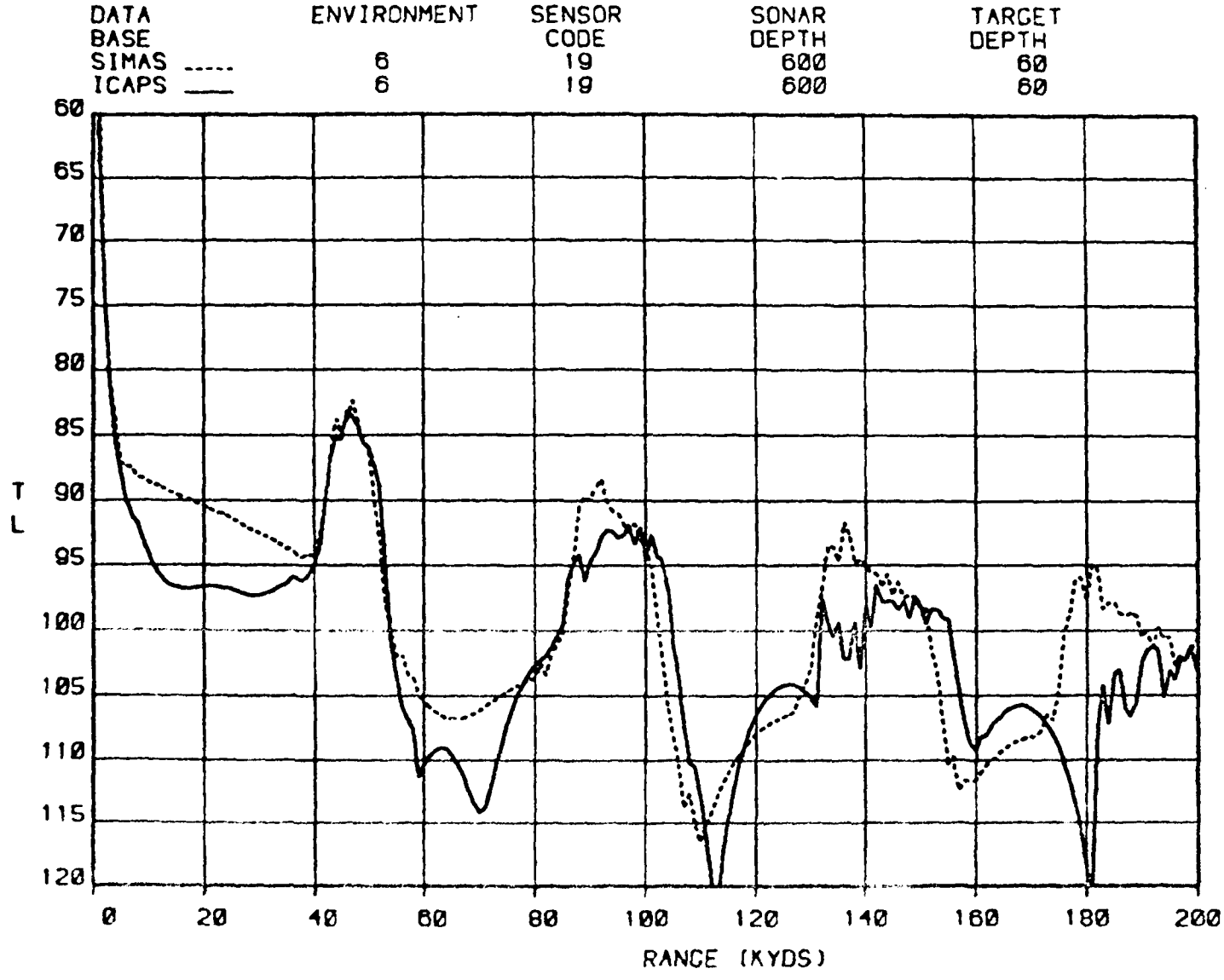

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 15 200 600
ICAPS ____ 6 15 200 600
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

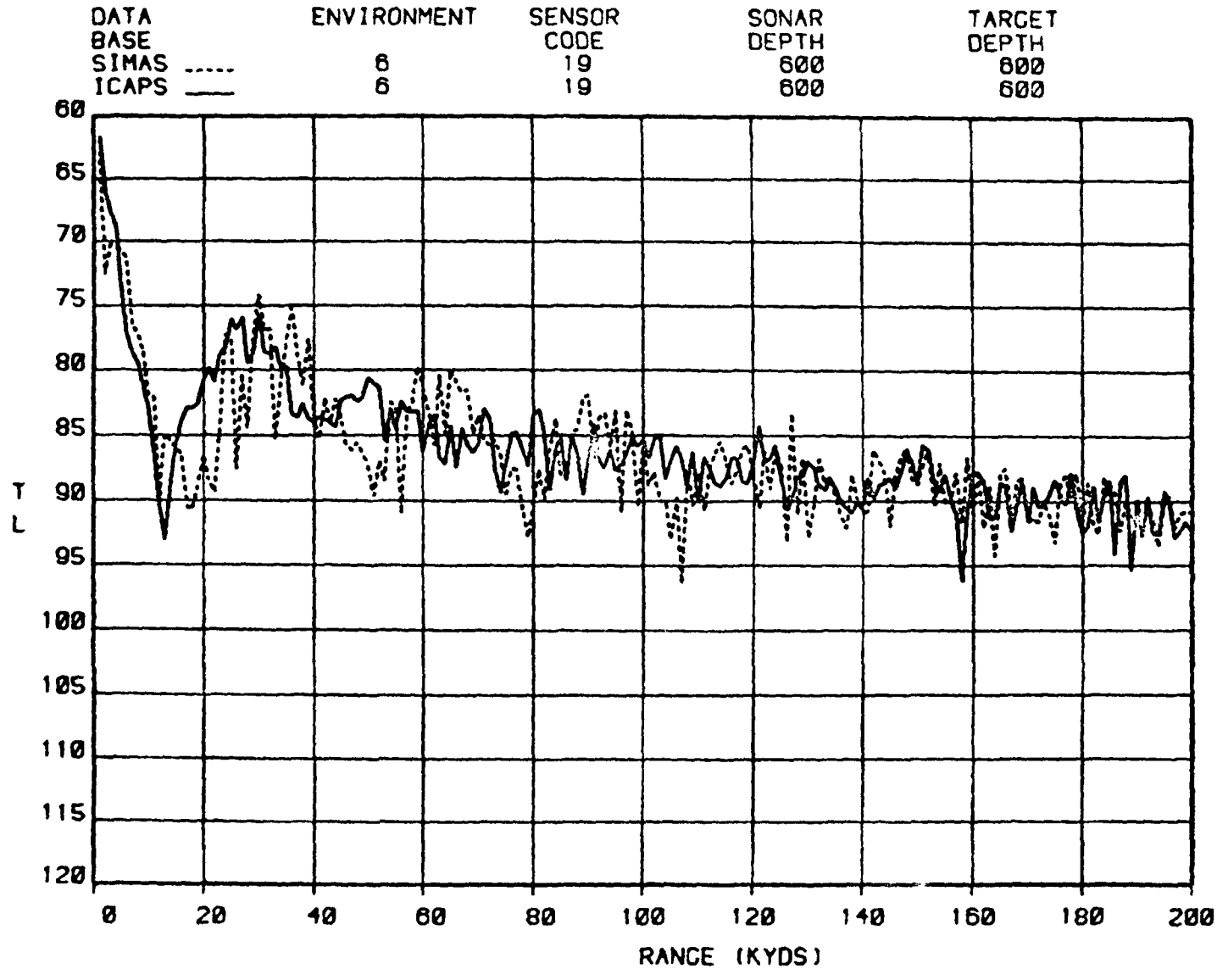

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
6
6
SENSOR CODE
15
15
SONAR DEPTH
500
500
TARGET DEPTH
60
60
T L
60
65
70
75
80
85
90
95
100
105
110
115
120
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

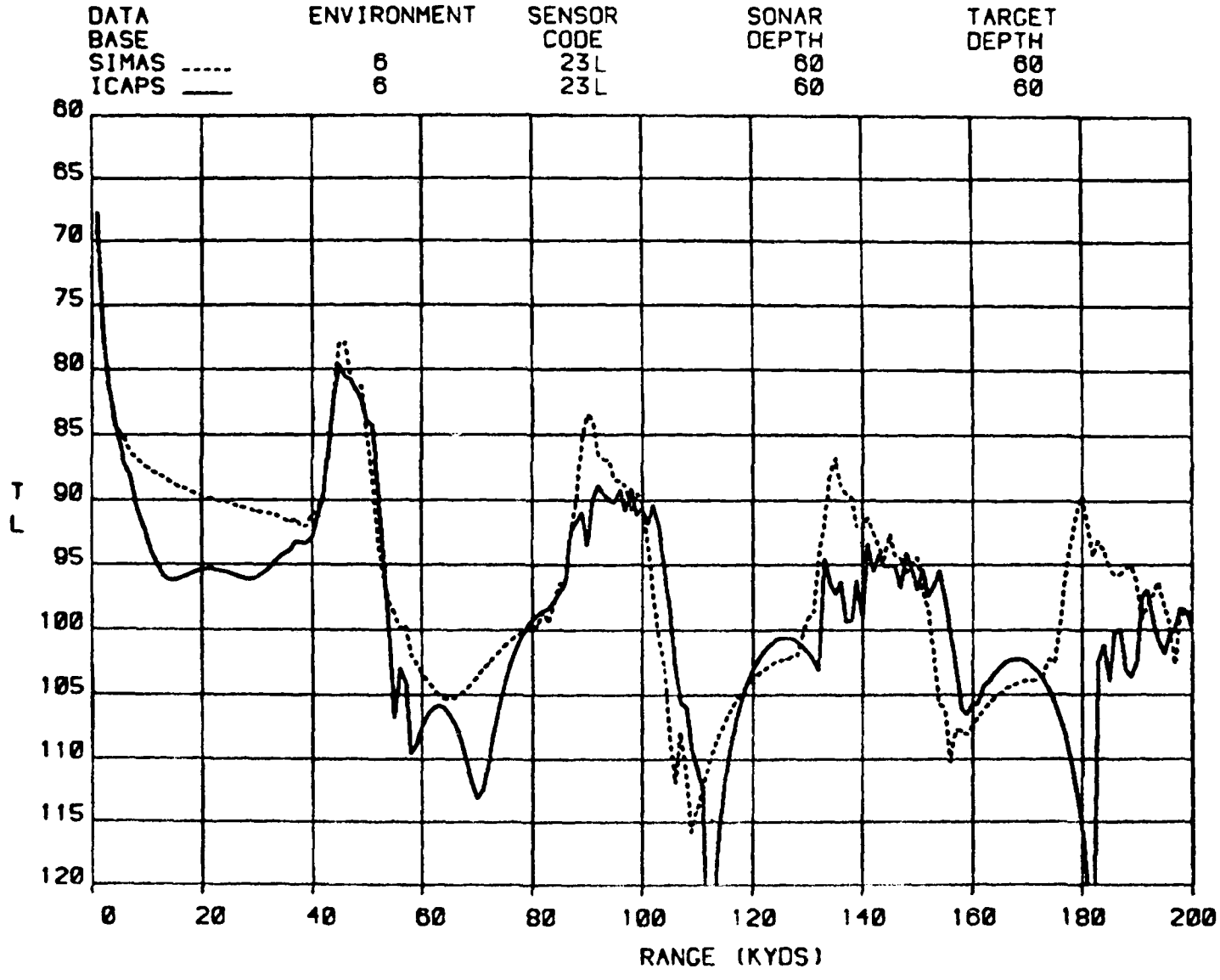

DATA BASE ENVIRONMENT SENSOR CODE SONAR DEPTH TARGET DEPTH
SIMAS ----- 6 15 500 600
ICAPS ——— 6 15 500 600
60 65 70 75 80 85 90 95 100 105 110 115 120
T L
0 20 40 60 80 100 120 140 160 180 200
RANGE (KYDS)

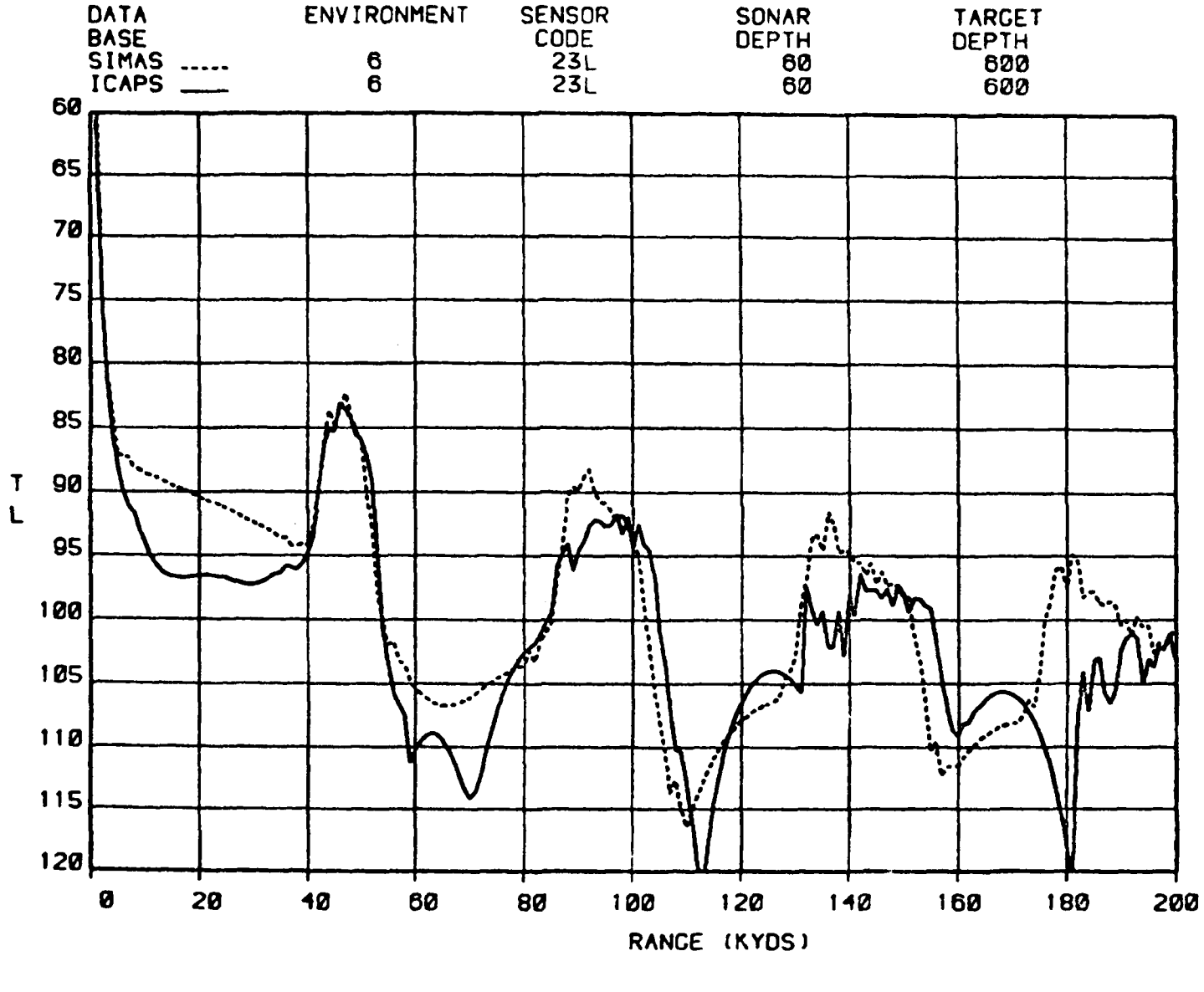

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 19 60 60
ICAPS ____ 6 19 60 60
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

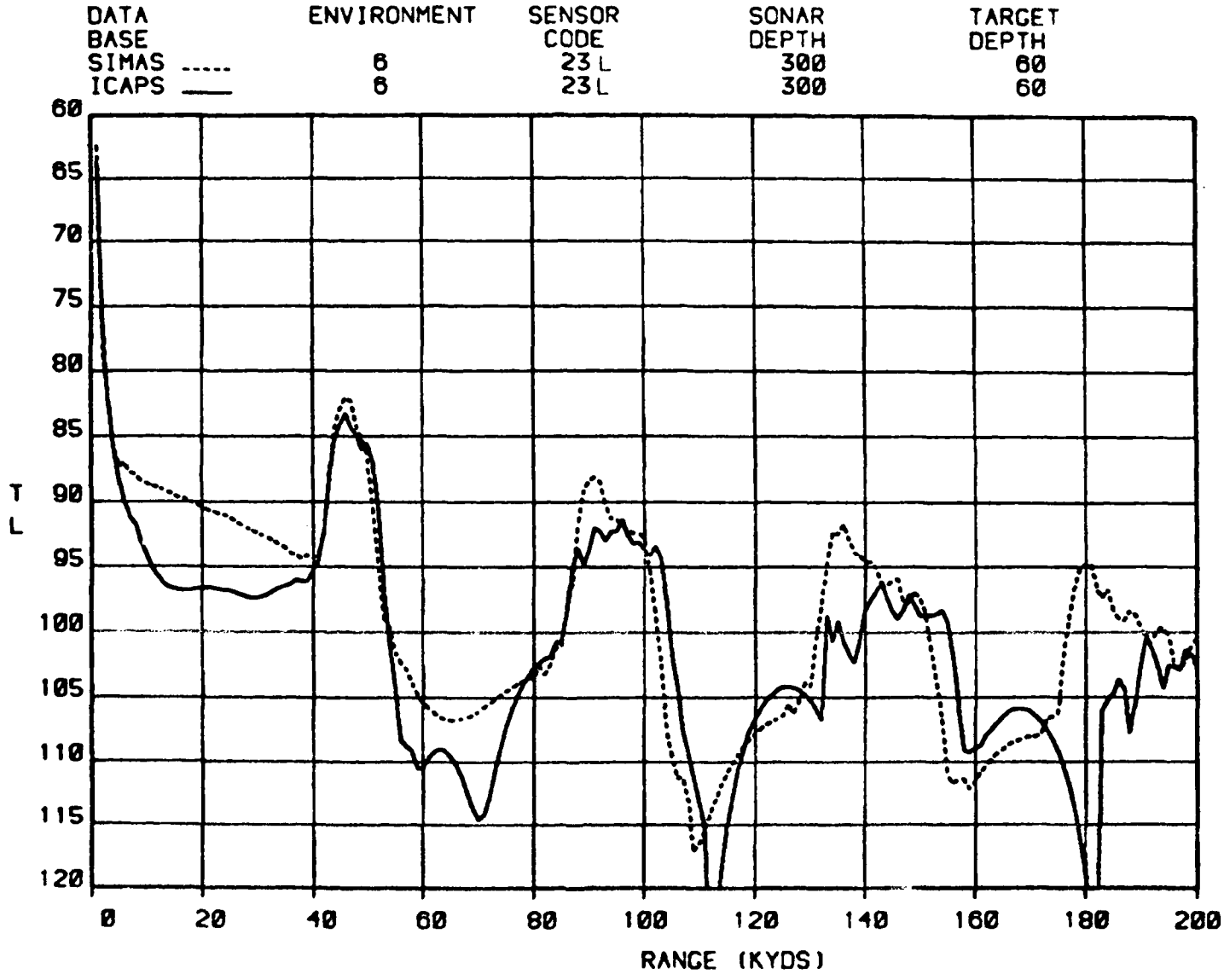

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 6 19 60 600
ICAPS ____ 6 19 60 600
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

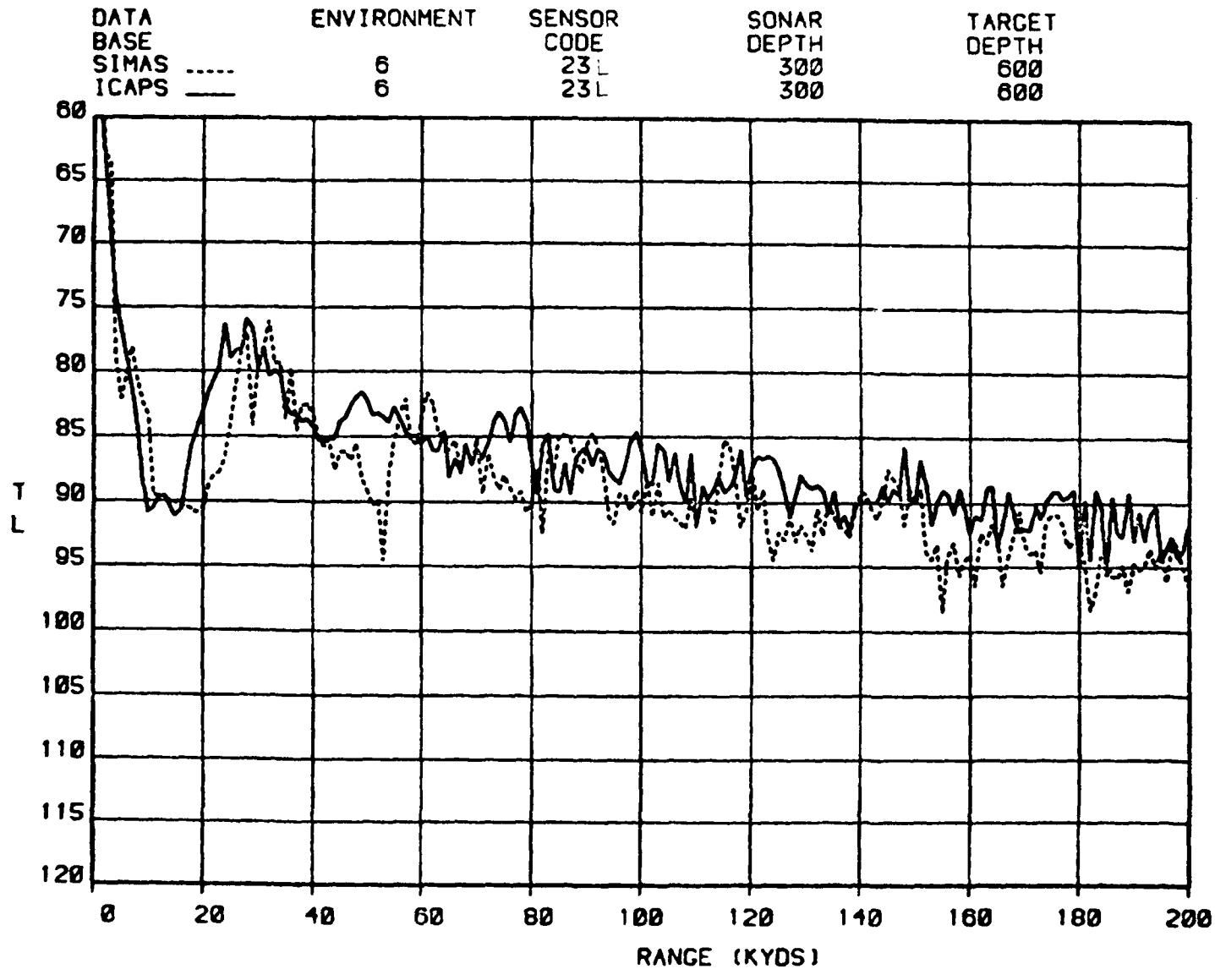

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 19 600 60
ICAPS ____ 6 19 600 60
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

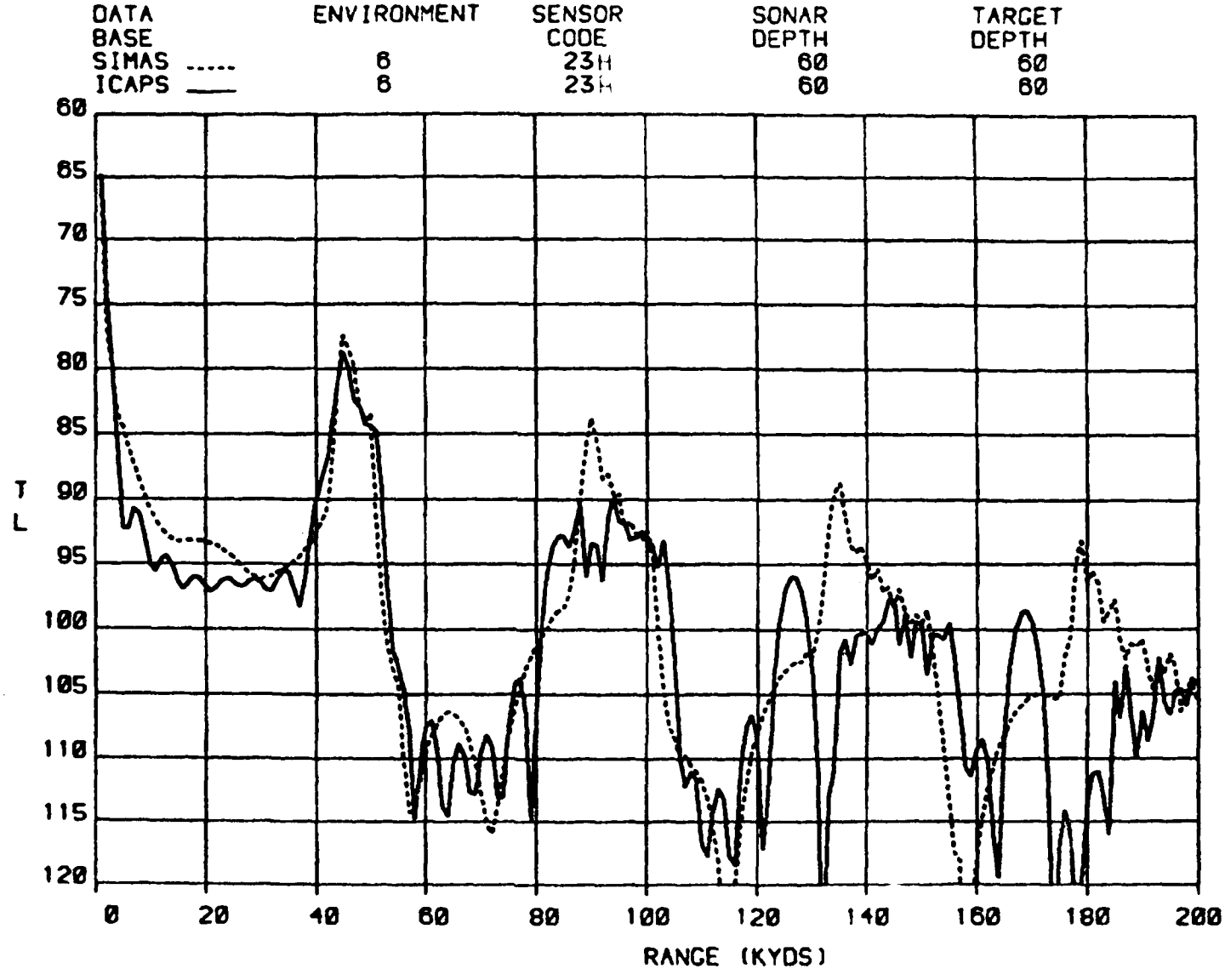

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 19 600 600
ICAPS ____ 6 19 600 600
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

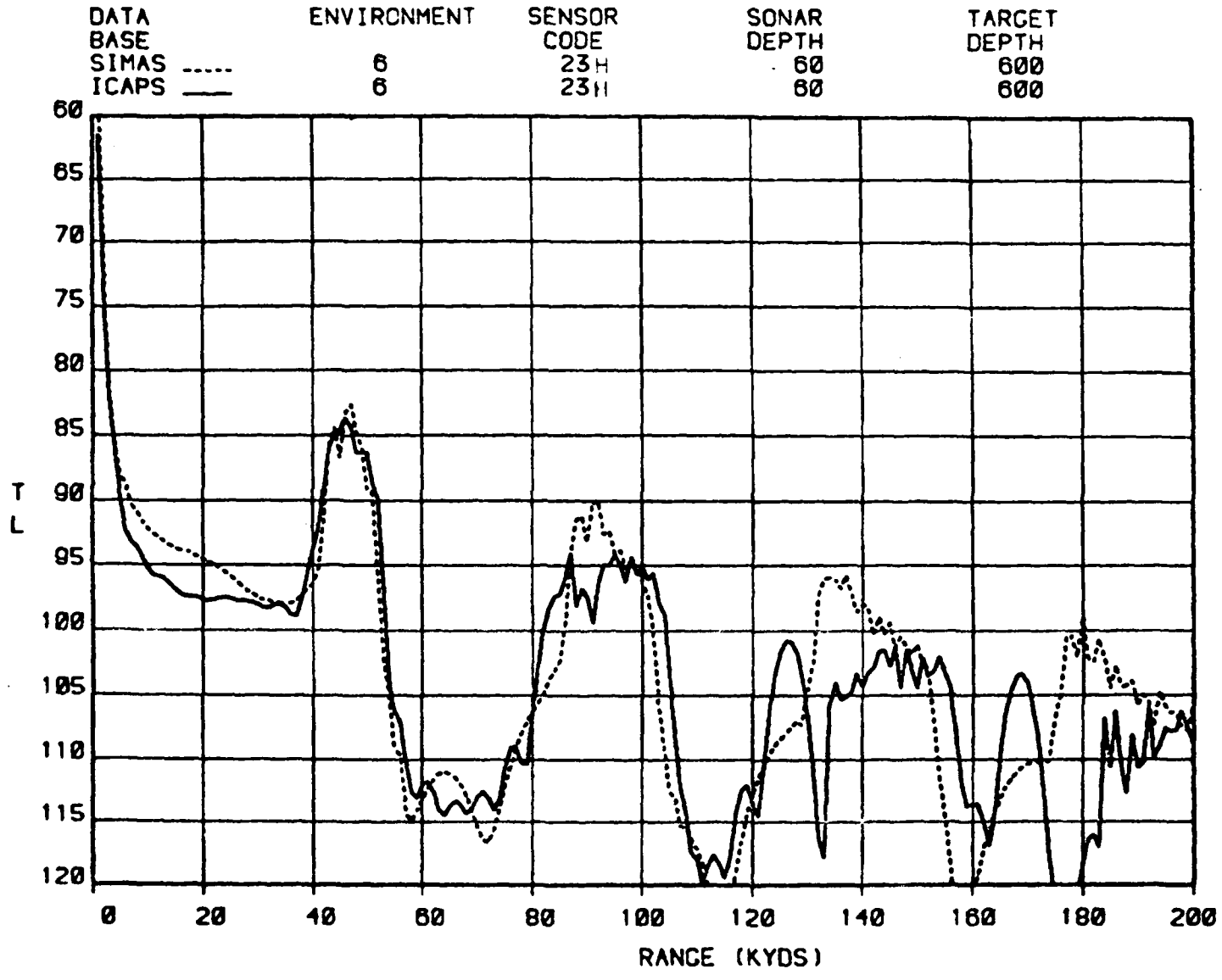

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 23L 60 60
ICAPS ____ 6 23L 60 60
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

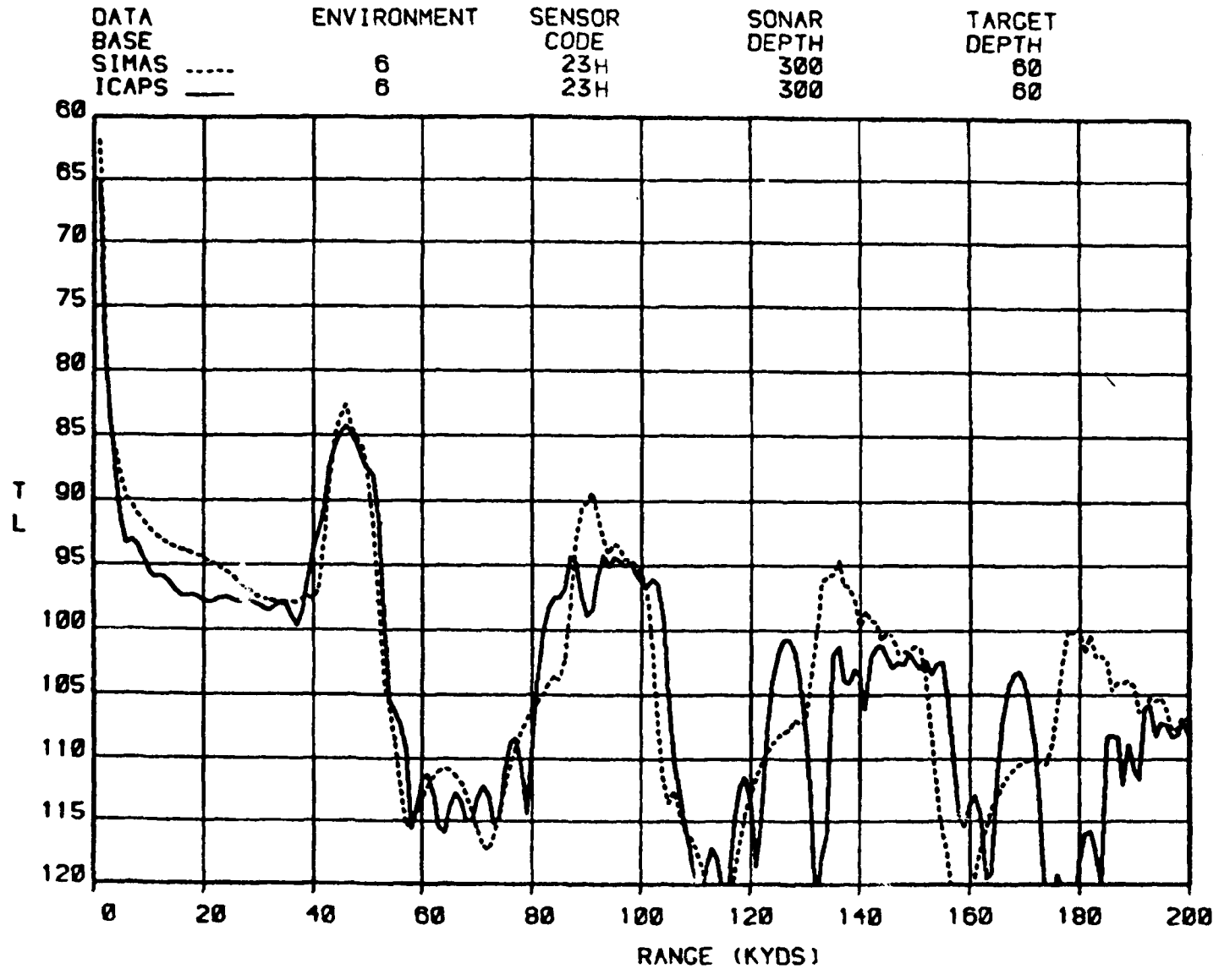

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 23L 60 600
ICAPS ____ 6 23L 60 600
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

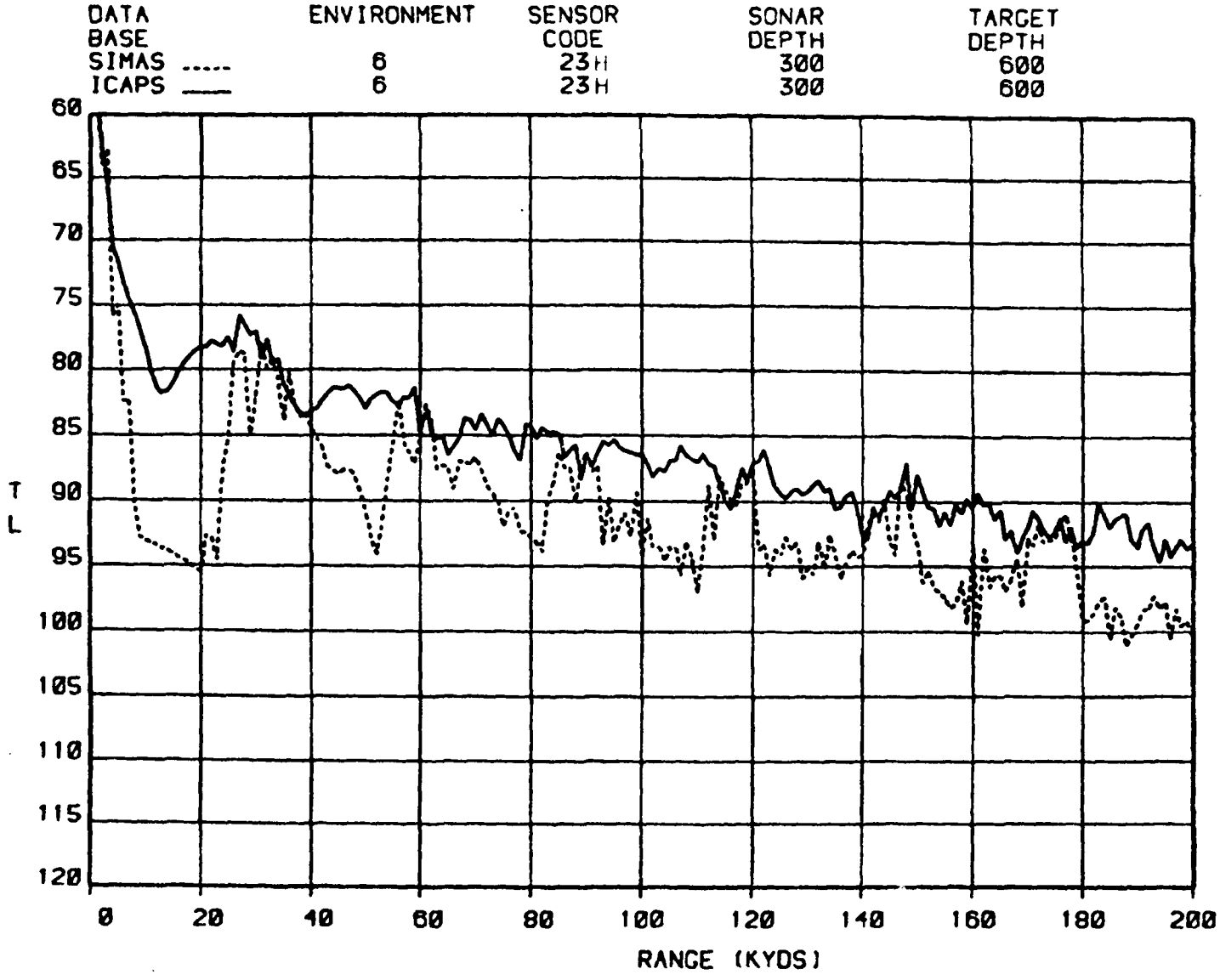

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 23L 300 60
ICAPS ____ 6 23L 300 60
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)


DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 23L 300 600
ICAPS ____ 6 23L 300 600
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)


DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 23H 60 60
ICAPS ____ 6 23H 60 60
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)


DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 23H 60 600
ICAPS ____ 6 23H 60 600
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)


DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 23H 300 60
ICAPS ____ 6 23H 300 60
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)


DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 23H 300 600
ICAPS ____ 6 23H 300 600
60
65
70
75
80
85
90
95
100
105
110
115
120
T L
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

B. Sensor Performance Plots

1. Introduction

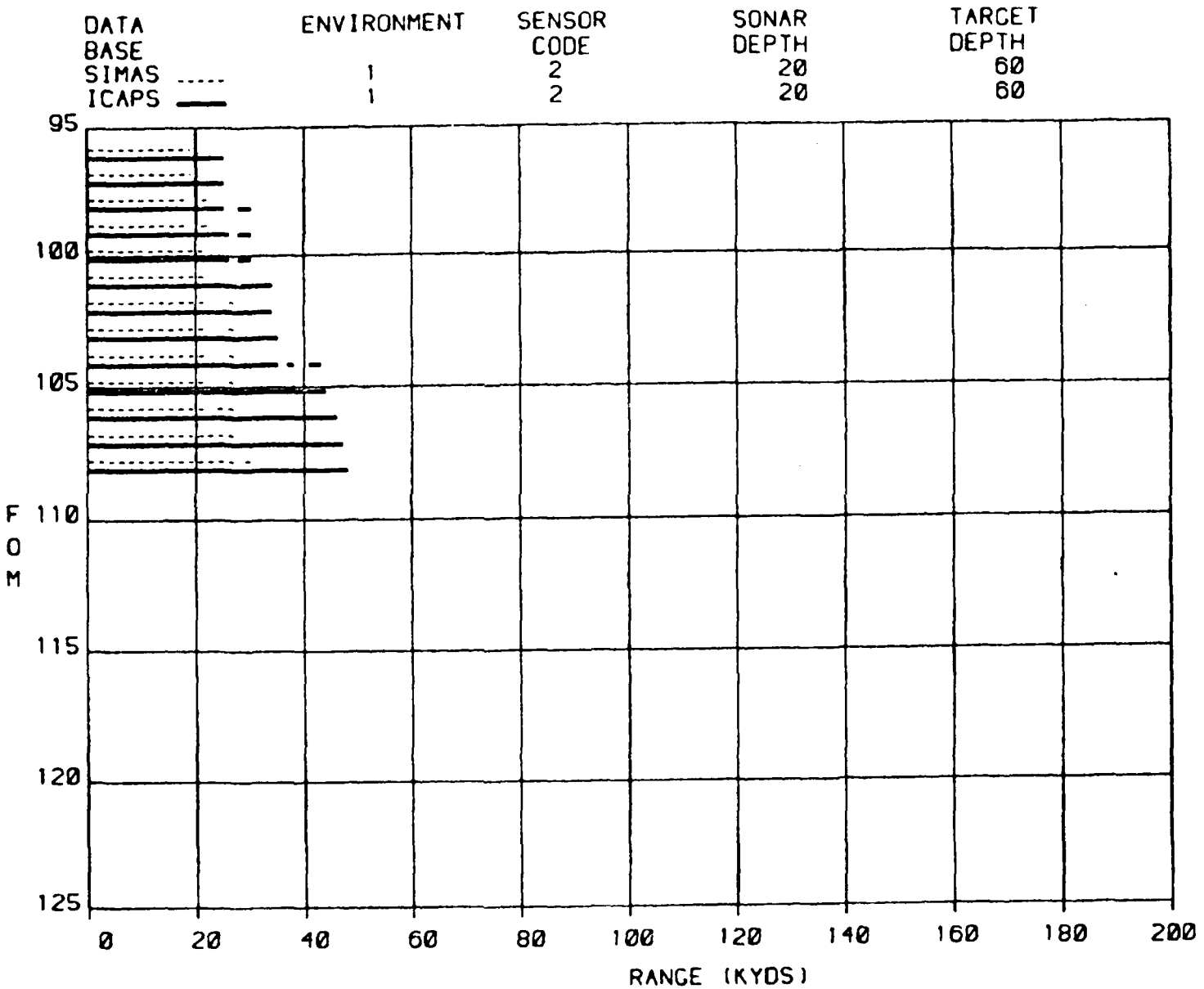
This section of the Acoustic Model Sensitivity to Input Data Differences report consists of sensor performance comparison plots presented as detection range intervals for a sensor dependent Figure of Merit (FOM) interval. The plots result from comparing the calculated PL with a chosen FOM value. The Propagation Loss Objective Analysis Scheme described in Volume I Section C was utilized to make the comparisons over the designated FOM interval for each of the 336 PL sets. The detection intervals consist of those range intervals in which the calculated PL is less than the FOM value of interest. The scenario described in Volume I Section D describes the process by which the FOM intervals were selected for each sensor. When the relative speeds of the units were considered together with an estimate for integration time, a minimum detection interval of two kiloyards was chosen as the threshold interval below which a detection would not be considered. This means that for an interval to appear on the plot, the FOM must have exceeded the PL for at least two consecutive range increments. This effectively eliminates narrow "spikes" from consideration.

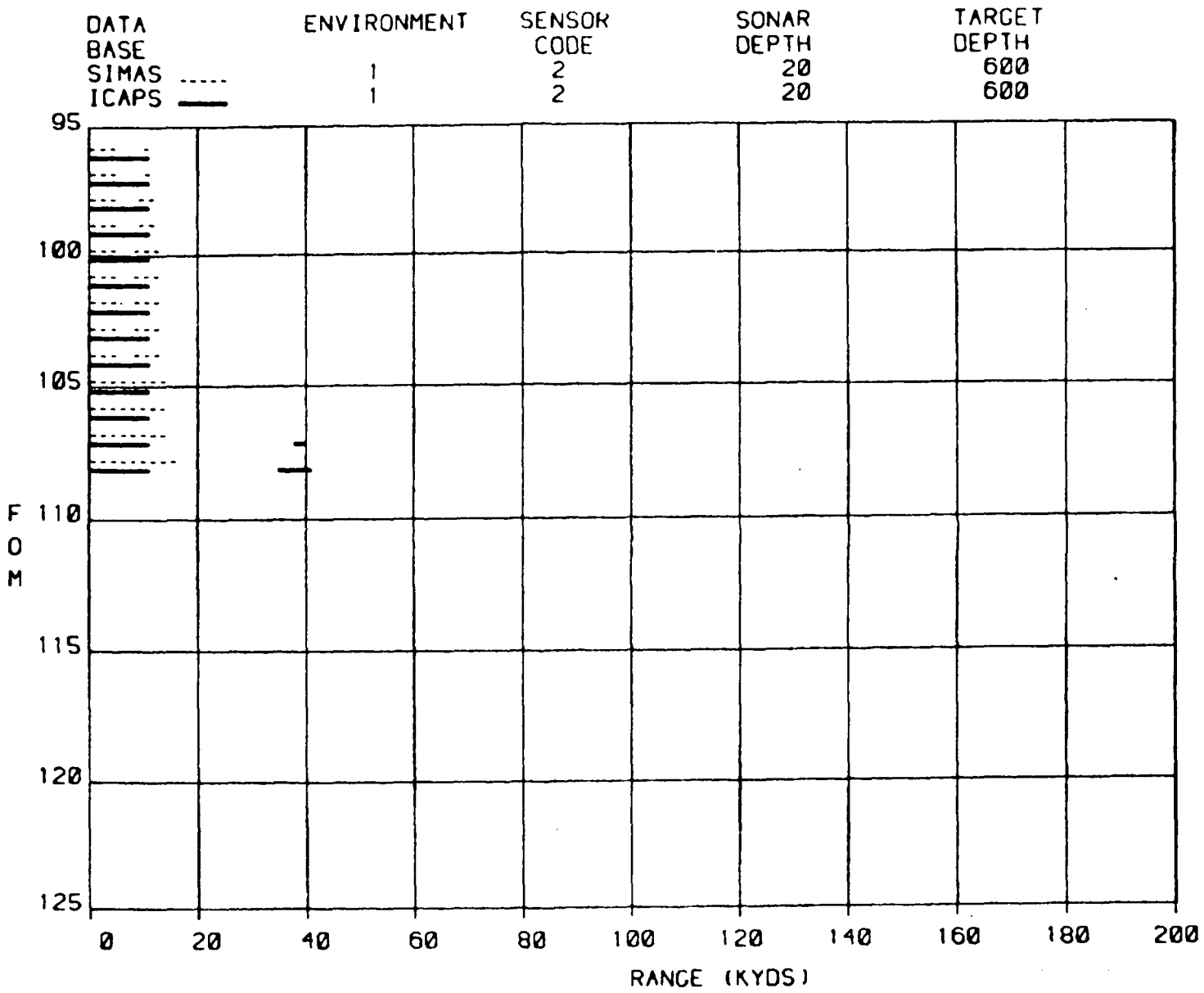
2. Plot Description

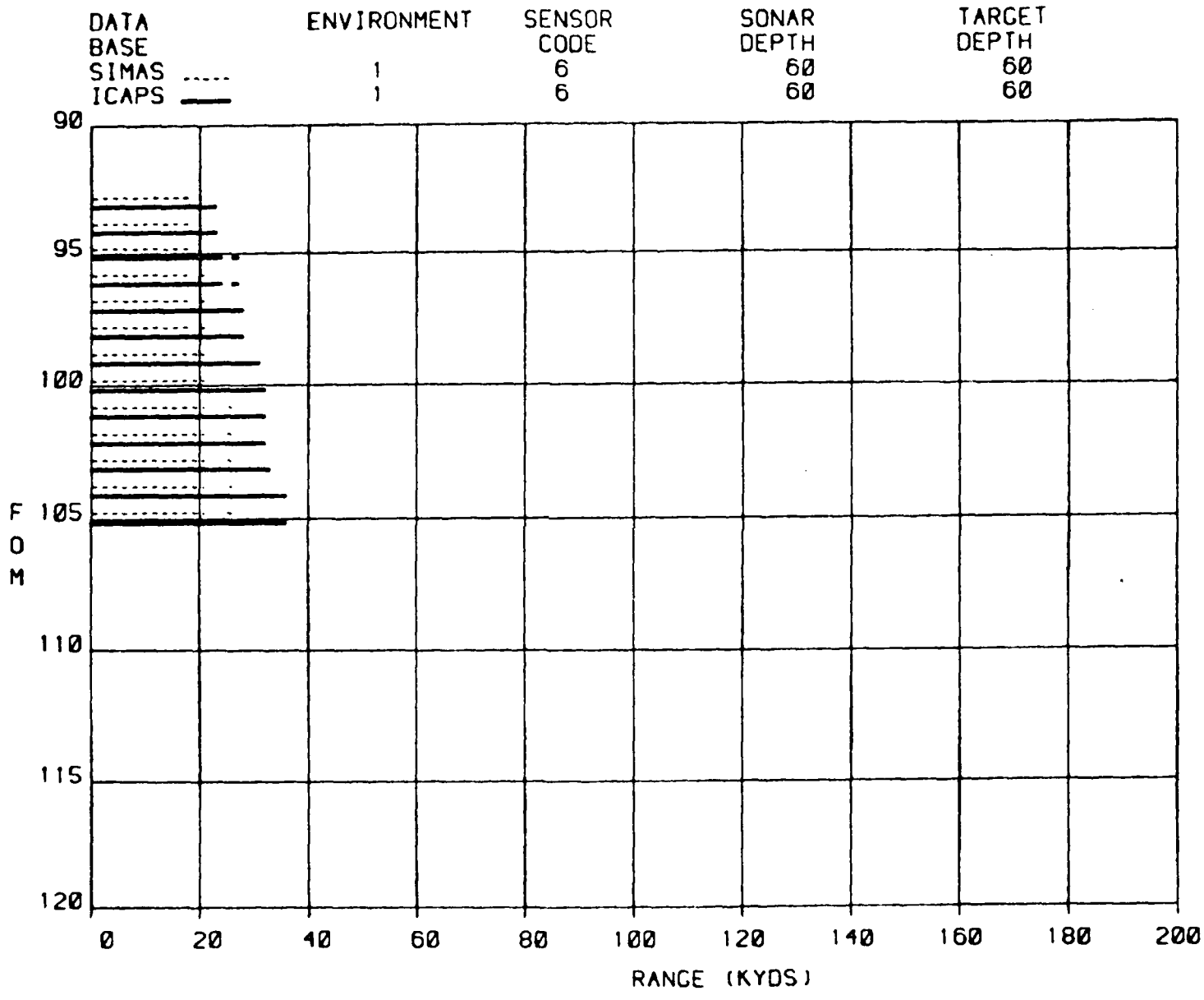
The plot format is identical for each case analyzed. A 30 dB range including the FOM interval of interest is chosen for the vertical axis. Results are computed and displayed at 1dB intervals over the FOM interval of interest. The range (horizontal) axis extends from 0 to 200 kiloyards at 20 kiloyard increments. The performance calculations were made over the interval 1 to 200 kiloyards in 1 kiloyard increments.

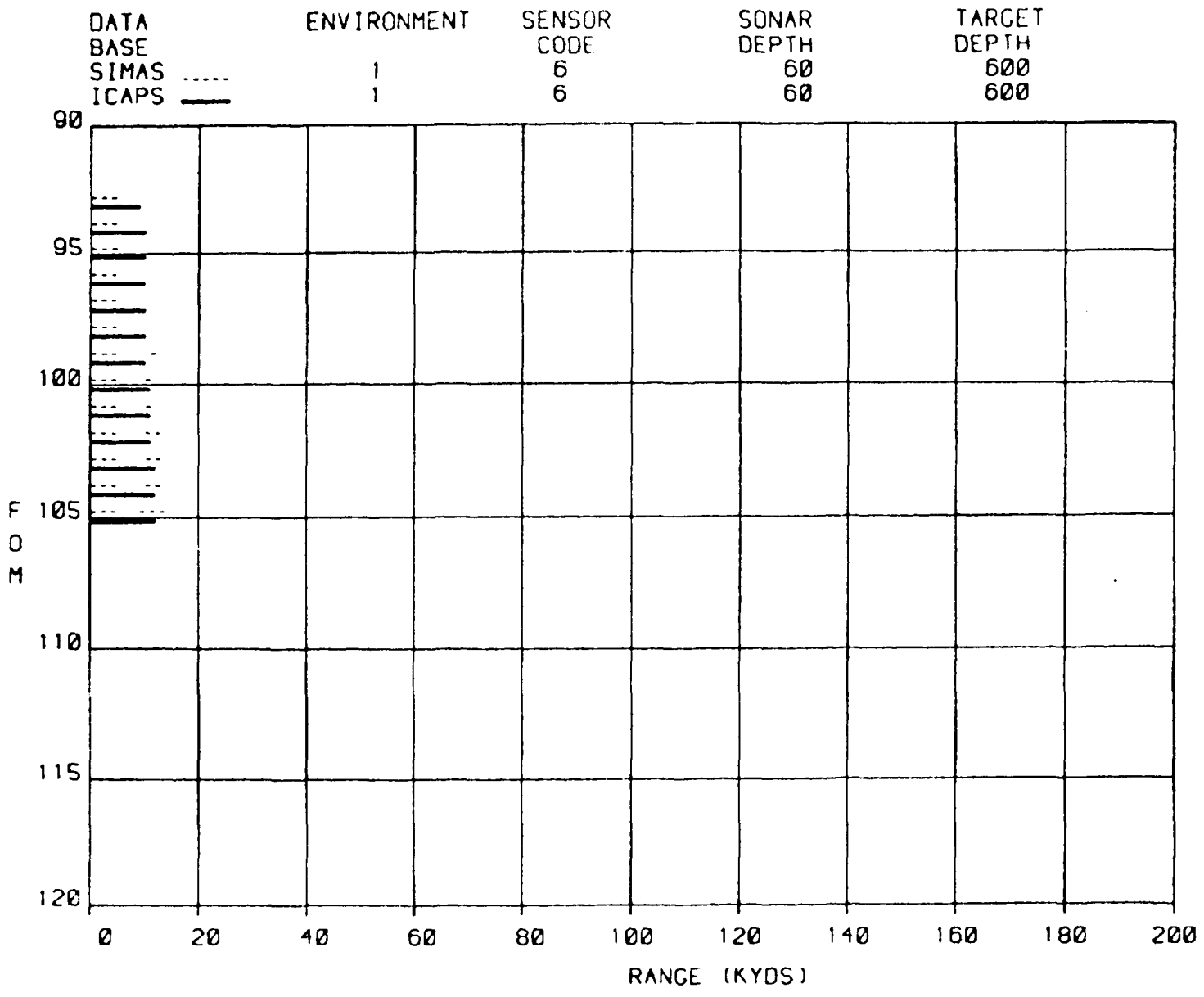
Each plot contains a header which delineates the data base, environment, sensor code, sonar depth (feet), and target depth (feet). The actual detection intervals are represented by a solid line for ICAPS and a dashed line for SIMAS. A full description of the environment may be found in Volume I Section B. The characteristics of the sensors including designation, frequency, vertical beamwidth, FOM interval, and nominal FOM may be found in Volume I Section D.

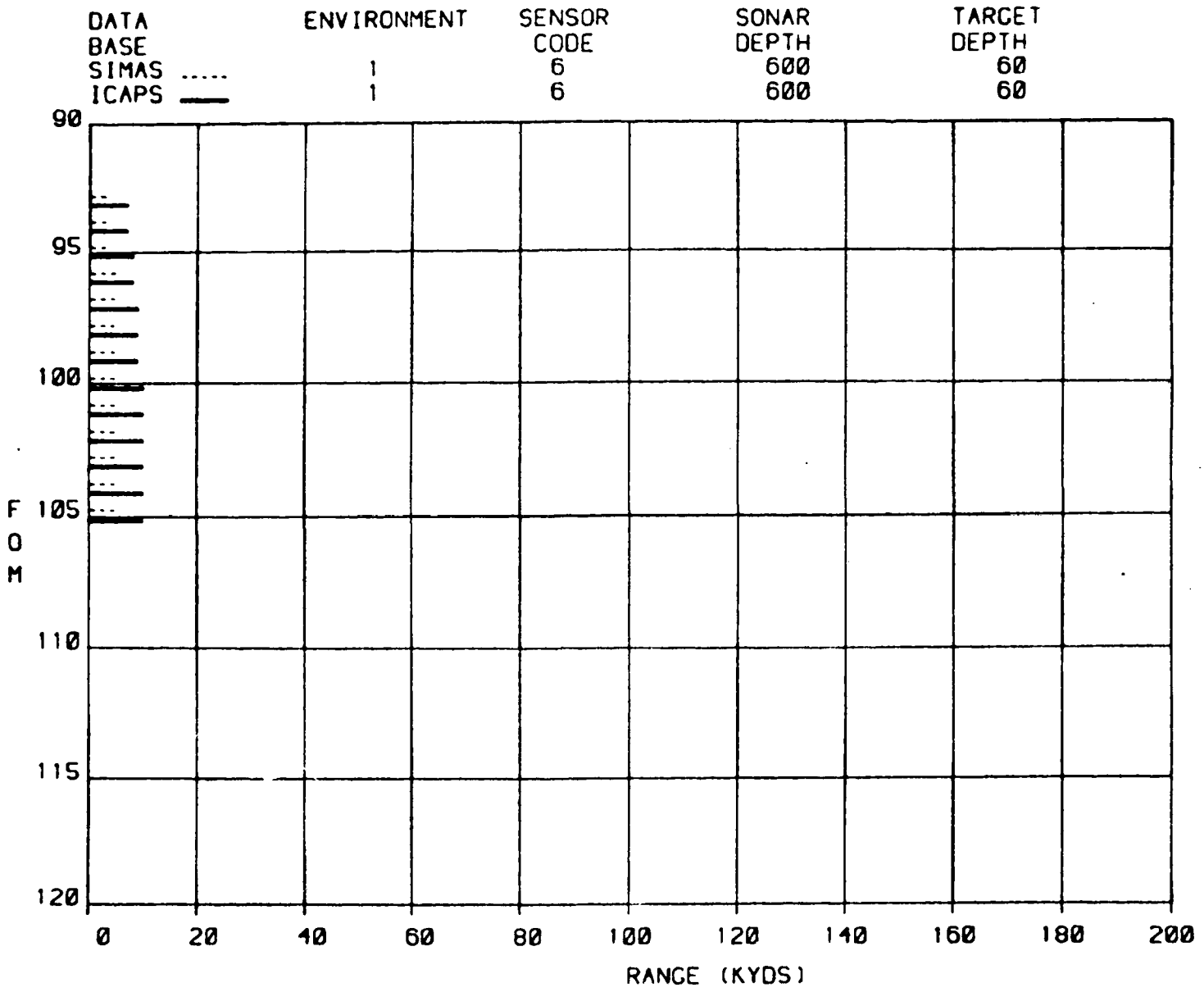
The performance of each sensor has been characterized as a function of data base and a written description relating observed performance differences to PL and environment differences may be found in Volume I Section F.

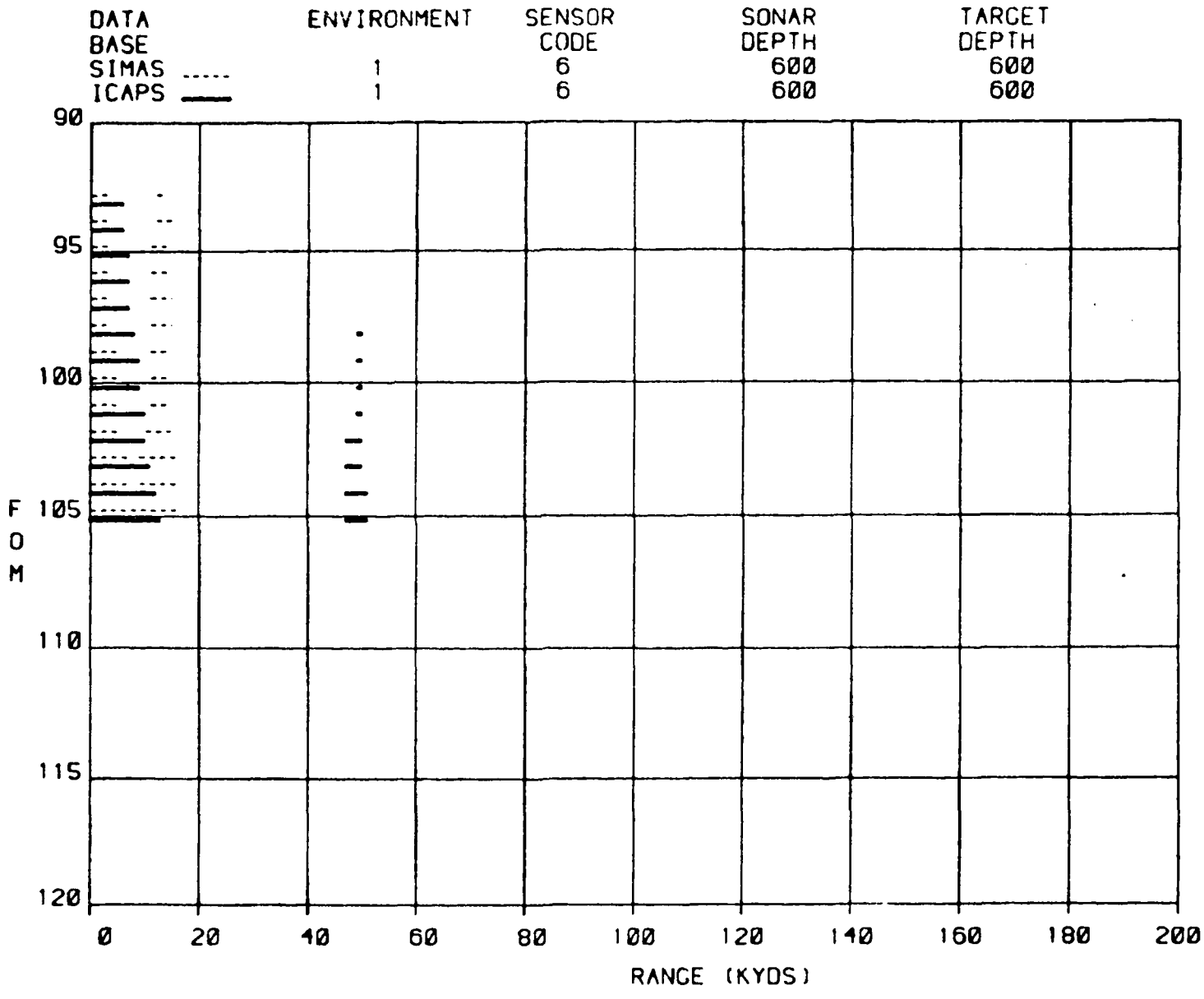

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 2 20 60
ICAPS ——— 1 2 20 60
95
100
105
110
115
120
125
FOM
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

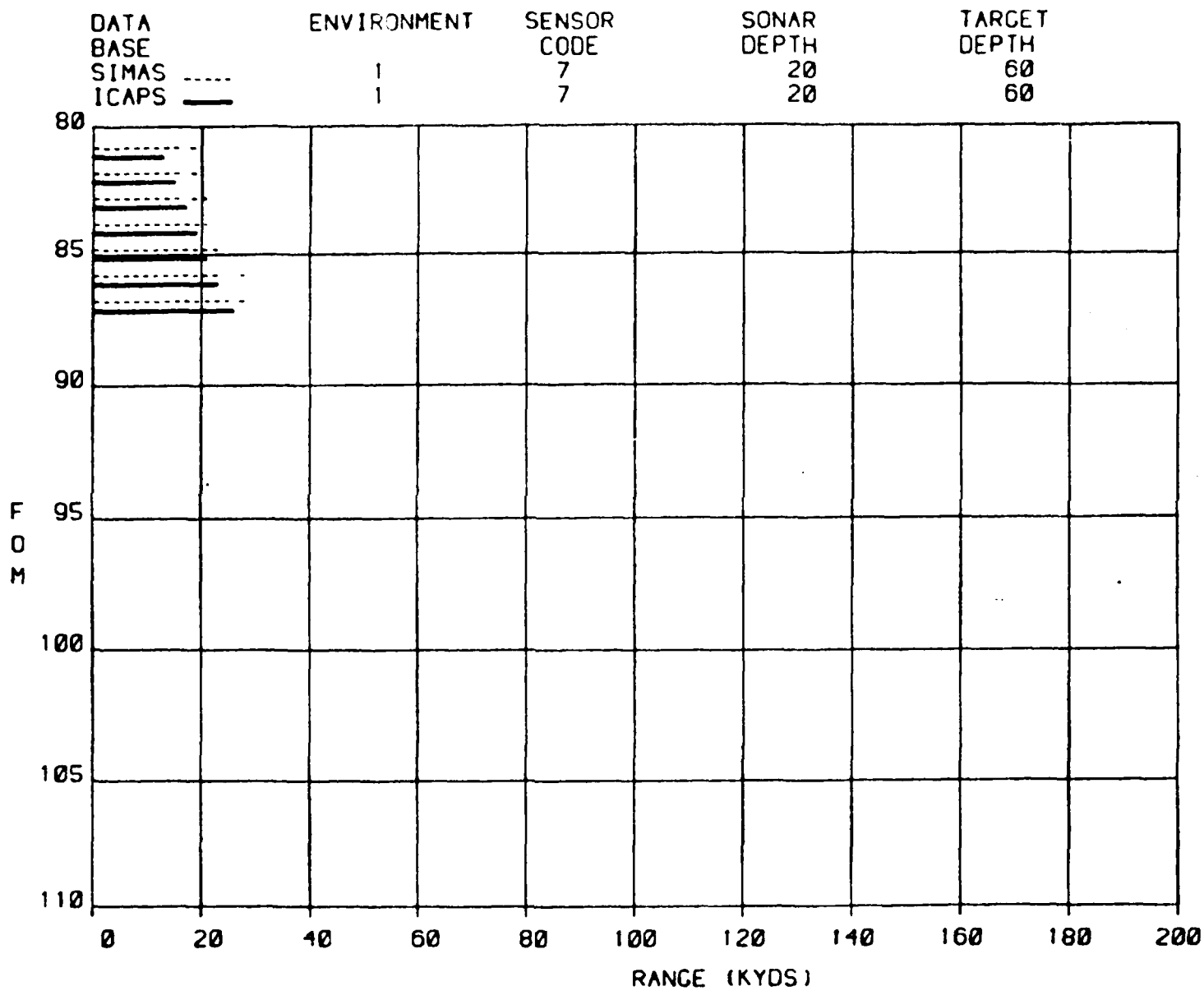

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 2 20 600
ICAPS —— 1 2 20 600
95
100
105
110
115
120
125
FOM
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

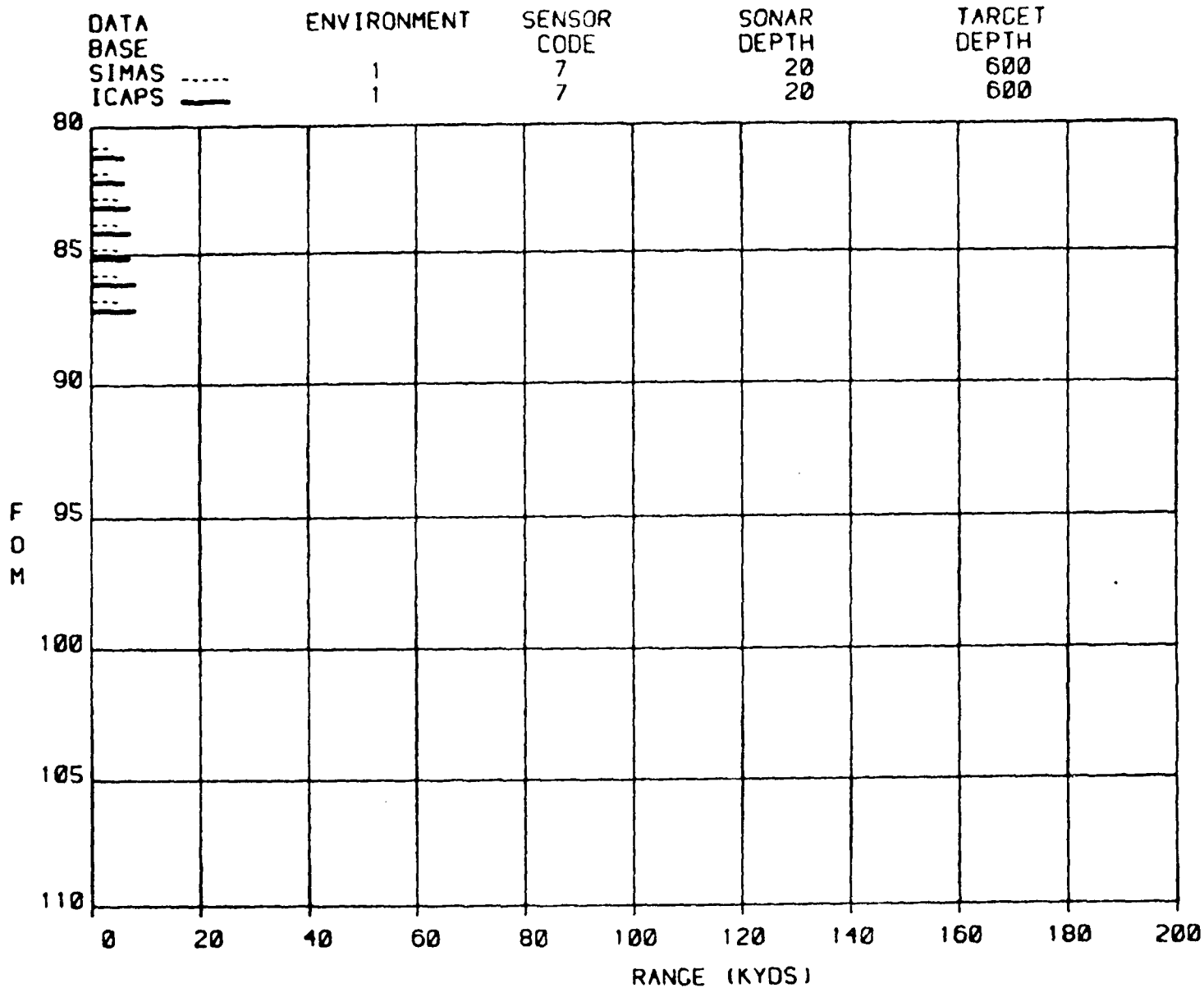

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 6 60 60
ICAPS ——— 1 6 60 60
90
95
100
105
110
115
120
F O M
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

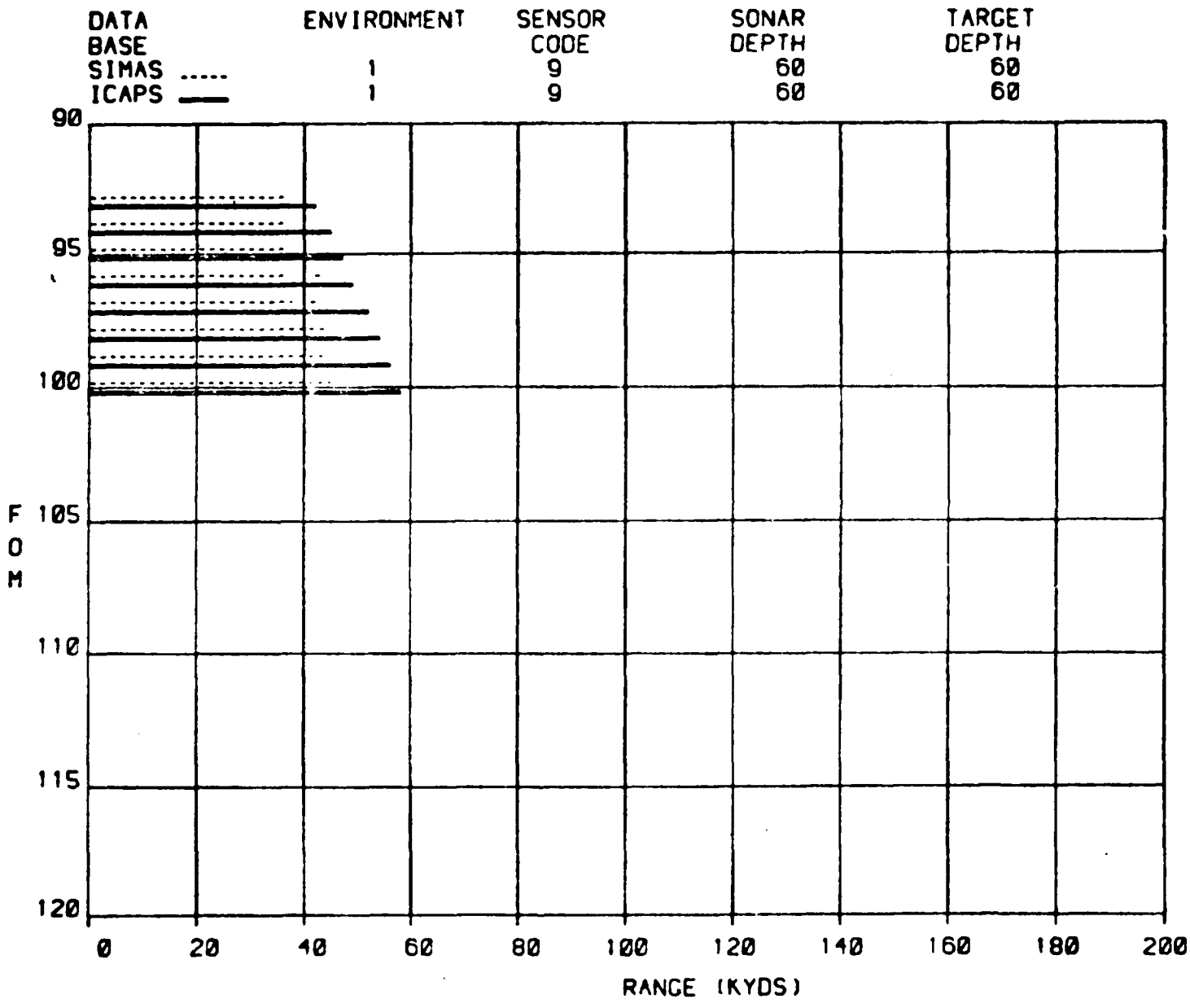

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 6 60 600
ICAPS ——— 1 6 60 600
90
95
100
105
110
115
120
FOM
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

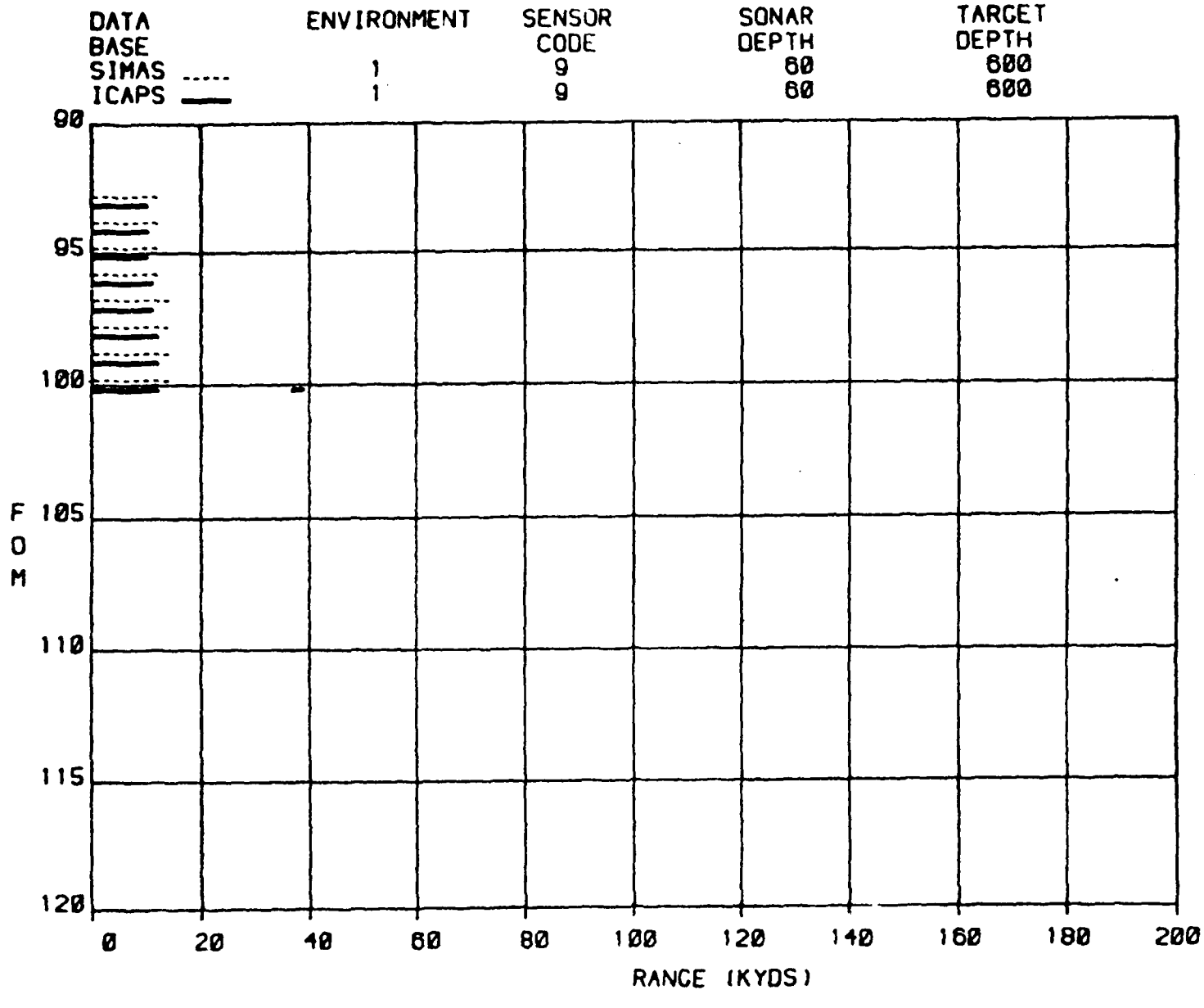

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 1 6 600 60
ICAPS ——— 1 6 600 60
90
95
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F O M
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RANGE (KYDS)

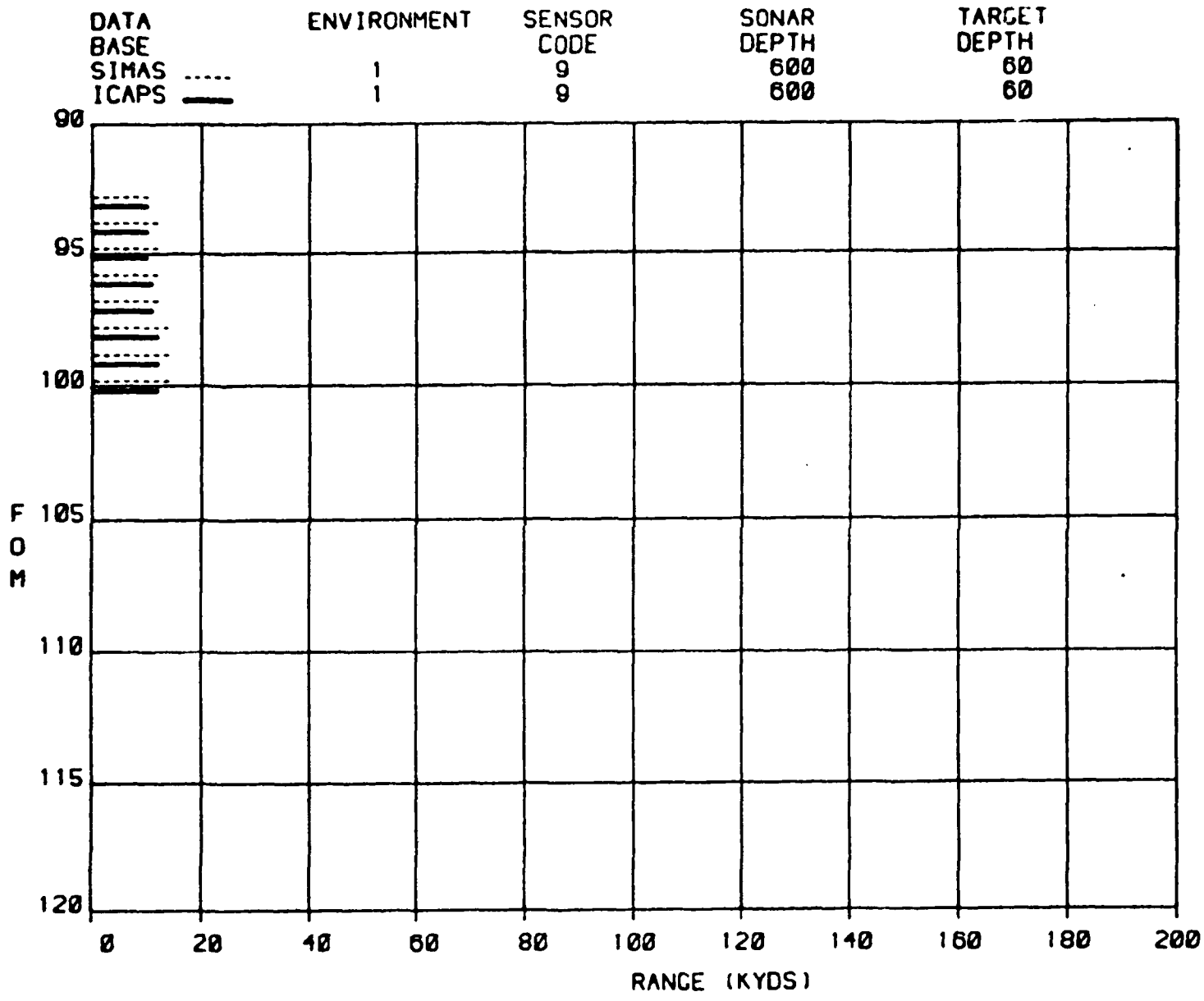

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 6 600 600
ICAPS ——— 1 6 600 600
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RANGE (KYDS)

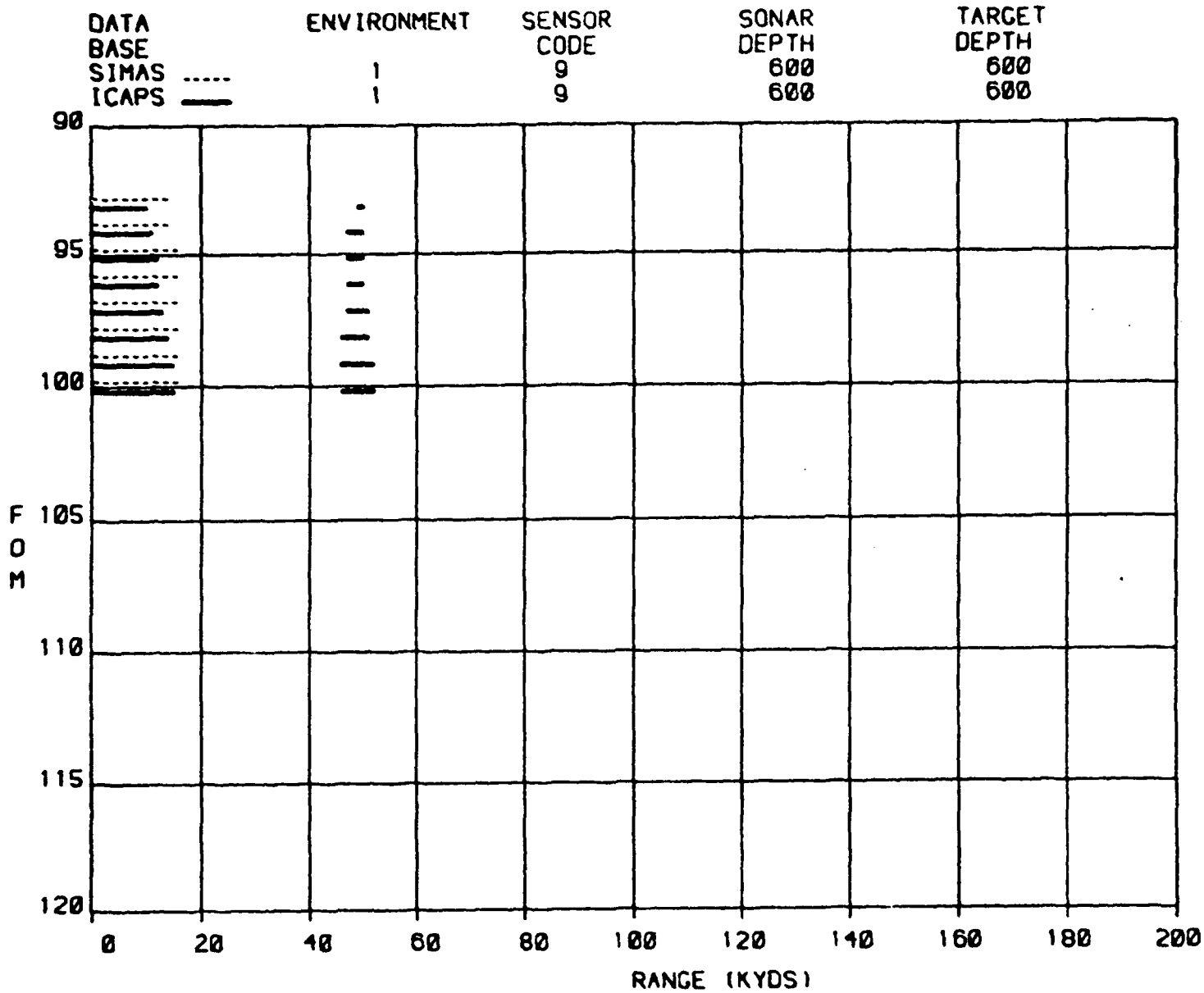

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 7 20 60
ICAPS ——— 1 7 20 60
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RANGE (KYDS)

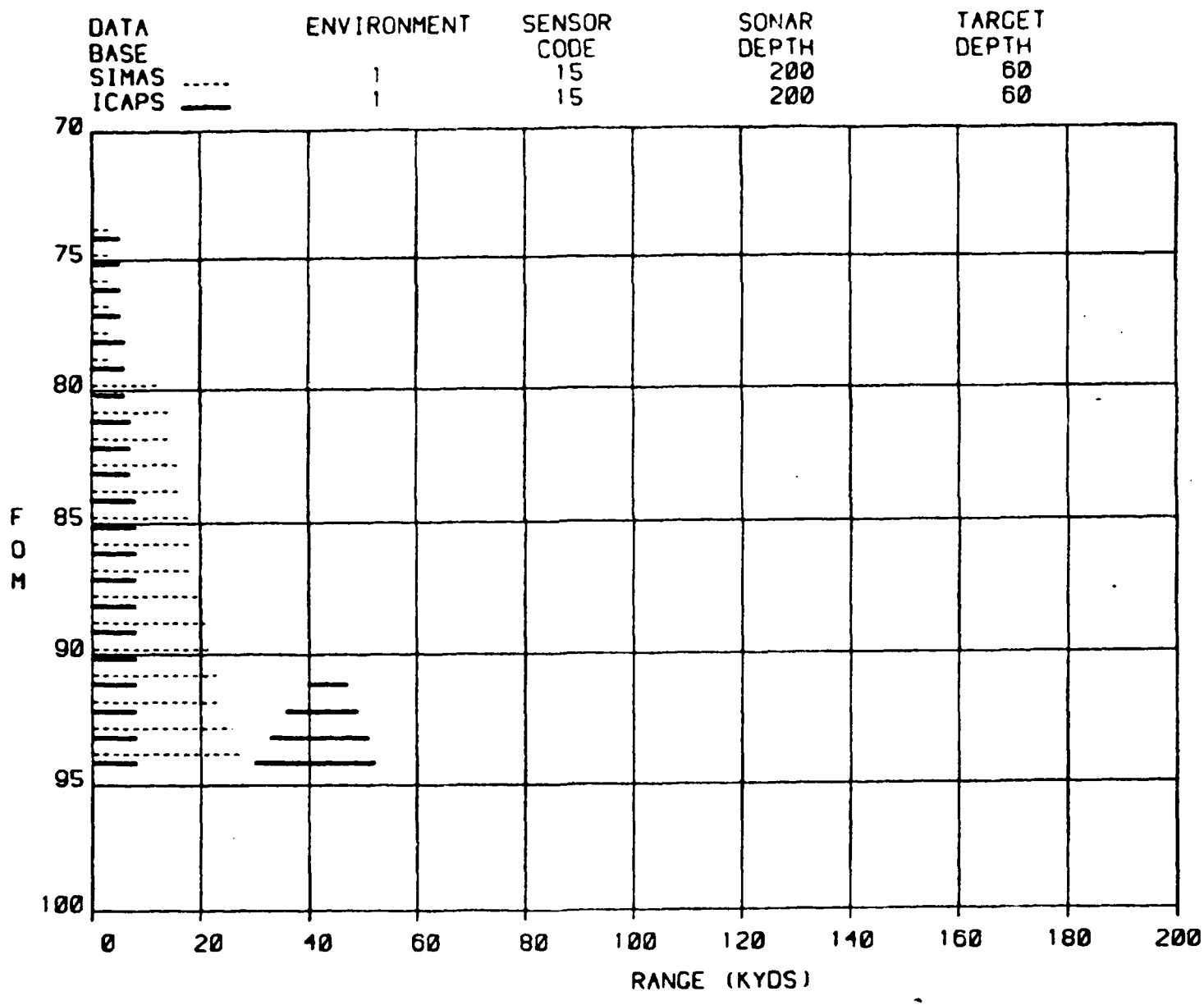

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 1 7 20 600
ICAPS 1 7 20 600
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F O M
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RANGE (KYDS)

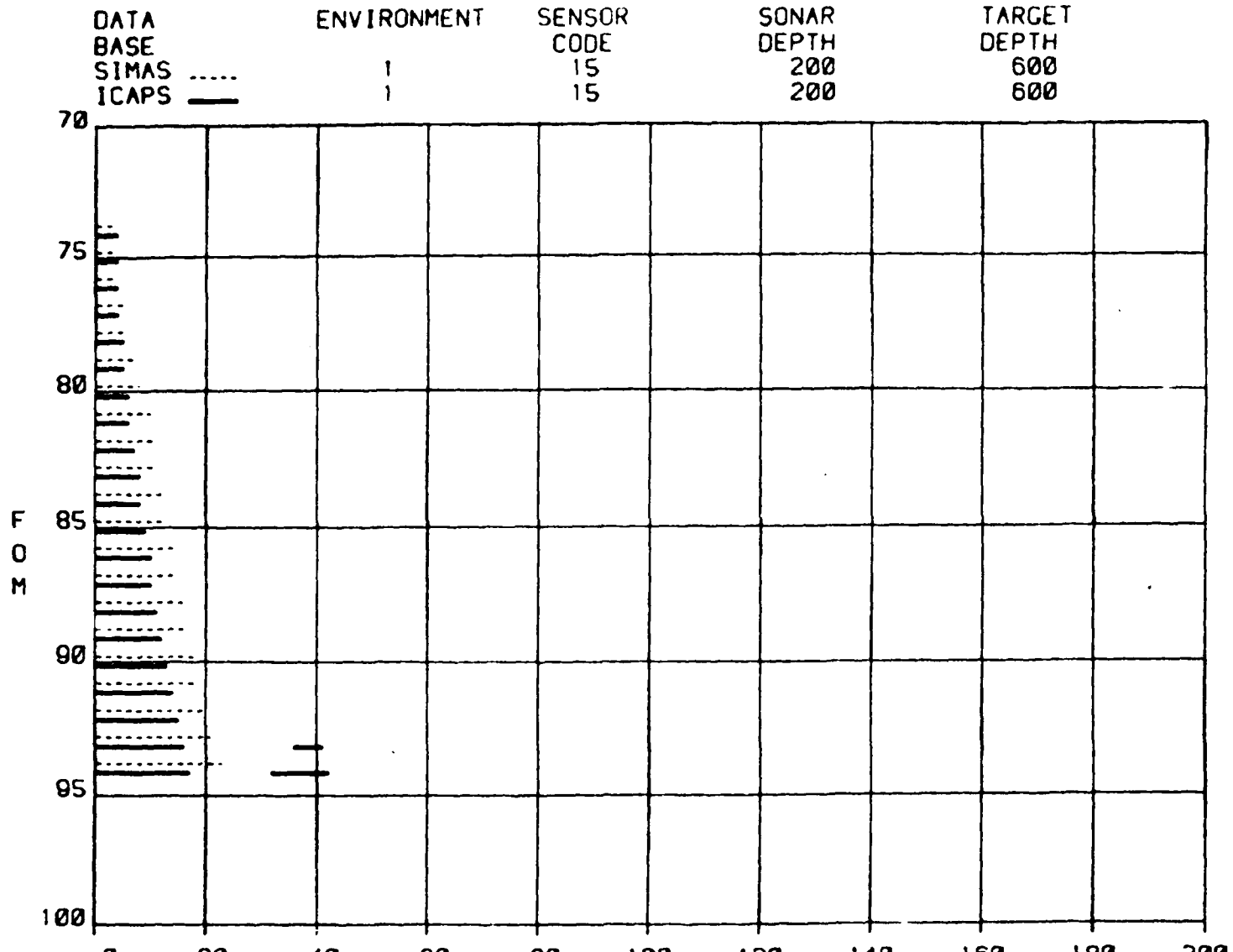

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 9 60 60
ICAPS ——— 1 9 60 60
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F O M
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RANGE (KYDS)

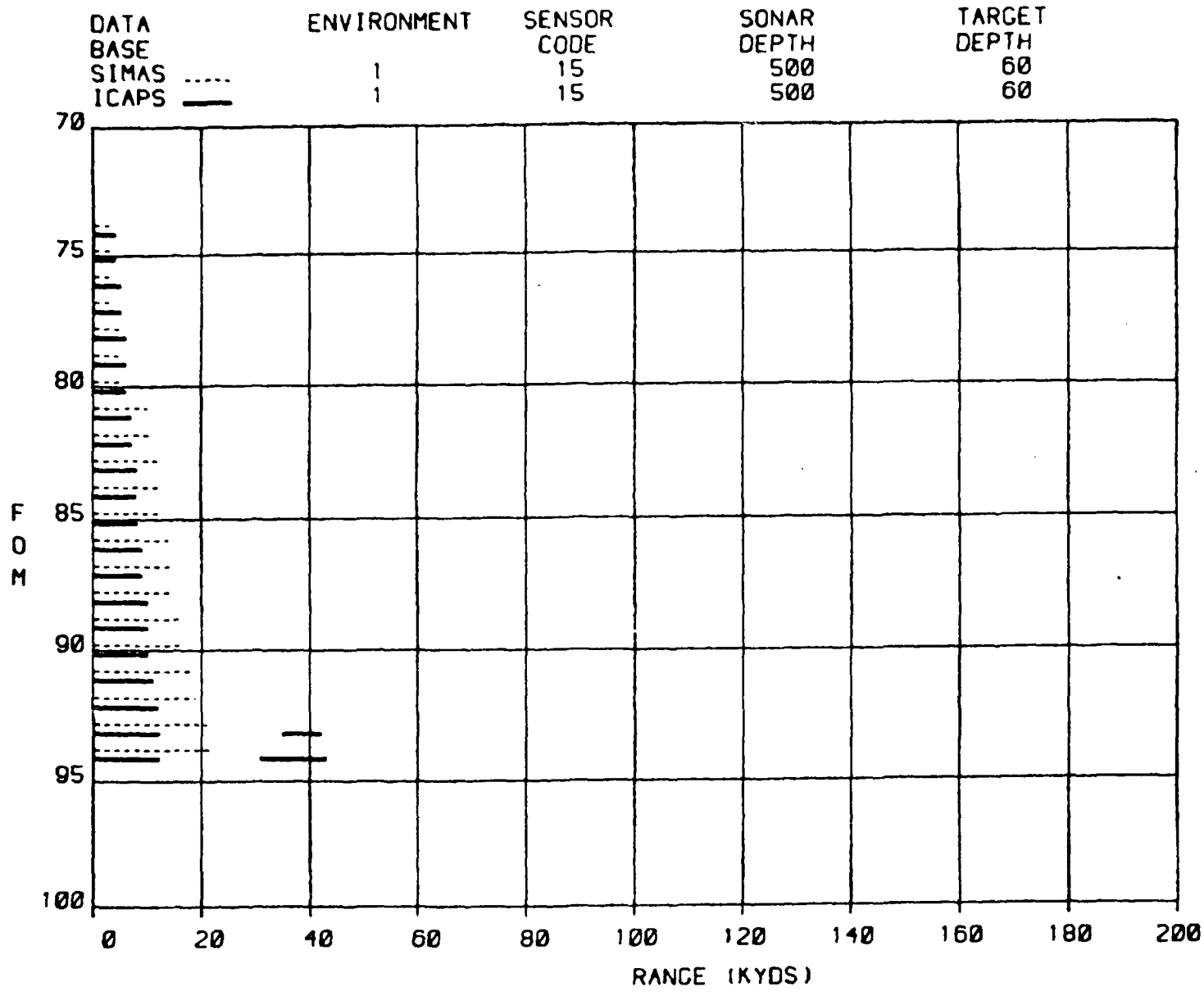

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 1 9 60 600
ICAPS 1 9 60 600
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FOM
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RANGE (KYDS)

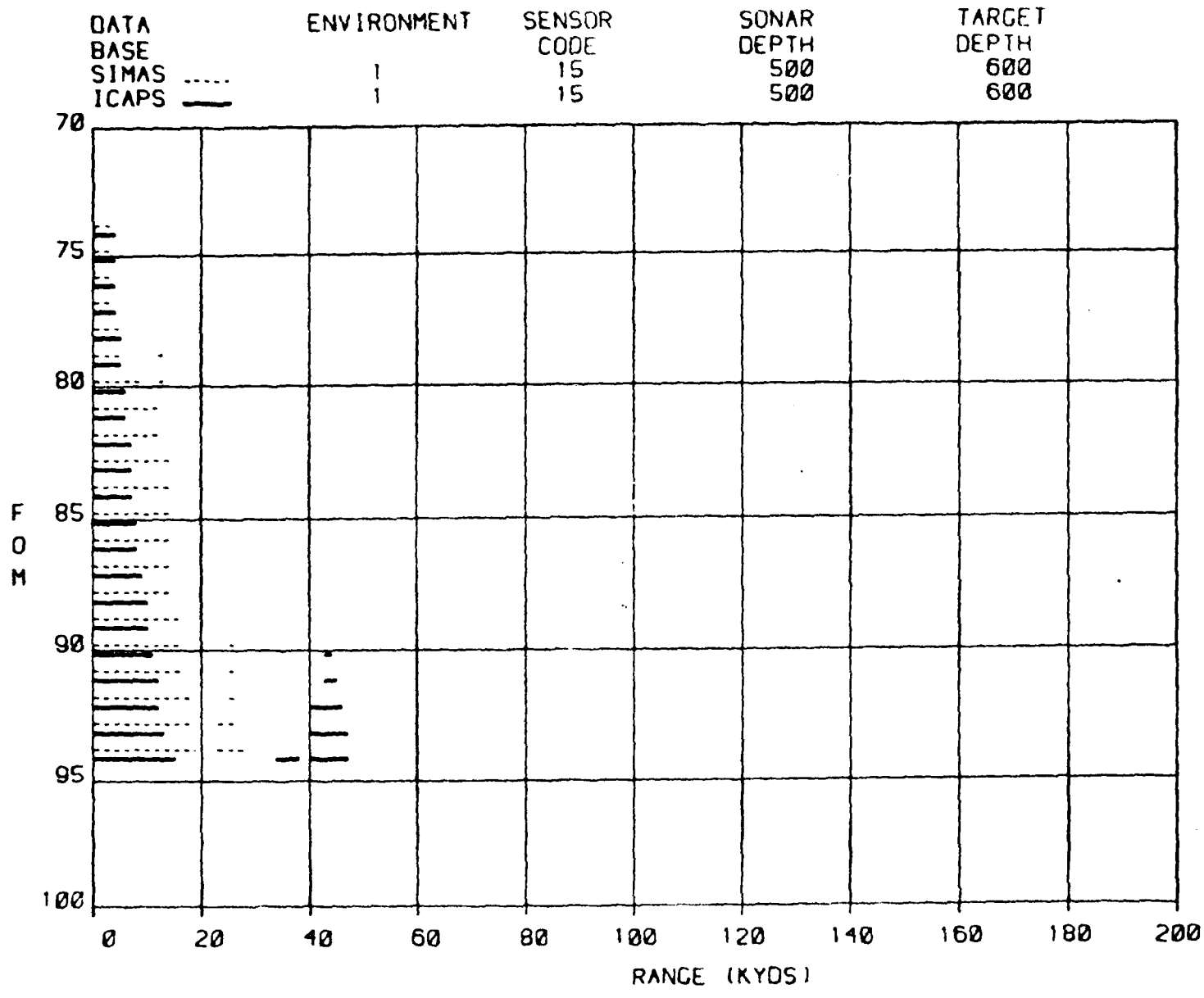

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 1 9 600 60
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RANGE (KYDS)

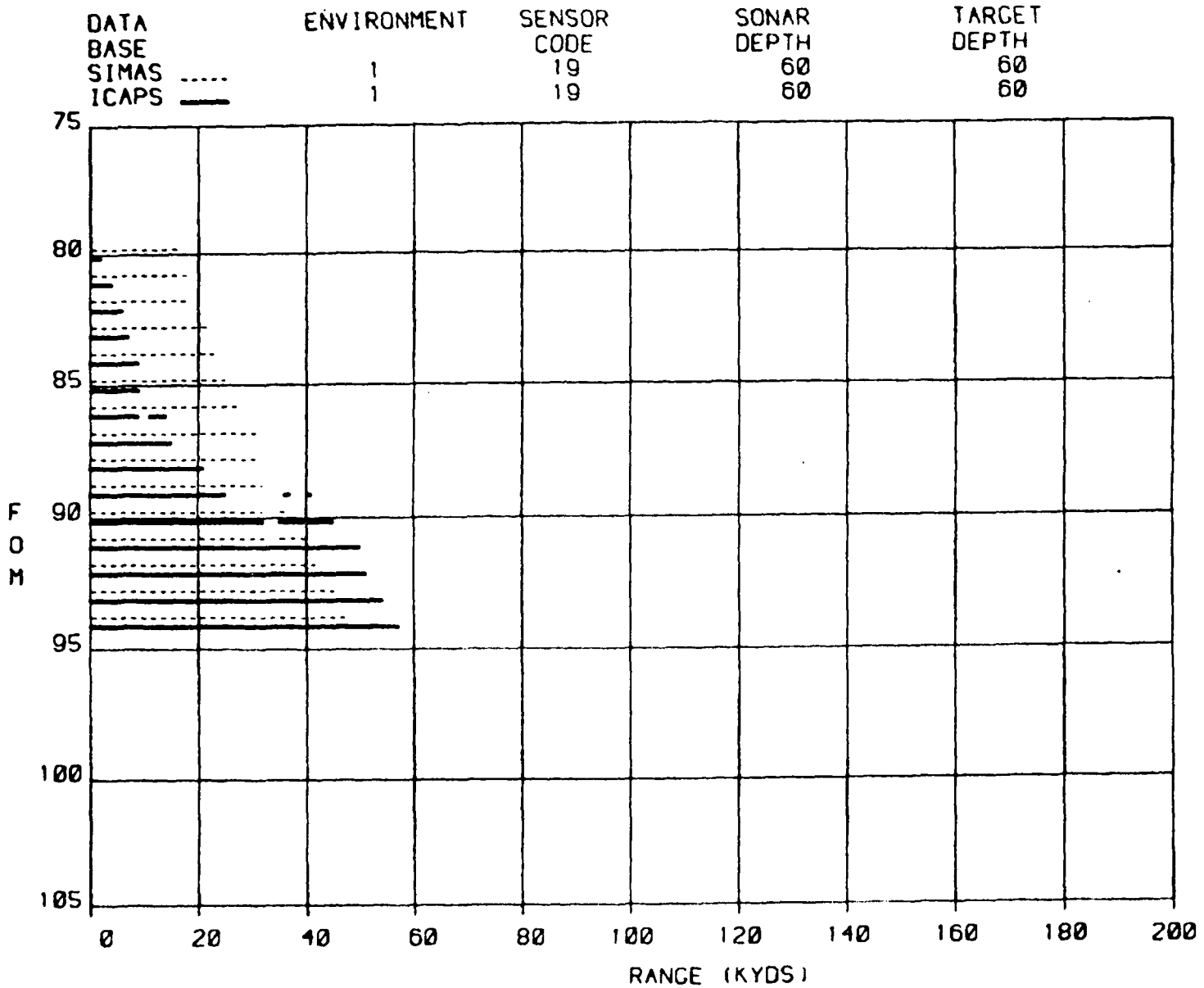

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 9 600 600
ICAPS ——— 1 9 600 600
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RANGE (KYDS)

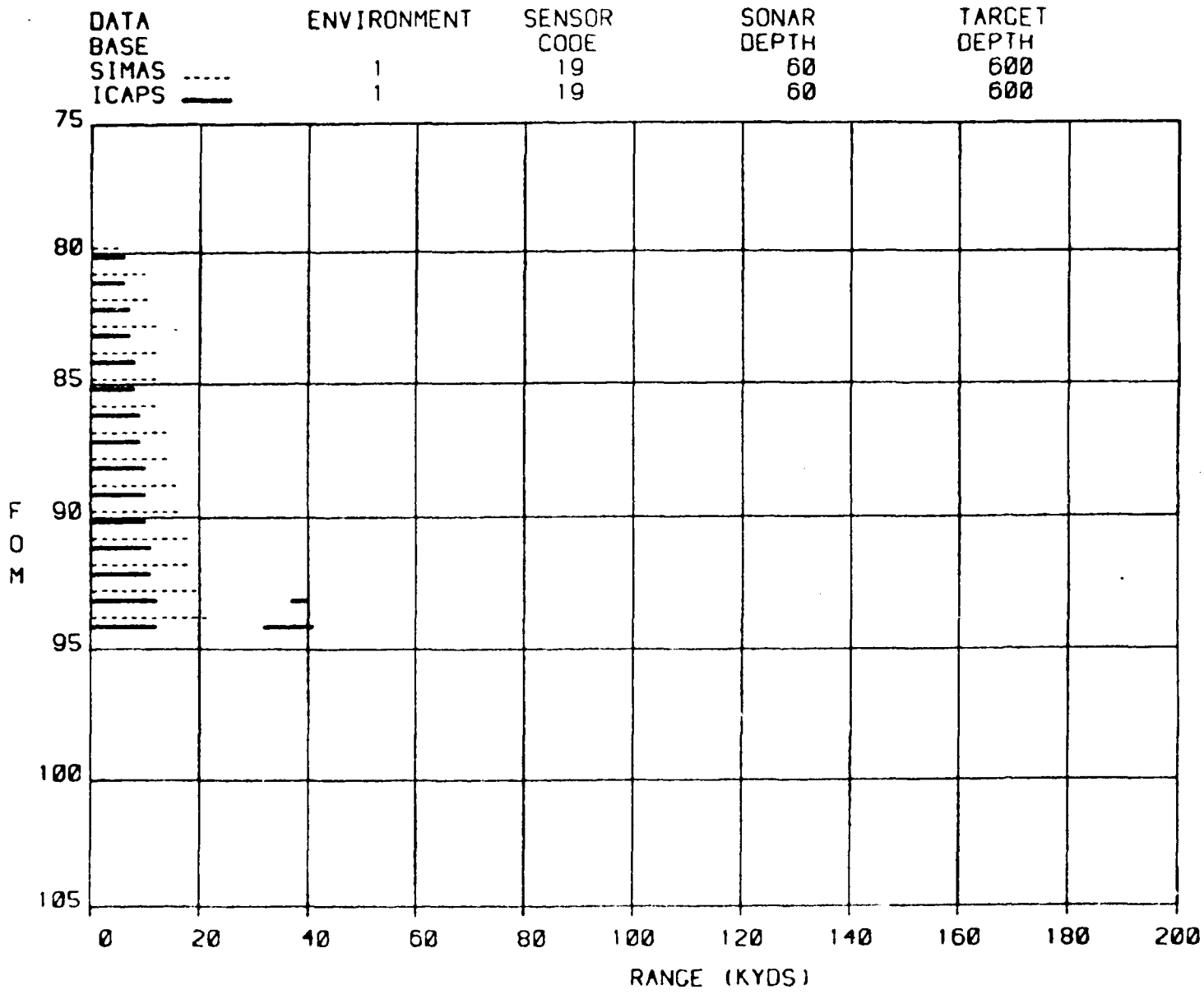

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 15 200 60
ICAPS ——— 1 15 200 60
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F O M
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200
RANGE (KYDS)


DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 15 200 600
ICAPS ——— 1 15 200 600
70
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FOM
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RANGE (KYDS)


DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 1 15 500 60
ICAPS ——— 1 15 500 60
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F O M
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100
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200
RANGE (KYDS)


DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 1 15 500 600
ICAPS 1 15 500 600
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F O M
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RANGE (KYDS)

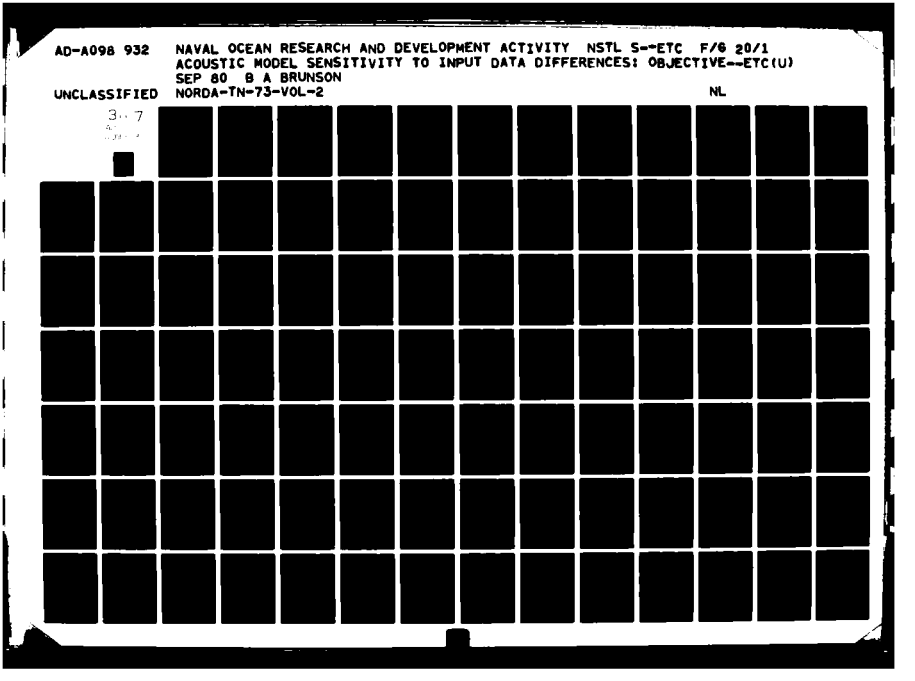

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 19 60 60
ICAPS ——— 1 19 60 60
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RANGE (KYDS)

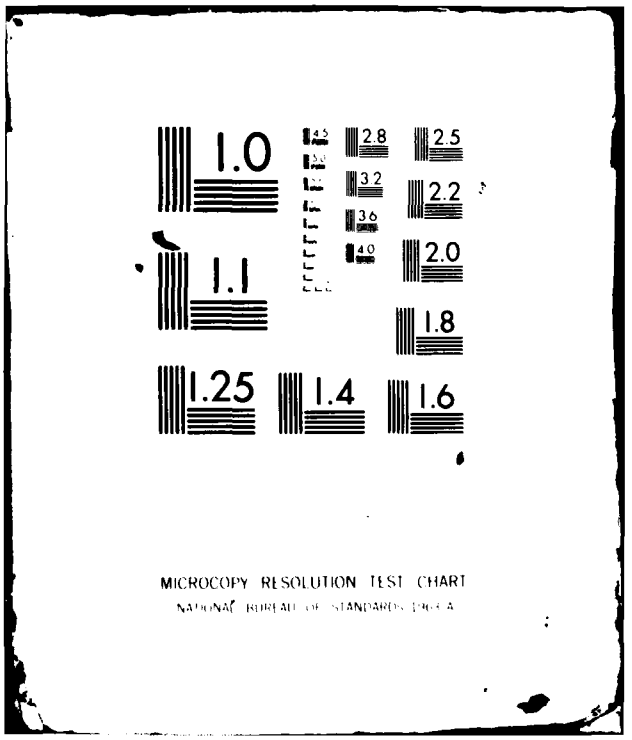

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 19 60 600
ICAPS ——— 1 19 60 600
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FOM
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RANGE (KYDS)

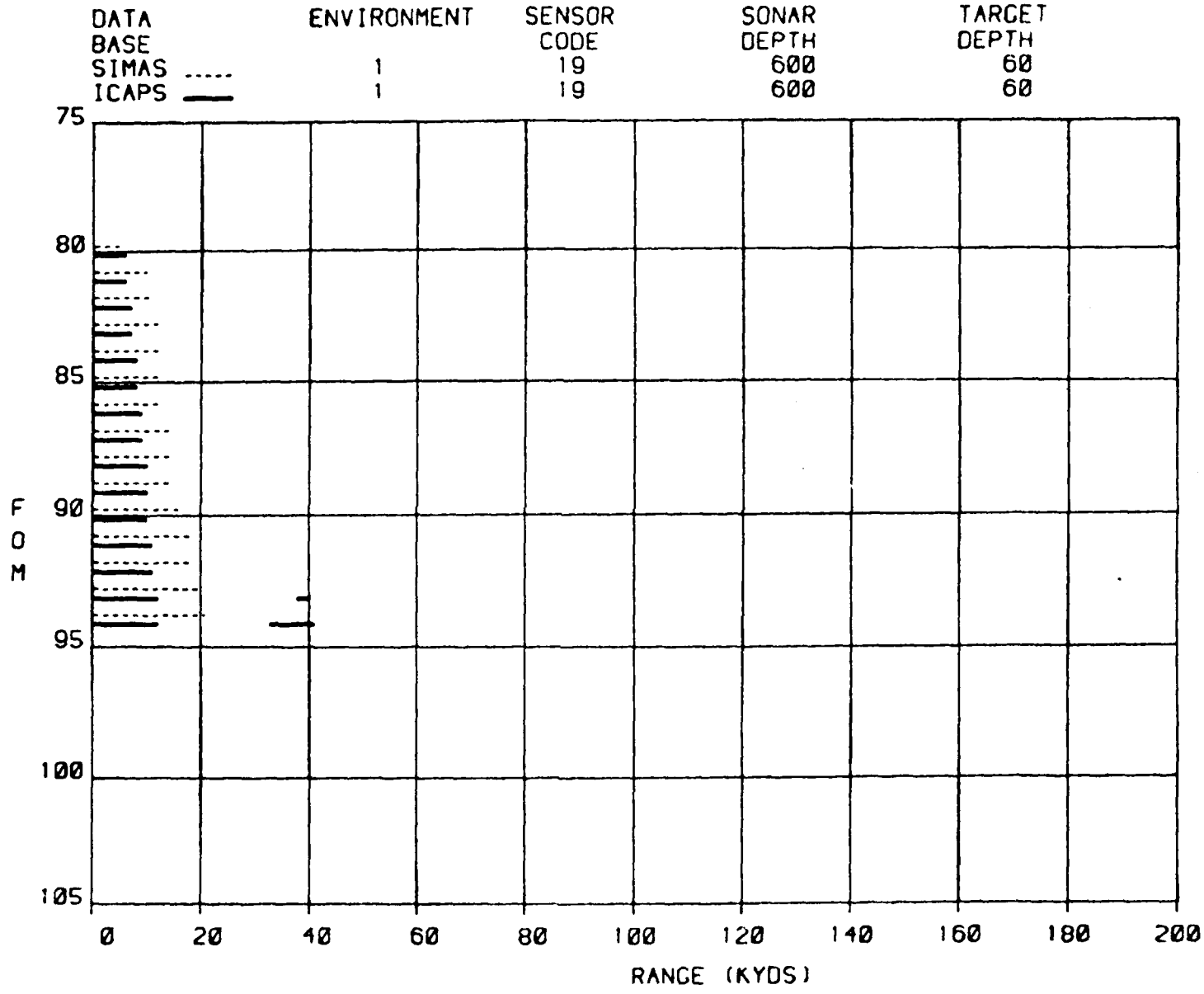
AD-A098 932 NAVAL OCEAN RESEARCH AND DEVELOPMENT ACTIVITY NSTL S--ETC F/G 20/1
ACOUSTIC MODEL SENSITIVITY TO INPUT DATA DIFFERENCES: OBJECTIVE--ETC(U)
SEP 80 B A BRUNSON

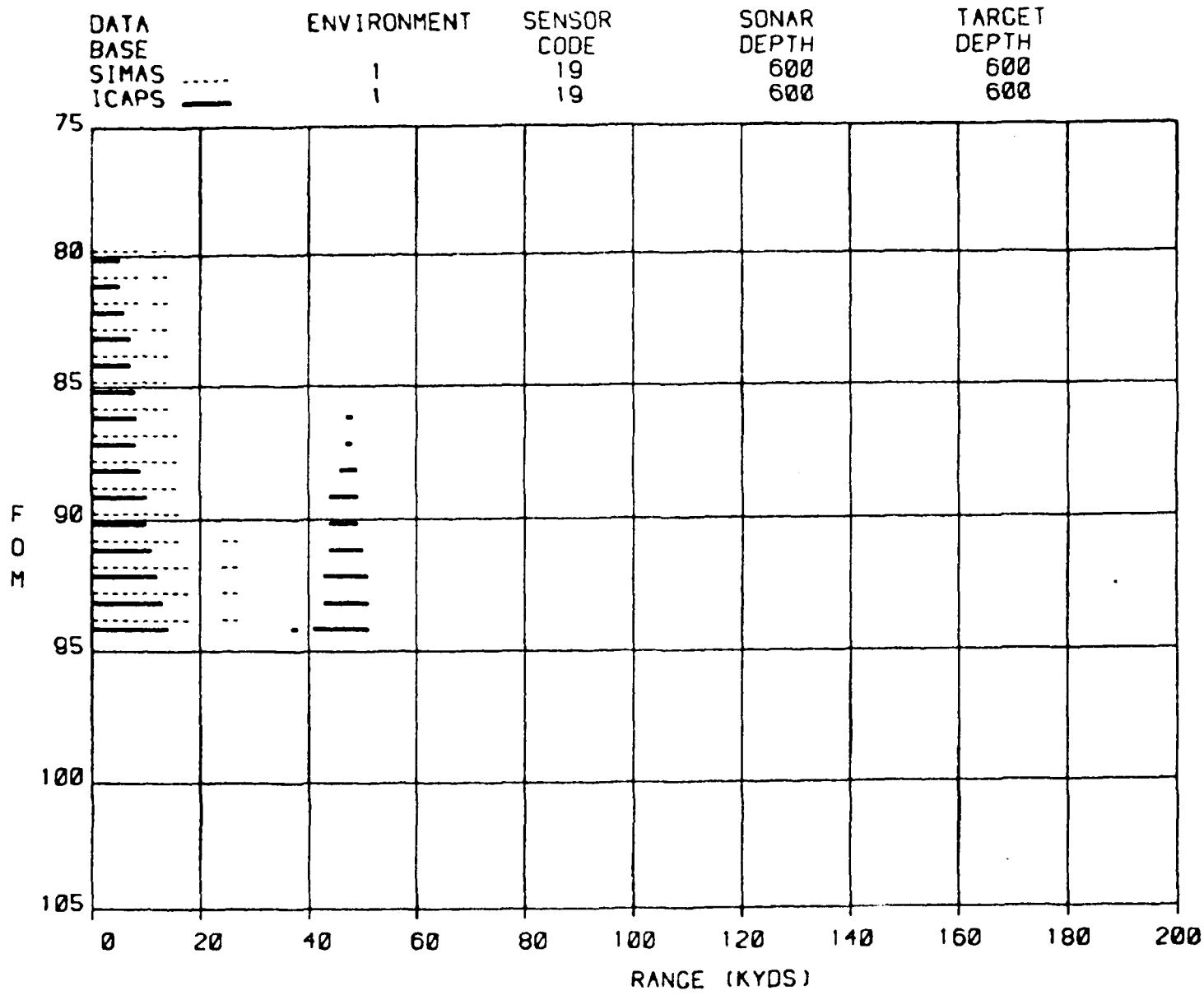
UNCLASSIFIED NORDA-TN-73-VOL-2 NL

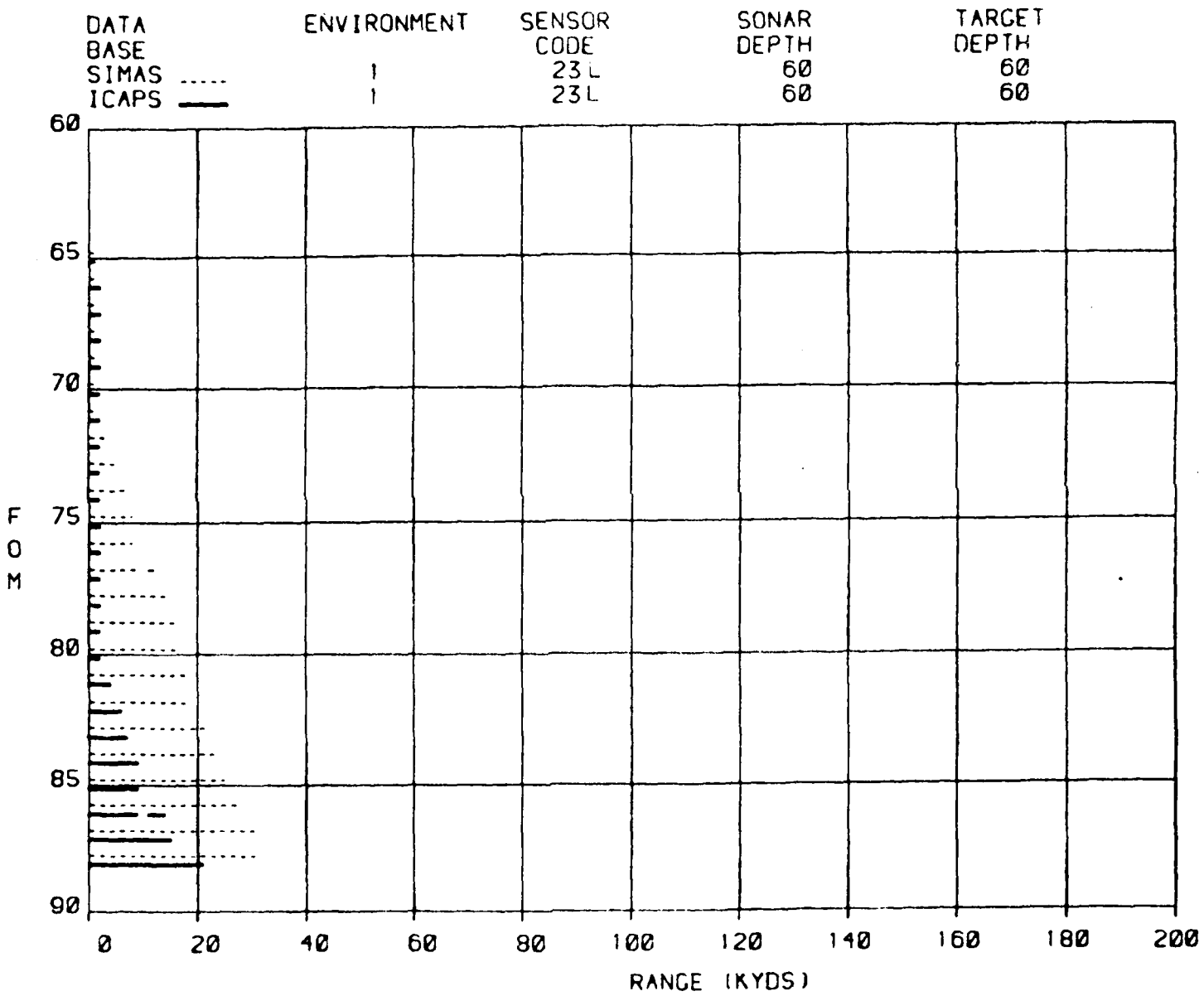
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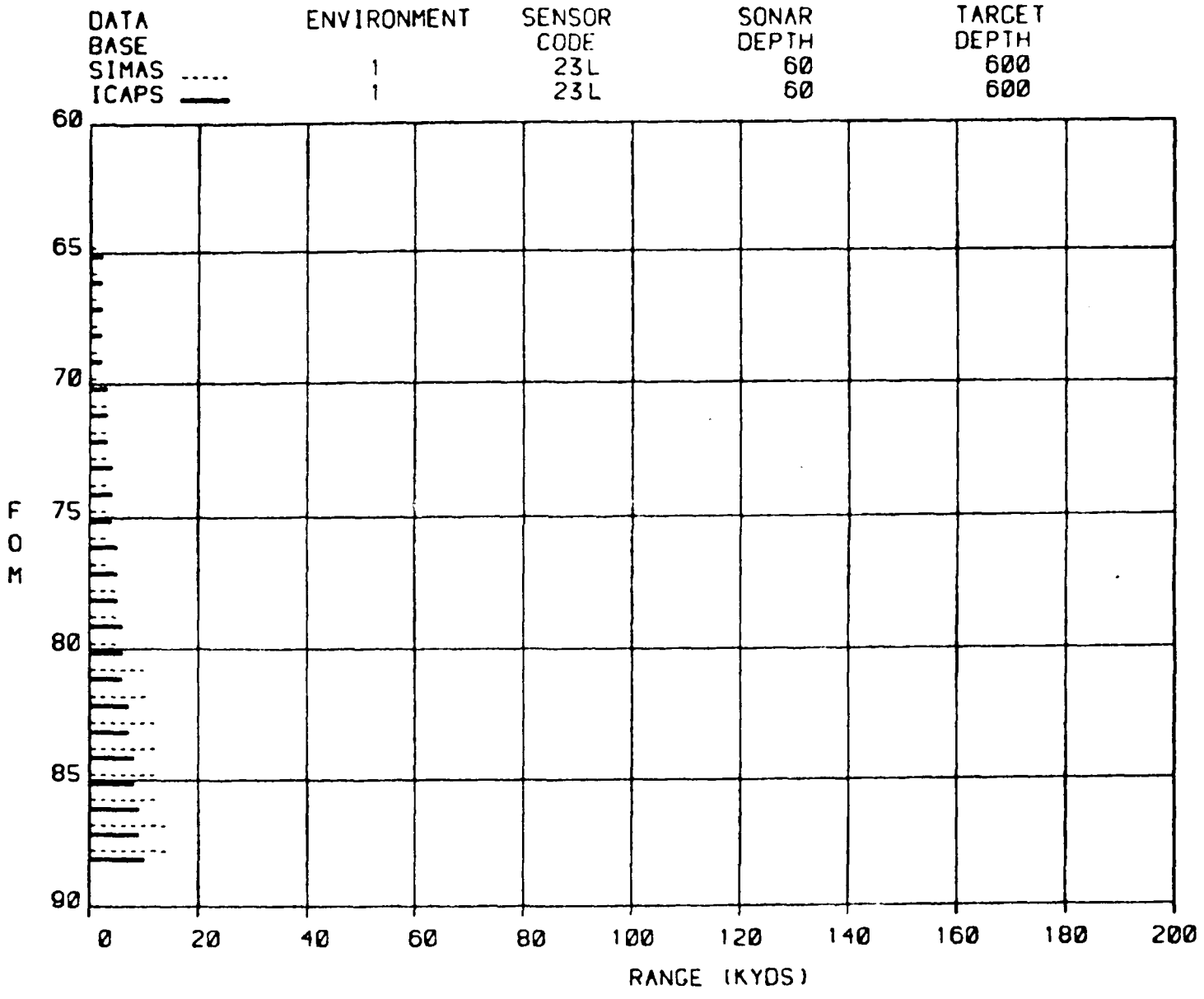


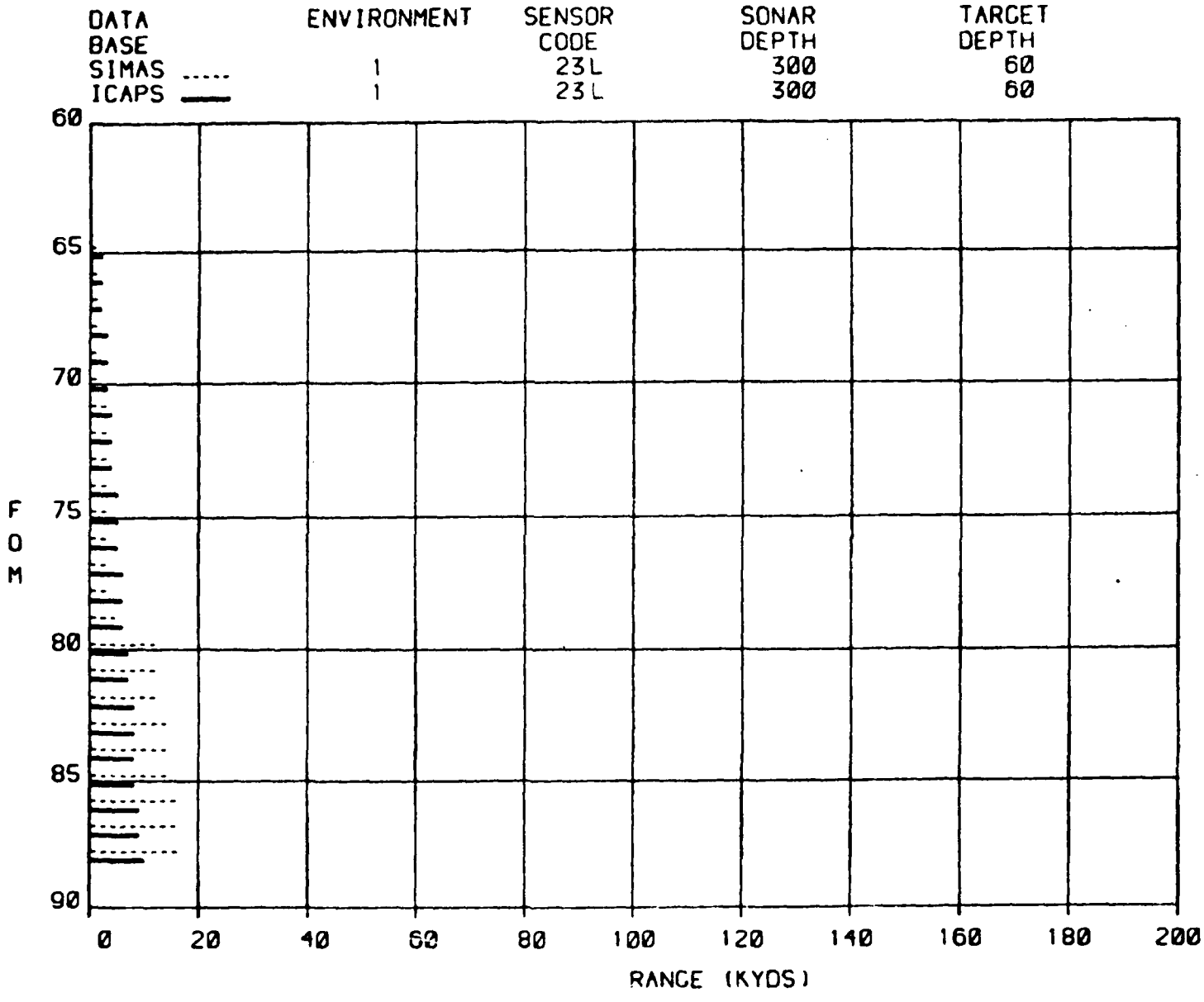

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1.4
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3.2
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4.0
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

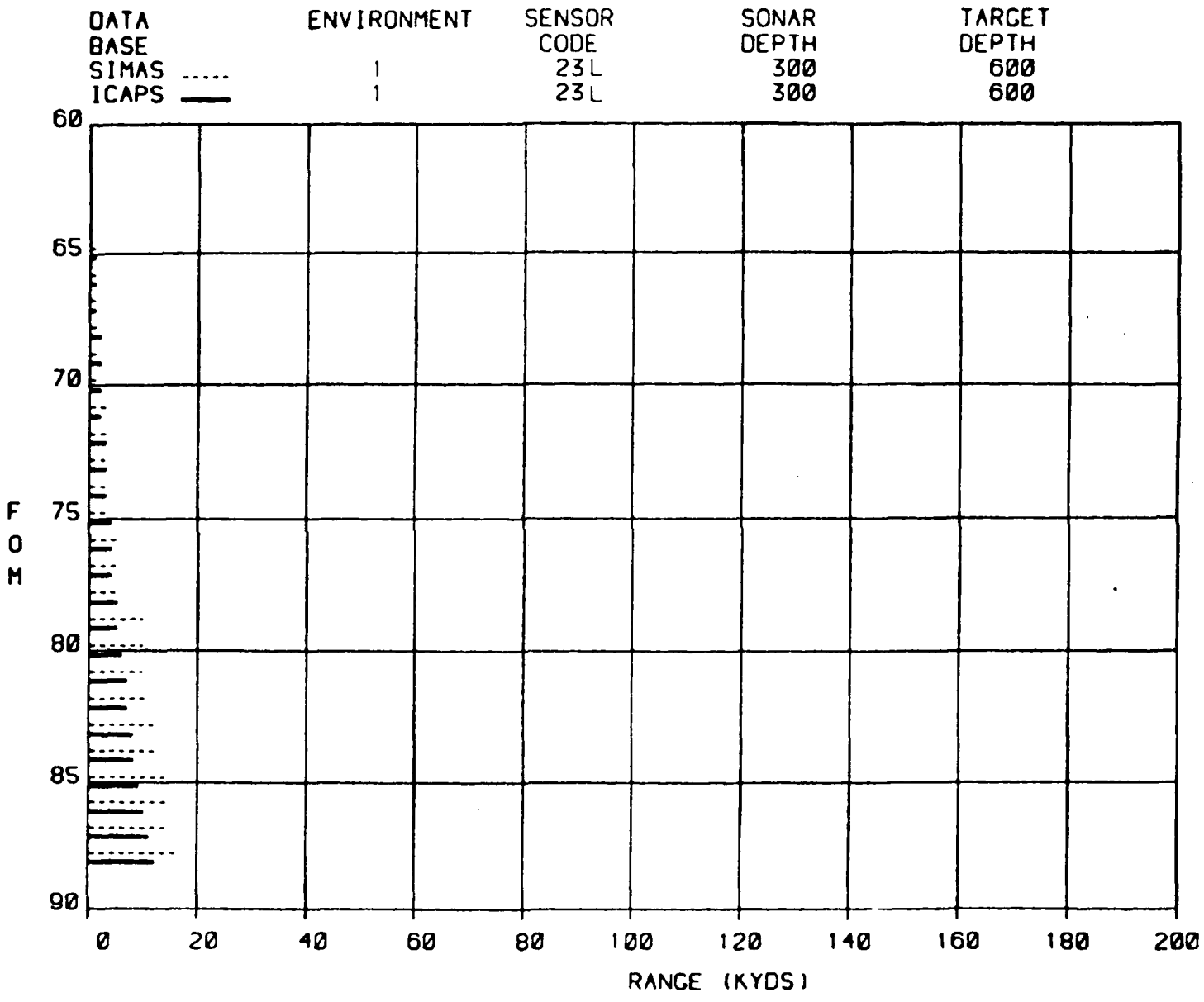

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 19 600 60
ICAPS ——— 1 19 600 60
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80
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105
F O M
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RANGE (KYDS)

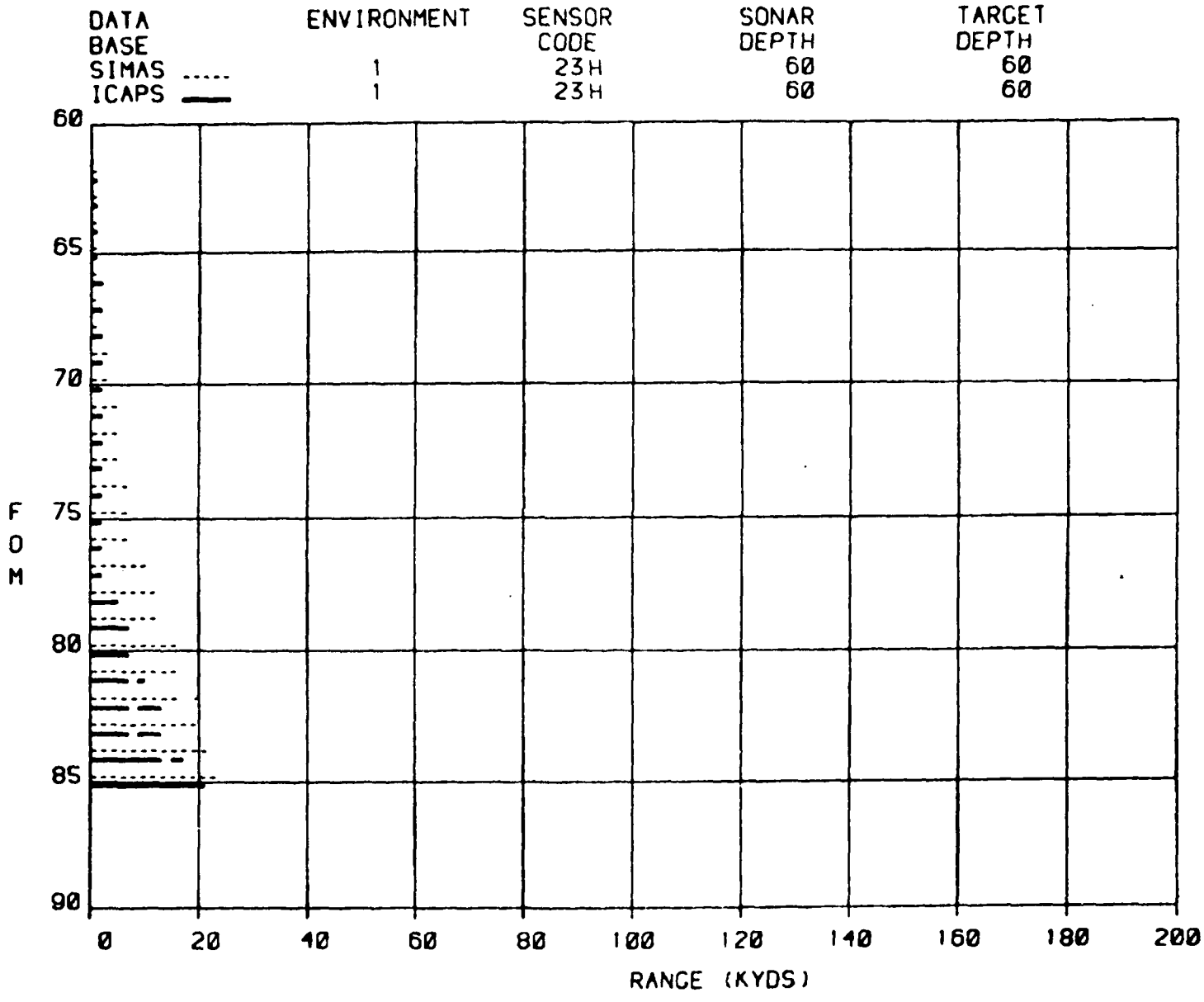

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 1 19 600 600
ICAPS ——— 1 19 600 600
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RANGE (KYDS)

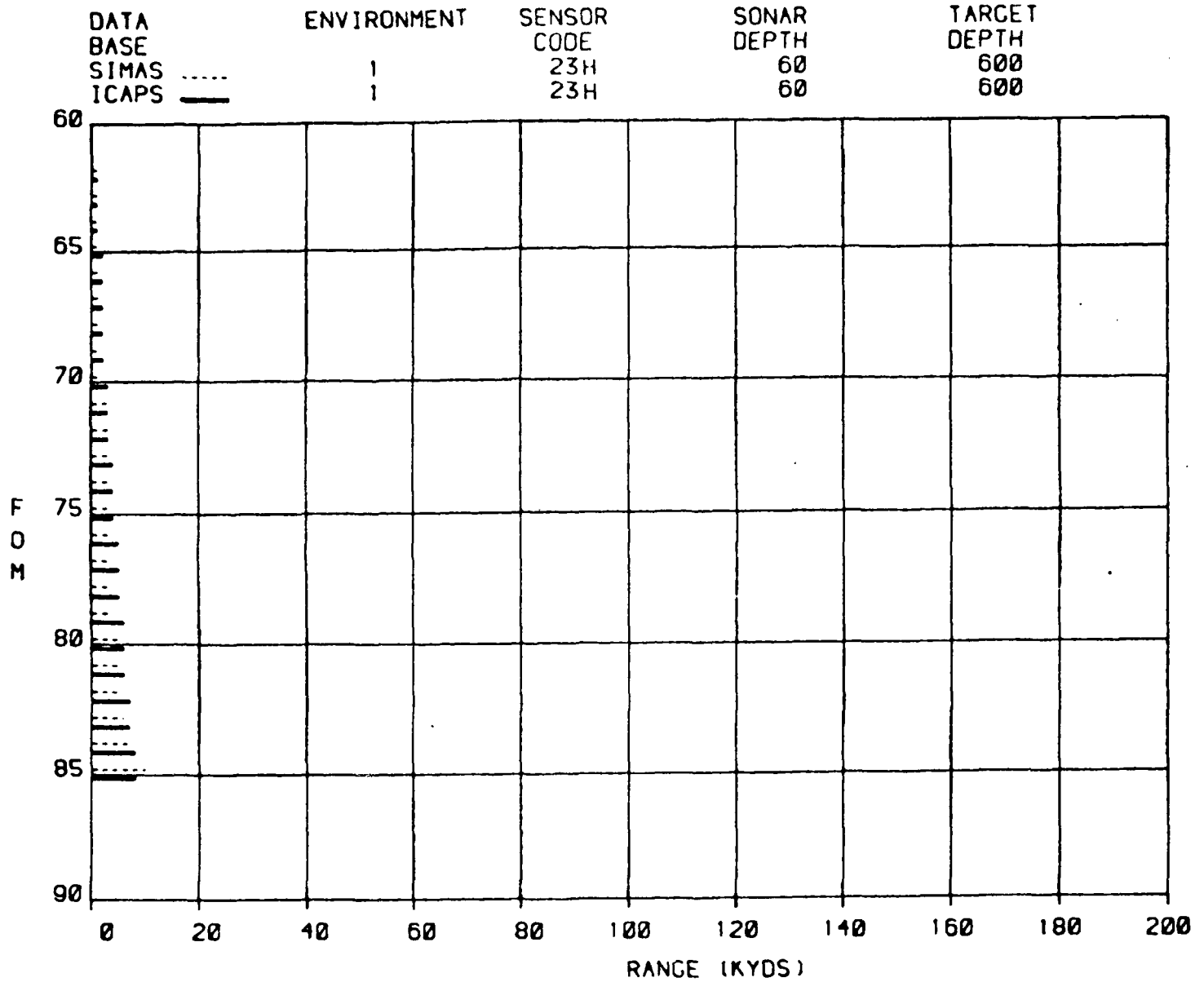

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 23L 60 60
ICAPS ——— 1 23L 60 60
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F O M
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200
RANGE (KYDS)

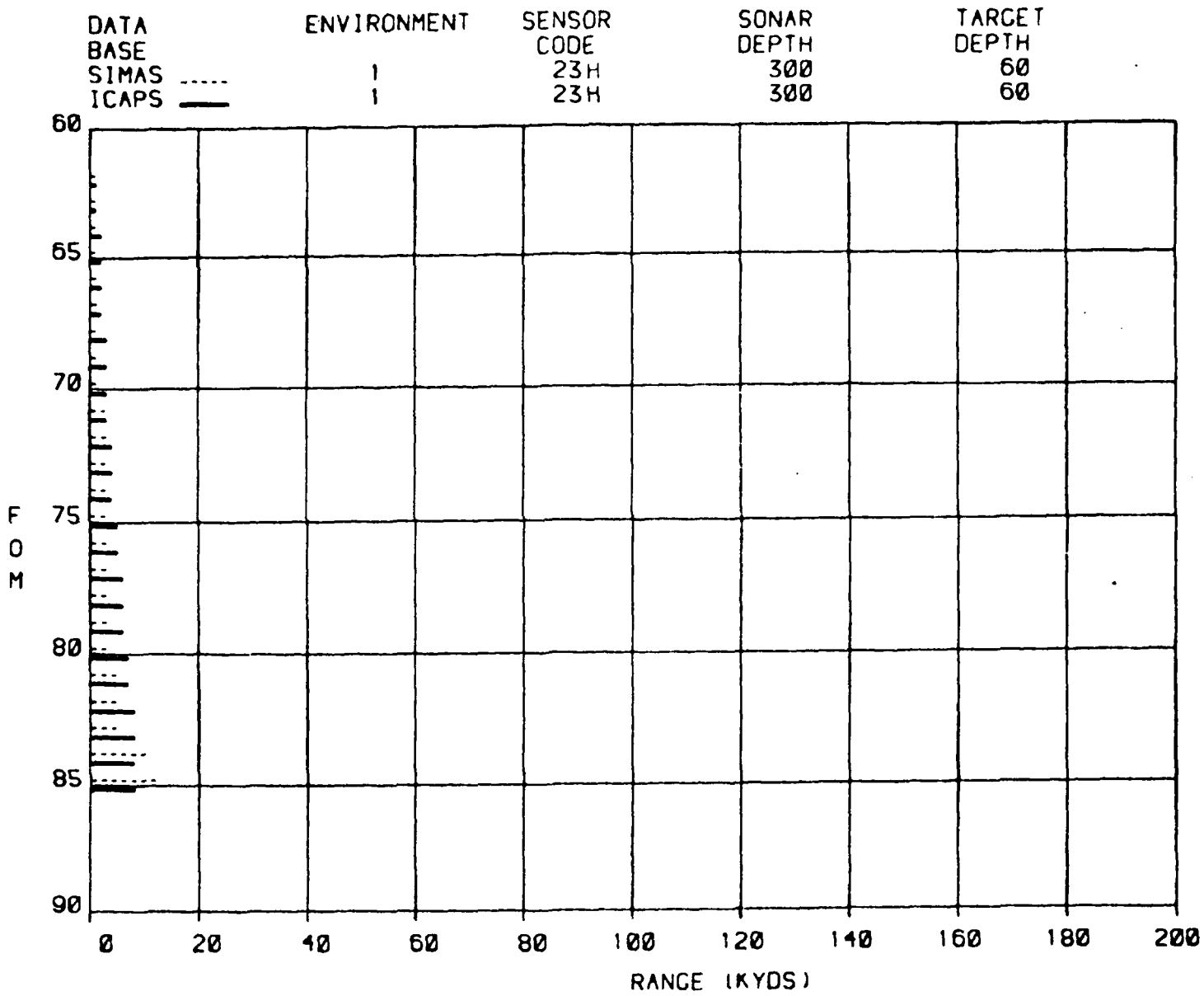

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 1 23L 60 600
ICAPS ——— 1 23L 60 600
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F O M
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RANGE (KYDS)

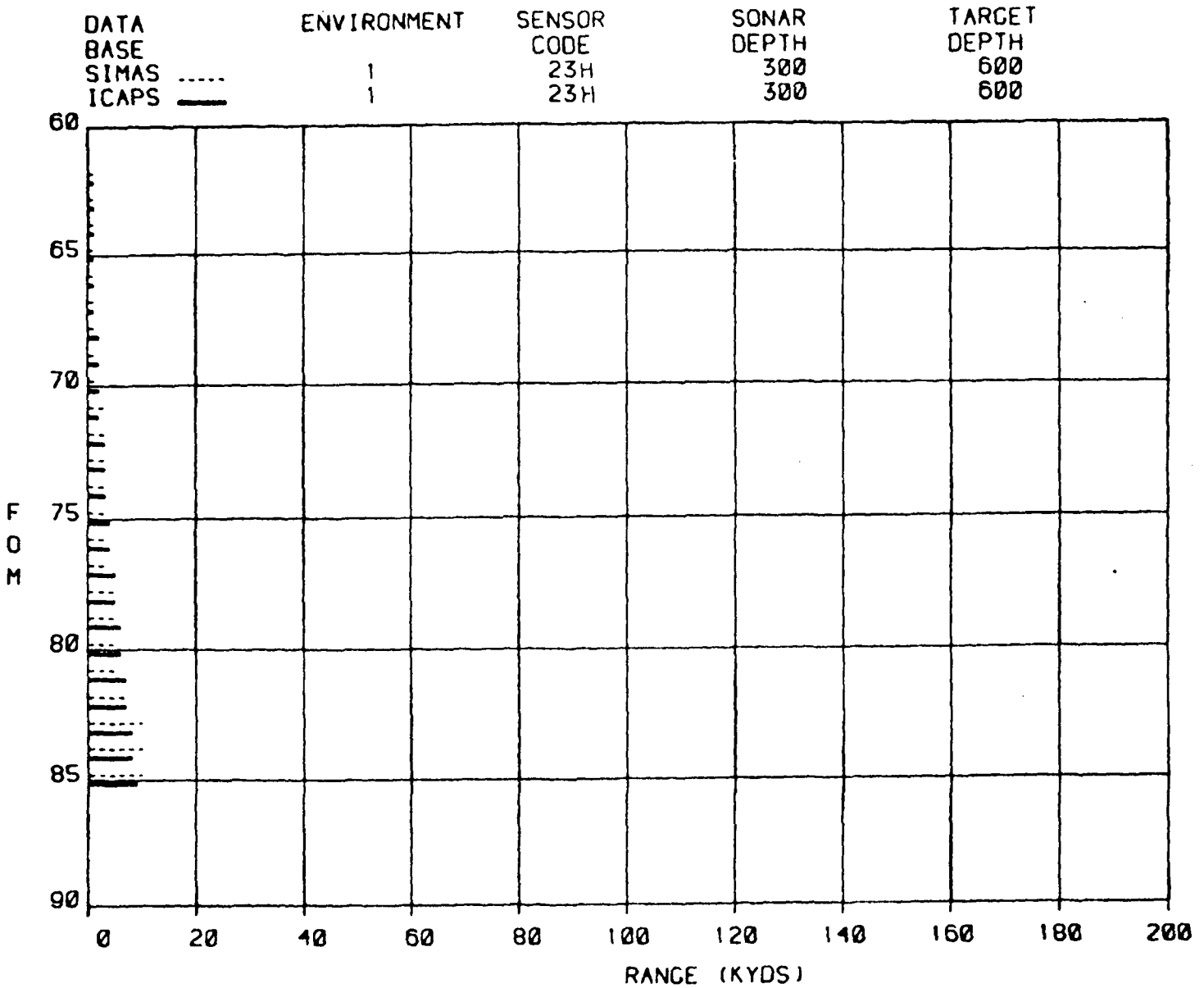

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 1 23L 300 60
ICAPS ——— 1 23L 300 60
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RANGE (KYDS)

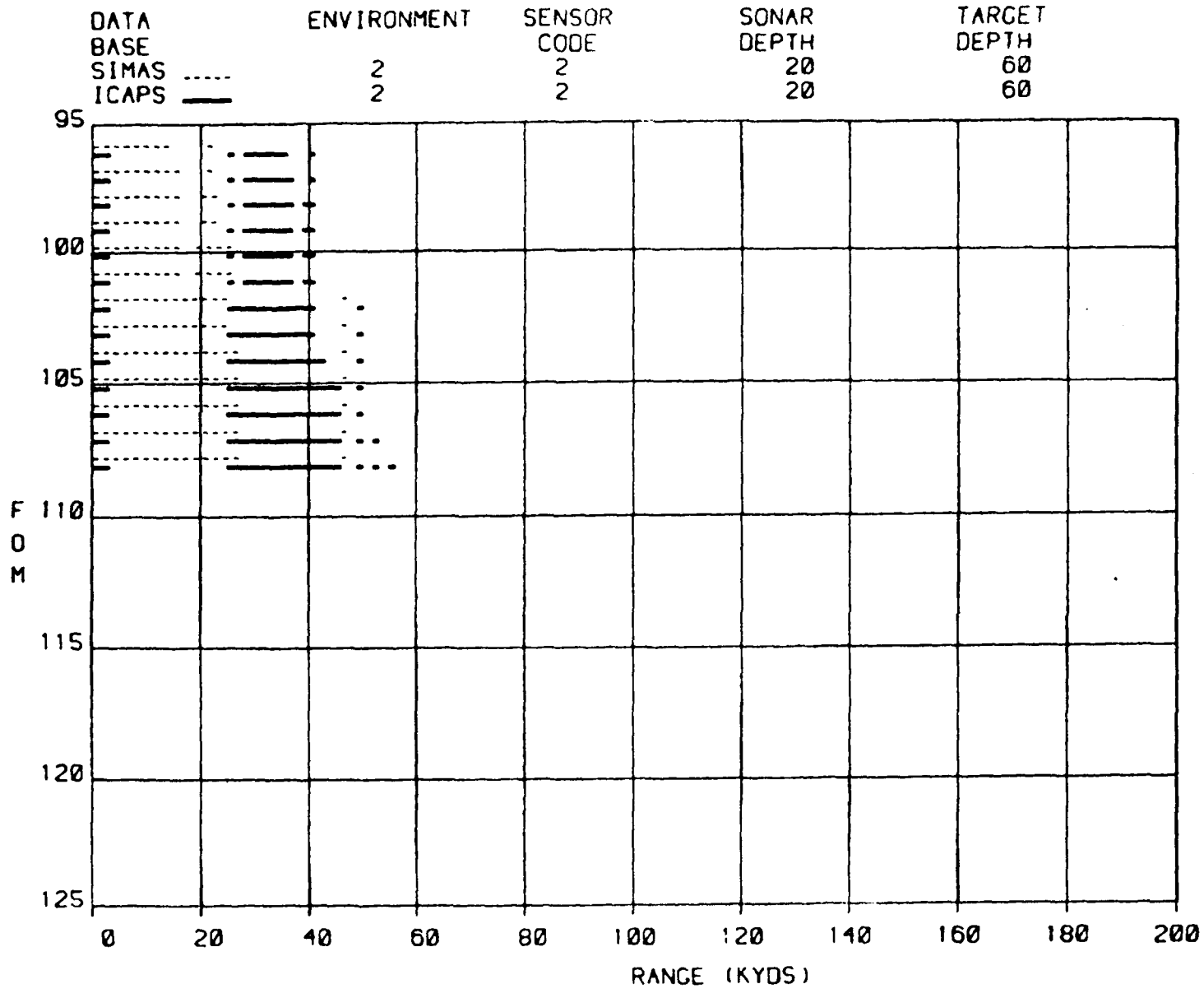

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 23L 300 600
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RANGE (KYDS)

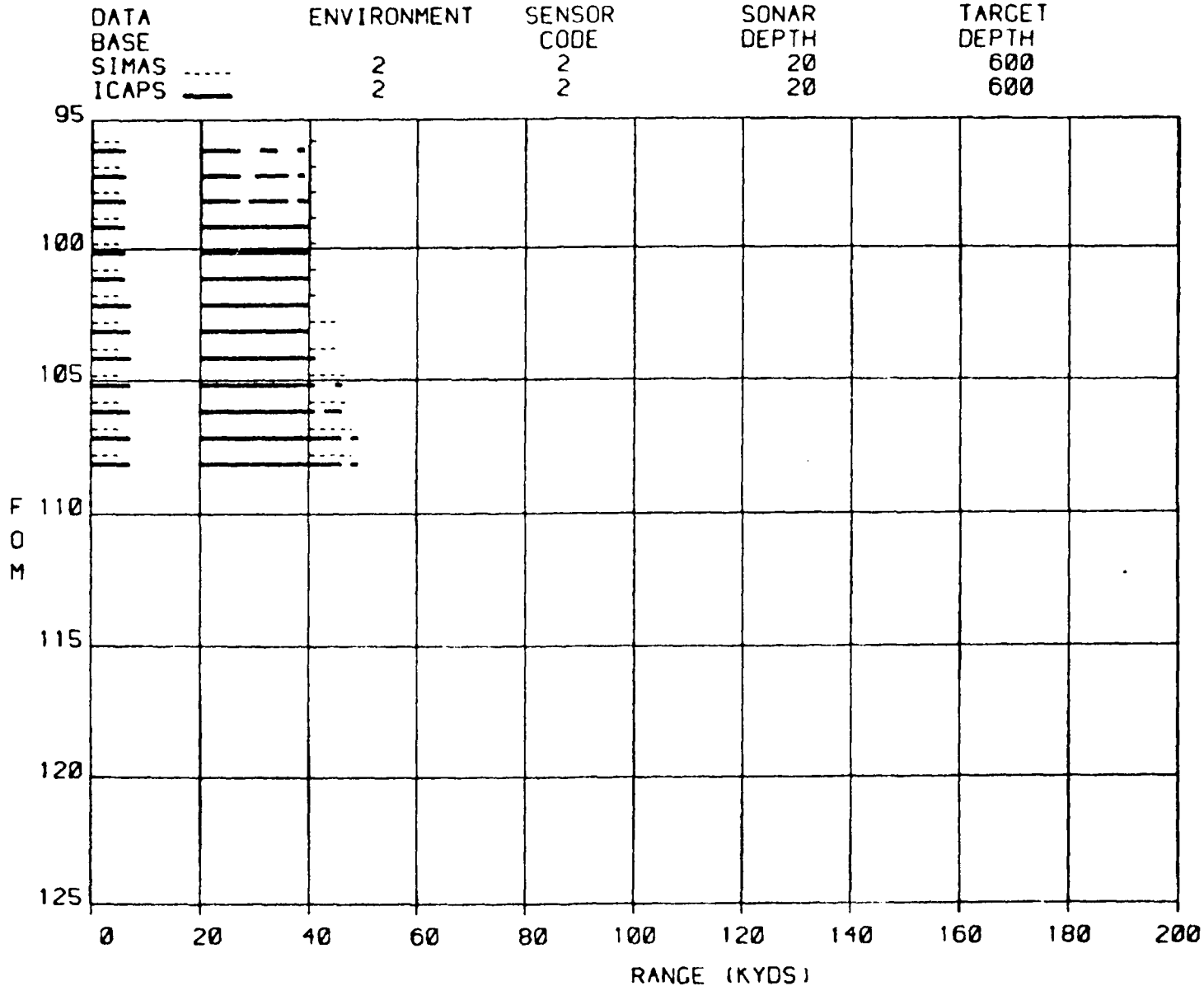

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 23H 60 60
ICAPS ——— 1 23H 60 60
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RANGE (KYDS)

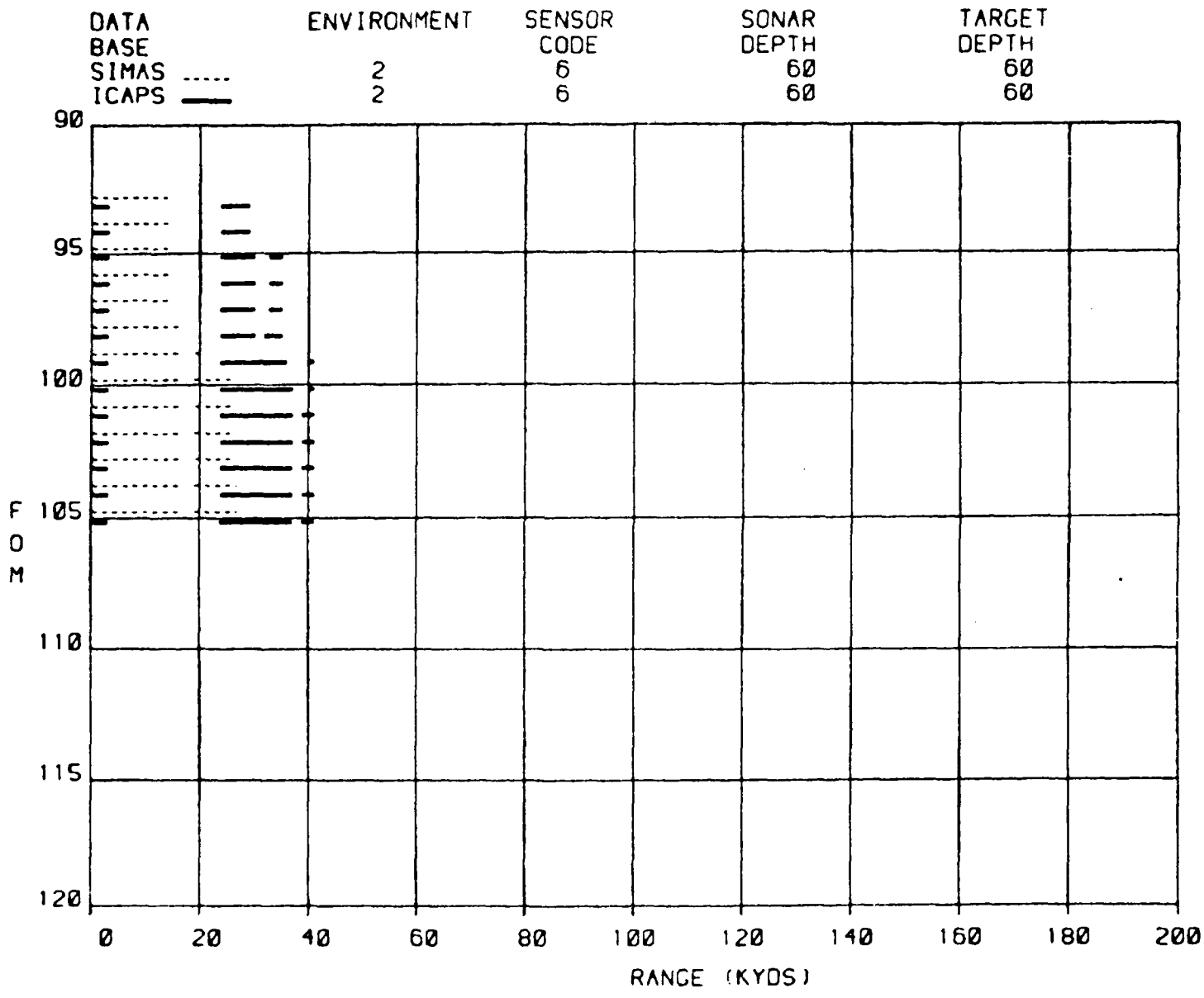

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 1 23H 60 600
ICAPS ——— 1 23H 60 600
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RANGE (KYDS)

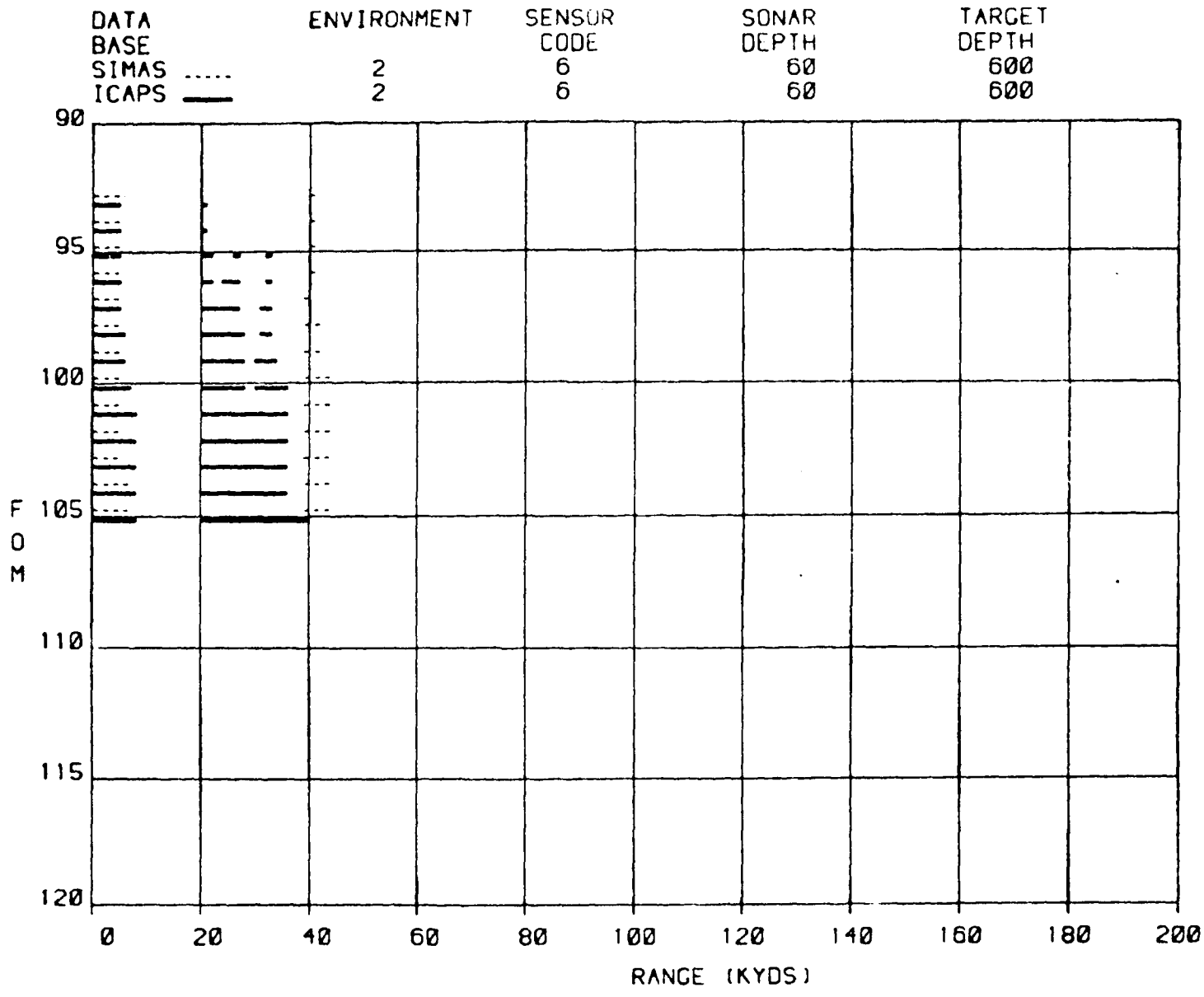

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 1 23H 300 60
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RANGE (KYDS)

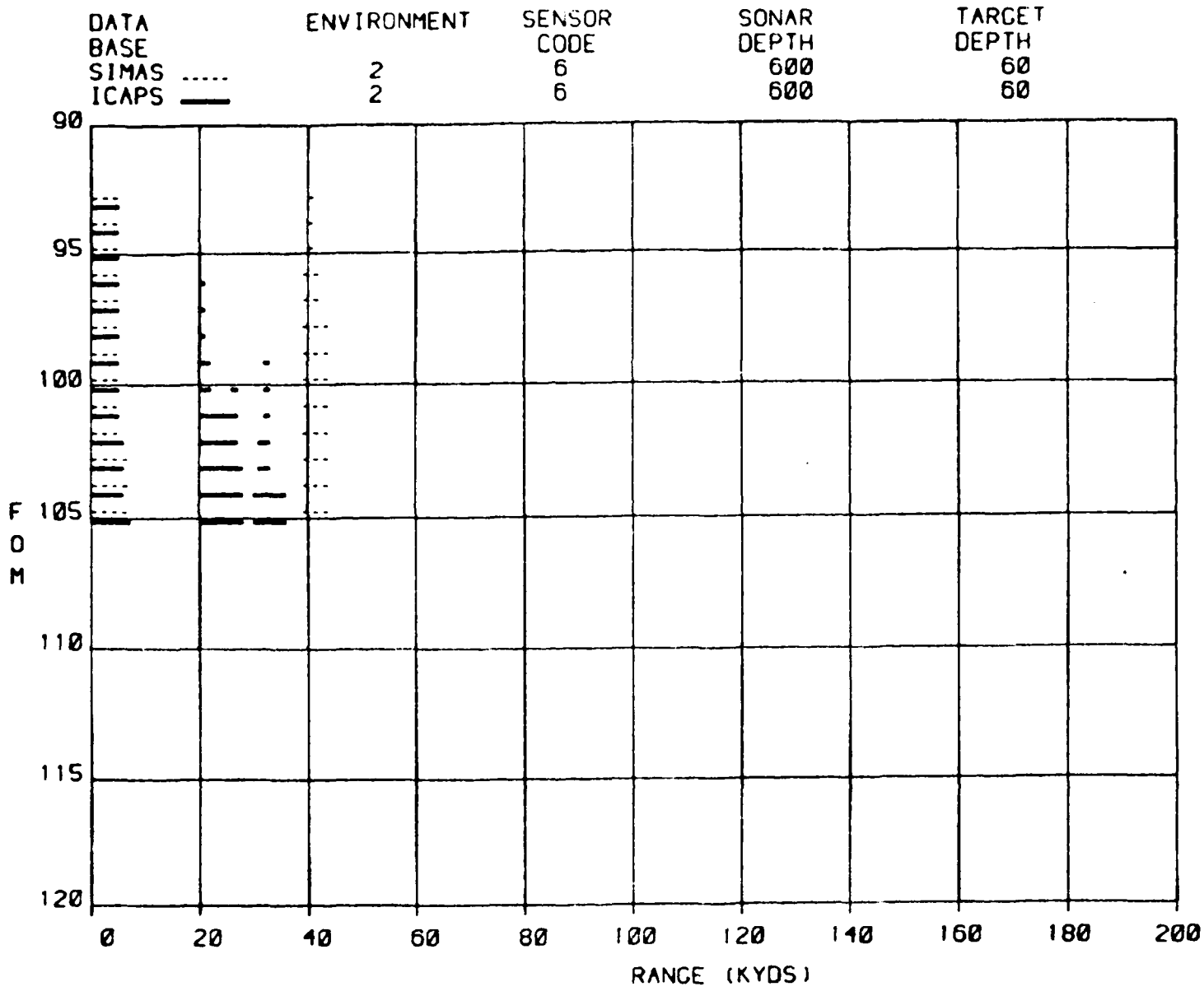

DATA BASE
ENVIRONMENT
SENSOR CODE
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TARGET DEPTH
SIMAS ----- 1 23H 300 600
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RANGE (KYDS)

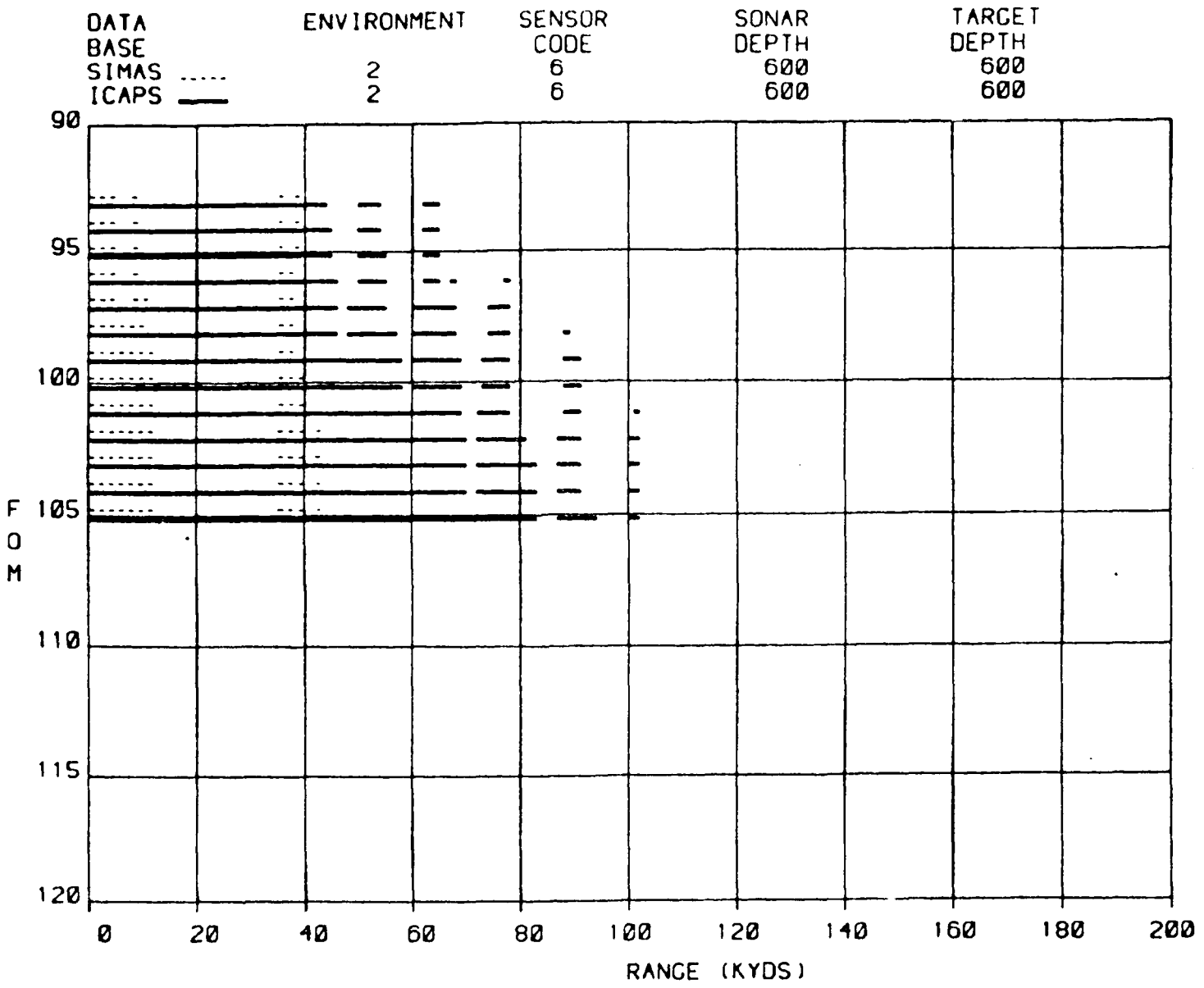

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 2 2 20 60
ICAPS 2 2 20 60
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RANGE (KYDS)

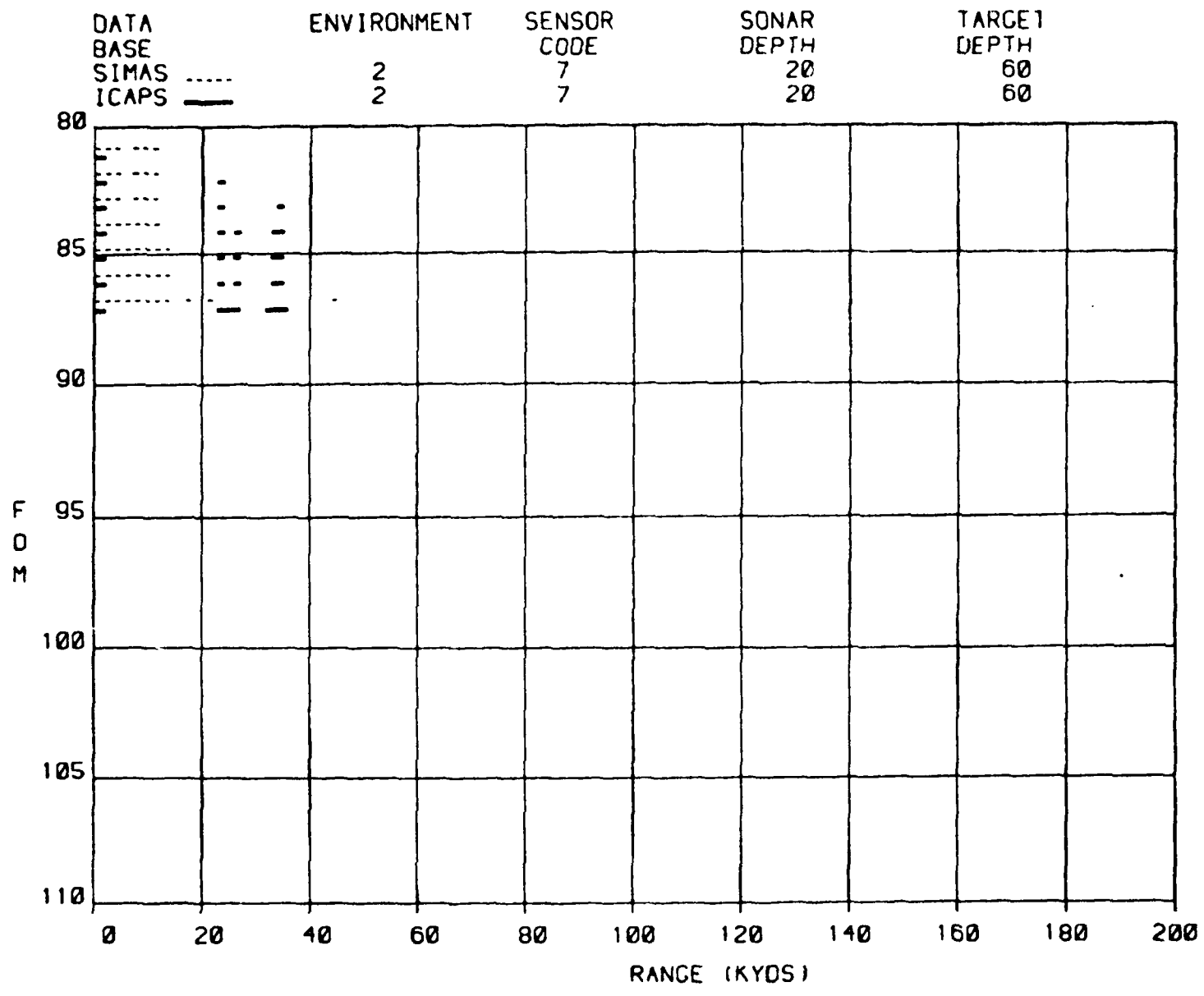

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 2 20 600
ICAPS —— 2 2 20 600
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RANGE (KYDS)

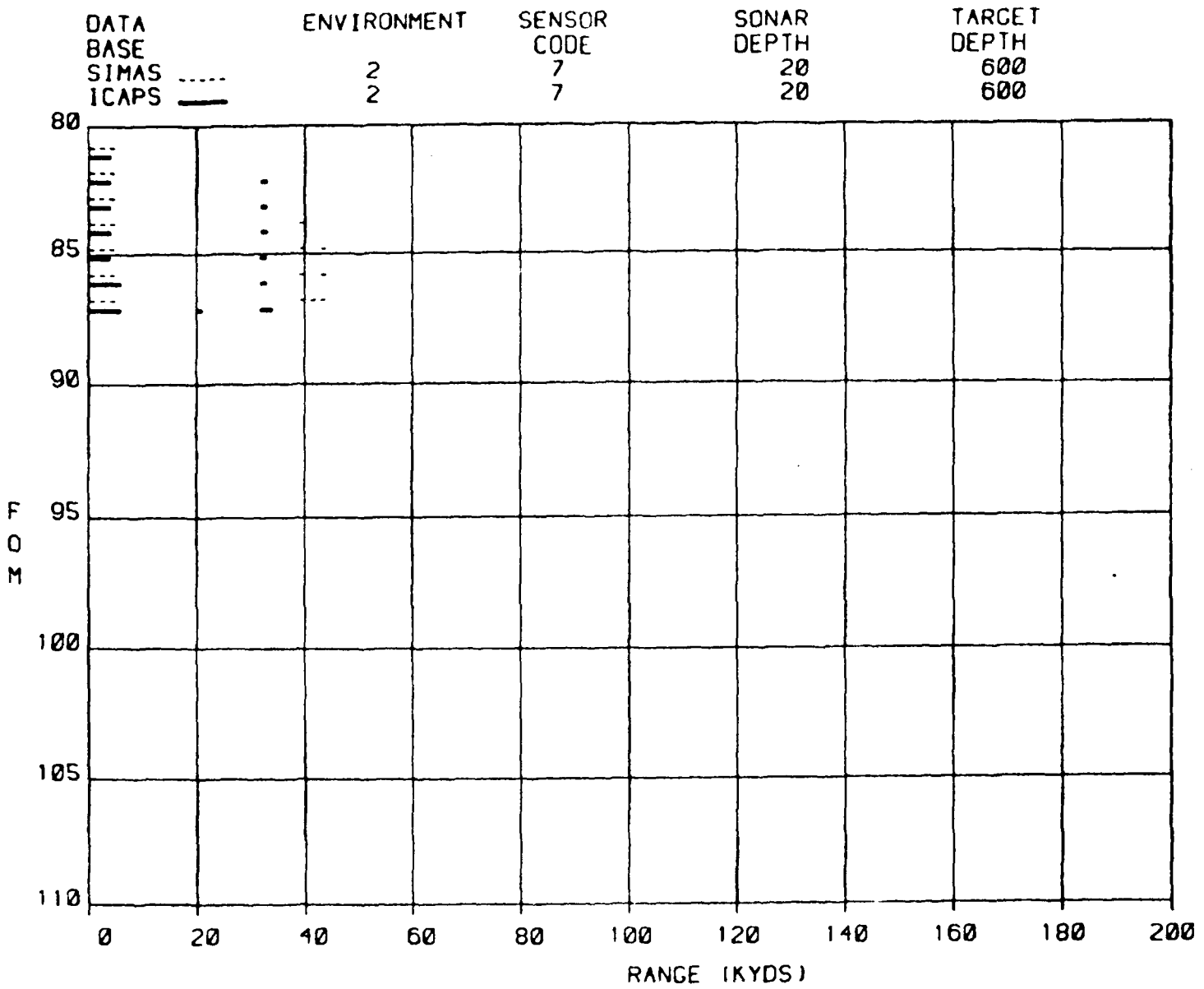

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 2 6 60 60
ICAPS 2 6 60 60
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F O M
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RANGE (KYDS)

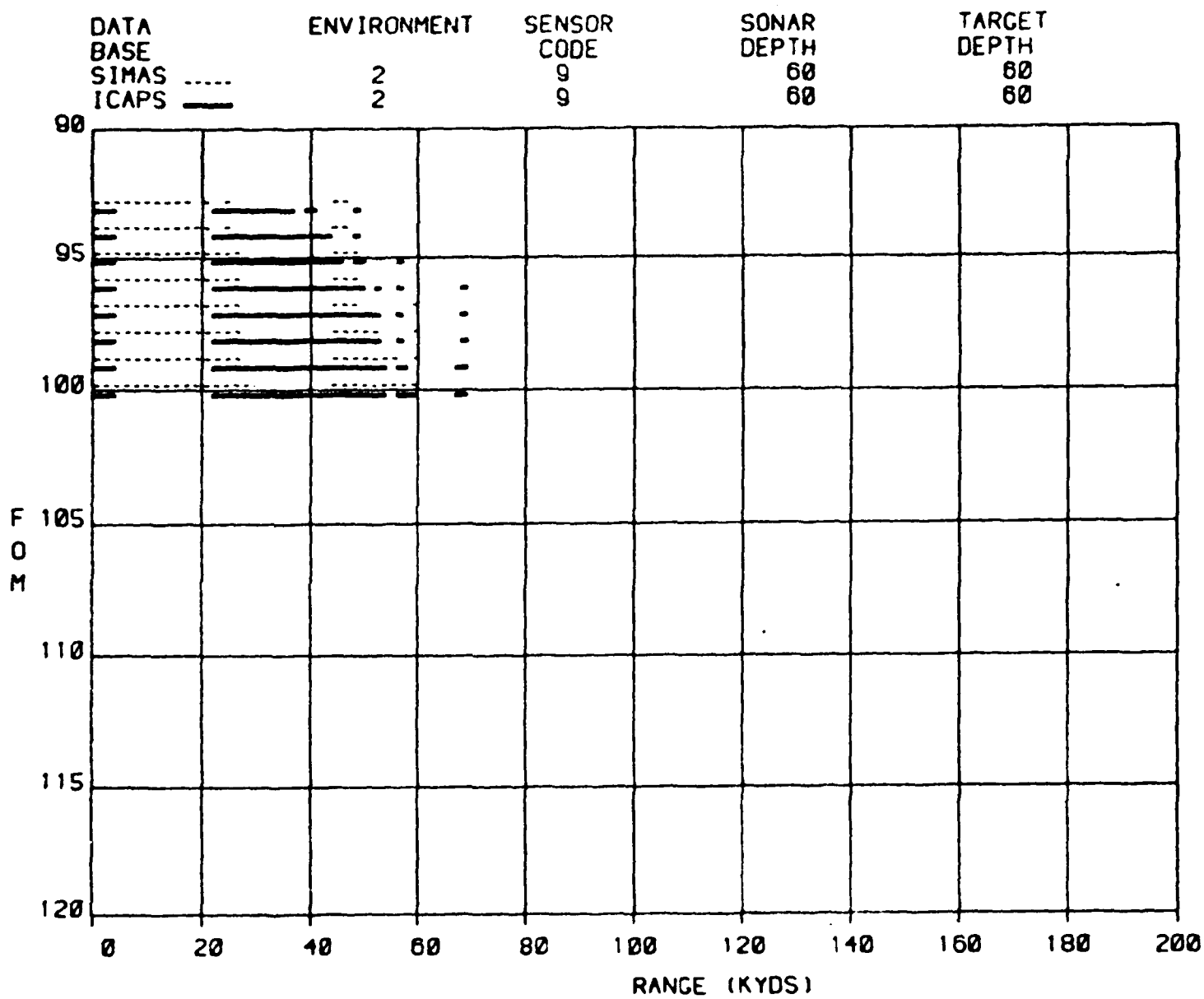

DATA BASE
ENVIRONMENT
SENSOR CODE
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TARGET DEPTH
SIMAS 2 6 60 600
ICAPS ——— 2 6 60 600
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RANGE (KYDS)

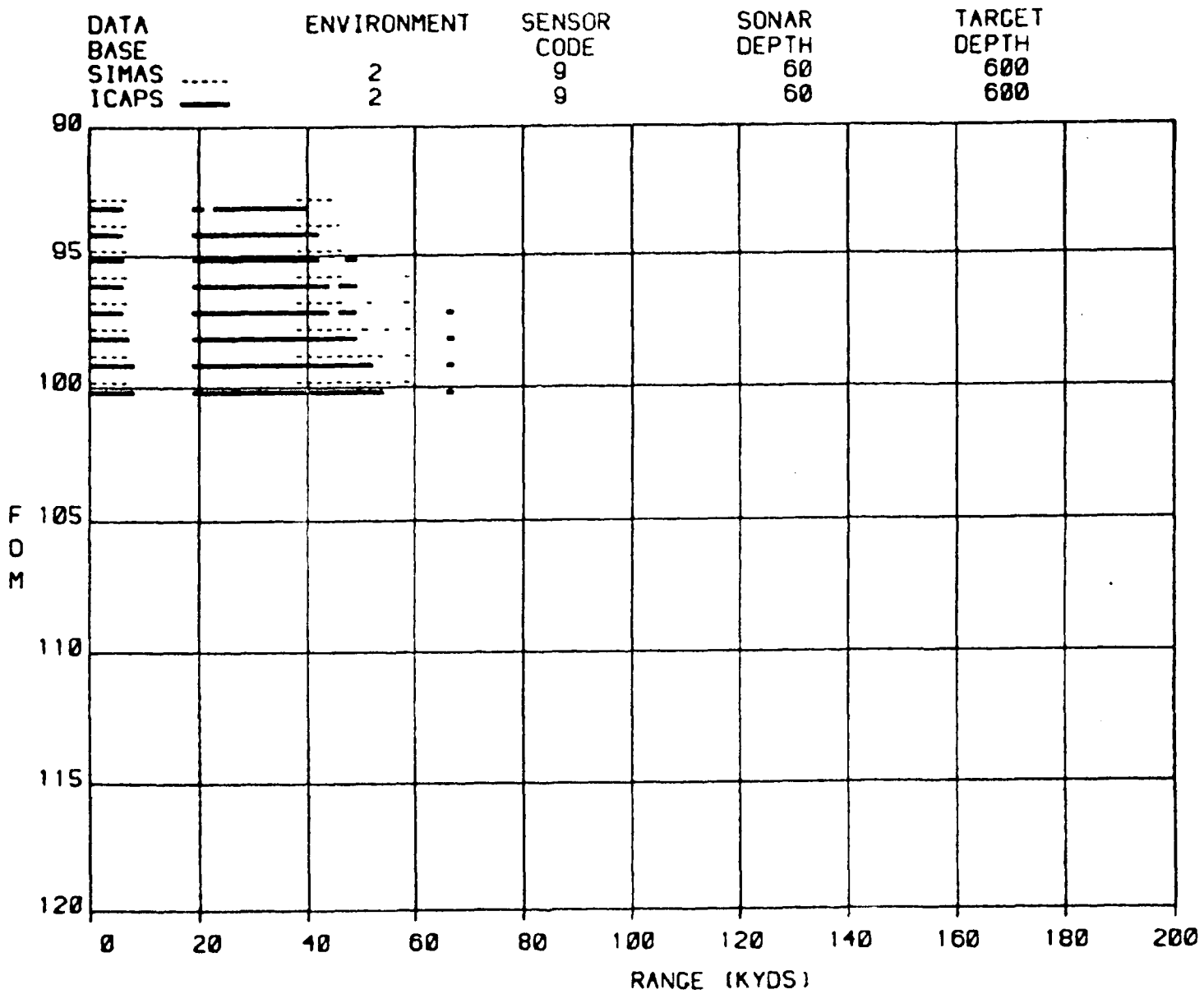

DATA BASE
ENVIRONMENT
SENSOR CODE
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TARGET DEPTH
SIMAS ----- 2 6 600 60
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RANGE (KYDS)

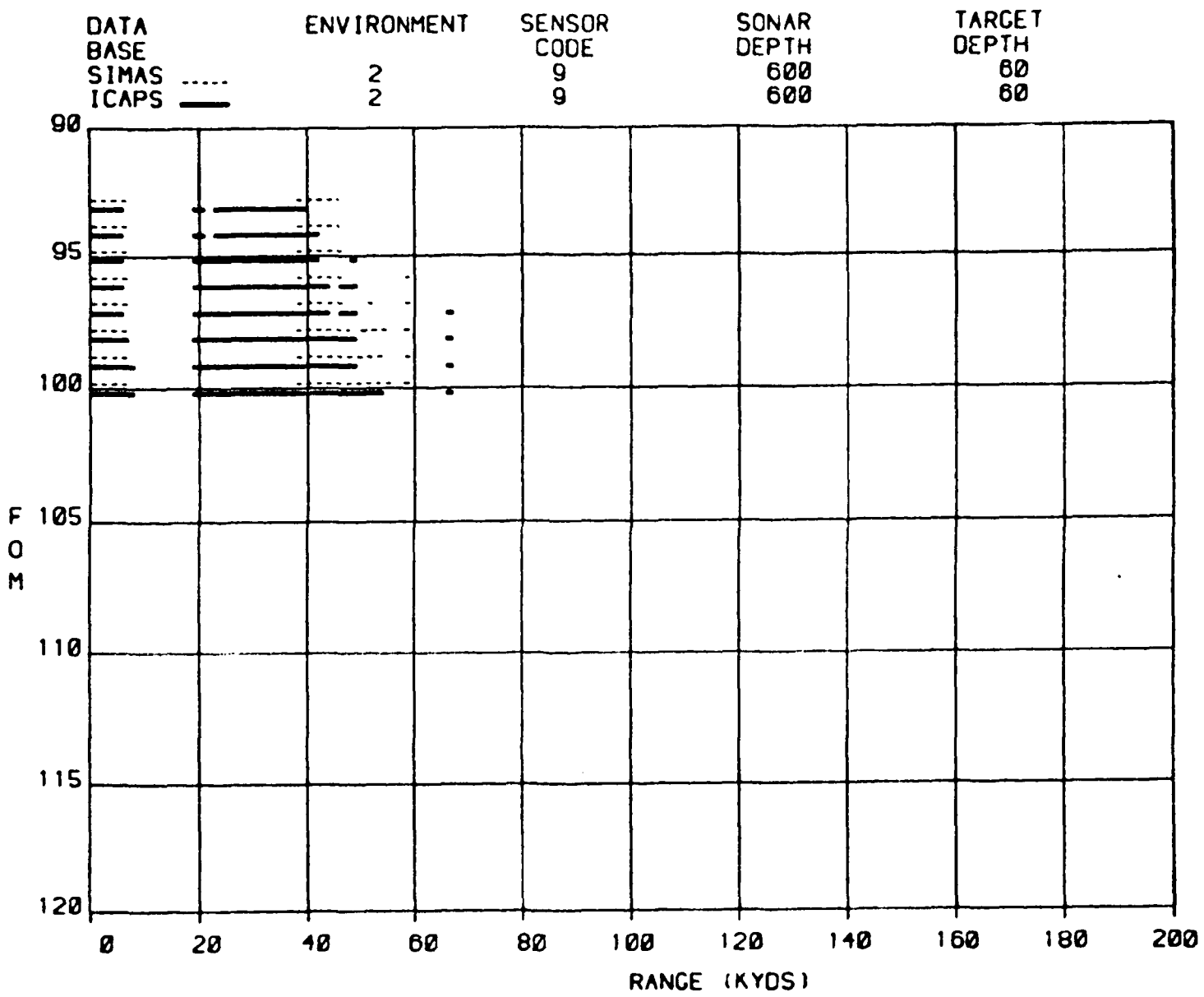

DATA BASE
ENVIRONMENT
SENSOR CODE
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TARGET DEPTH
SIMAS 2 6 600 600
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RANGE (KYDS)

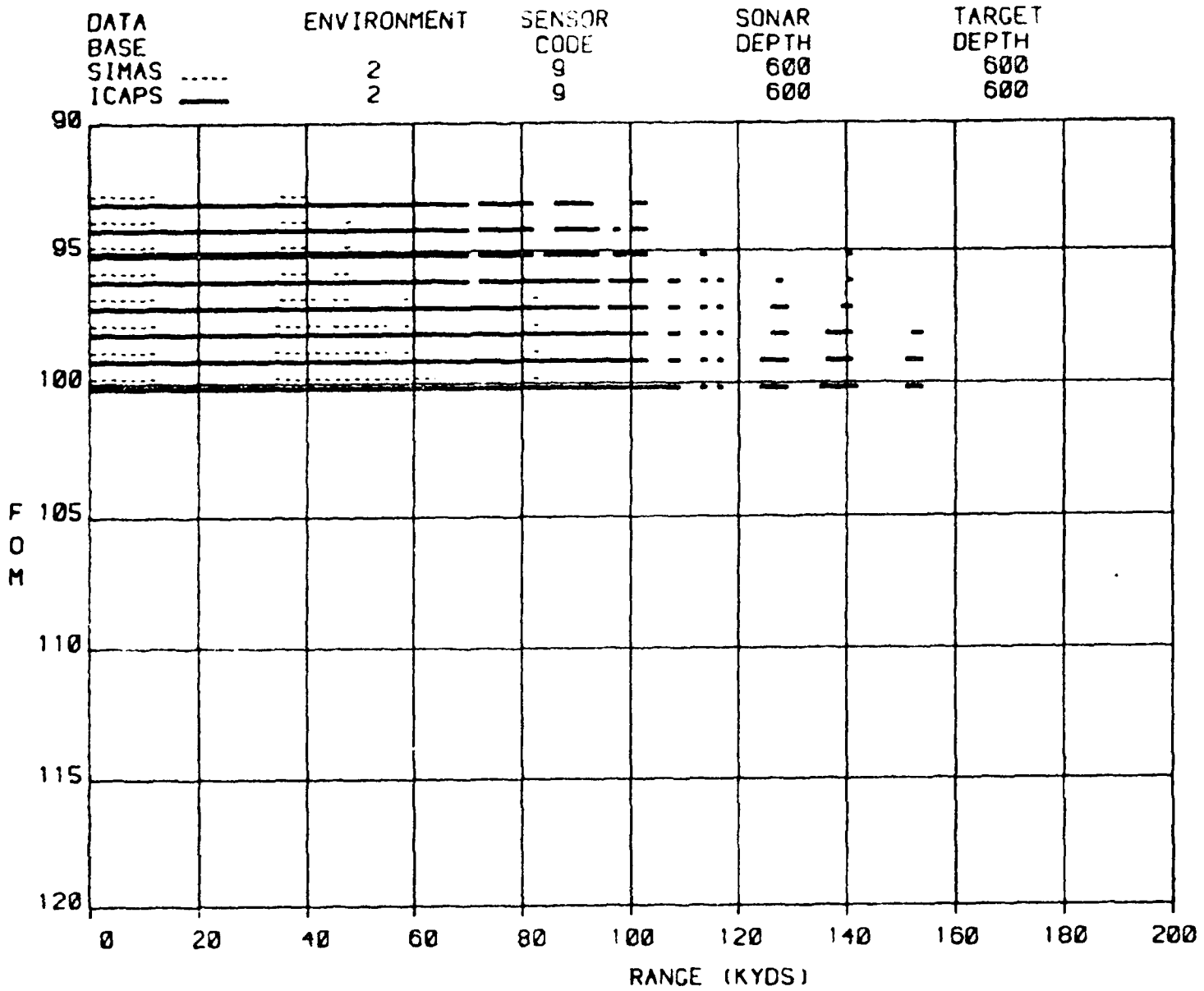

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 7 20 60
ICAPS —— 2 7 20 60
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RANGE (KYDS)

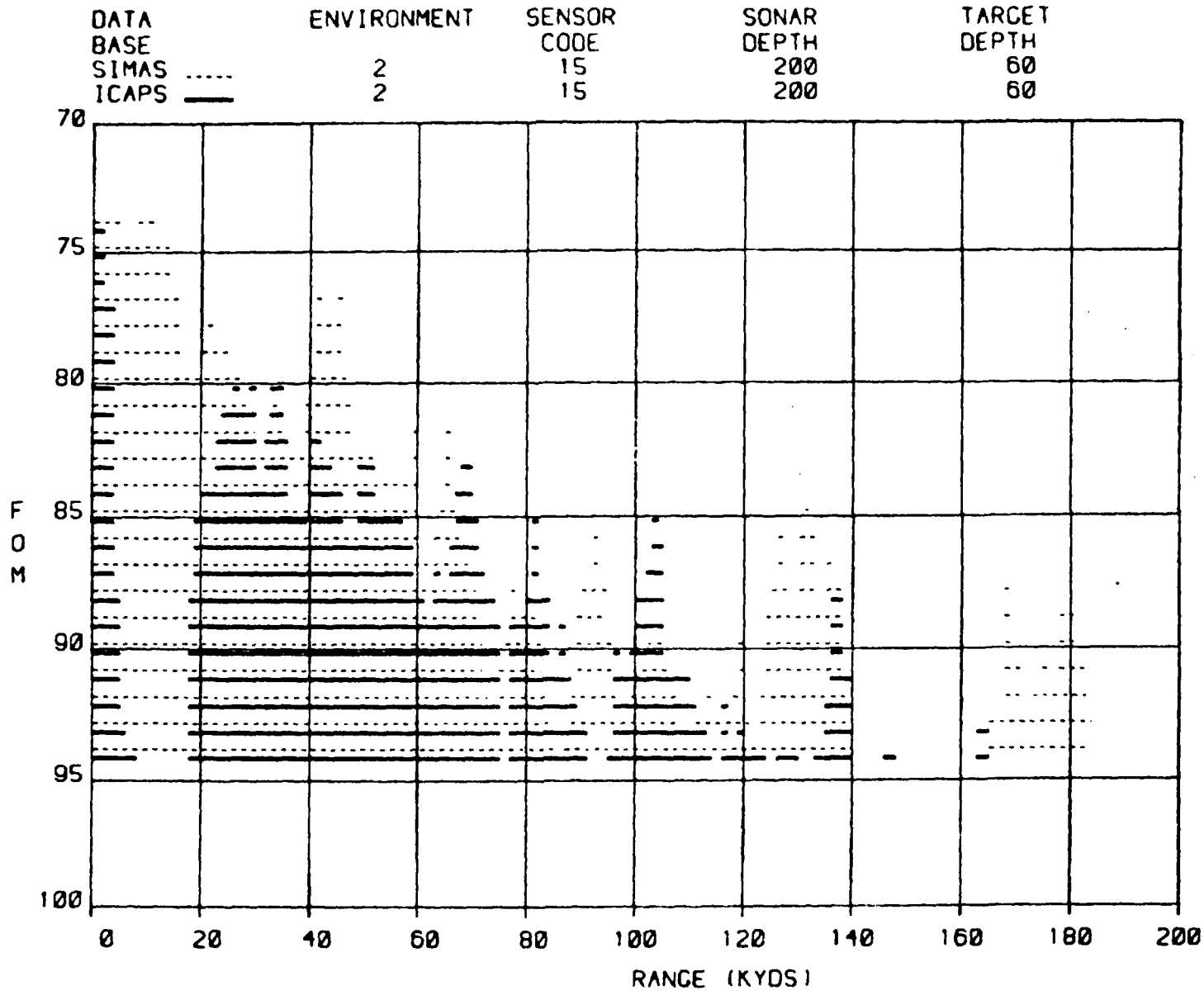

DATA BASE
ENVIRONMENT
SENSOR CODE
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TARGET DEPTH
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ICAPS —— 2 7 20 600
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200
RANGE (KYDS)

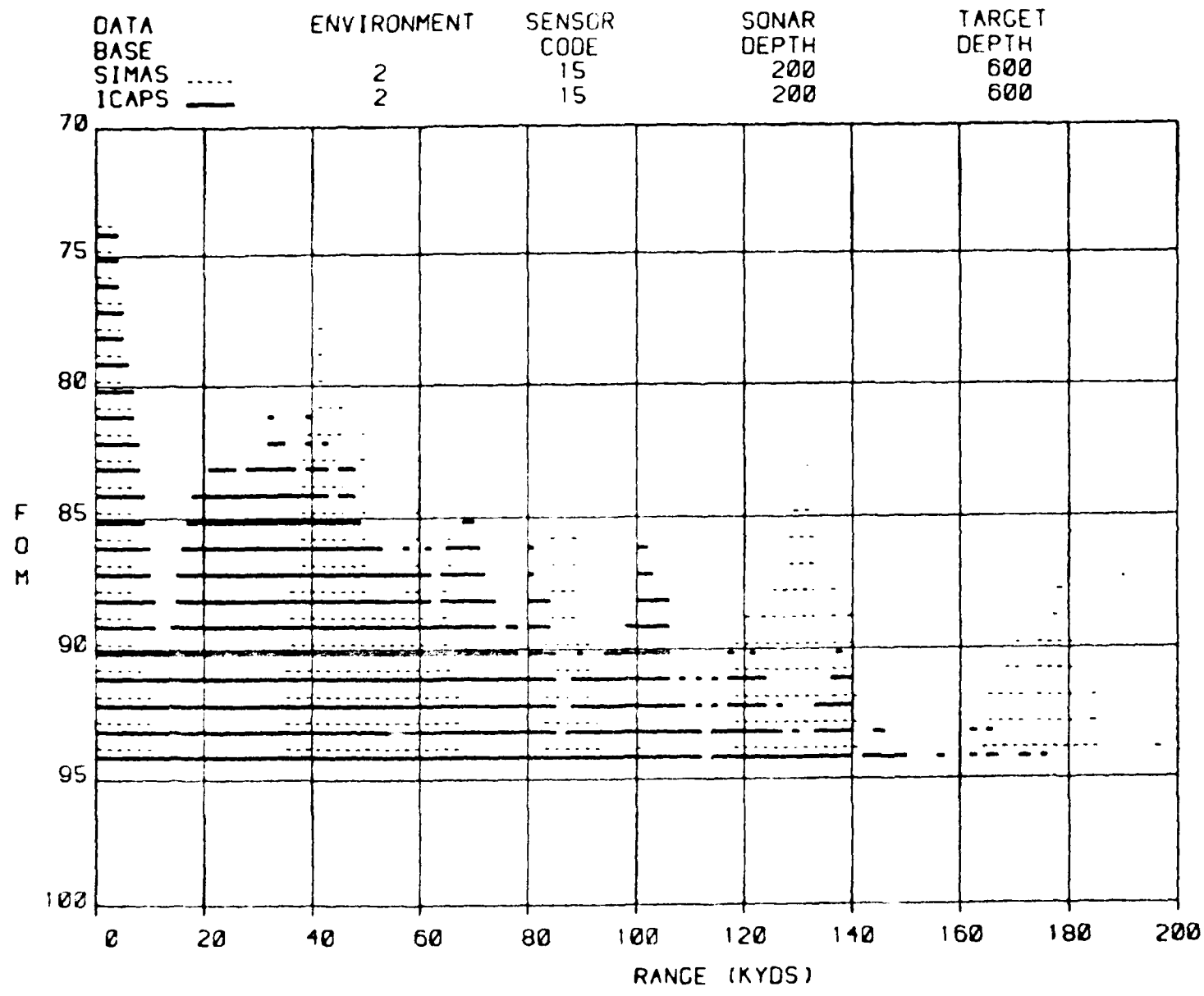

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 9 60 60
ICAPS ——— 2 9 60 60
90
95
100
105
110
115
120
F O M
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20
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60
80
100
120
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200
RANGE (KYDS)

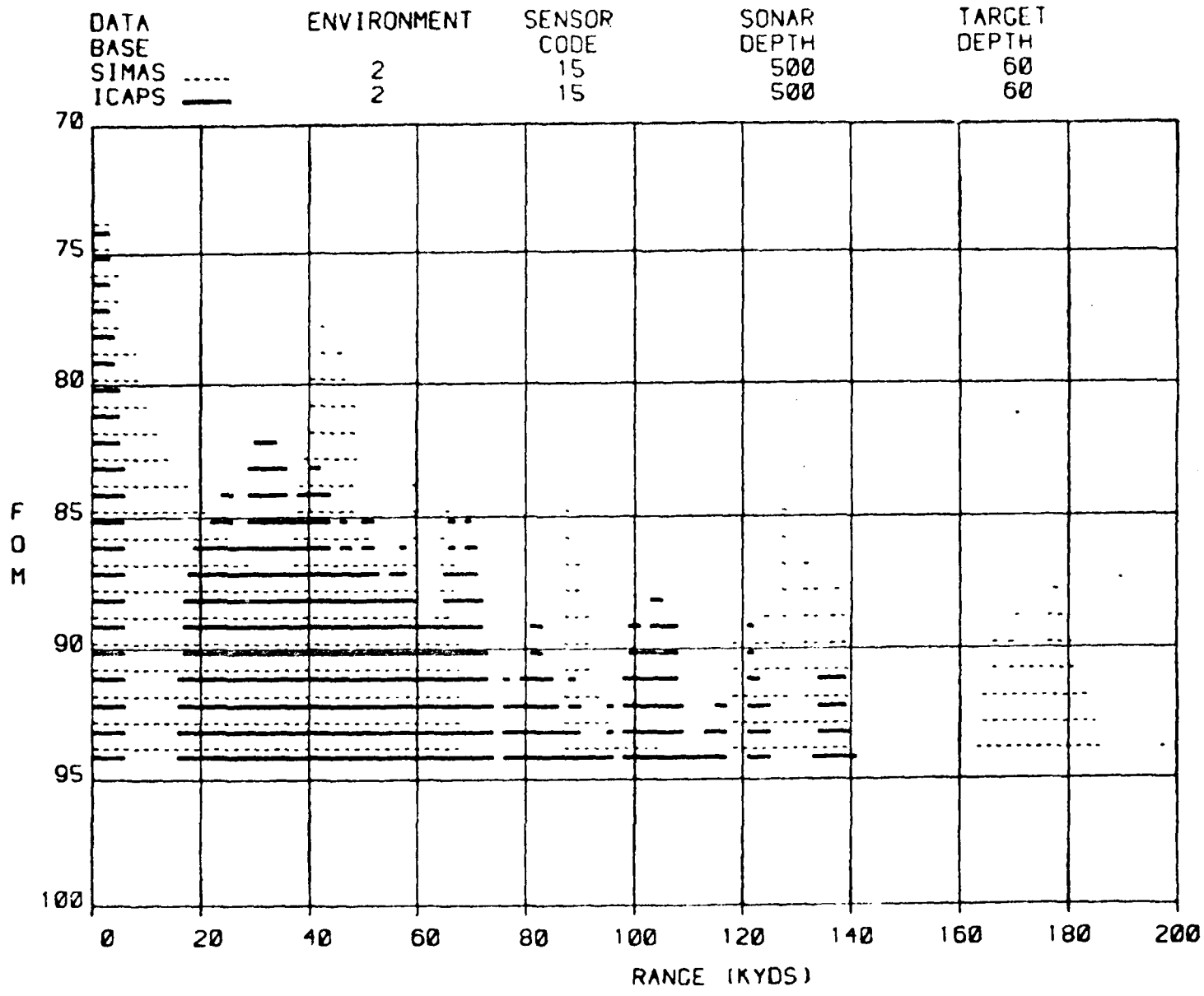

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 9 60 600
ICAPS ——— 2 9 60 600
90
95
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F O M
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120
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200
RANGE (KYDS)

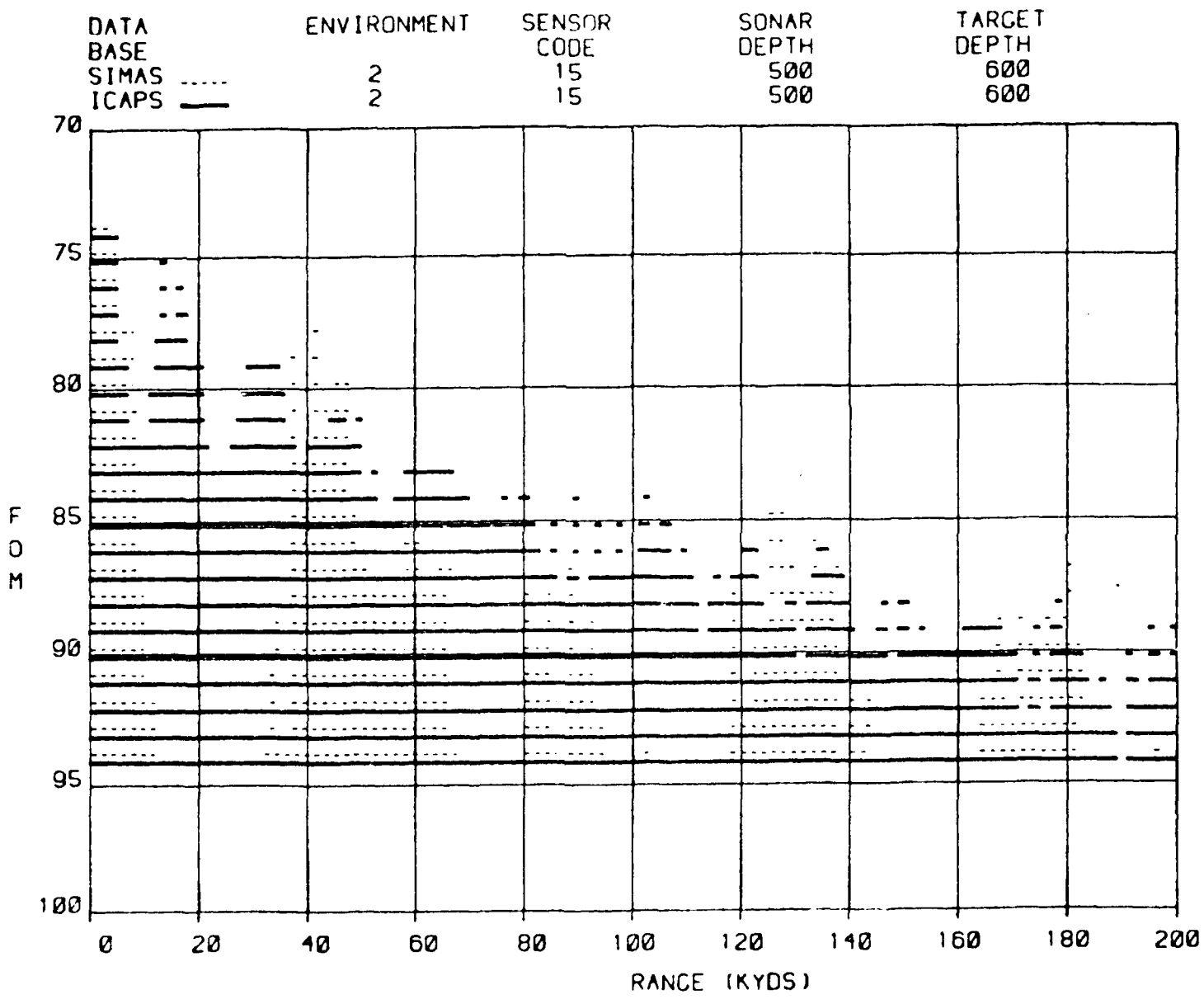

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 2 9 600 60
ICAPS 2 9 600 60
90
95
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110
115
120
F O M
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60
80
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120
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200
RANGE (KYDS)

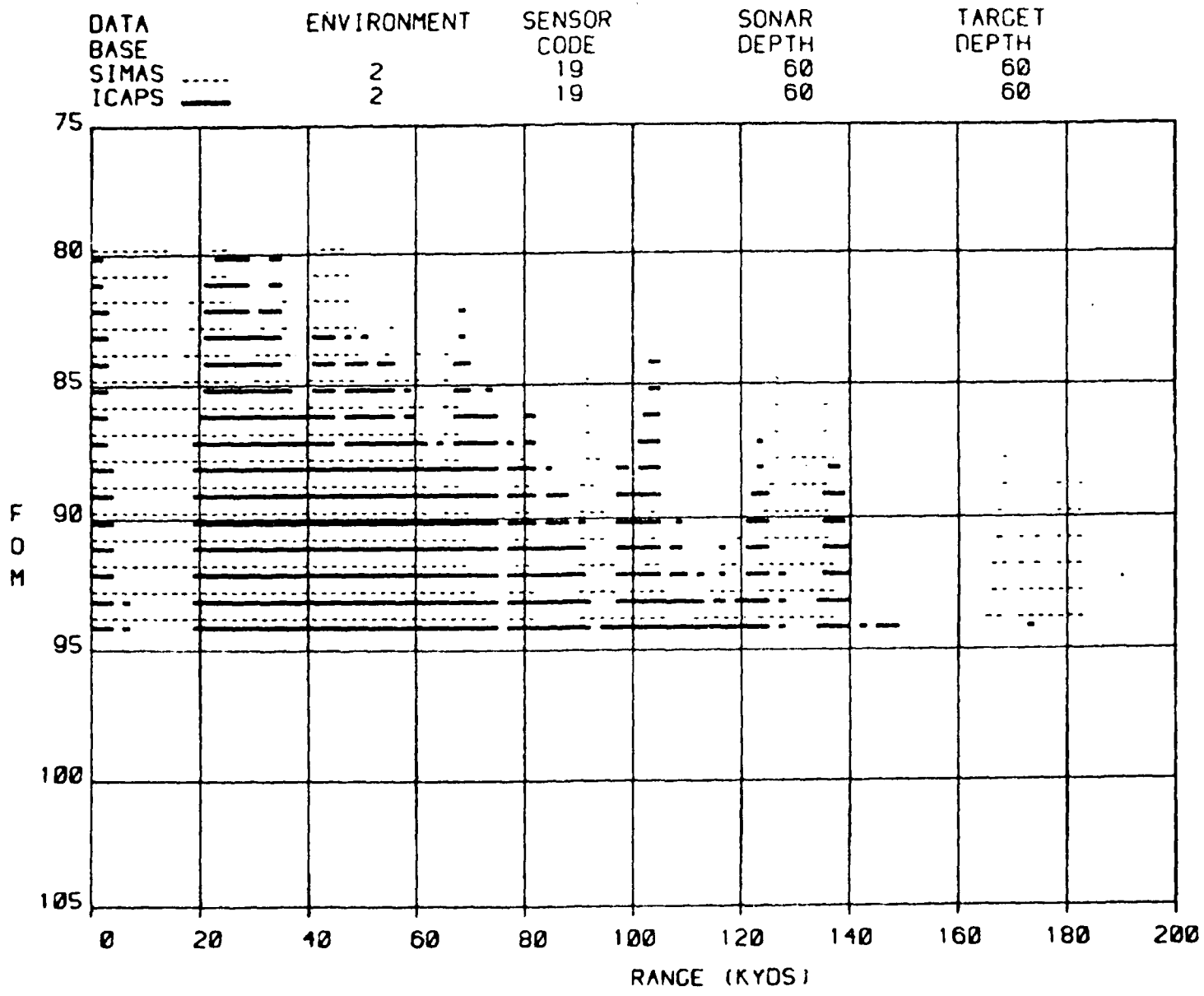

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 9 600 600
ICAPS ——— 2 9 600 600
90
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FOM
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120
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RANGE (KYDS)

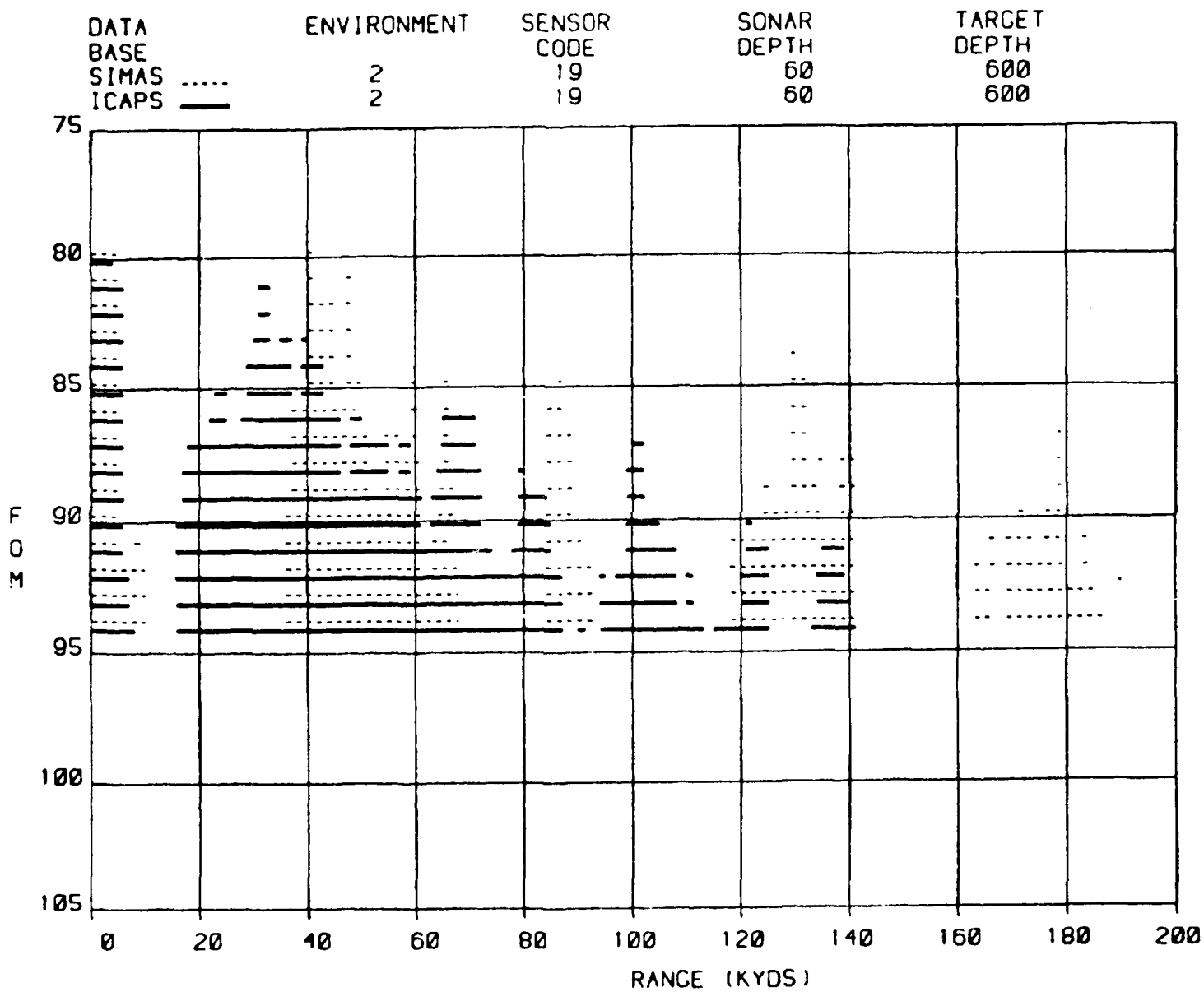

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 15 200 60
ICAPS ——— 2 15 200 60
70
75
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90
95
100
F O M
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20
40
60
80
100
120
140
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180
200
RANGE (KYDS)

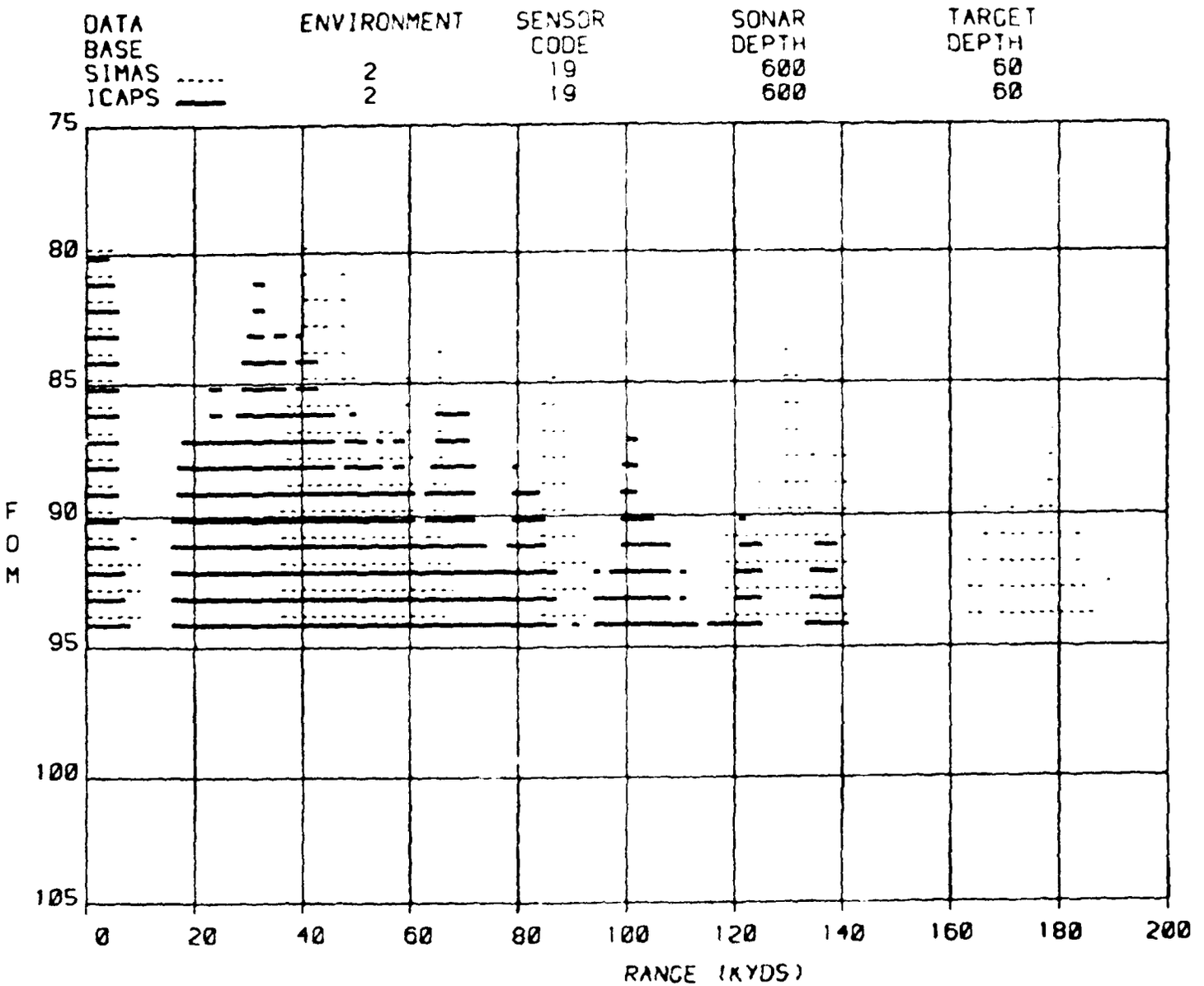

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 2 15 200 600
ICAPS ——— 2 15 200 600
70
75
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F O M
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200
RANGE (KYDS)

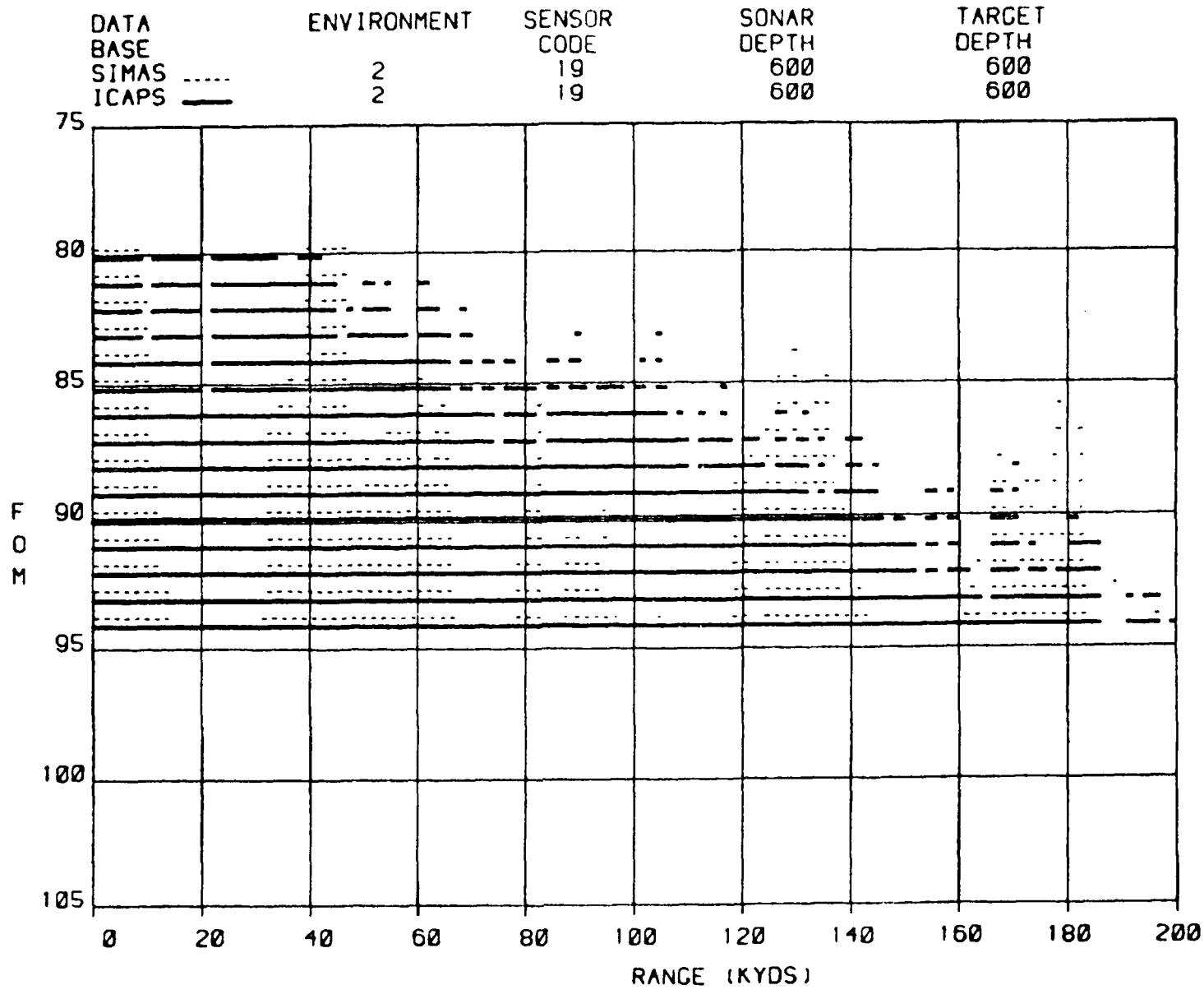

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 15 500 60
ICAPS —— 2 15 500 60
70
75
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100
F O M
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60
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200
RANGE (KYDS)

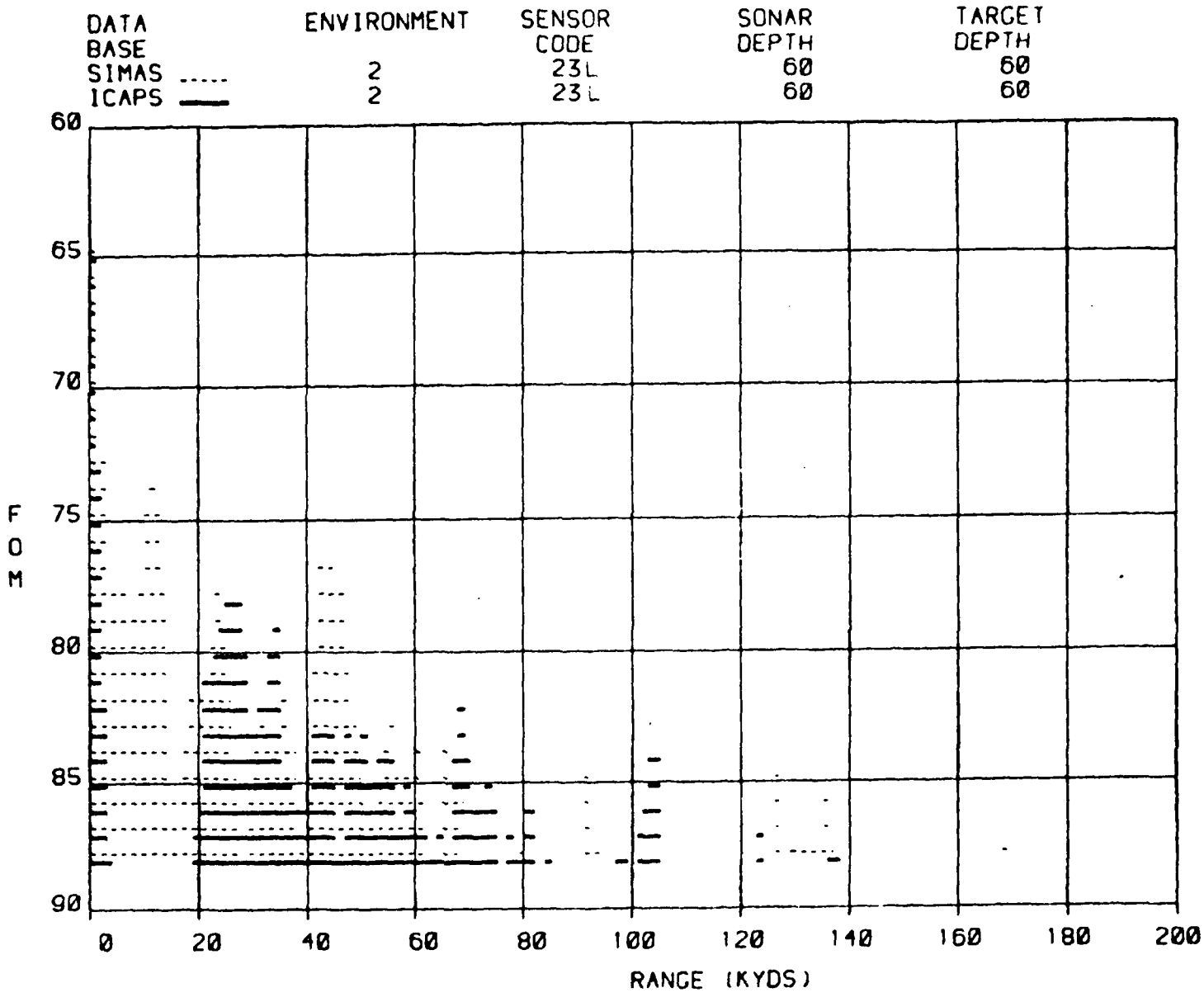

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 15 500 600
ICAPS —— 2 15 500 600
70
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100
FOM
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60
80
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120
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180
200
RANGE (KYDS)

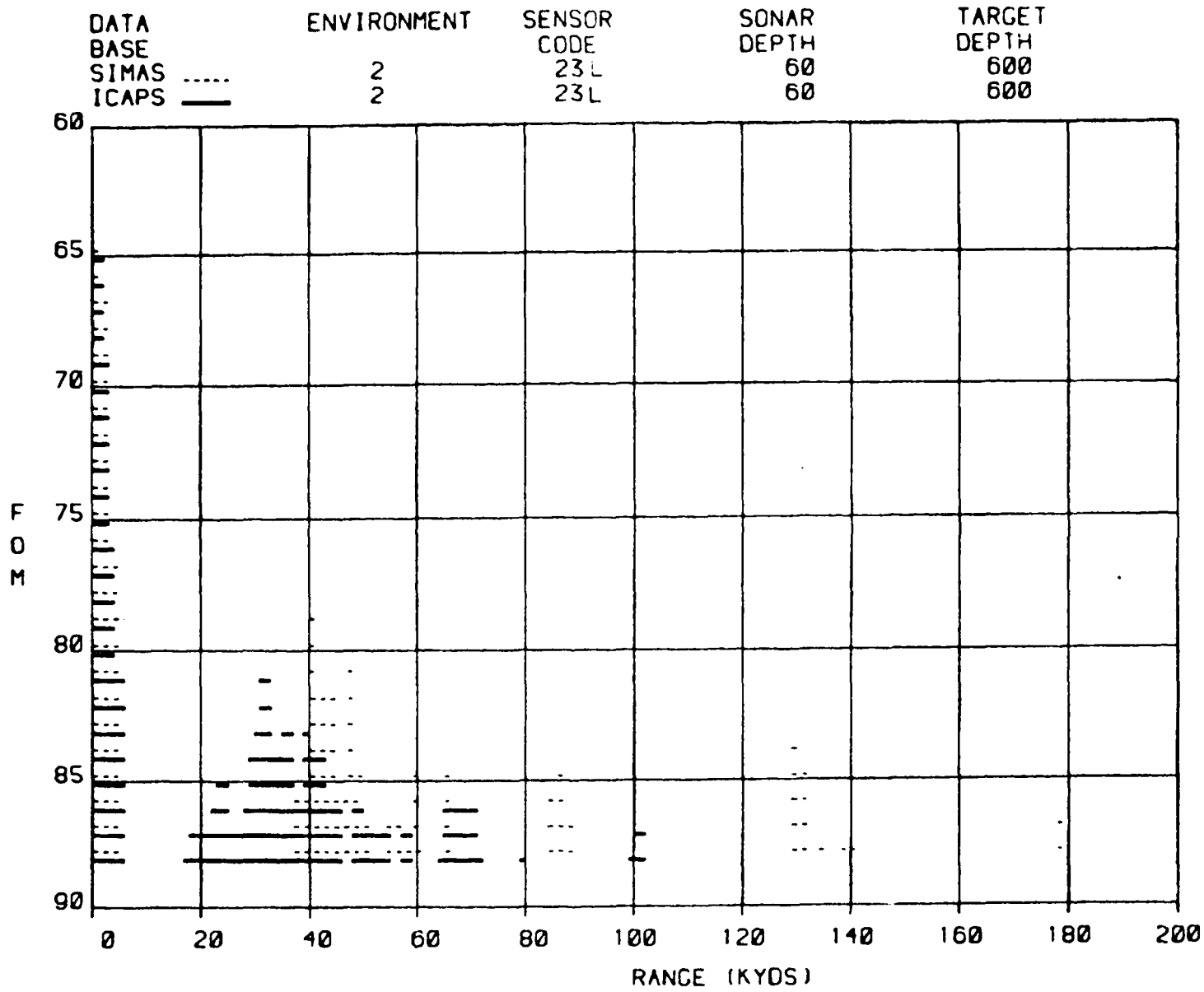

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 19 60 60
ICAPS ——— 2 19 60 60
75
80
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95
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105
F O M
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60
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100
120
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180
200
RANGE (KYDS)

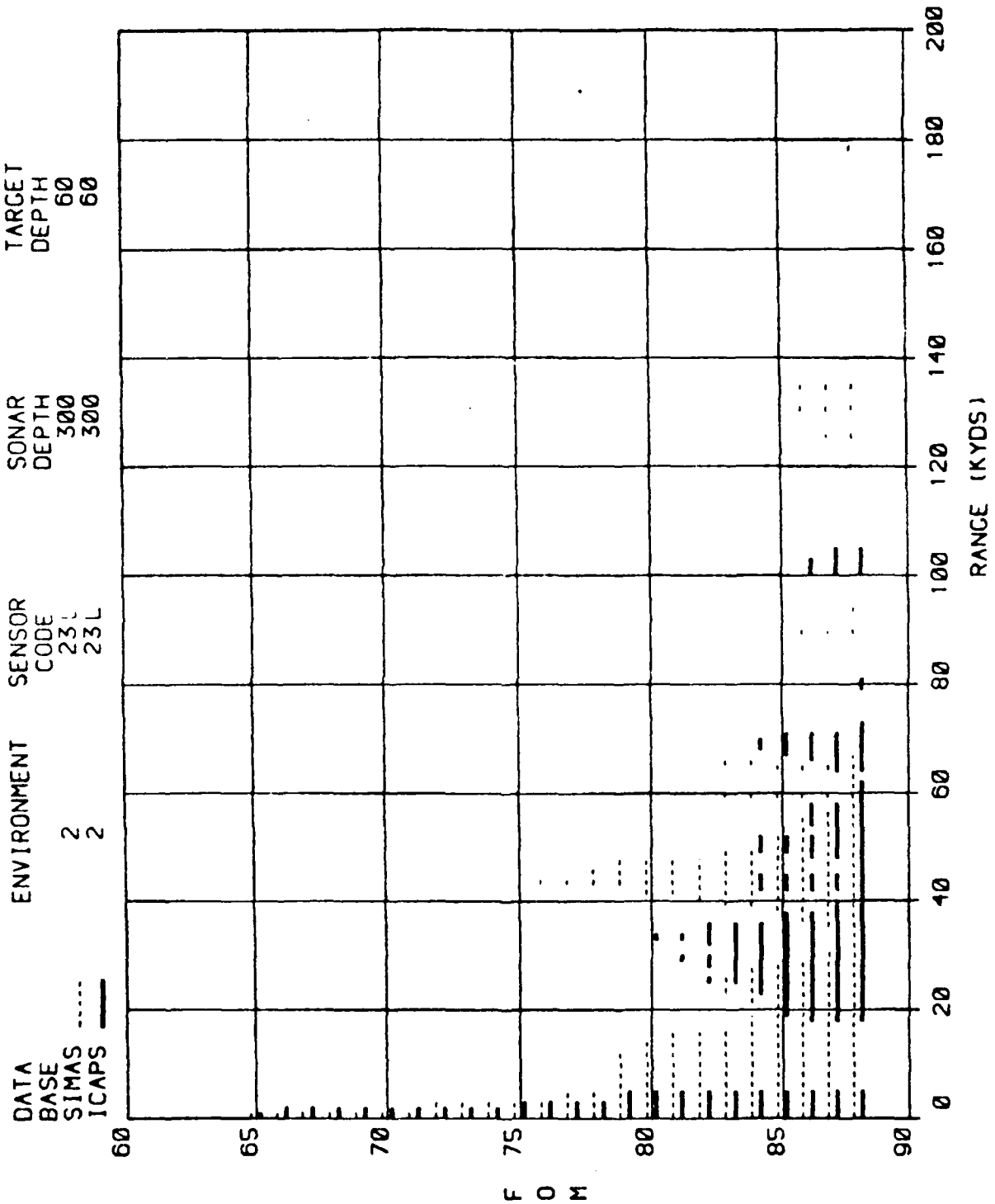

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 19 60 600
ICAPS ——— 2 19 60 600
75
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90
95
100
105
FOM
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60
80
100
120
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180
200
RANGE (KYDS)

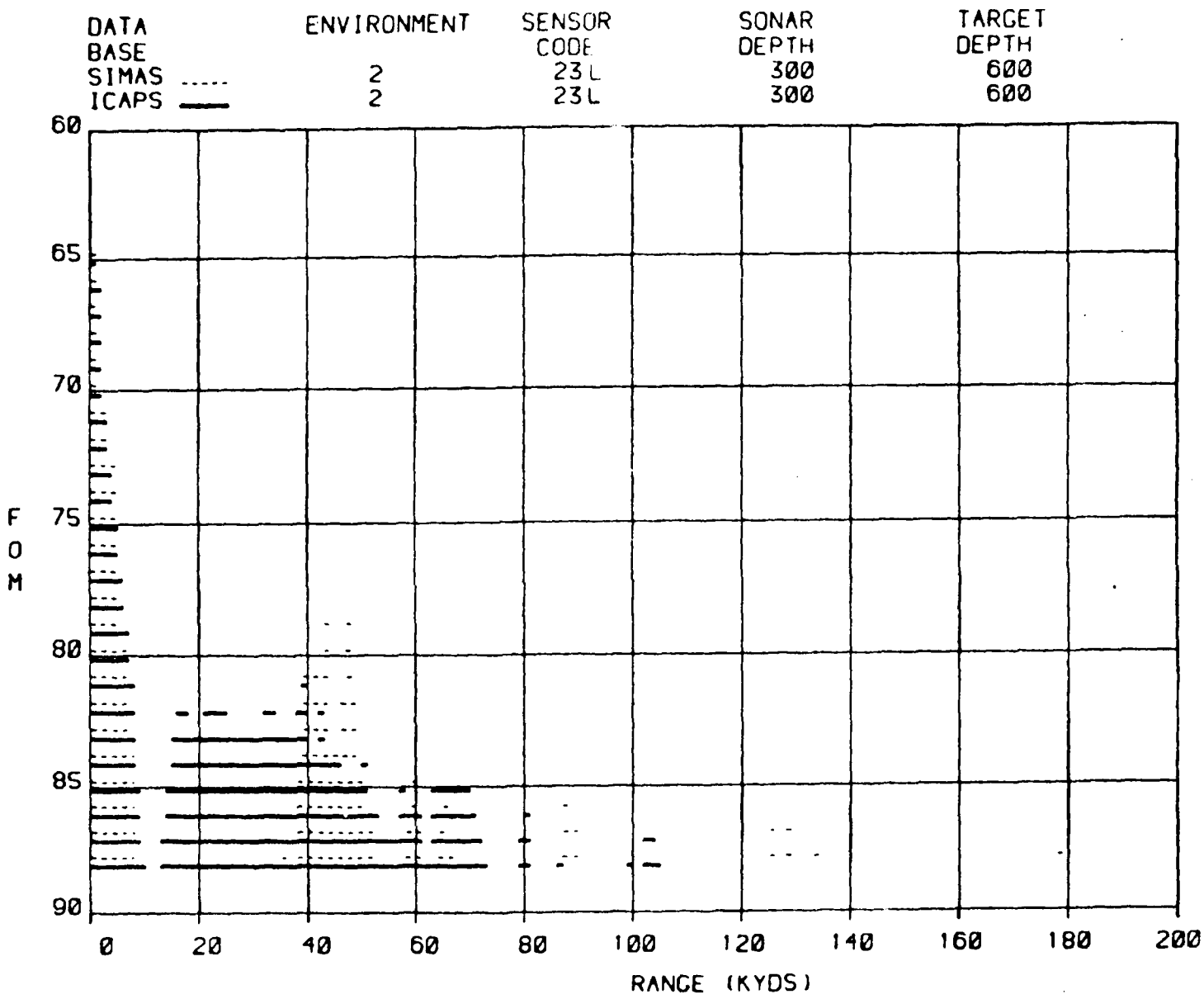

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 19 600 60
ICAPS —— 2 19 600 60
75
80
85
90
95
100
105
FOM
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

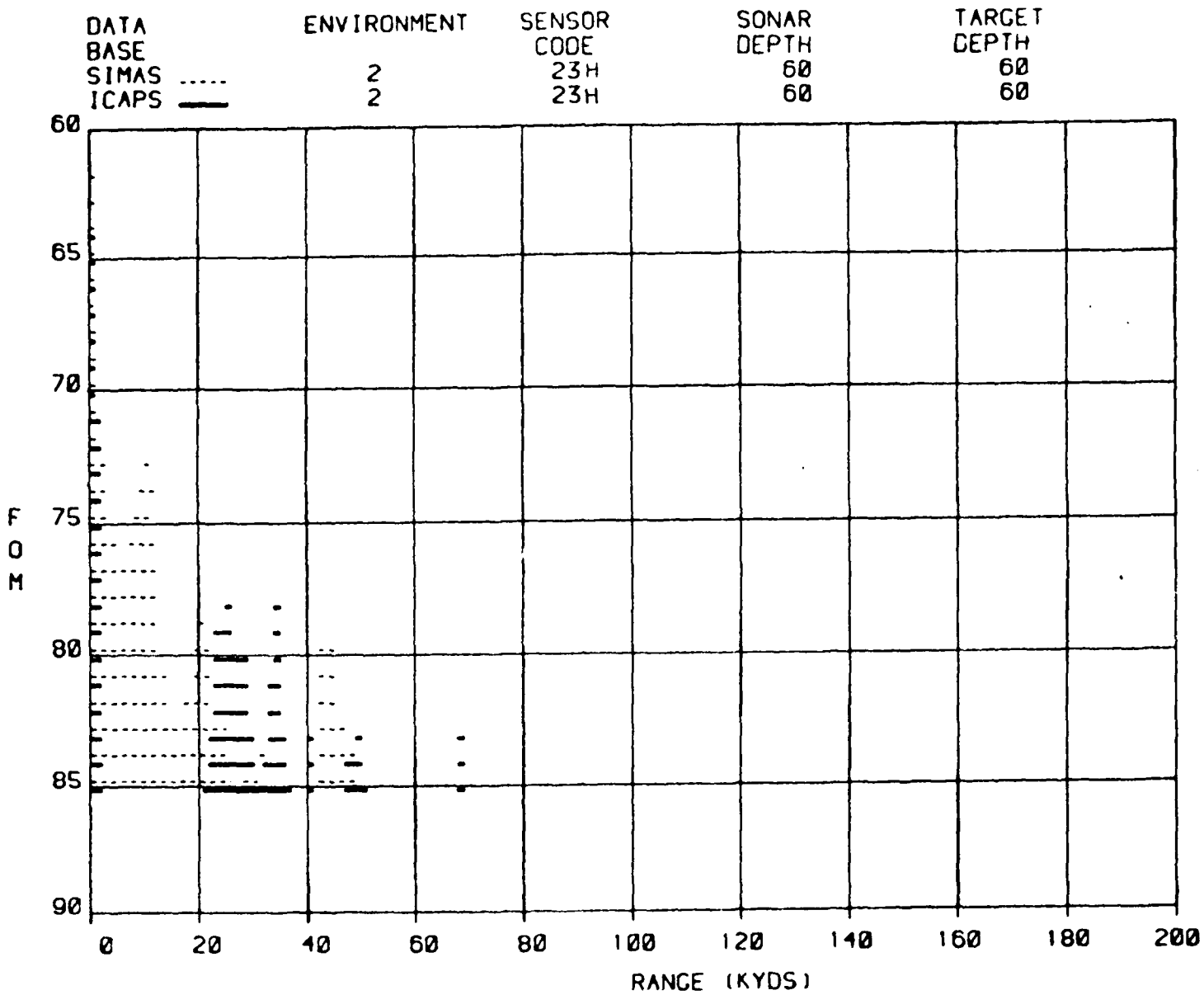

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 19 600 600
ICAPS —— 2 19 600 600
75
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105
FOM
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60
80
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120
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180
200
RANGE (KYDS)

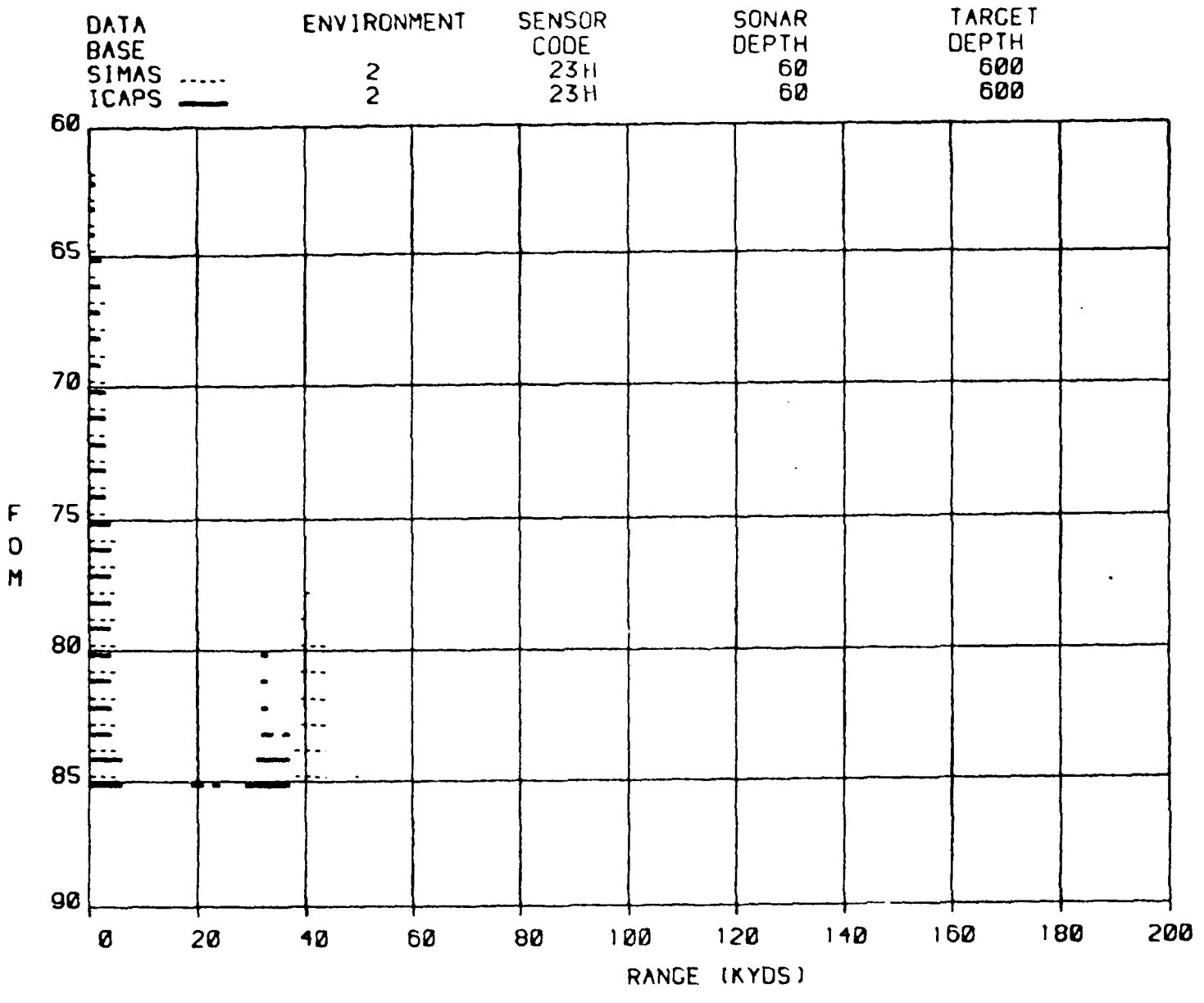

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 23L 60 60
ICAPS ——— 2 23L 60 60
60
65
70
75
80
85
90
F O M
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

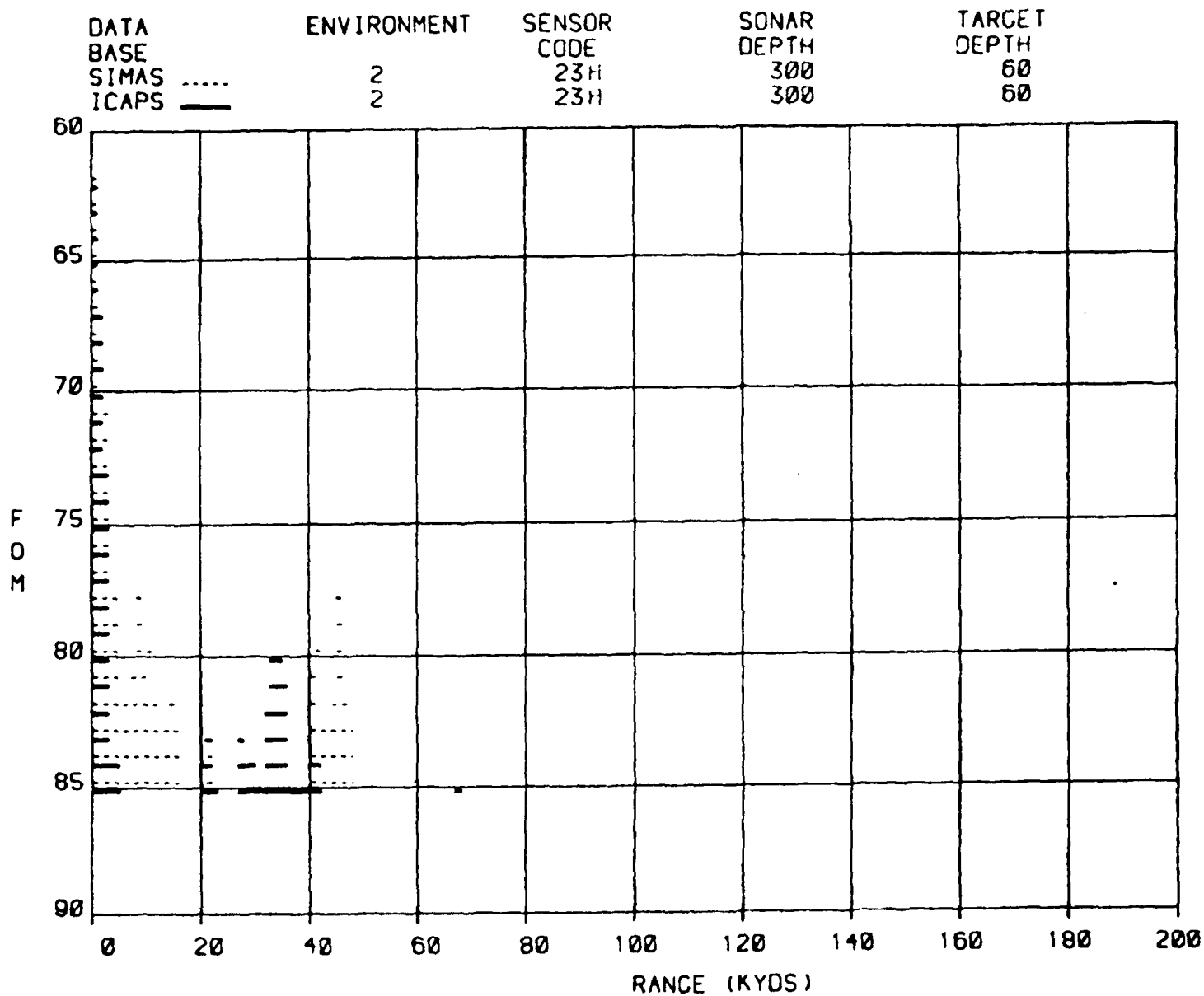

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 23L 60 600
ICAPS ——— 2 23L 60 600
60
65
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75
80
85
90
F O M
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

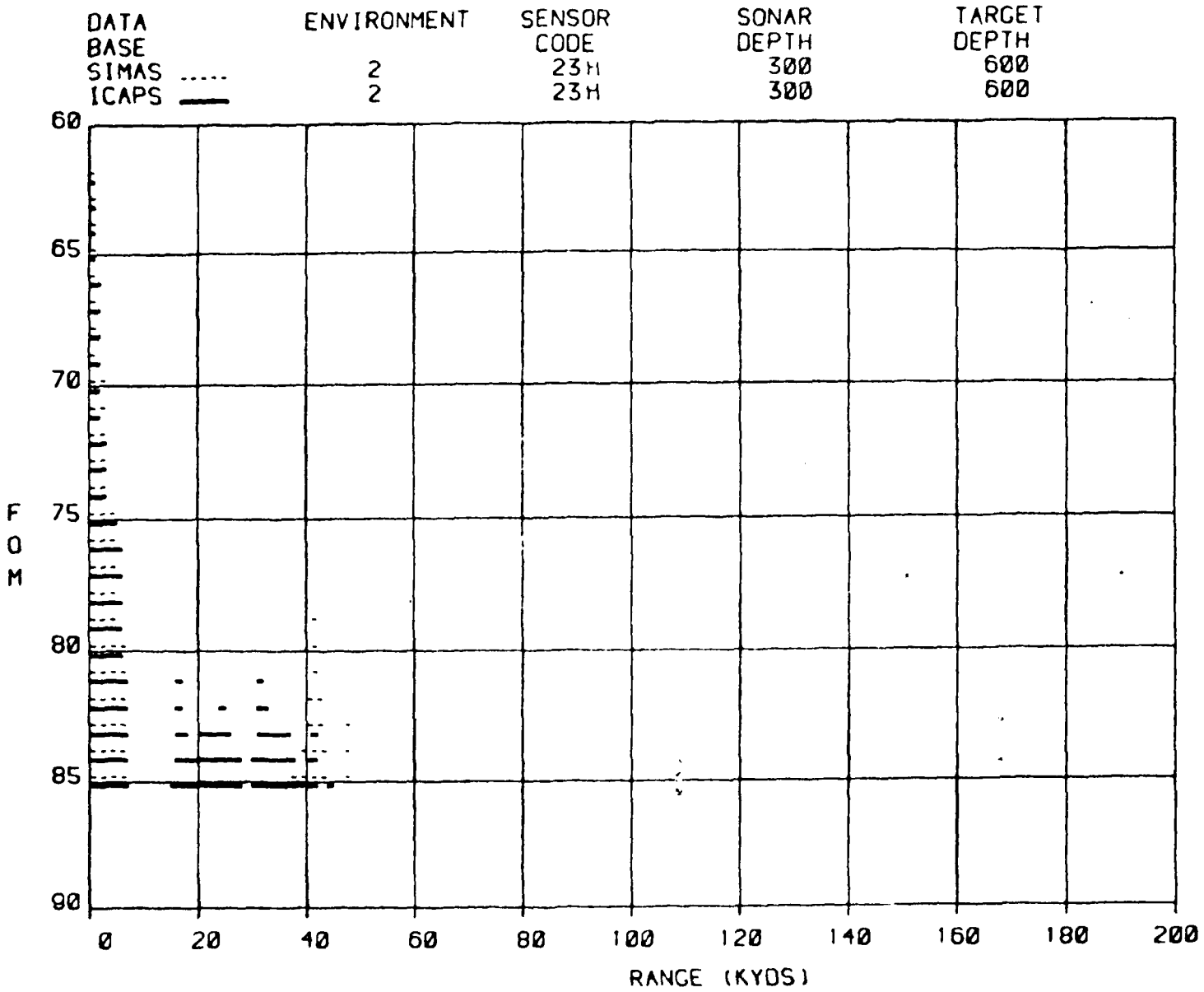

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
2
2
SENSOR CODE
23L
23L
SONAR DEPTH
300
300
TARGET DEPTH
60
60
FOM
60
65
70
75
80
85
90
0
20
40
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120
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160
180
200
RANGE (KYDS)

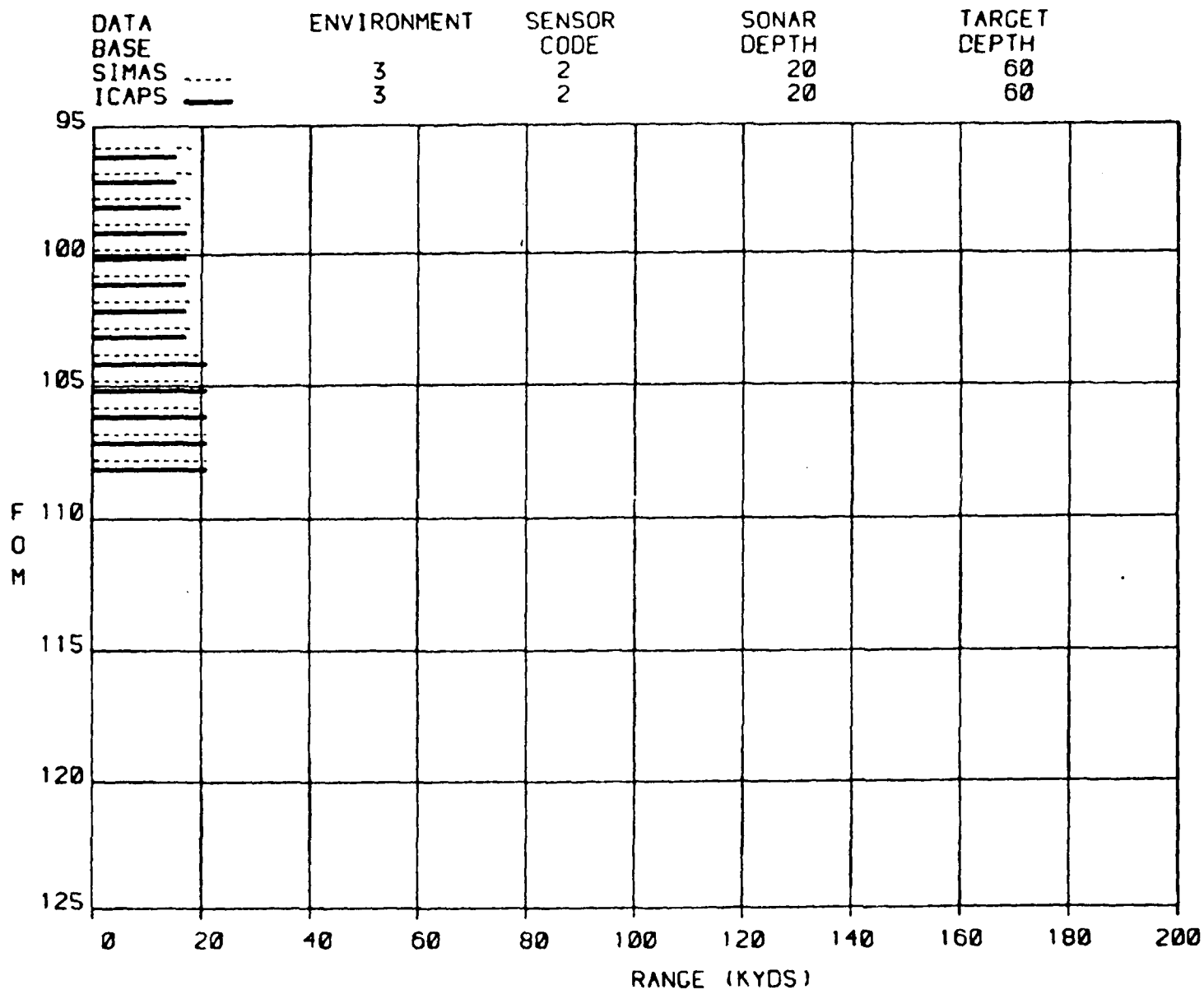

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 23L 300 600
ICAPS ——— 2 23L 300 600
60
65
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75
80
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90
F O M
0
20
40
60
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100
120
140
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180
200
RANGE (KYDS)

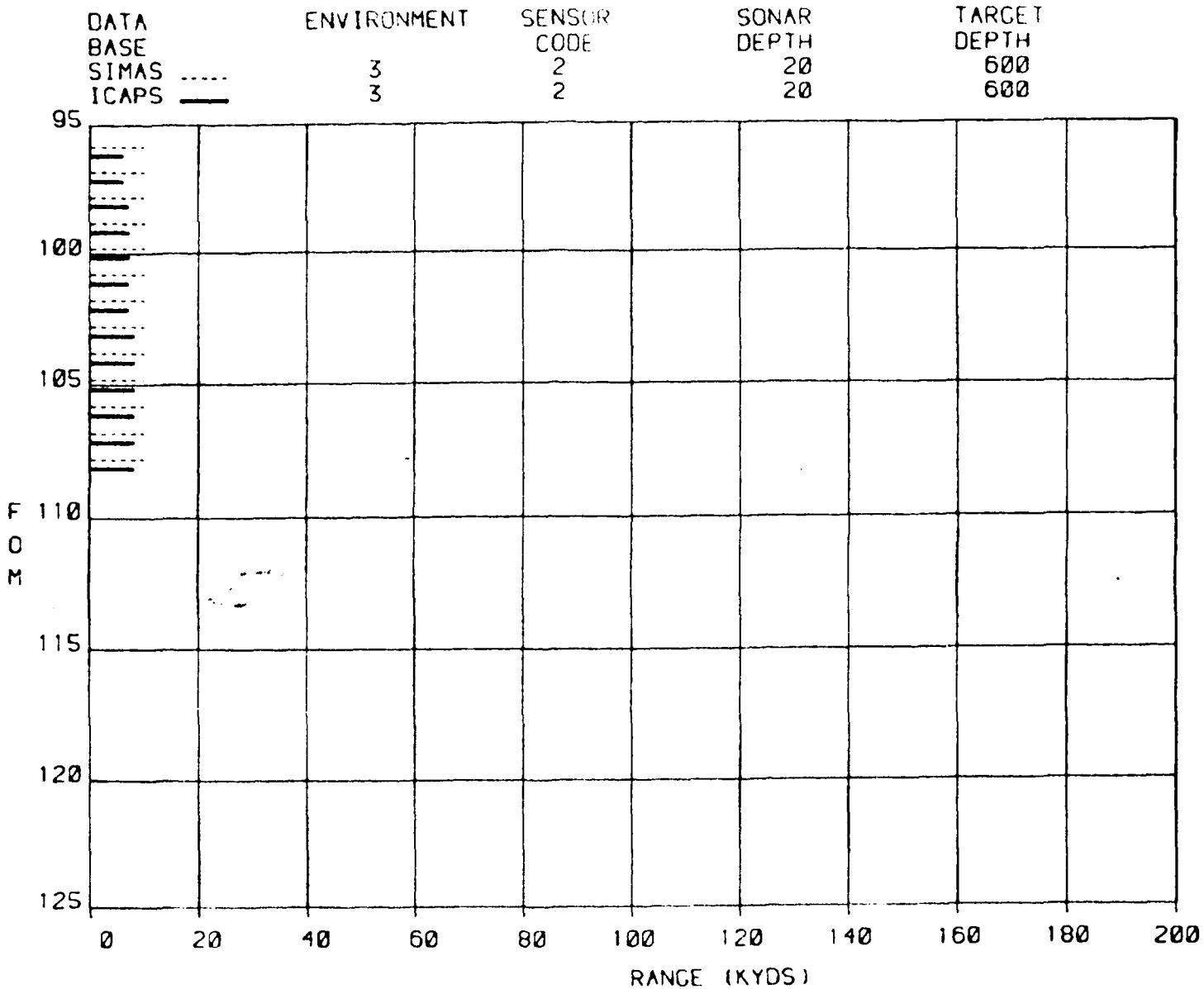

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 2 23H 60 60
ICAPS ——— 2 23H 60 60
60
65
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80
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90
FOM
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120
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180
200
RANGE (KYDS)

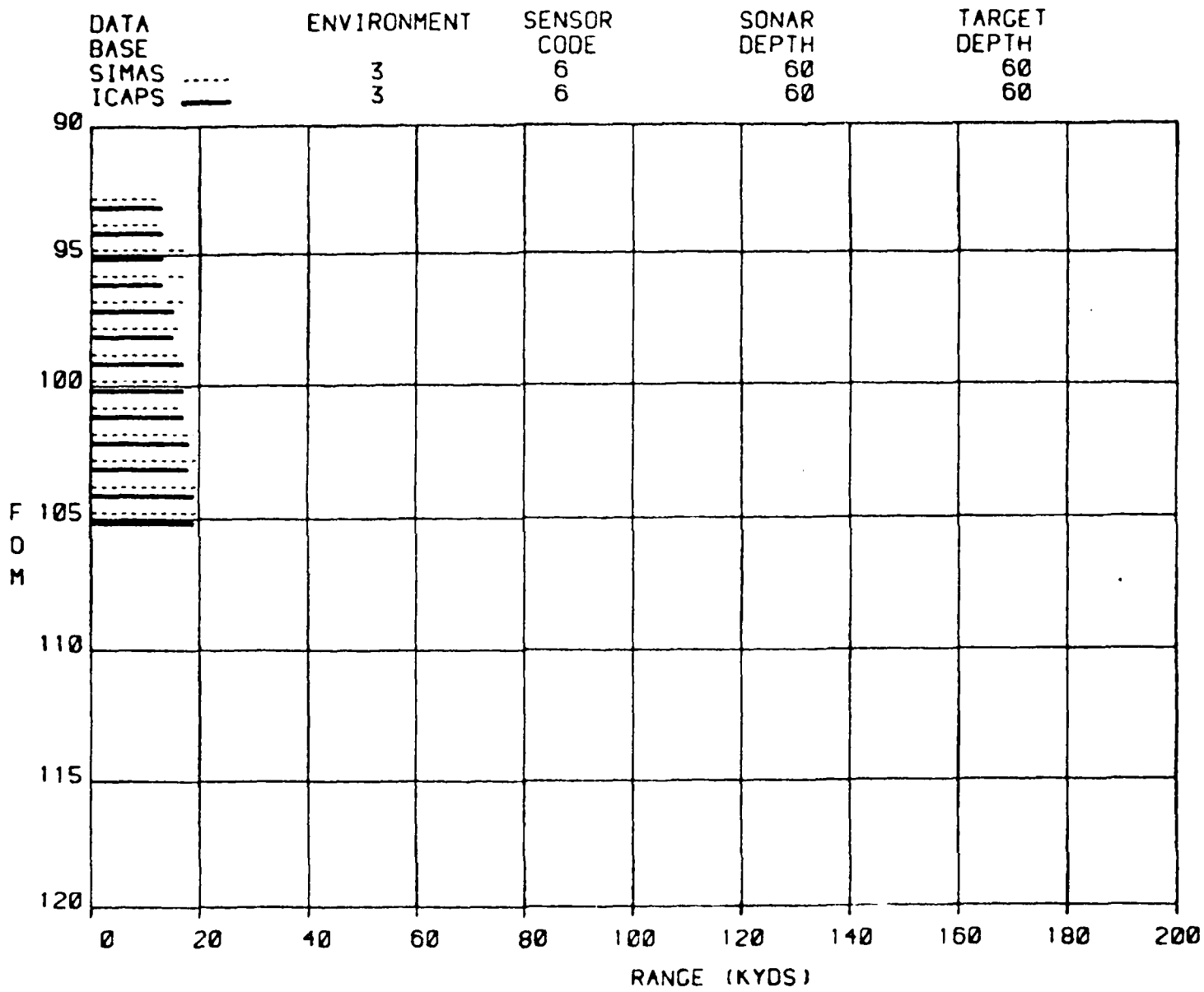

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 23H 60 600
ICAPS —— 2 23H 60 600
60
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90
FOM
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60
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180
200
RANGE (KYDS)

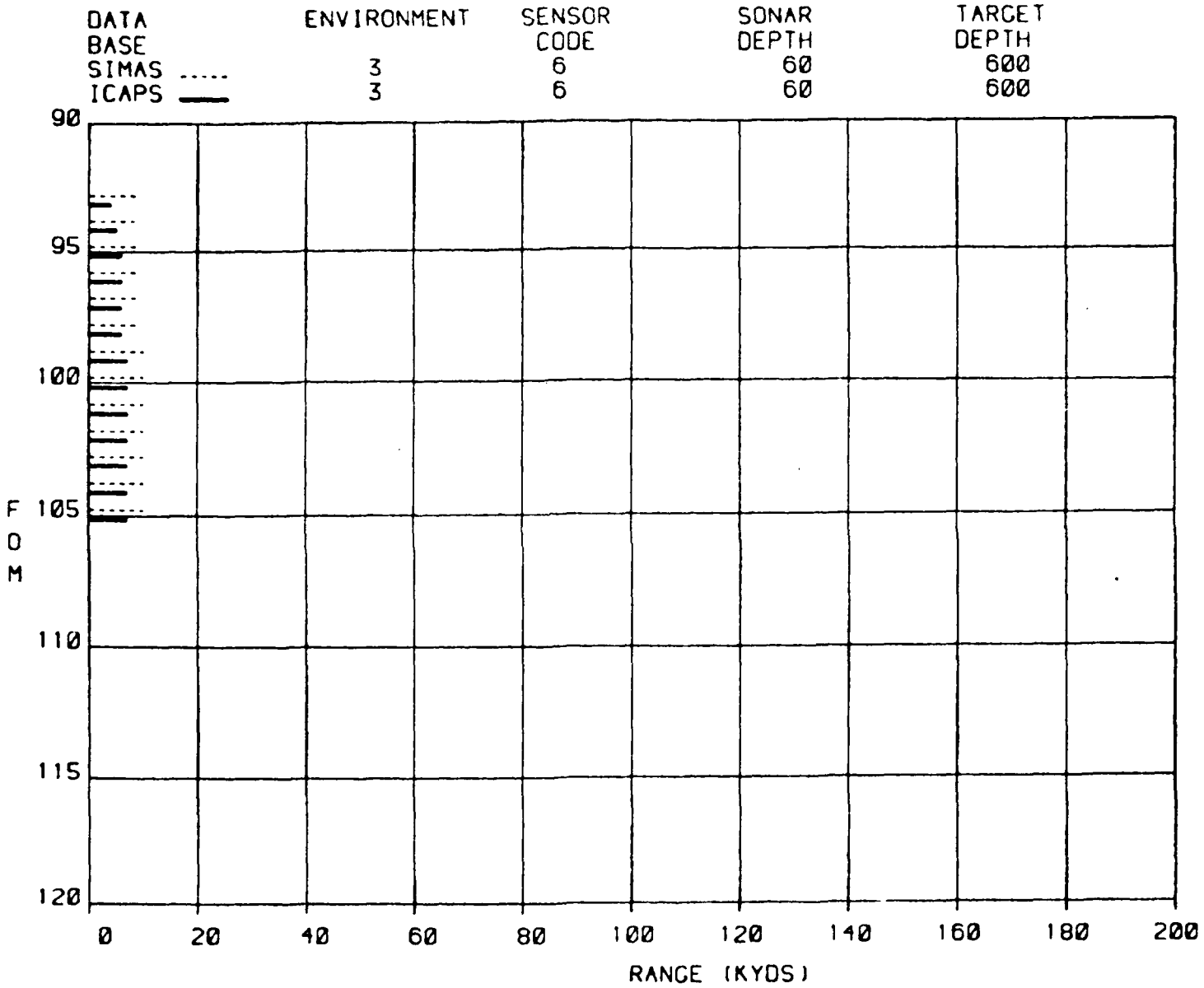

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 2 23H 300 60
ICAPS 2 23H 300 60
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FOM
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60
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120
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180
200
RANGE (KYDS)

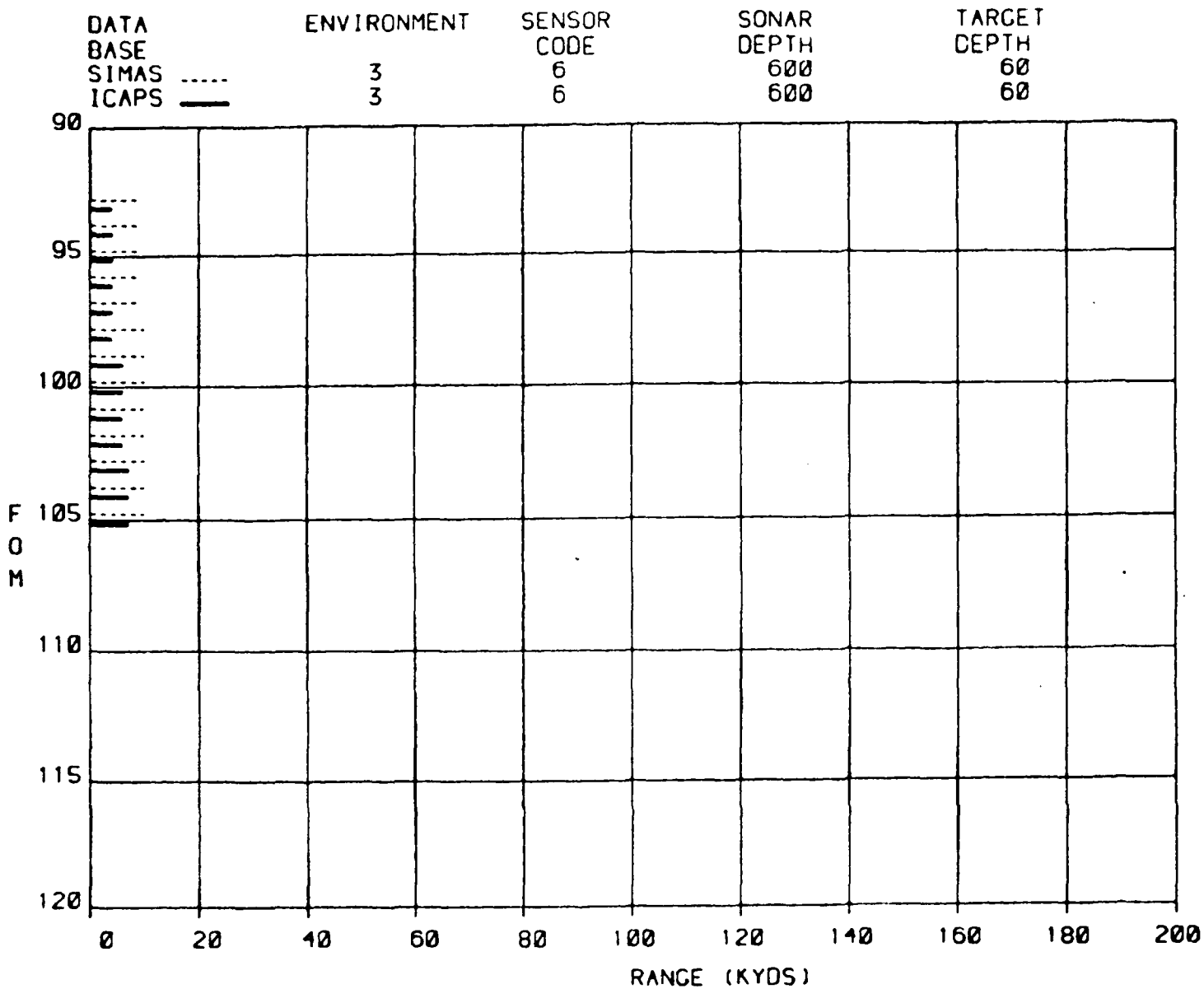

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 2 23H 300 600
ICAPS —— 2 23H 300 600
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FOM
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200
RANGE (KYDS)

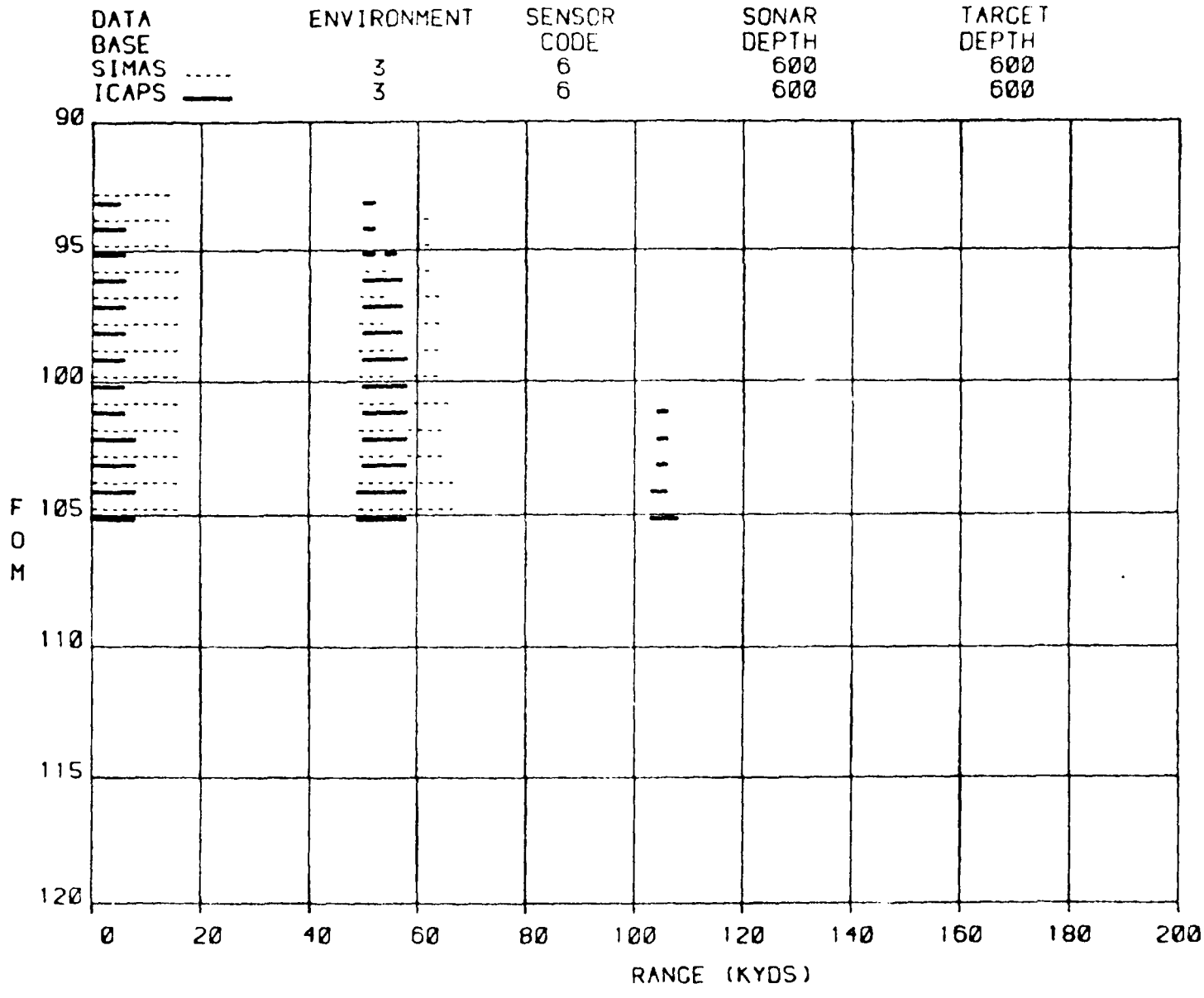

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 3 2 20 60
ICAPS 3 2 20 60
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FOM
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RANGE (KYDS)

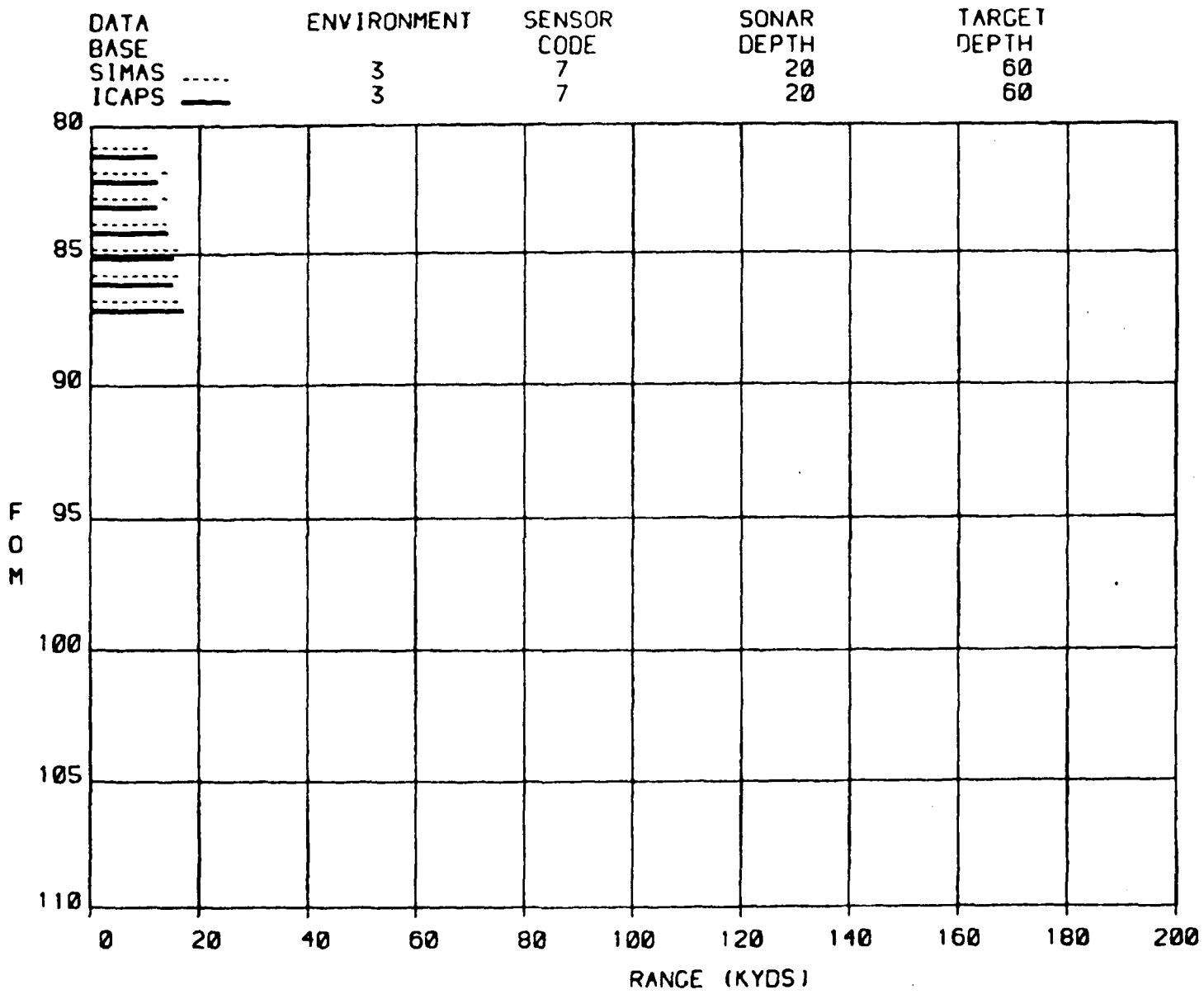

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 3 2 20 600
ICAPS 3 2 20 600
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RANGE (KYDS)

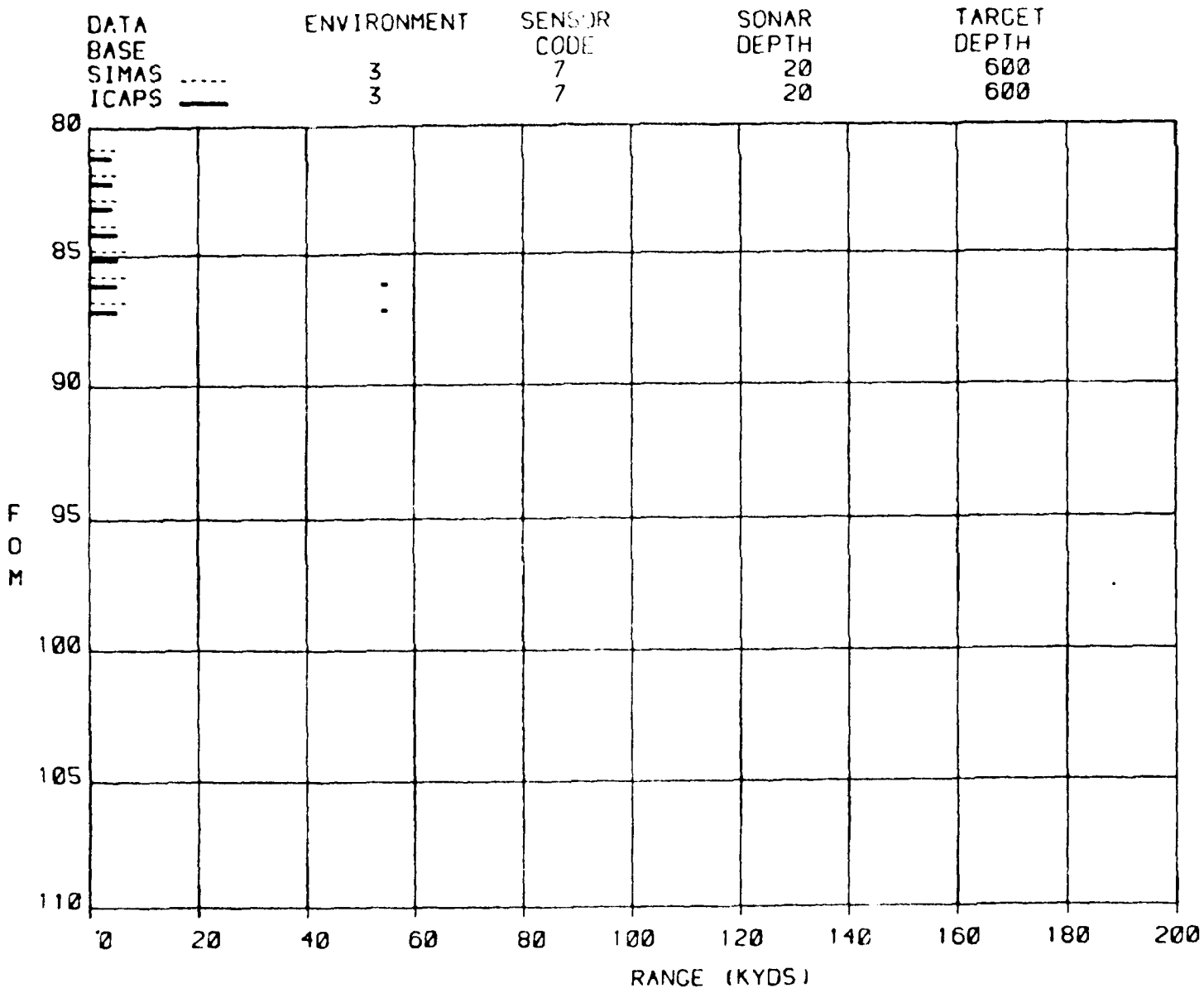

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 6 60 60
ICAPS ——— 3 6 60 60
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95
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120
F O M
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20
40
60
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120
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200
RANGE (KYDS)

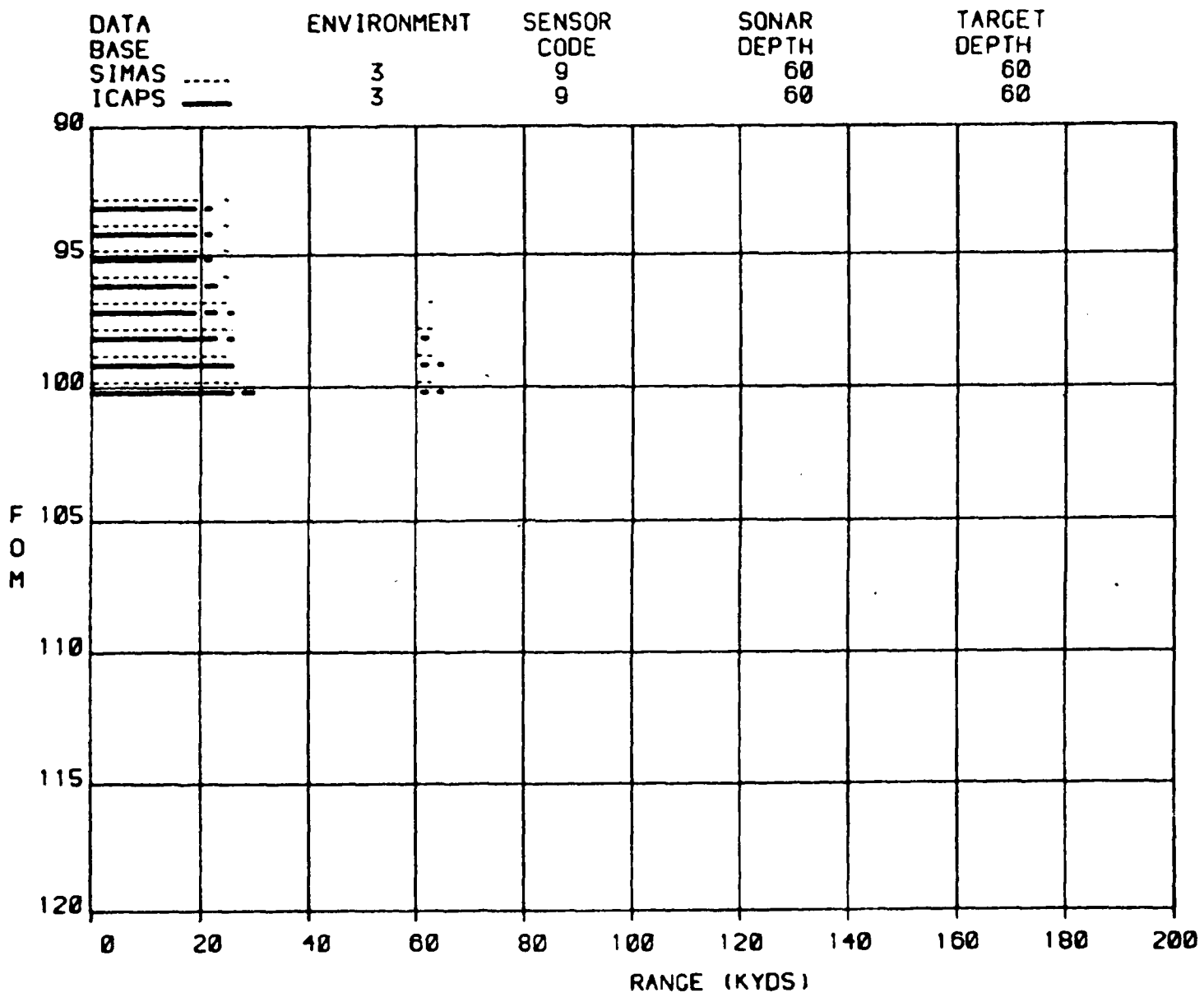

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 3 6 60 600
ICAPS 3 6 60 600
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FOM
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RANGE (KYDS)

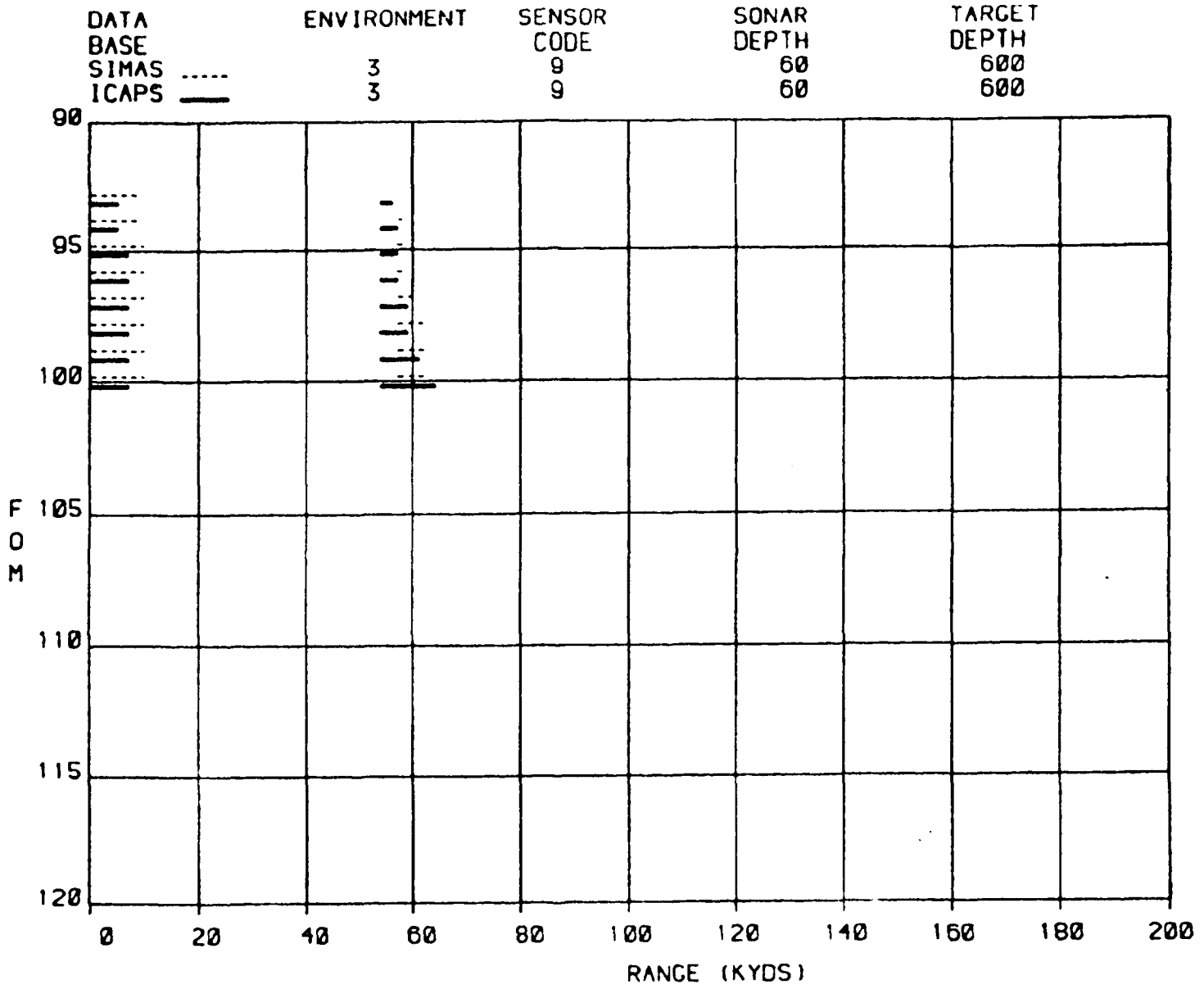

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 6 600 60
ICAPS ——— 3 6 600 60
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F O M
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200
RANGE (KYDS)

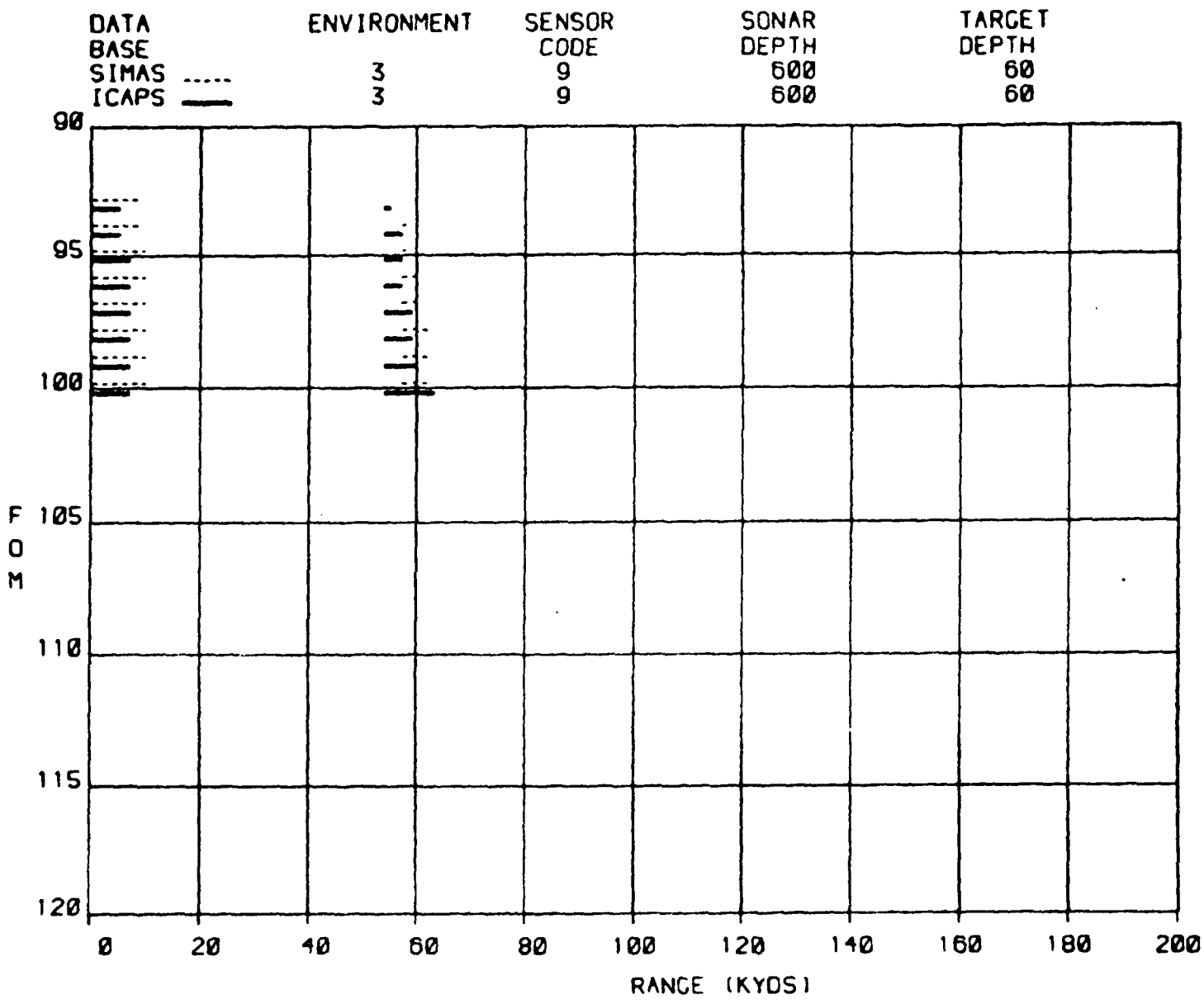

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 3 6 600 600
ICAPS 3 6 600 600
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RANGE (KYDS)

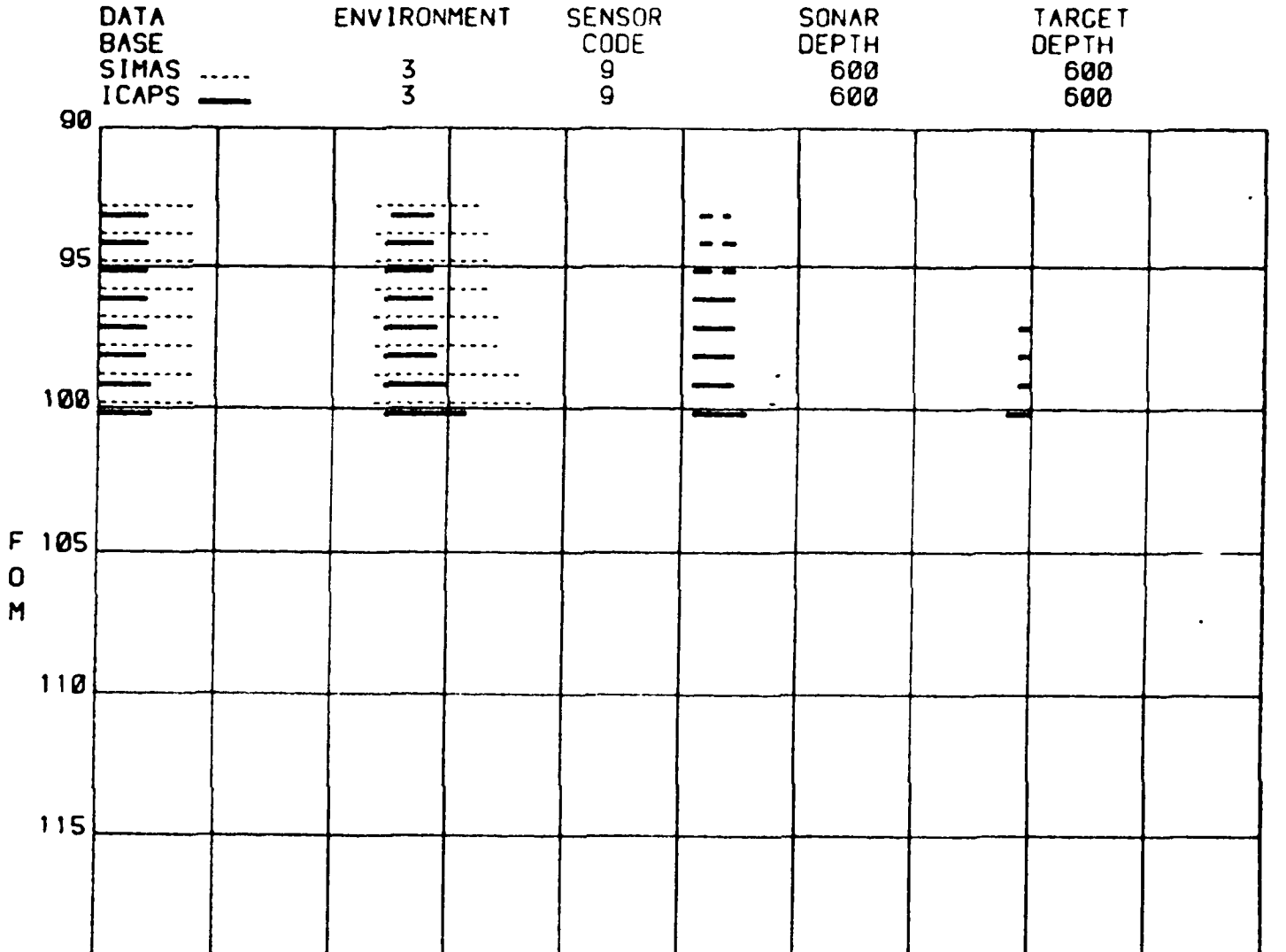

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 7 20 60
ICAPS ——— 3 7 20 60
80
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RANGE (KYDS)

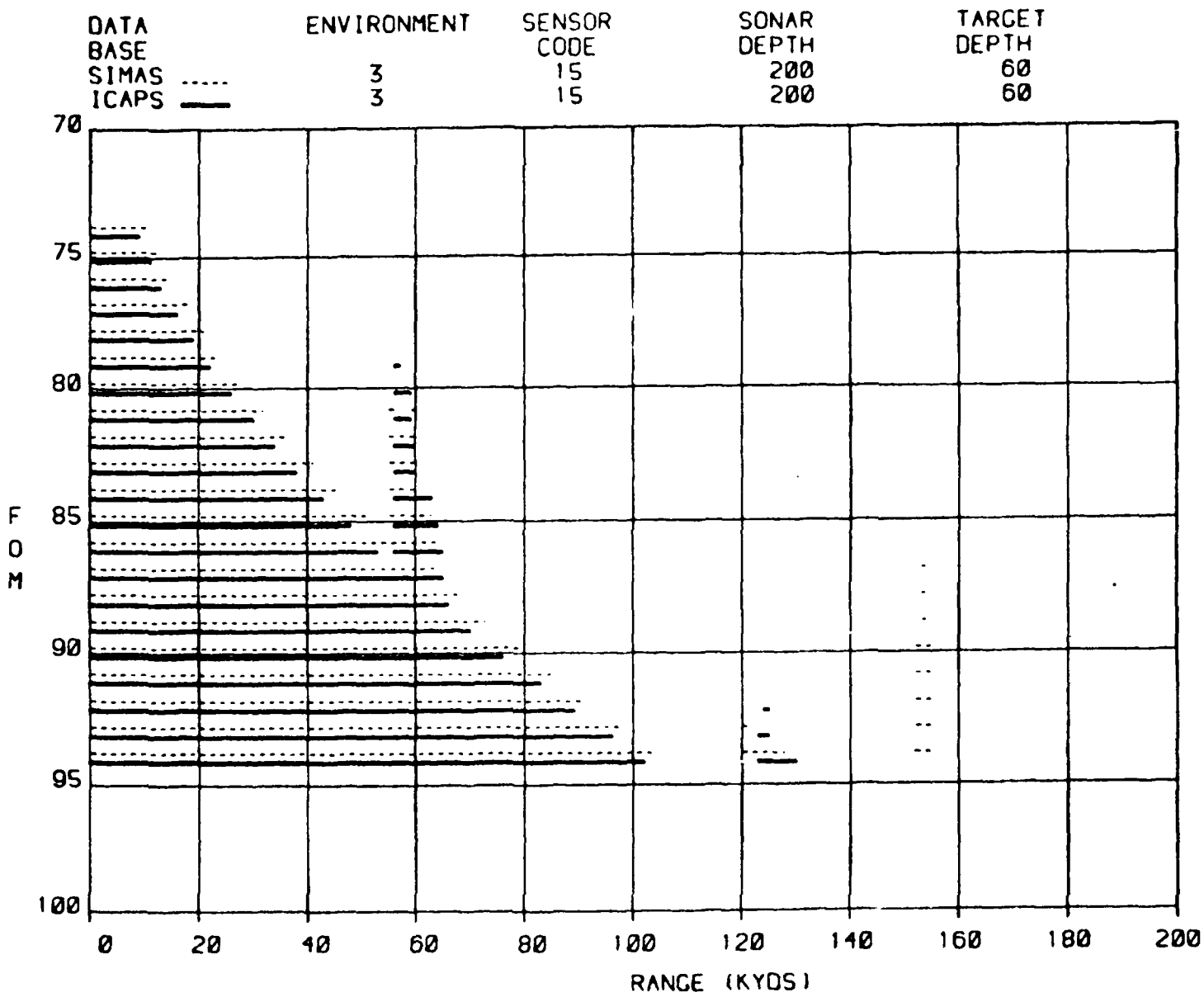

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 7 20 600
ICAPS ——— 3 7 20 600
80
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200
RANGE (KYDS)

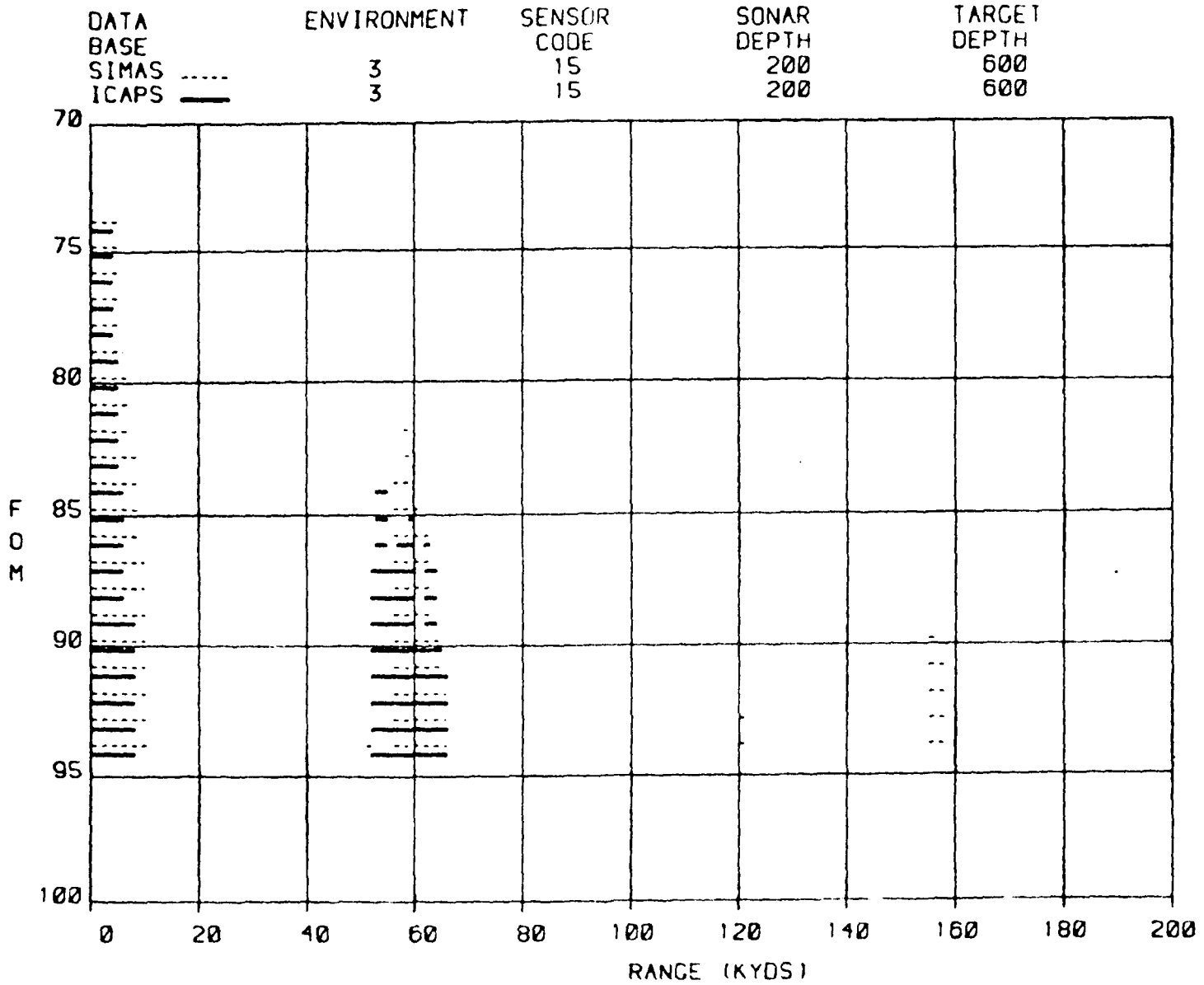

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 9 60 60
ICAPS ——— 3 9 60 60
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F O M
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200
RANGE (KYDS)

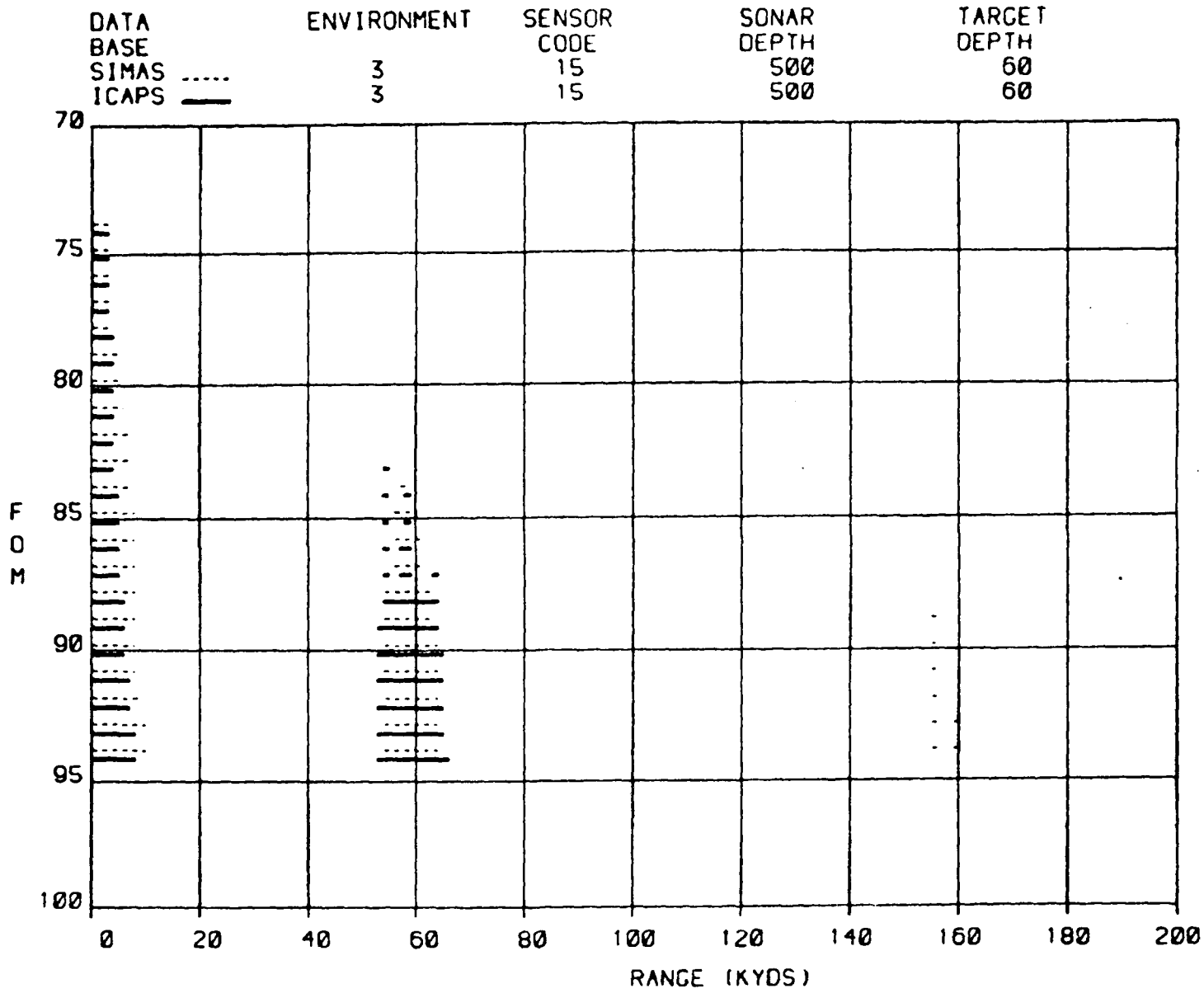

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 9 60 600
ICAPS ——— 3 9 60 600
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F O M
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200
RANGE (KYDS)

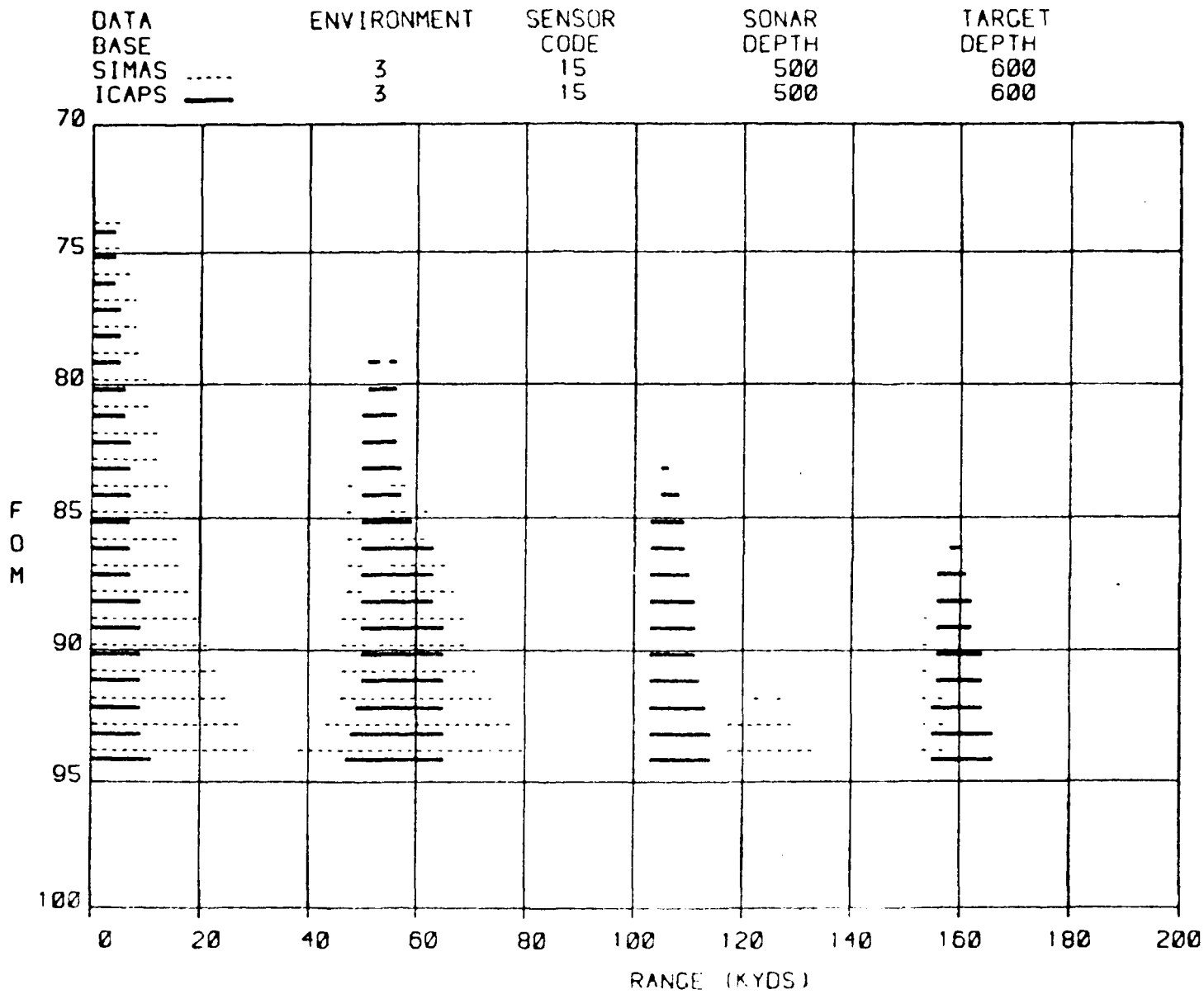

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 3 9 600 60
ICAPS 3 9 600 60
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F O M
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120
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180
200
RANGE (KYDS)

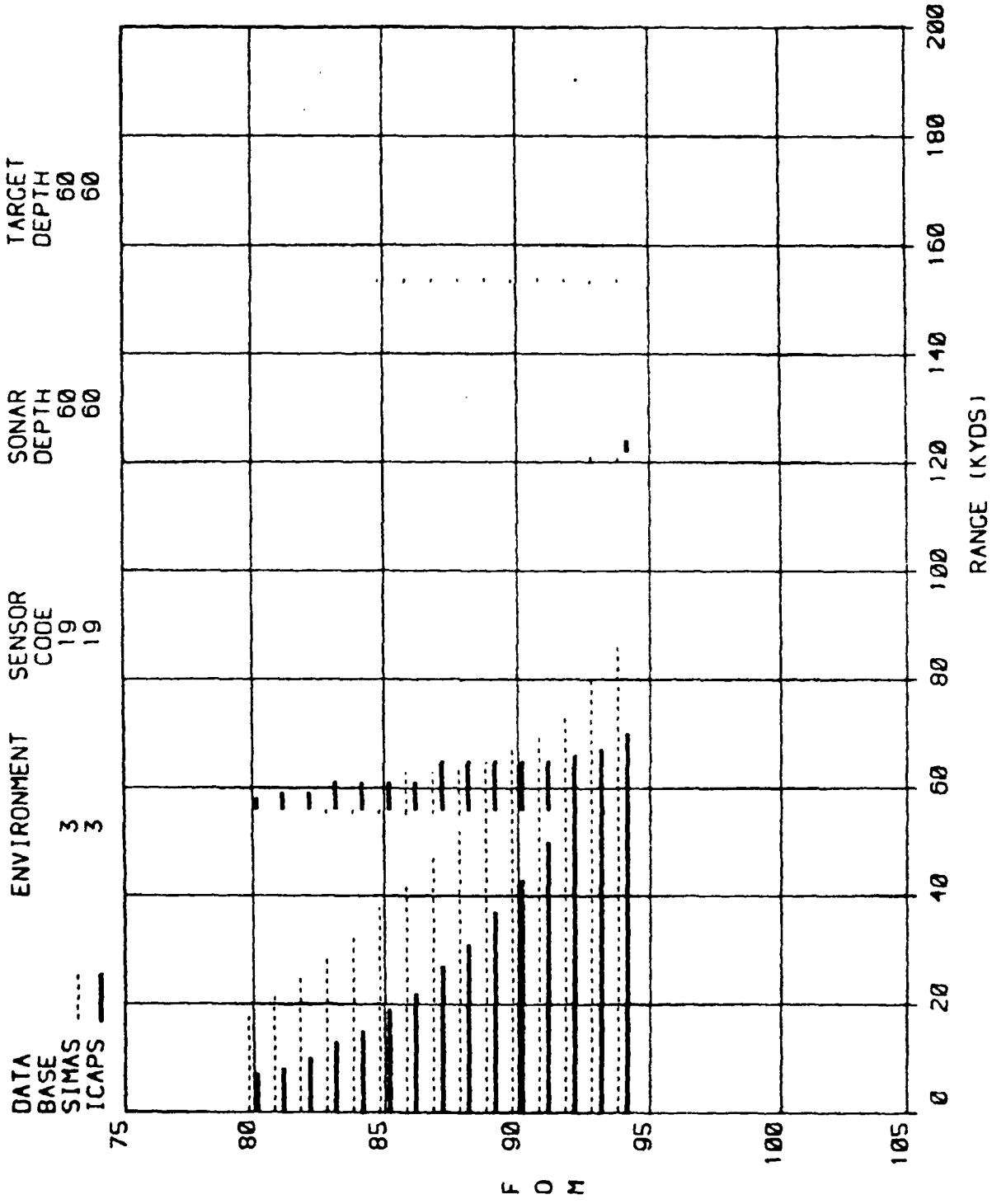

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 3 9 600 600
ICAPS 3 9 600 600
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FOM
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120
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180
200
RANGE (KYDS)

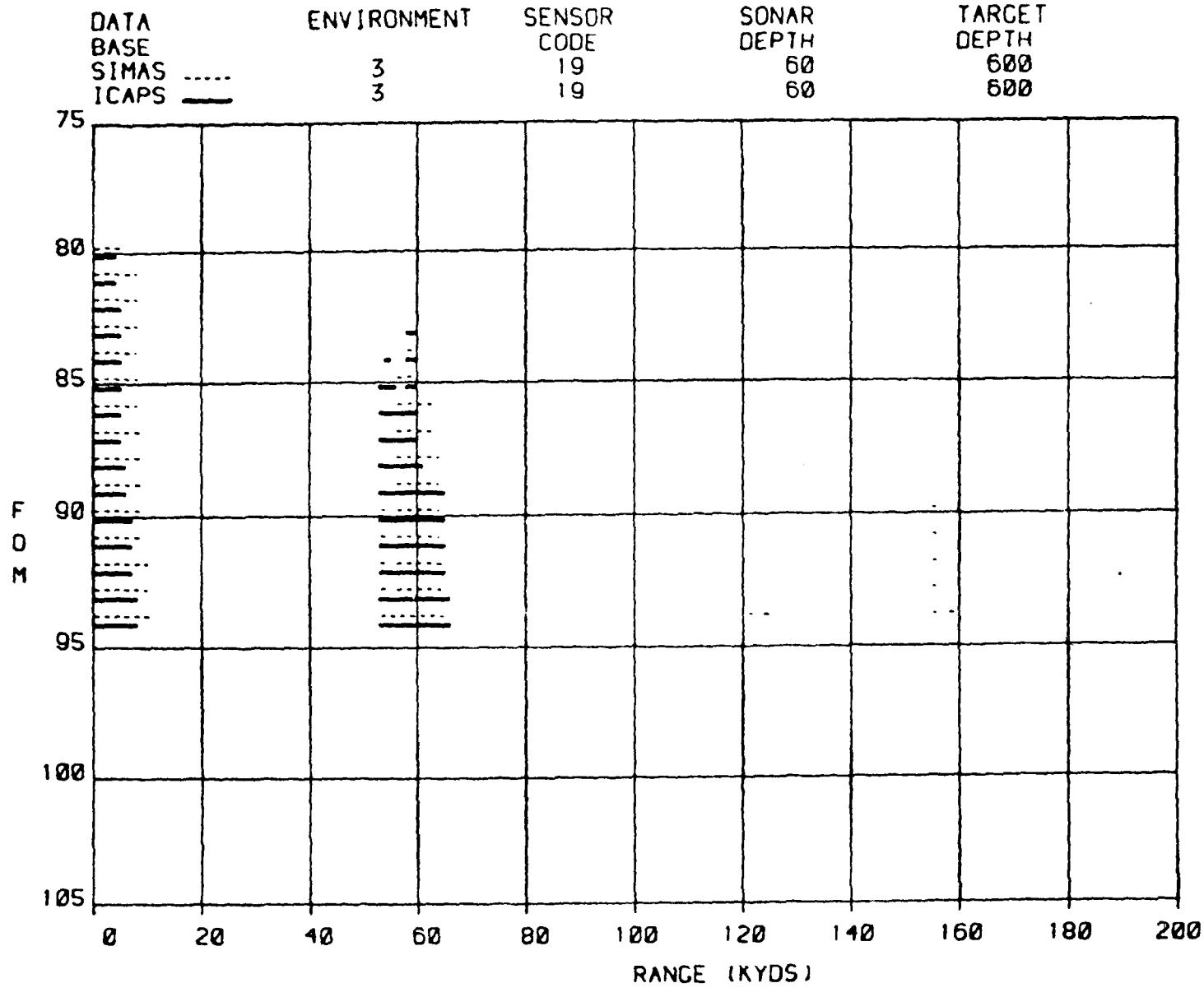

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 3 15 200 60
ICAPS 3 15 200 60
70
75
80
85
90
95
100
F O M
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

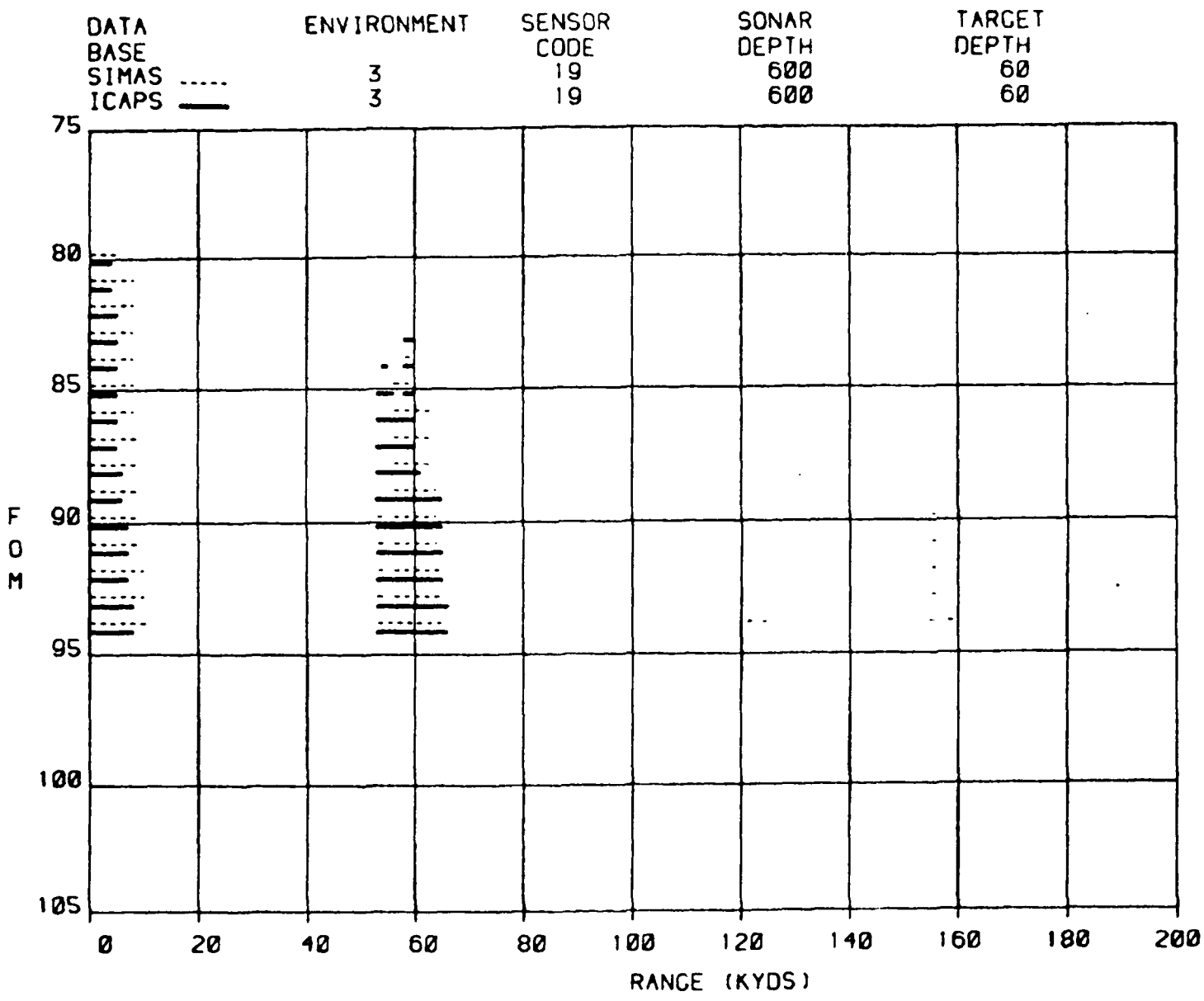

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 15 200 600
ICAPS ——— 3 15 200 600
70
75
80
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90
95
100
F O M
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20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

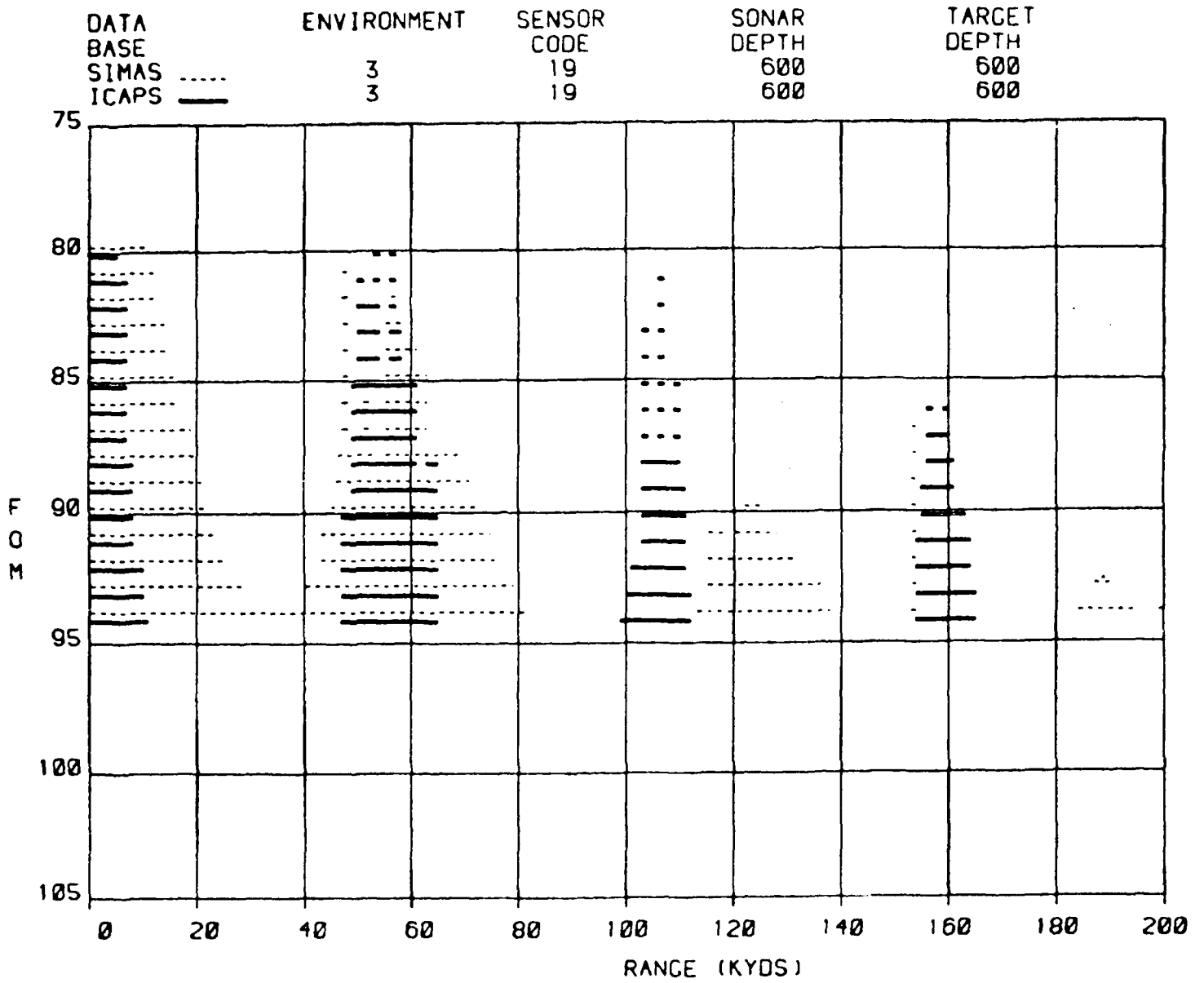

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 3 15 500 60
ICAPS ——— 3 15 500 60
70
75
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F O M
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120
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180
200
RANGE (KYDS)

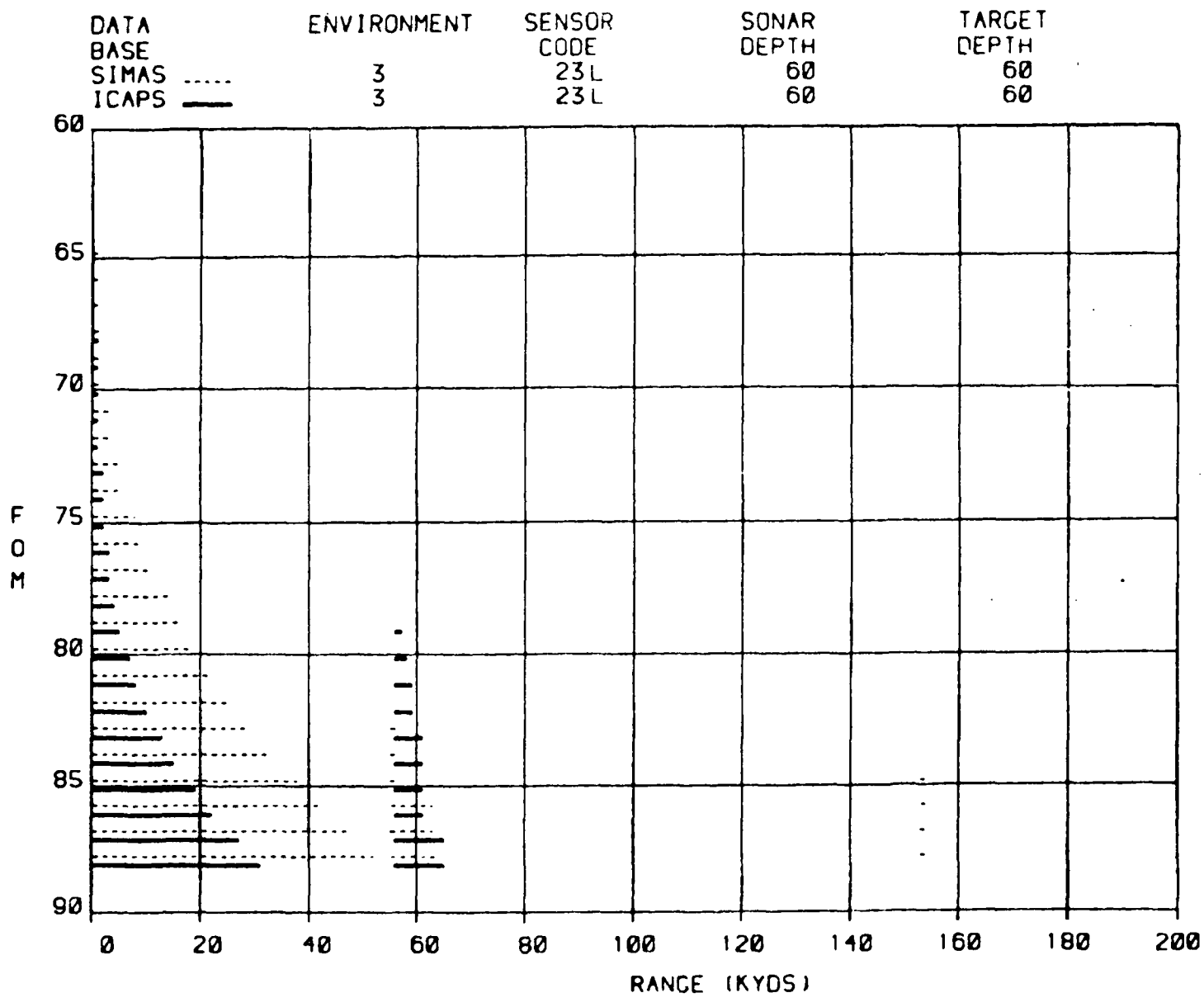

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 3 15 500 600
ICAPS 3 15 500 600
70
75
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90
95
100
F O M
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60
80
100
120
140
160
180
200
RANGE (KYDS)

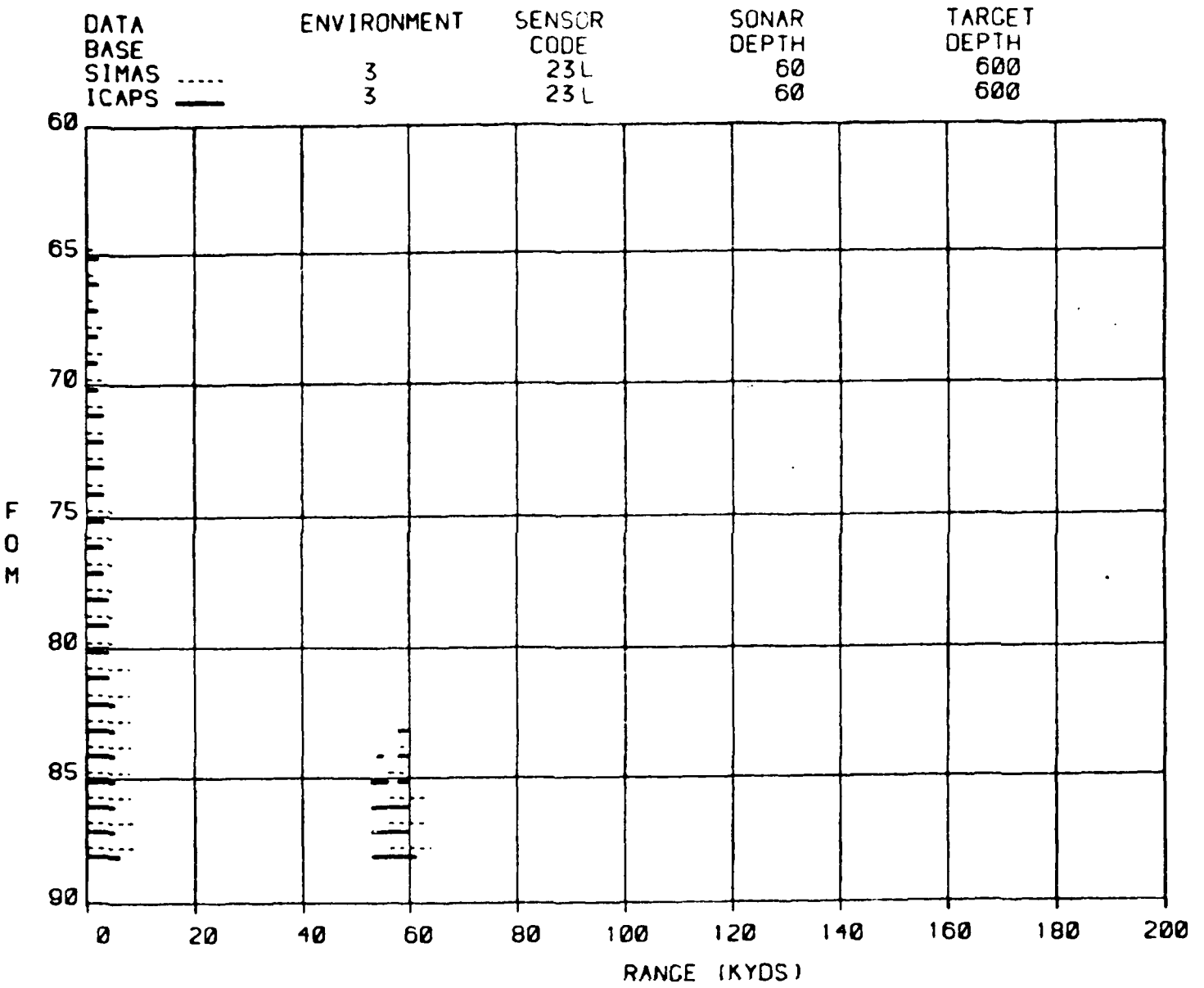

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
3
3
SENSOR CODE
19
19
SONAR DEPTH
60
60
TARGET DEPTH
60
60
75
80
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95
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105
FOM
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RANGE (KYDS)

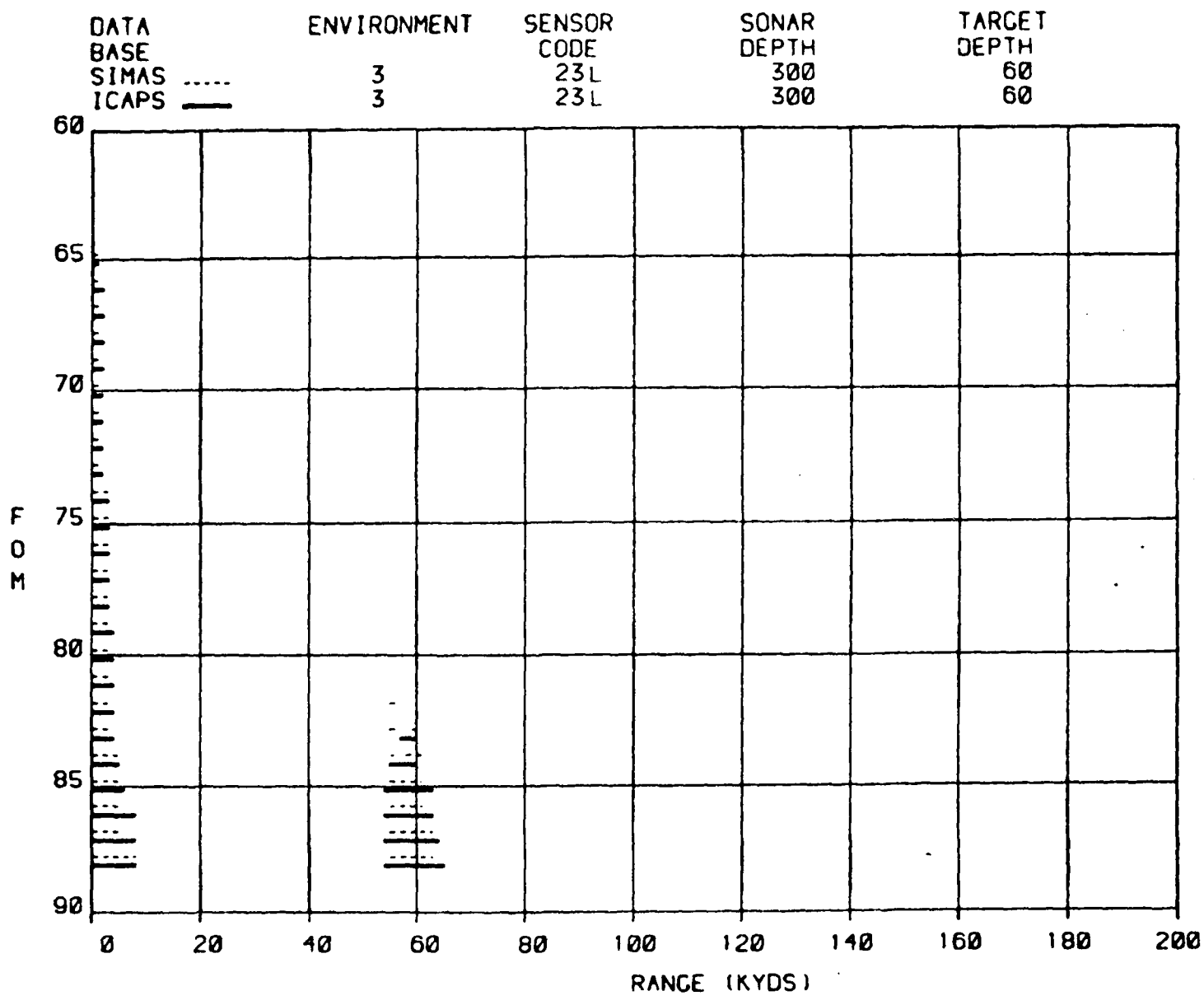

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 19 60 600
ICAPS ——— 3 19 60 600
75
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105
FOM
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RANGE (KYDS)

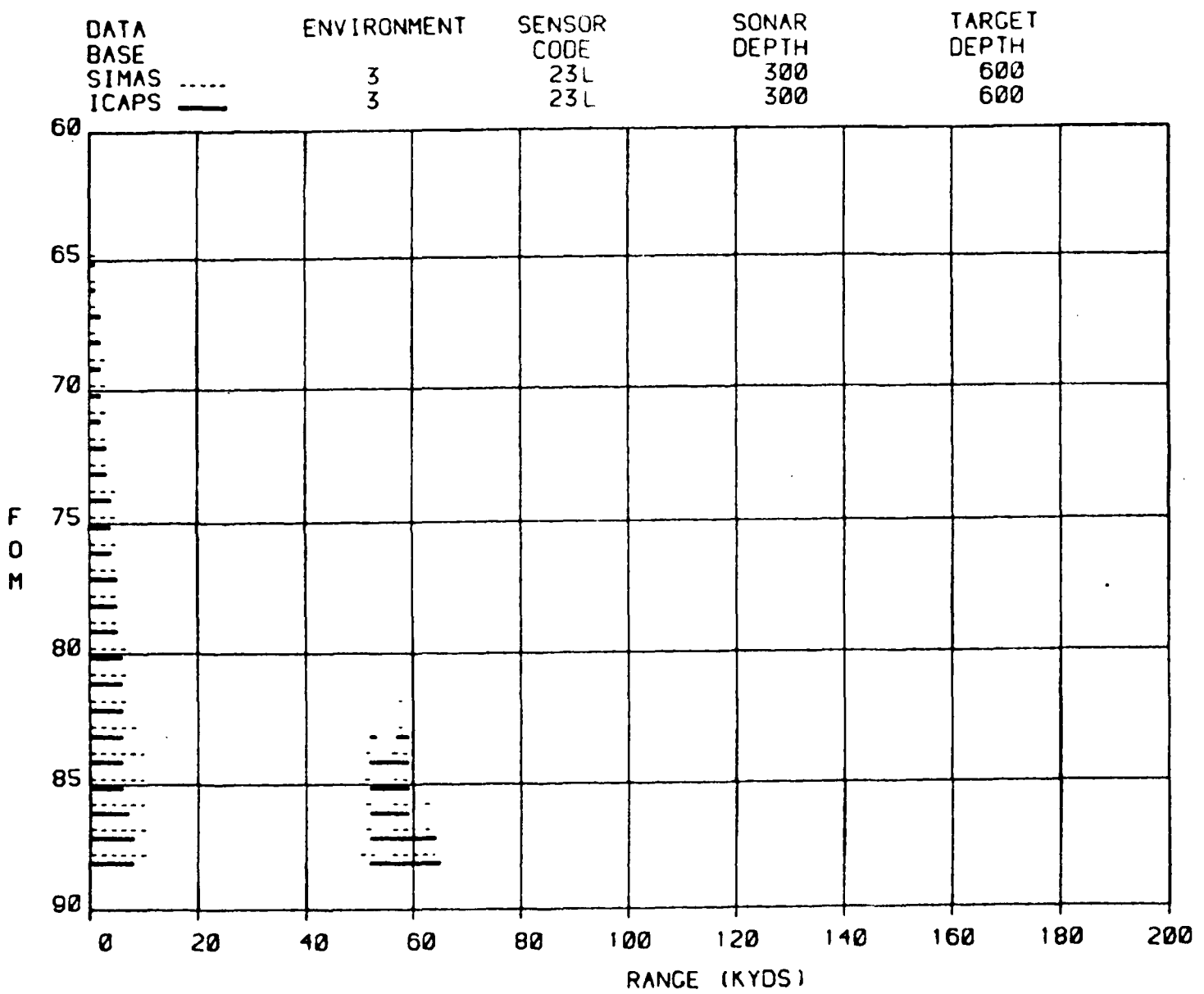

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 19 600 60
ICAPS ——— 3 19 600 60
75
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95
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105
F O M
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120
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RANGE (KYDS)

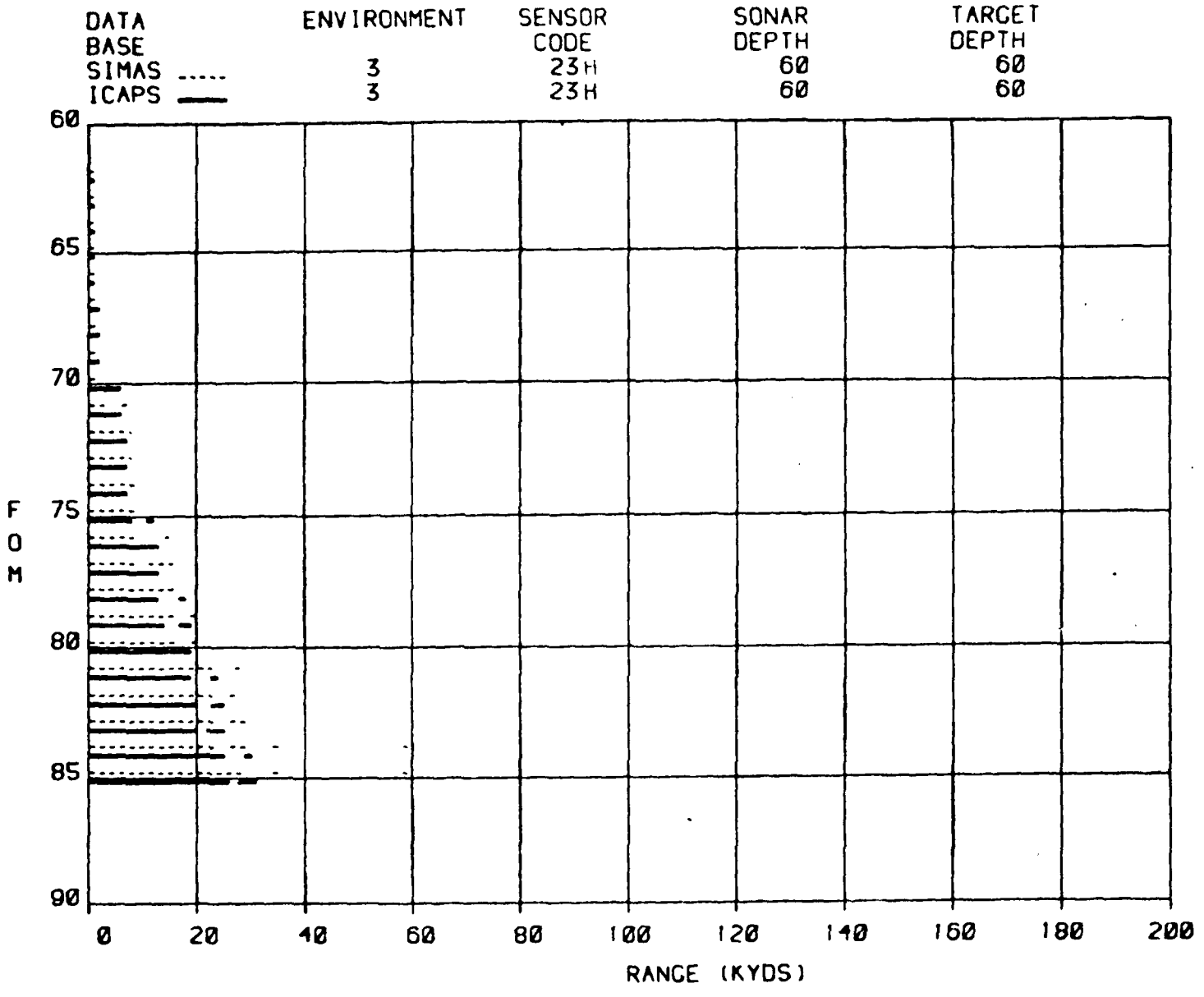

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 3 19 600 600
ICAPS 3 19 600 600
75
80
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100
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F O M
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60
80
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120
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180
200
RANGE (KYDS)

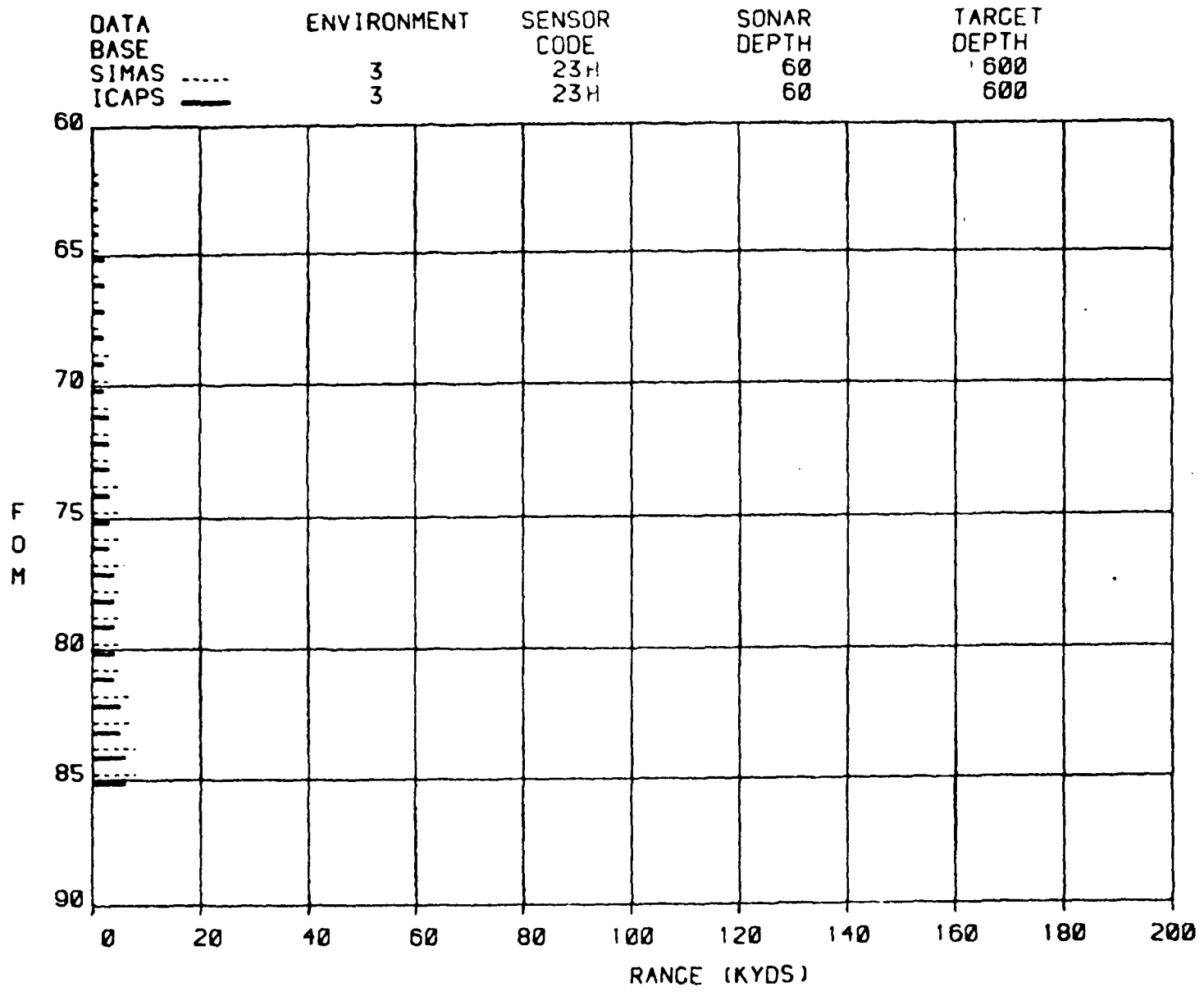

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 23L 60 60
ICAPS ——— 3 23L 60 60
60
65
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FOM
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200
RANGE (KYDS)

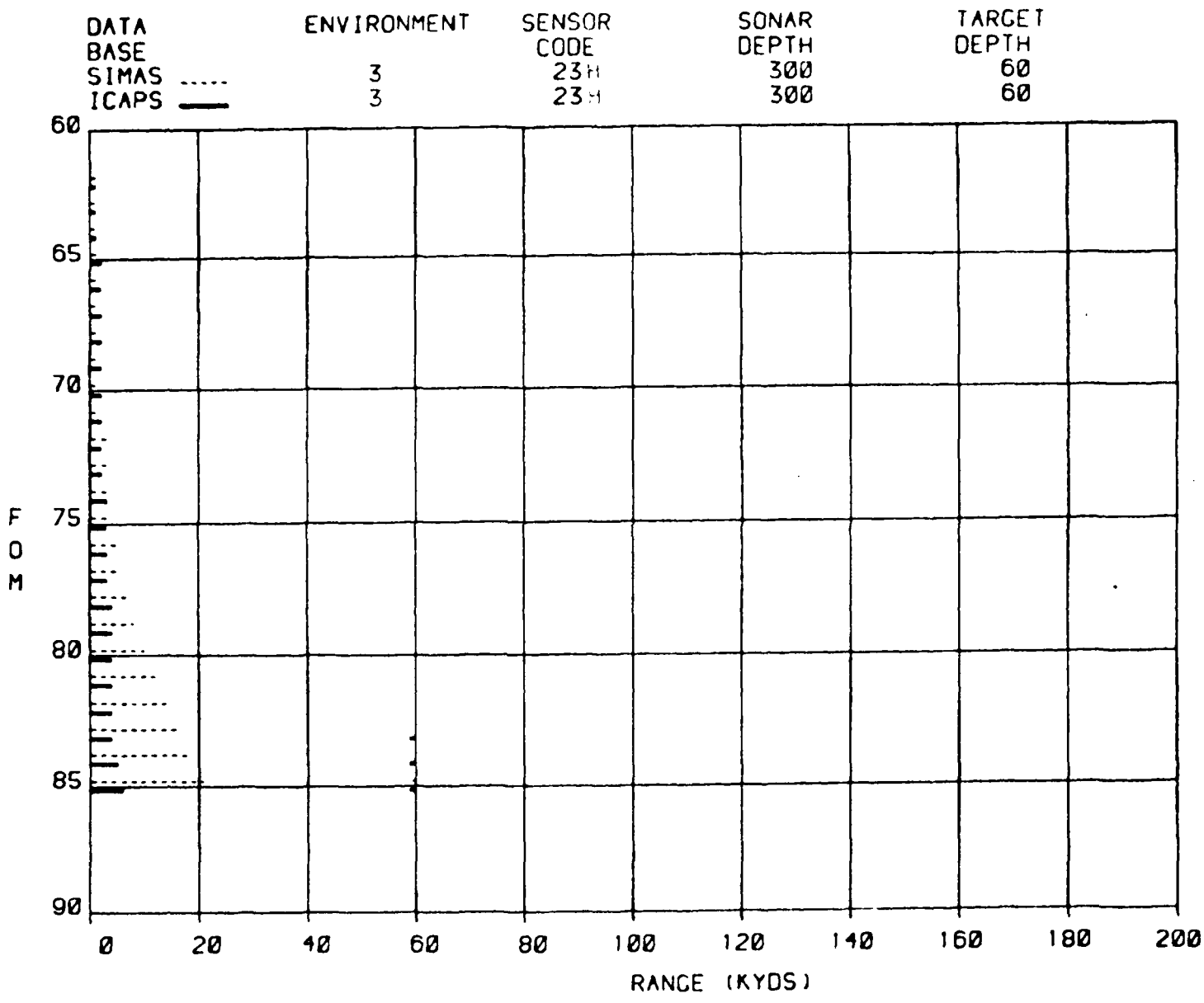

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 23L 60 600
ICAPS ——— 3 23L 60 600
60
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FOM
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40
60
80
100
120
140
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180
200
RANGE (KYDS)

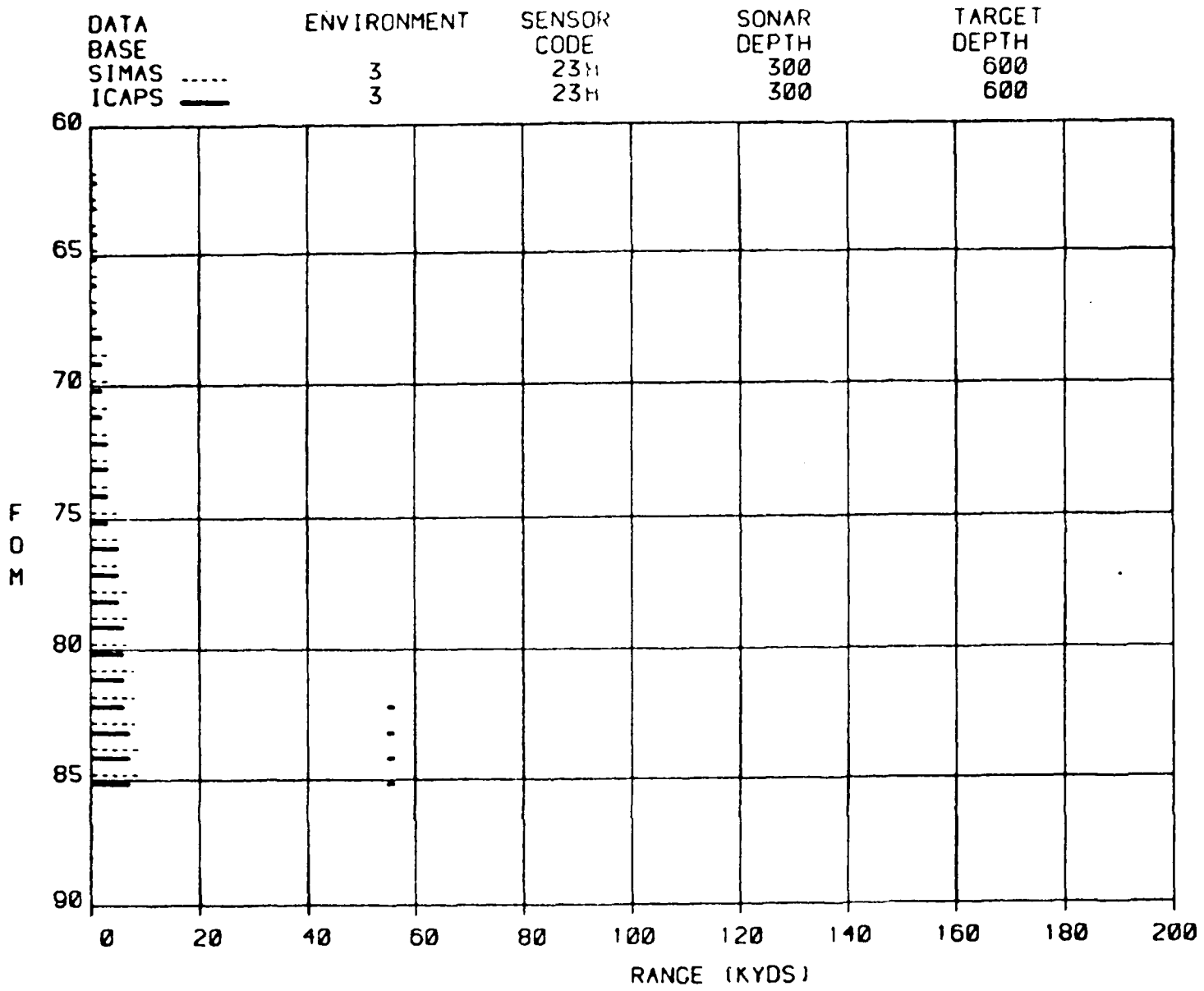

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 23L 300 60
ICAPS ——— 3 23L 300 60
60
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FOM
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60
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200
RANGE (KYDS)

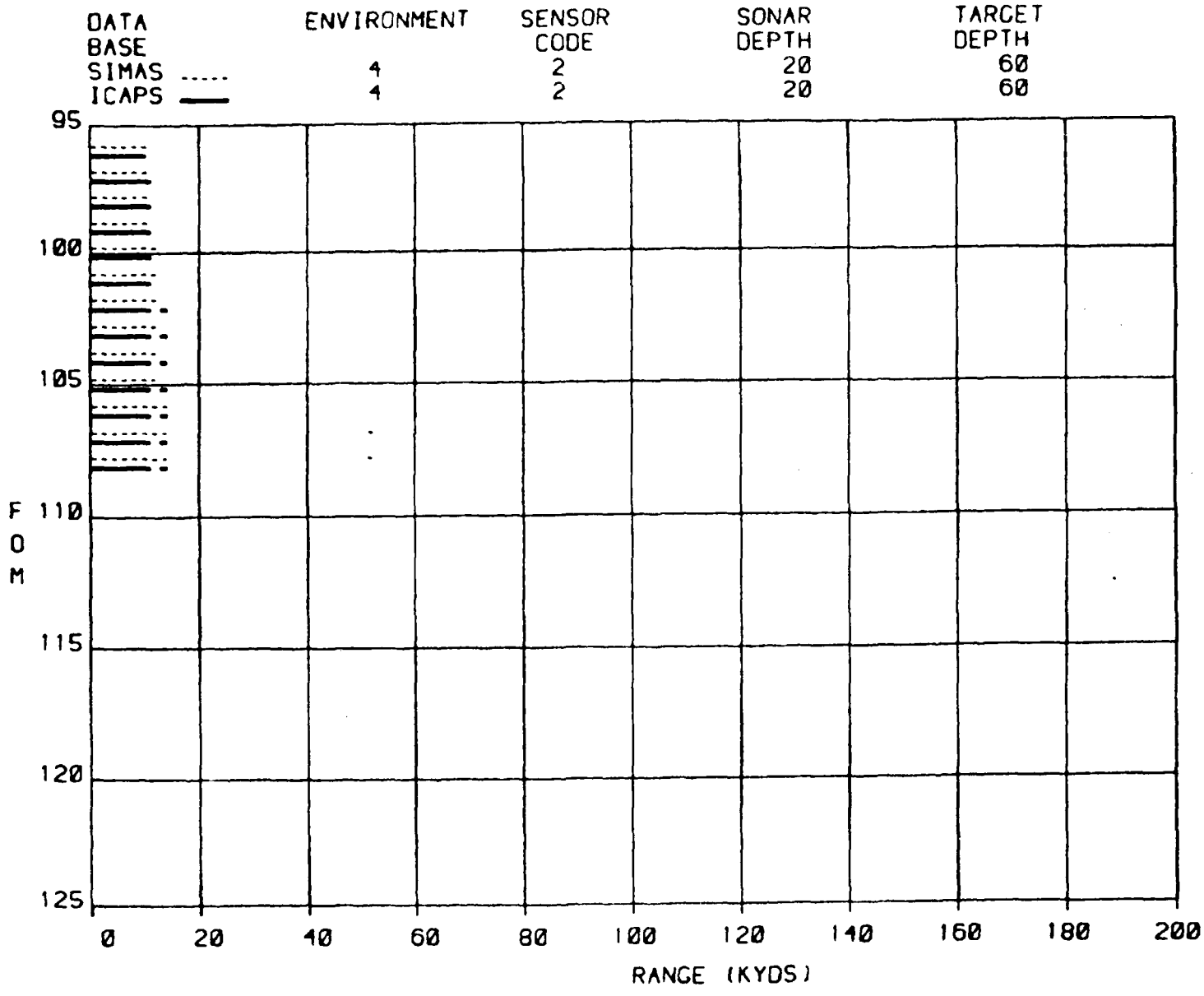

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 23L 300 600
ICAPS ——— 3 23L 300 600
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65
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75
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F O M
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40
60
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200
RANGE (KYDS)

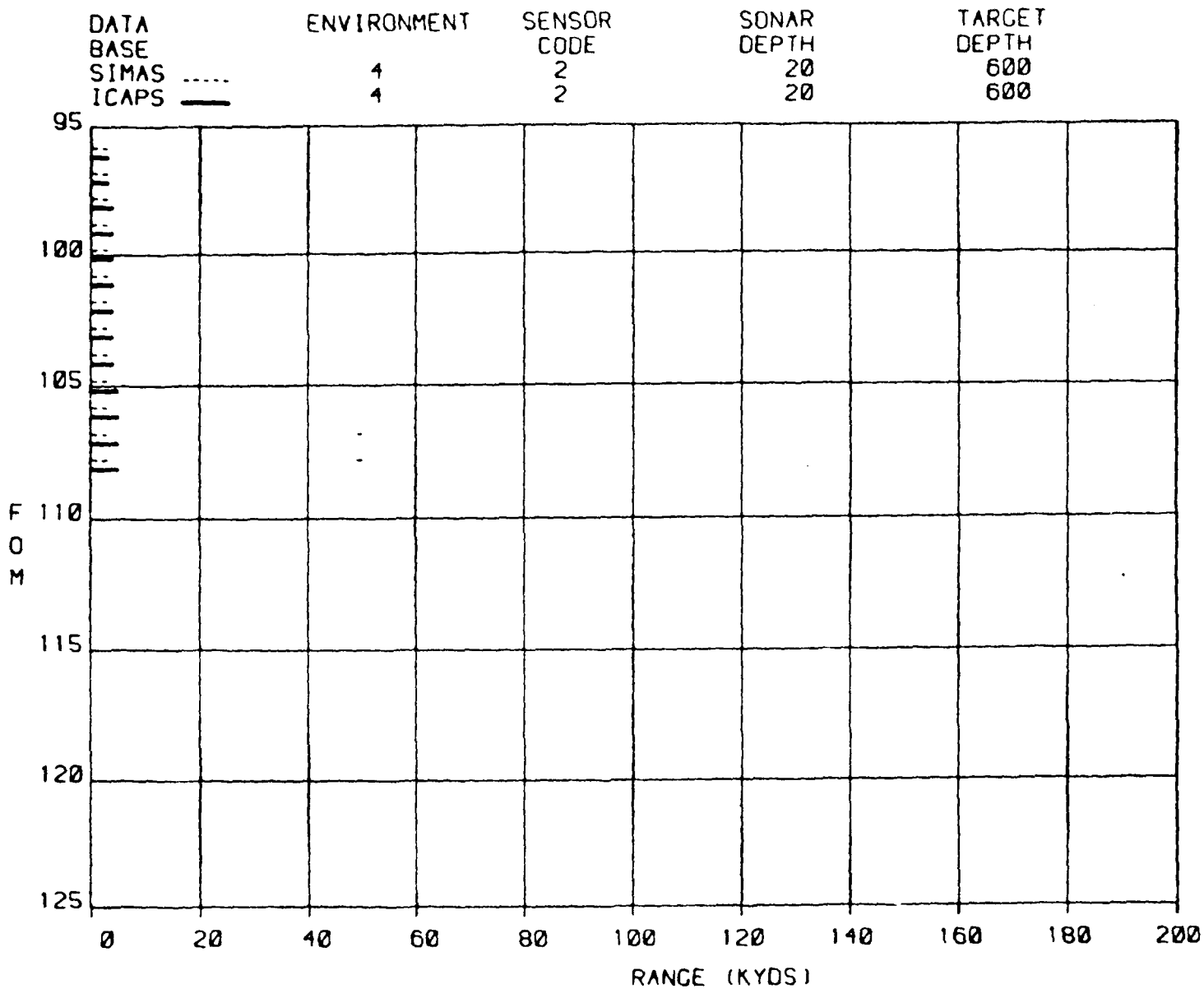

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 23H 60 60
ICAPS ——— 3 23H 60 60
60
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90
FOM
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200
RANGE (KYDS)

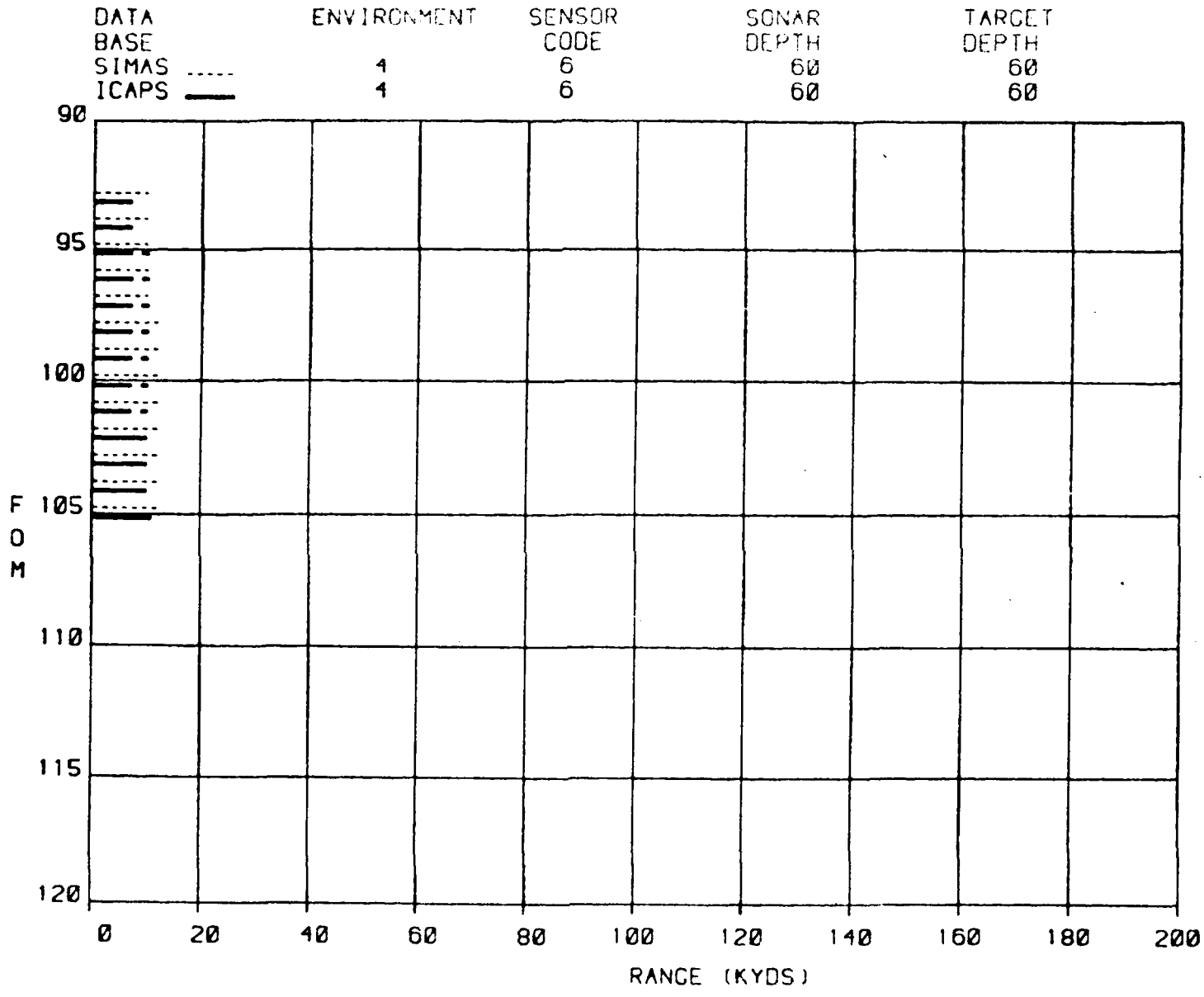

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 23H 60 600
ICAPS ——— 3 23H 60 600
60
65
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F O M
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20
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200
RANGE (KYDS)

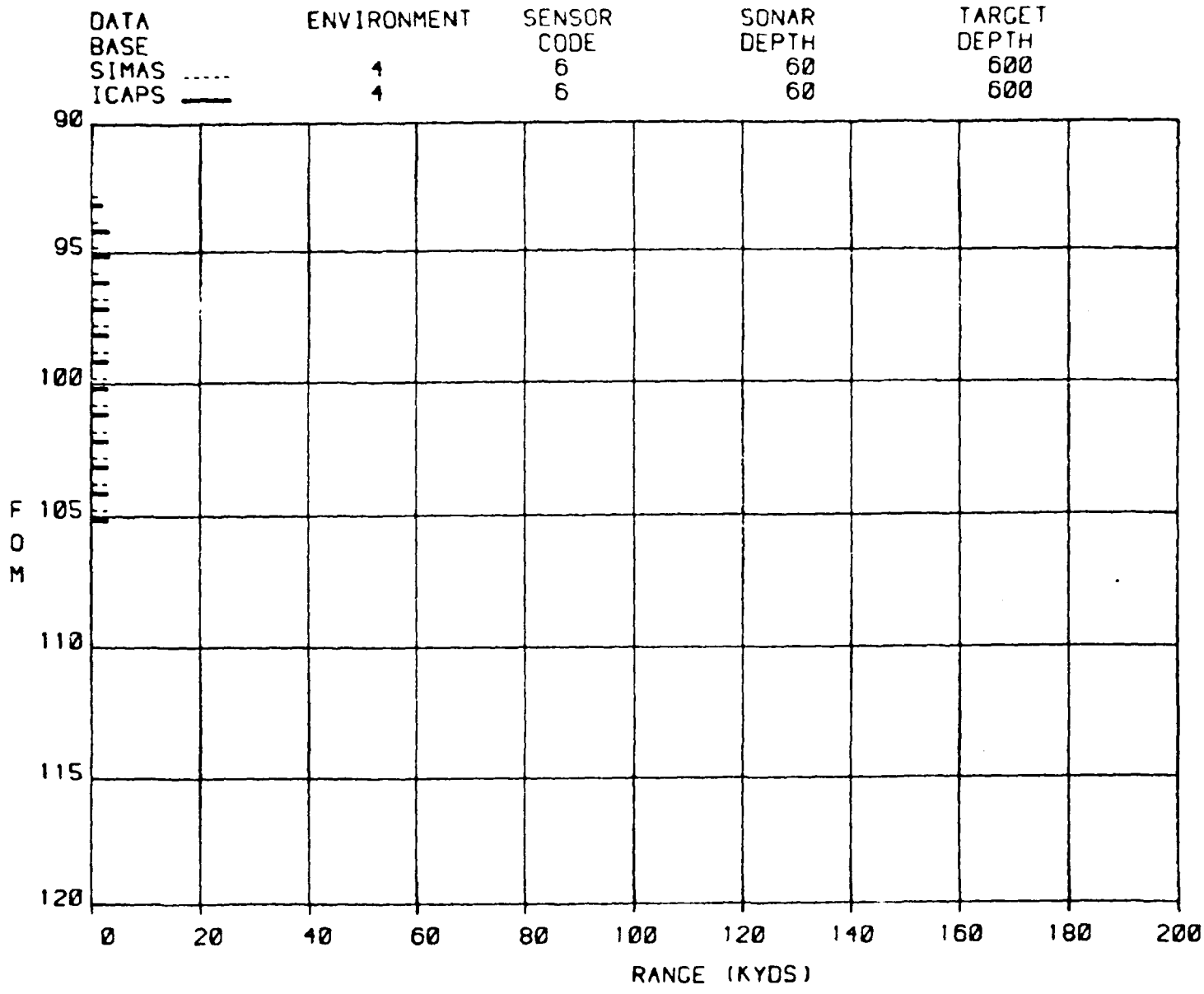

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 23H 300 60
ICAPS ——— 3 23H 300 60
60
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75
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90
FOM
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200
RANGE (KYDS)

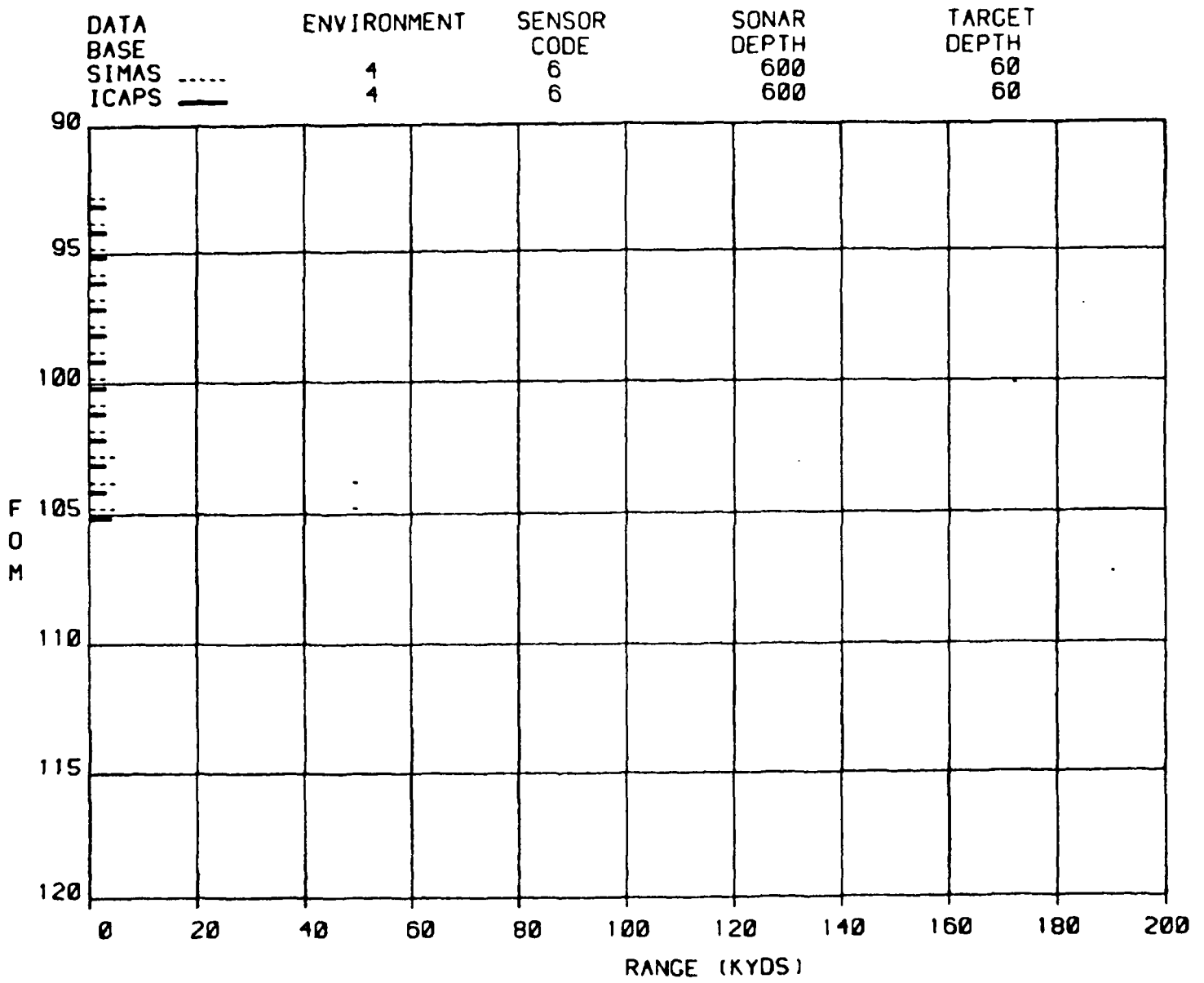

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 3 23H 300 600
ICAPS ——— 3 23H 300 600
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65
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F O M
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200
RANGE (KYDS)

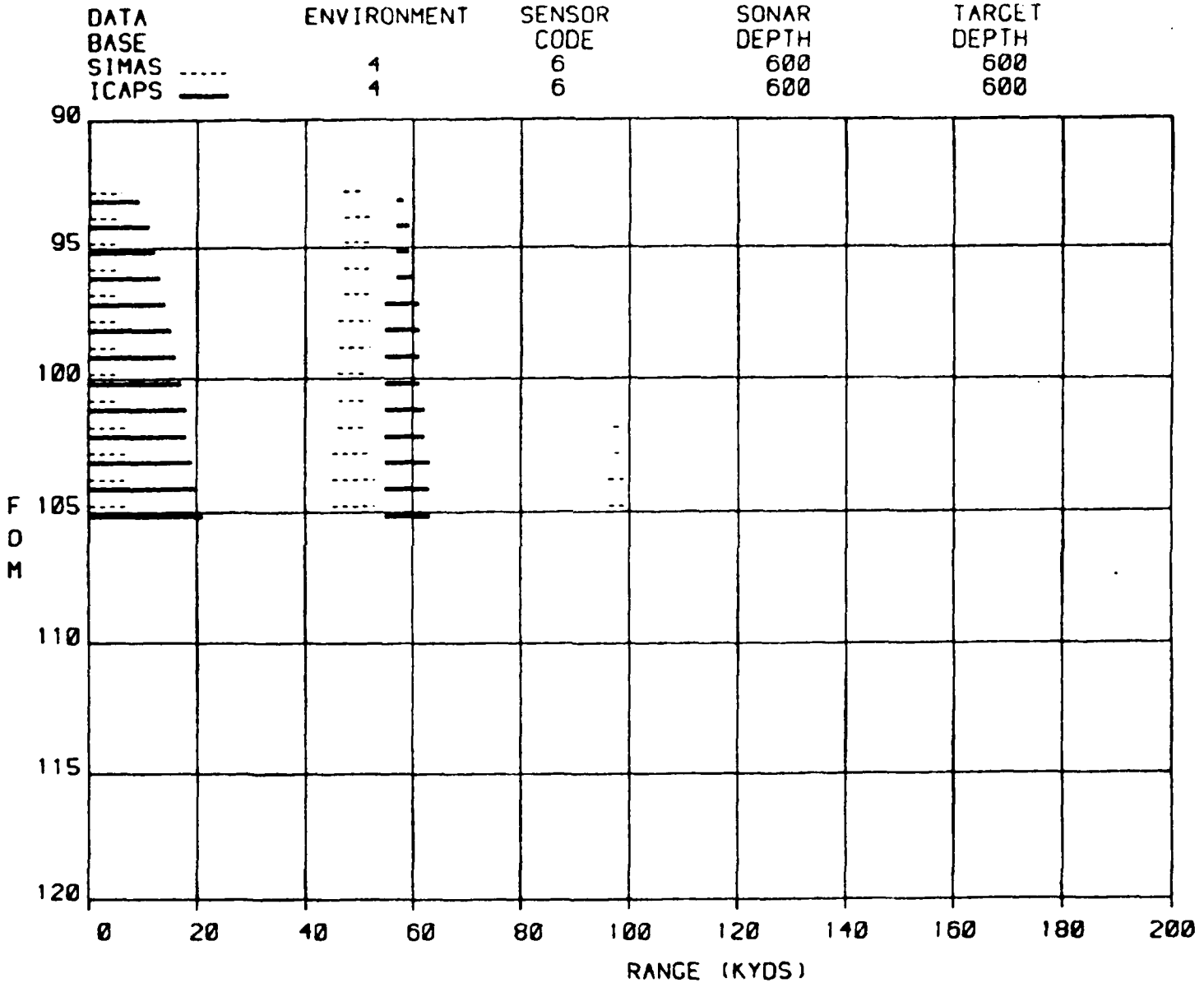

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 2 20 60
ICAPS ——— 4 2 20 60
95
100
105
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115
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125
F O M
0
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40
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180
200
RANGE (KYDS)

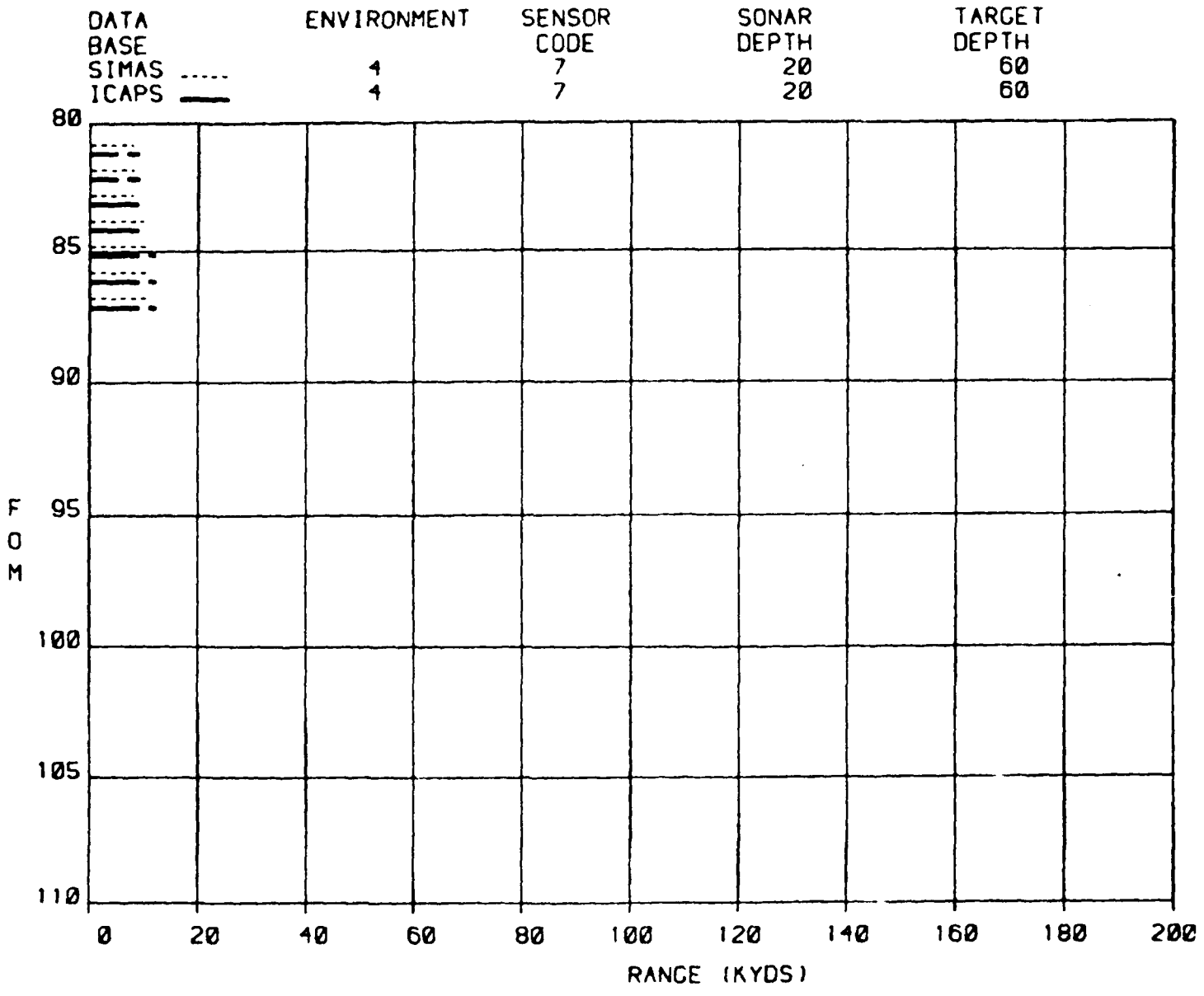

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 2 20 600
ICAPS —— 4 2 20 600
95
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125
FOM
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RANGE (KYDS)

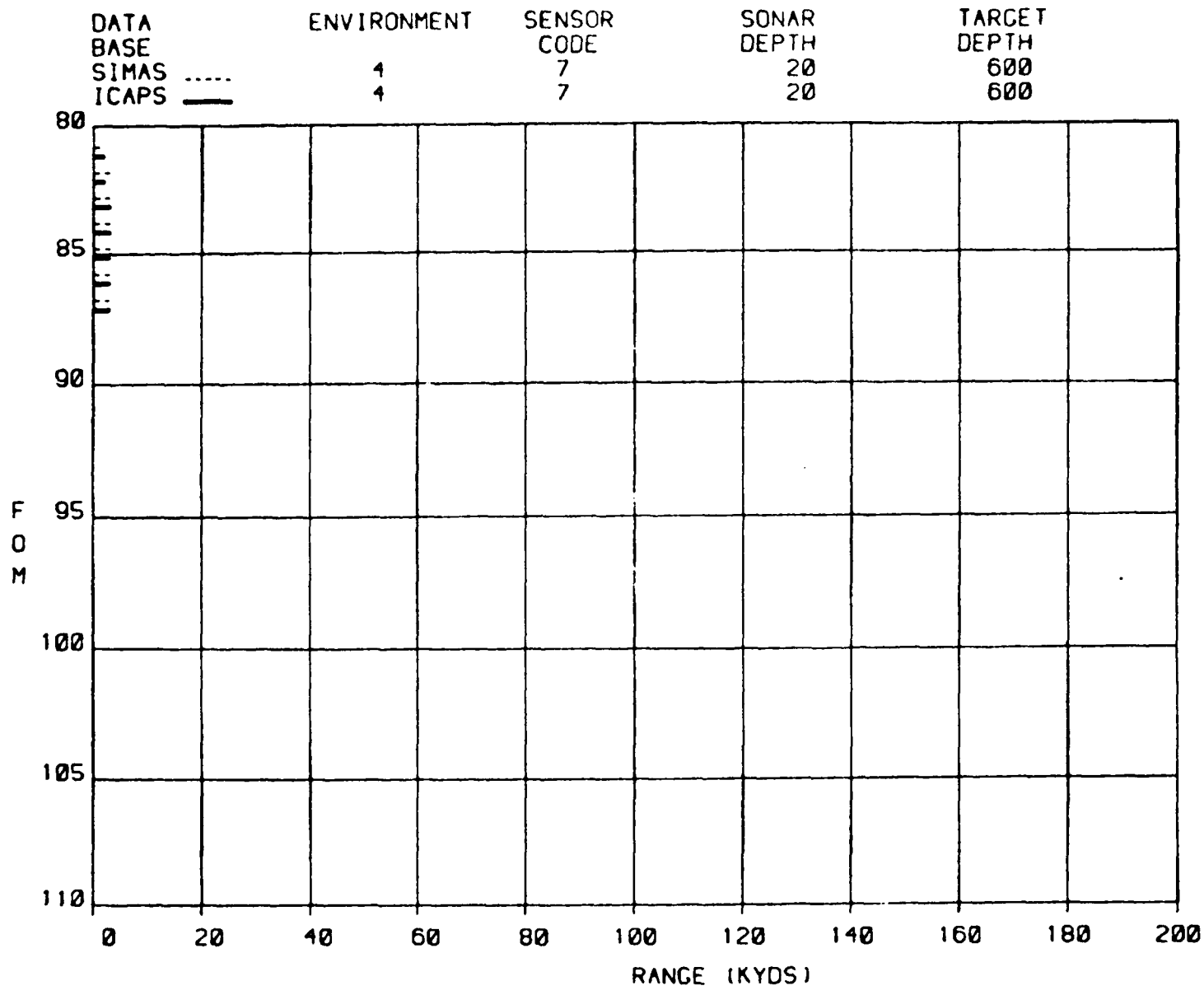

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 6 60 60
ICAPS ——— 4 6 60 60
90
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120
FOM
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RANGE (KYDS)

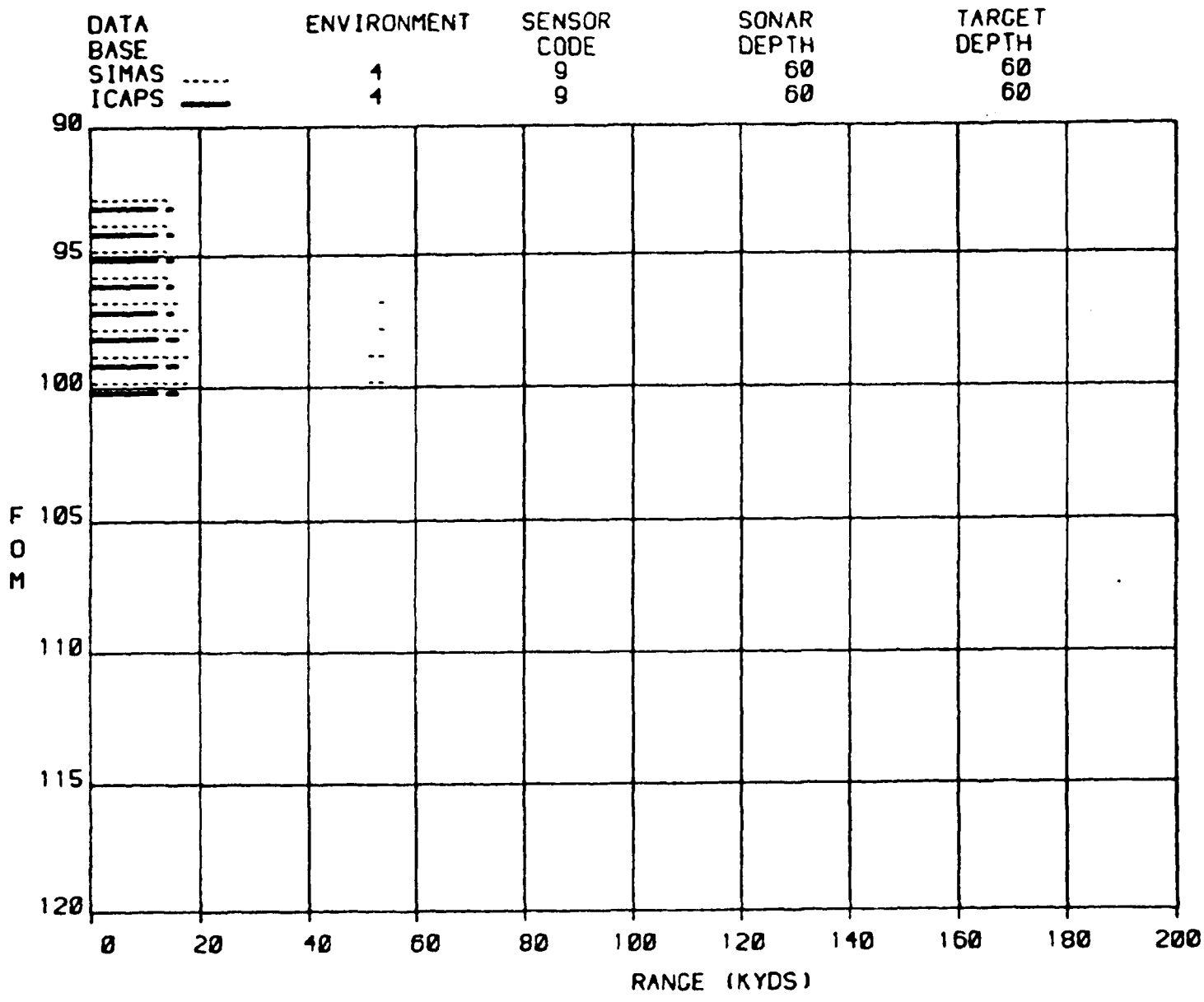

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 6 60 600
ICAPS —— 4 6 60 600
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F O M
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200
RANGE (KYDS)

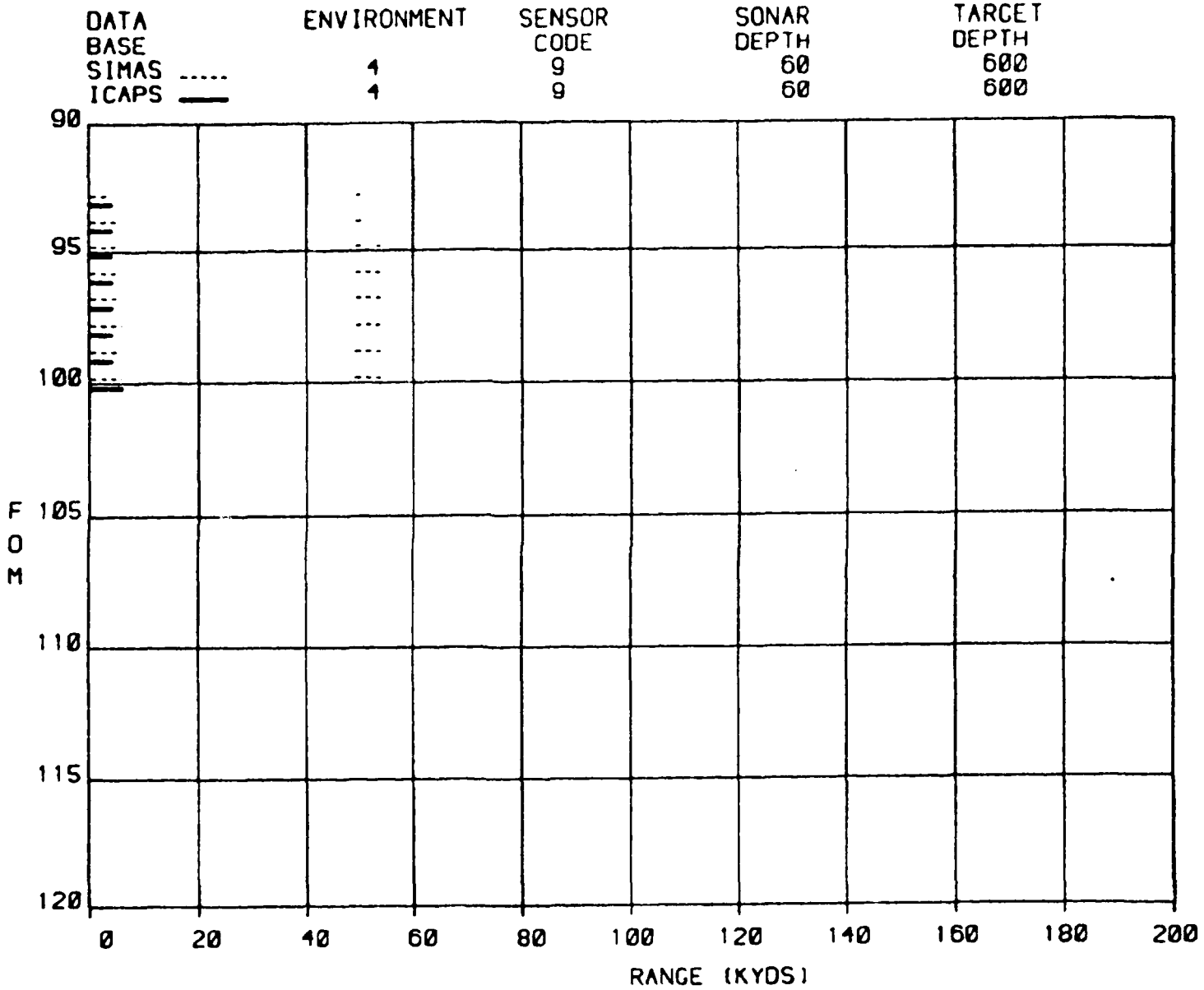

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 6 600 60
ICAPS ——— 4 6 600 60
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F O M
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200
RANGE (KYDS)

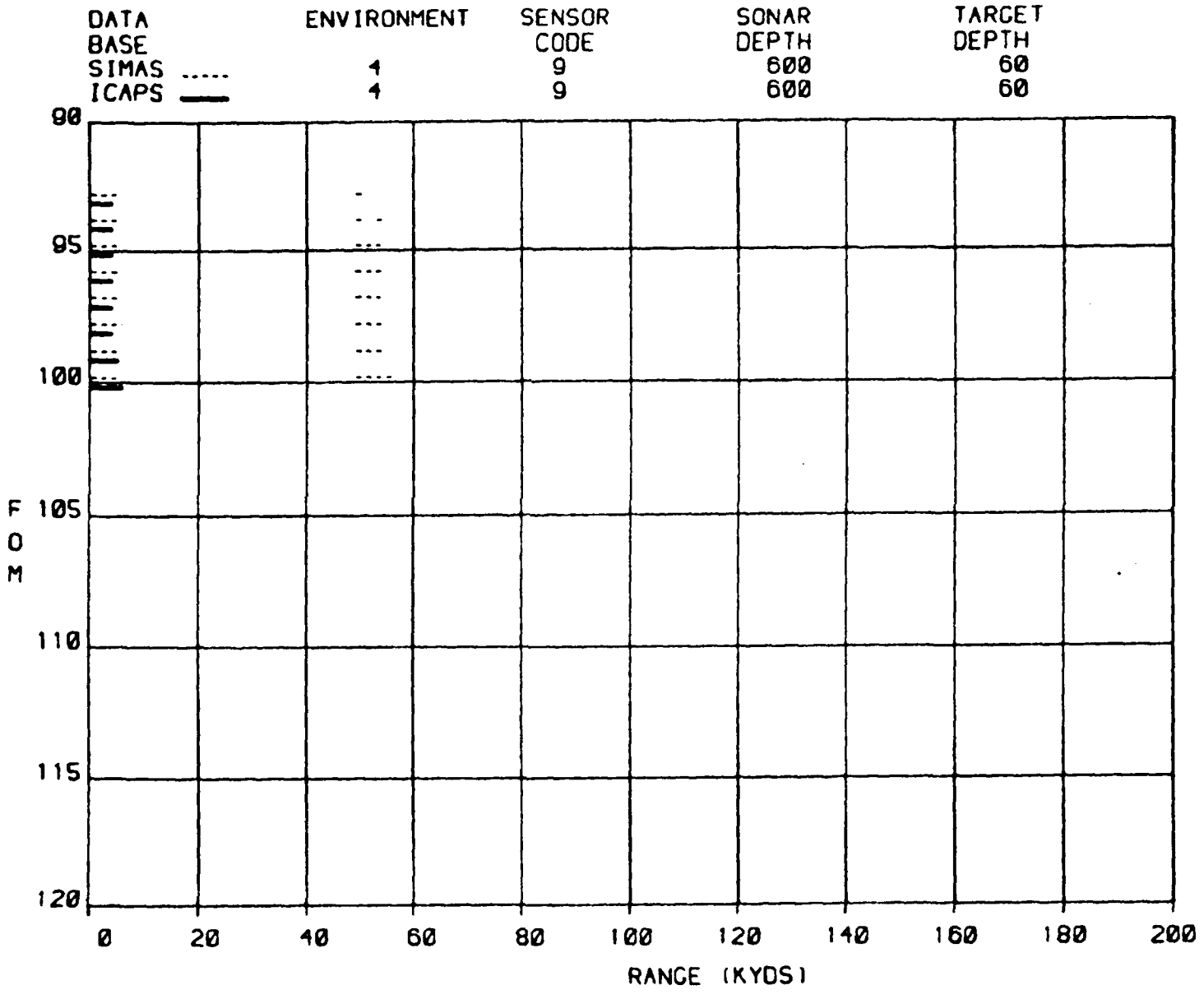

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 6 600 600
ICAPS ——— 4 6 600 600
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F O M
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RANGE (KYDS)

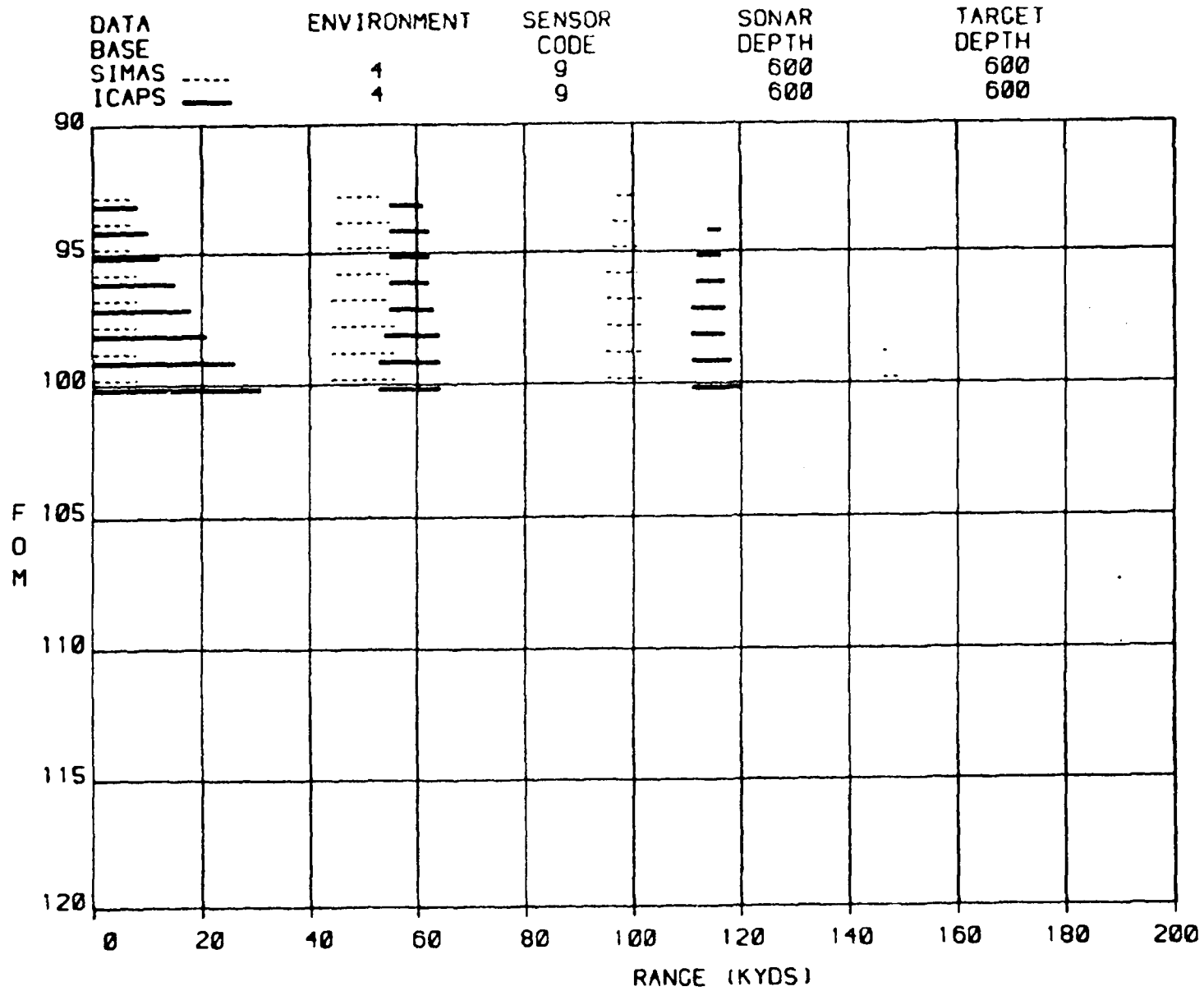

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 7 20 60
ICAPS ——— 4 7 20 60
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RANGE (KYDS)

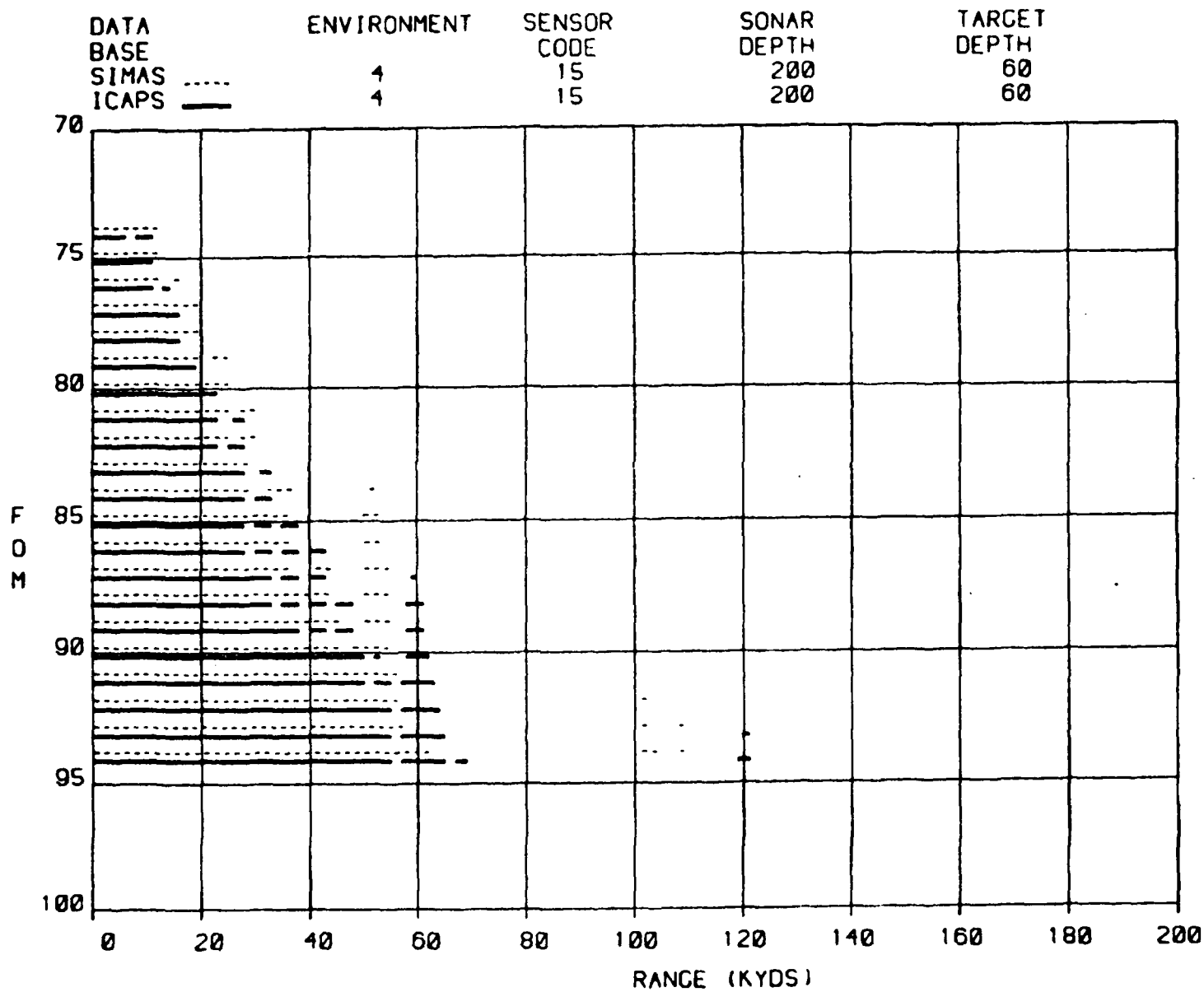

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 7 20 600
ICAPS ——— 4 7 20 600
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200
RANGE (KYDS)

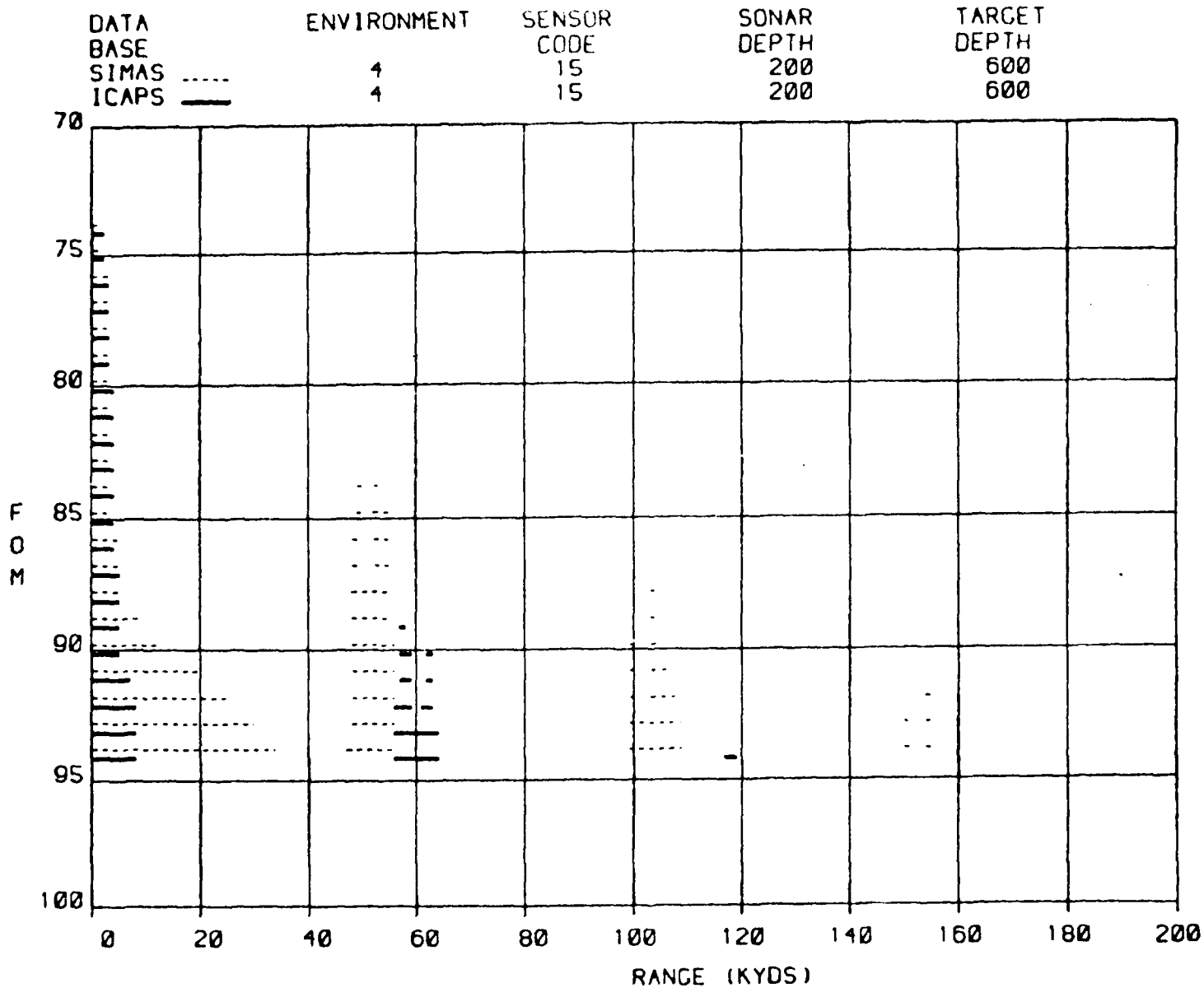

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 9 60 60
ICAPS ——— 4 9 60 60
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RANGE (KYDS)

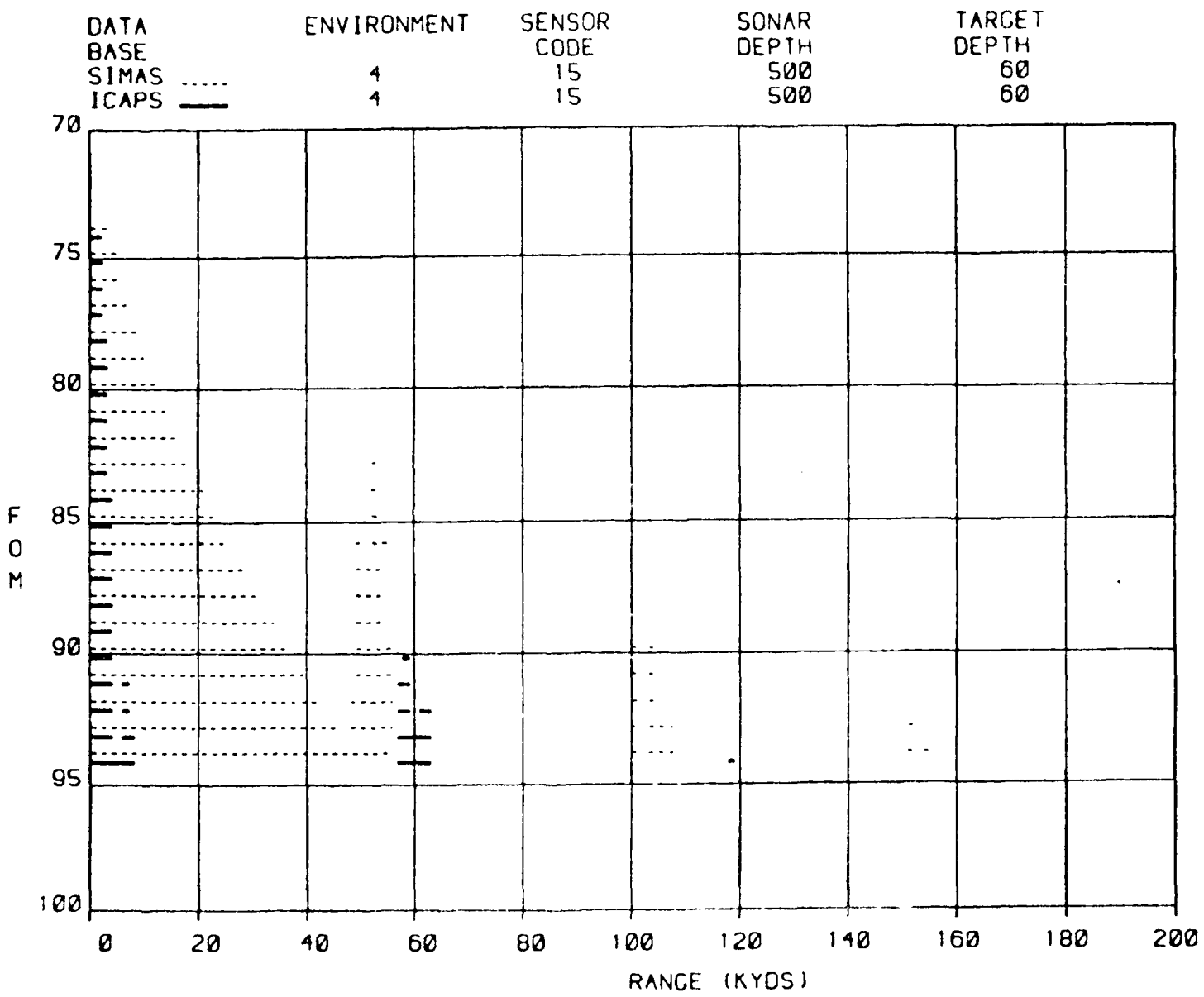

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 9 60 600
ICAPS —— 4 9 60 600
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F O M
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RANGE (KYDS)

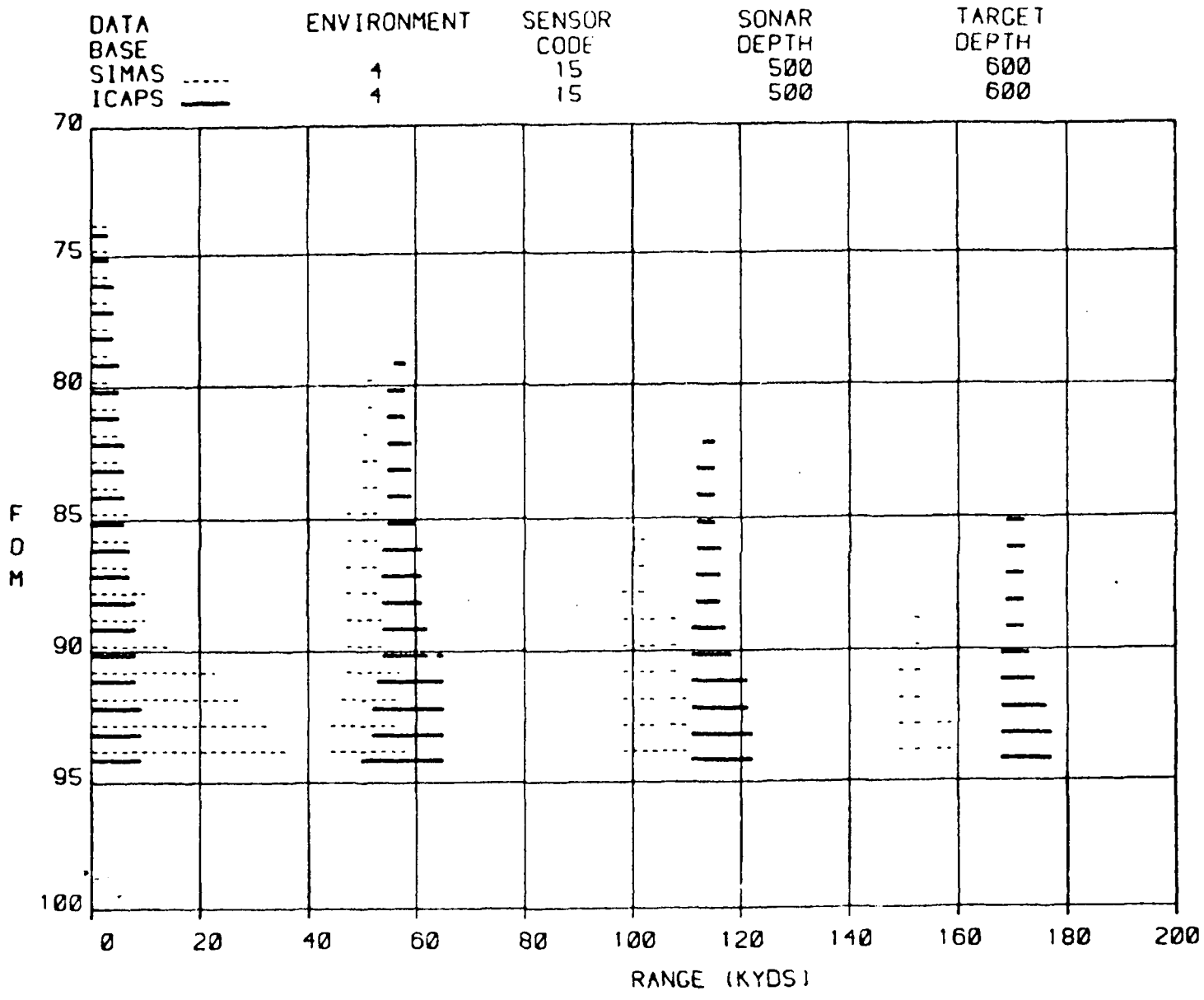

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 9 600 60
ICAPS ——— 4 9 600 60
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RANGE (KYDS)

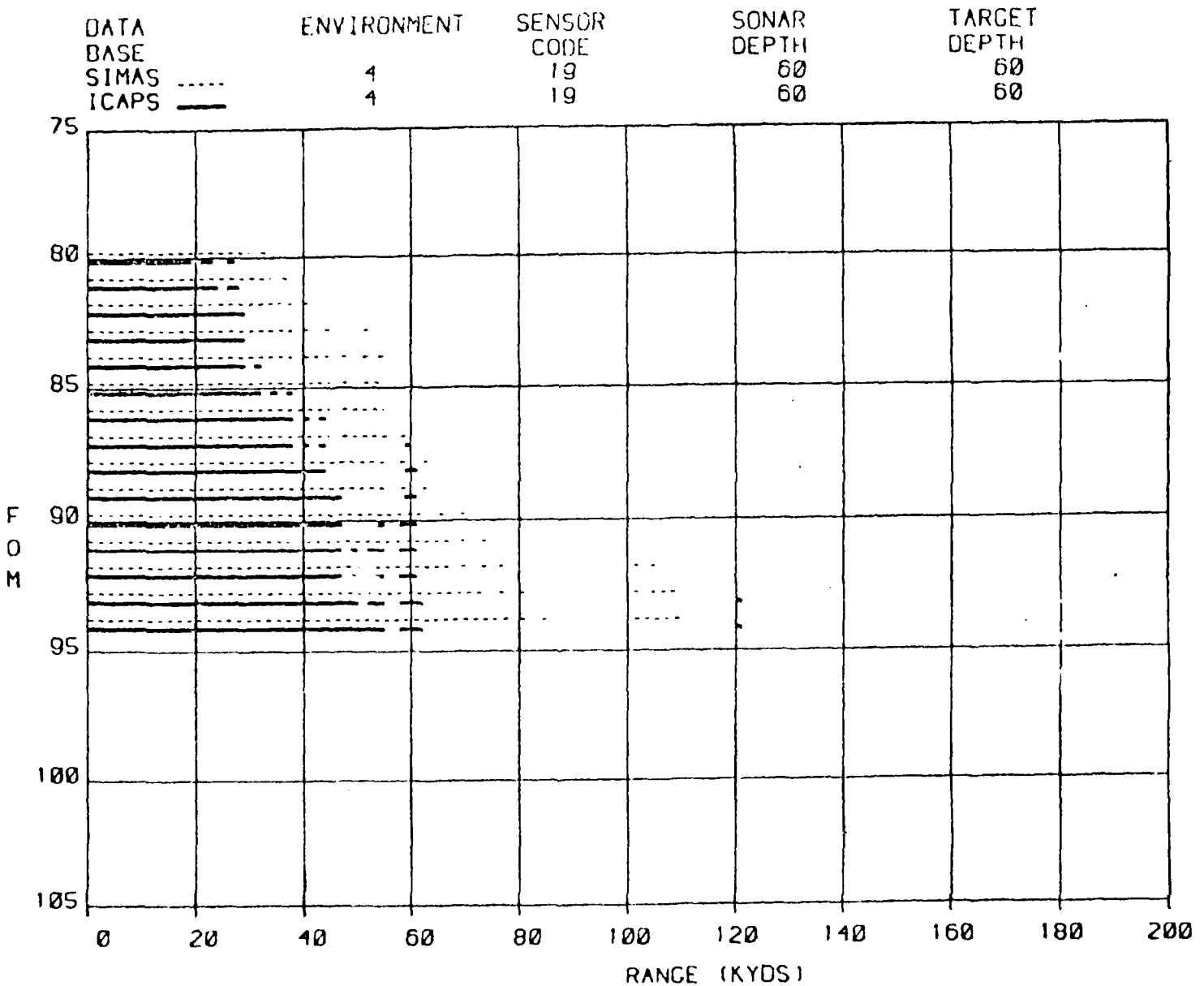

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 9 600 600
ICAPS ——— 4 9 600 600
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200
RANGE (KYDS)

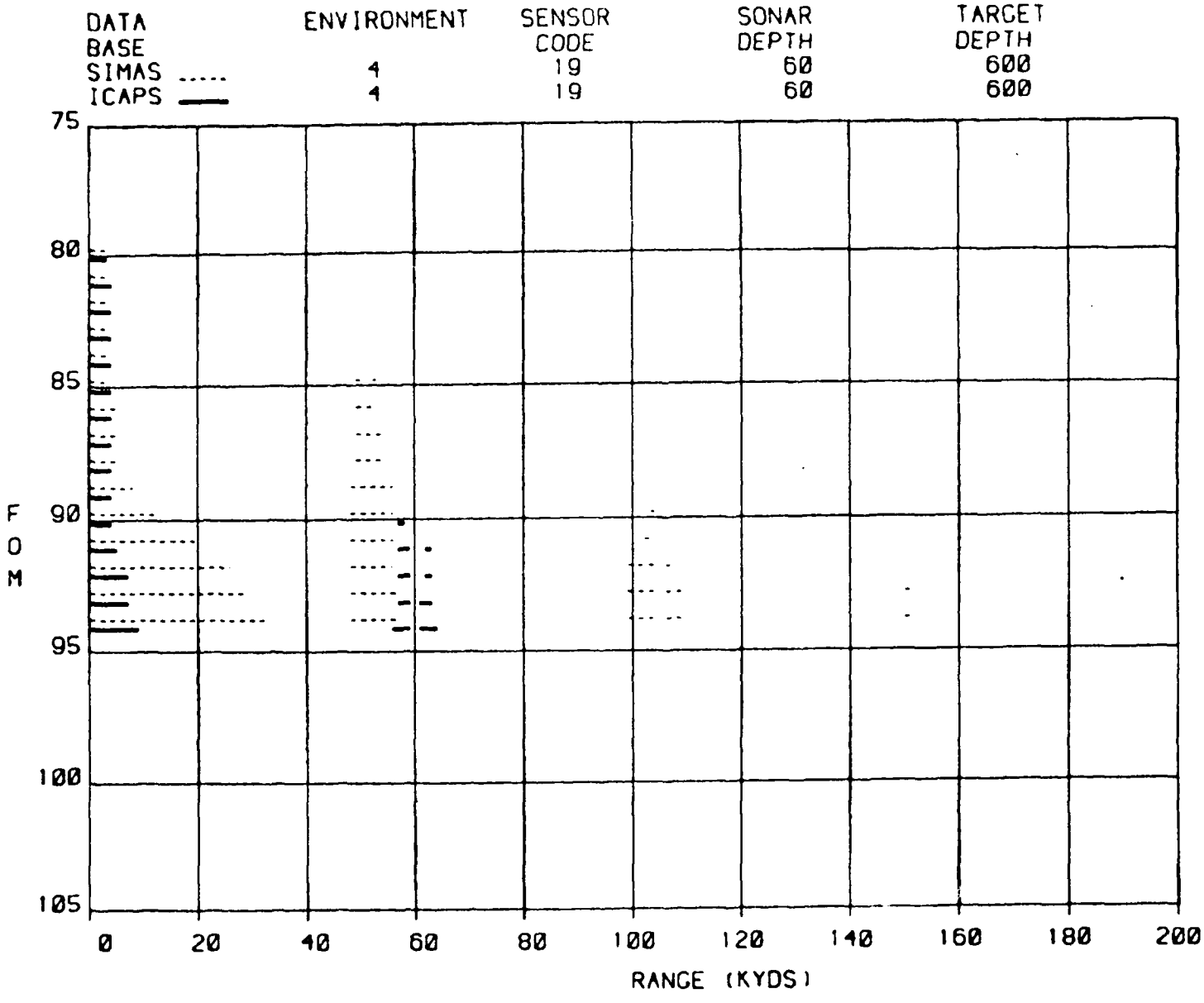

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 4 15 200 60
ICAPS 4 15 200 60
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75
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F O M
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120
140
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200
RANGE (KYDS)

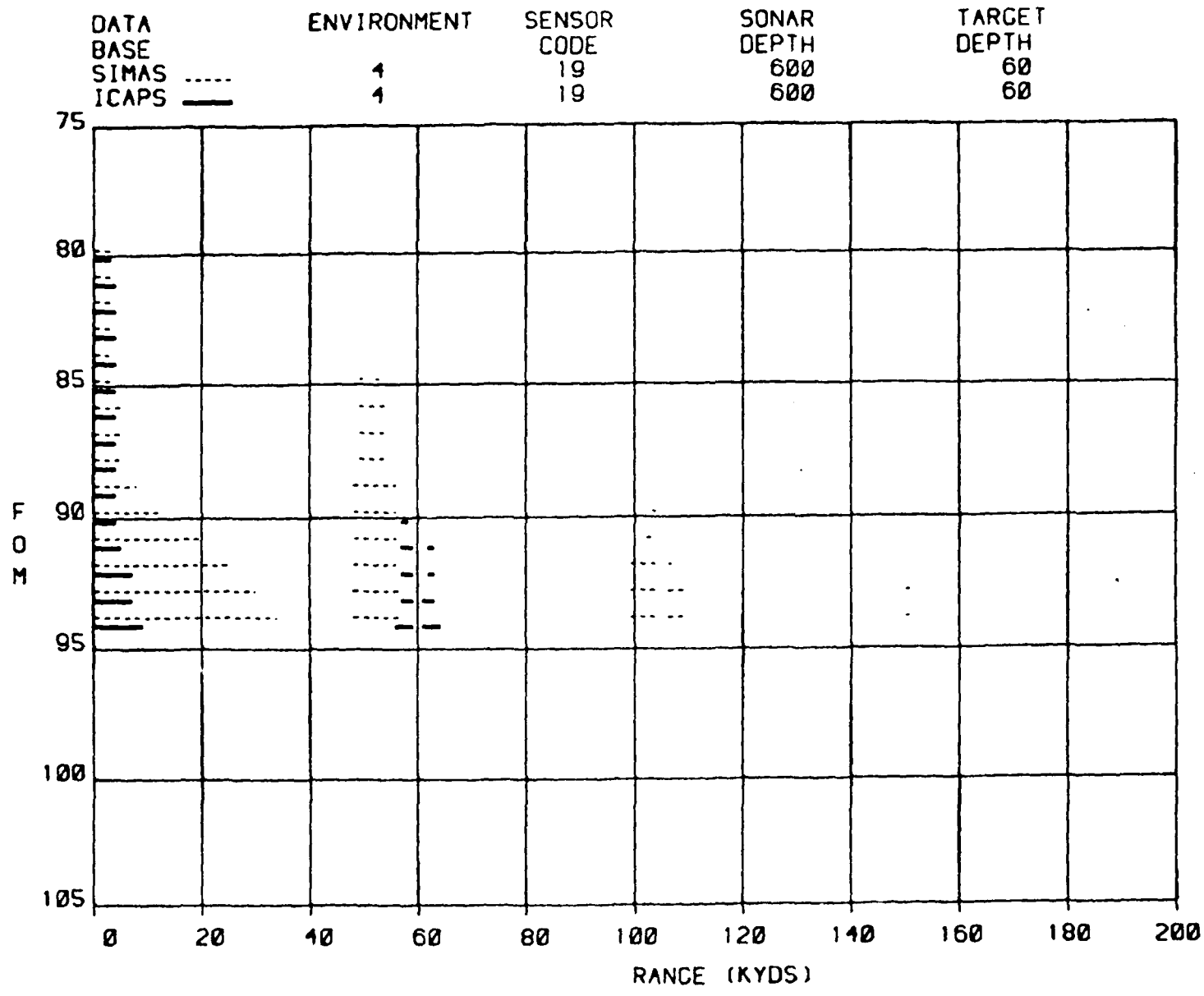

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 15 200 600
ICAPS —— 4 15 200 600
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RANGE (KYDS)

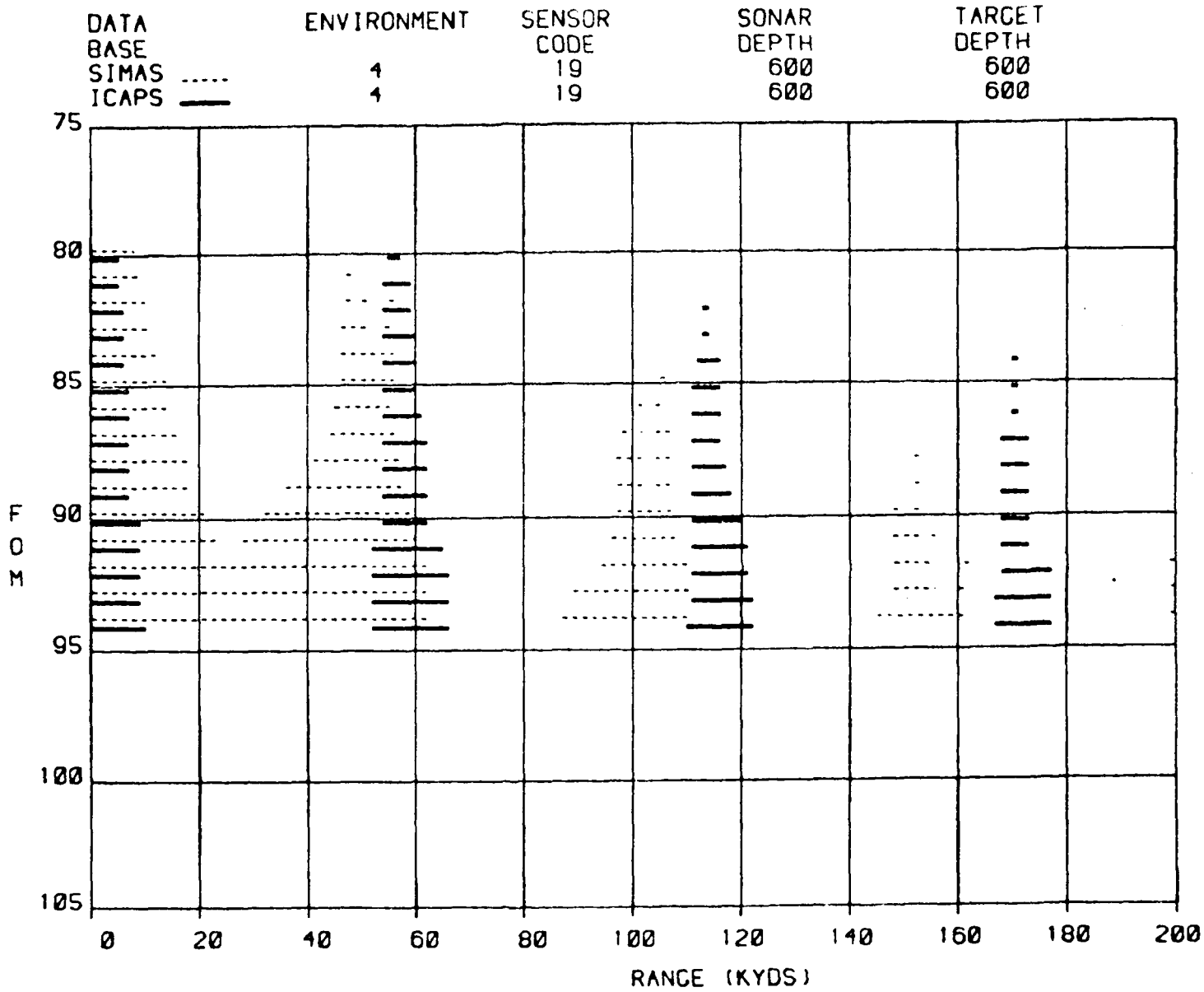

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 15 500 60
ICAPS ——— 4 15 500 60
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FOM
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200
RANGE (KYDS)

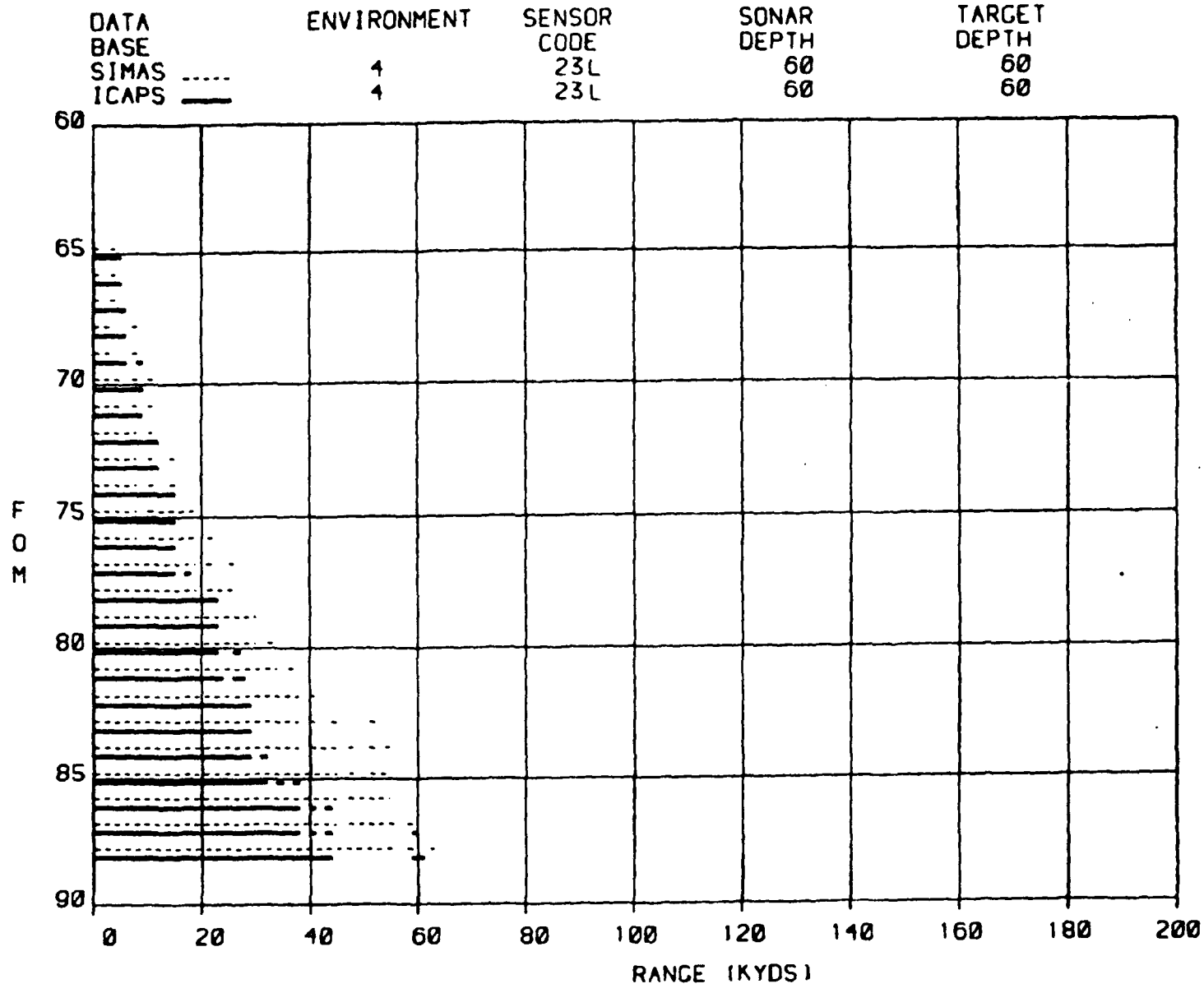

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 15 500 600
ICAPS ——— 4 15 500 600
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200
RANGE (KYDS)

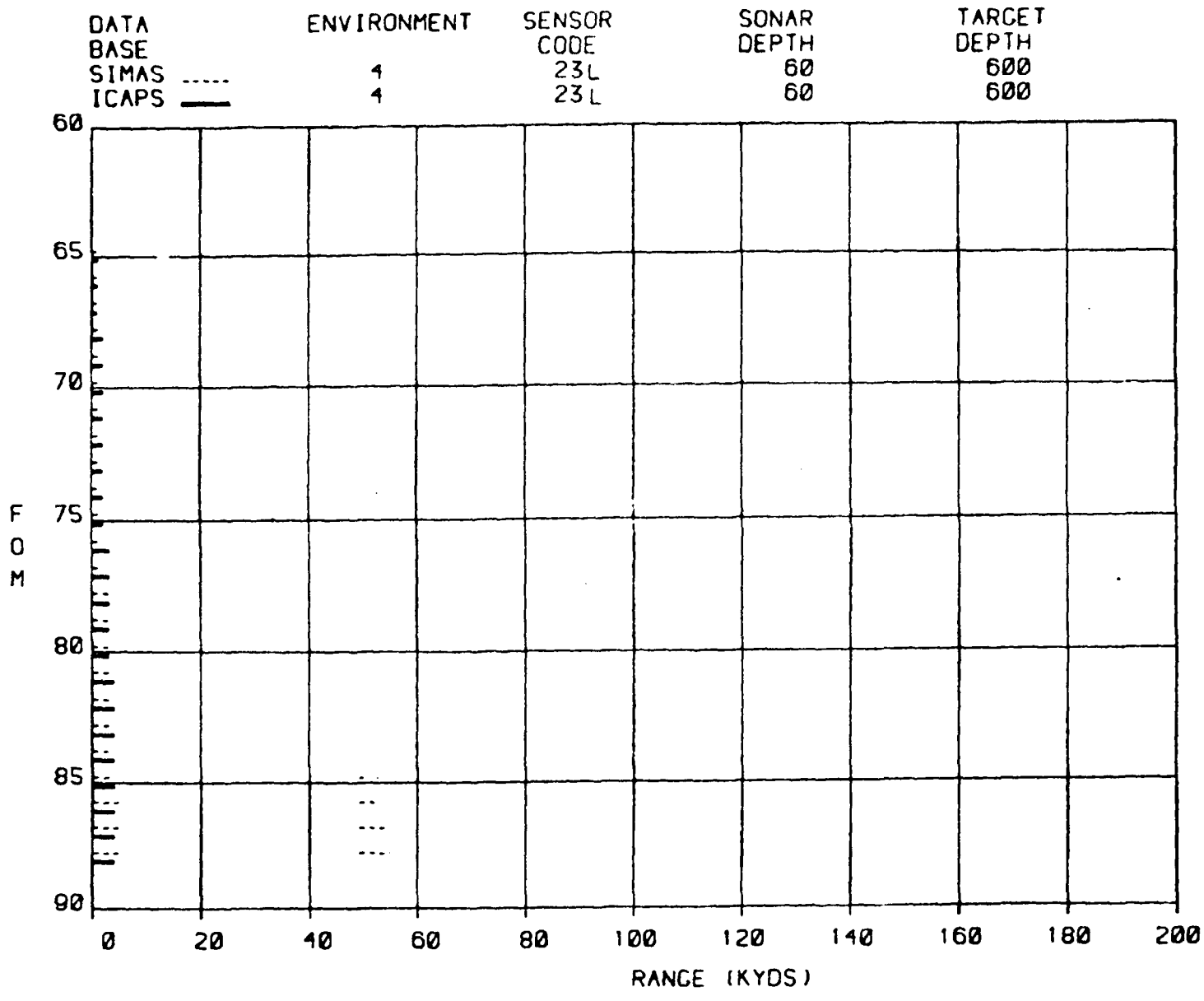

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 4 19 60 60
ICAPS ——— 4 19 60 60
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80
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F O M
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120
140
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180
200
RANGE (KYDS)

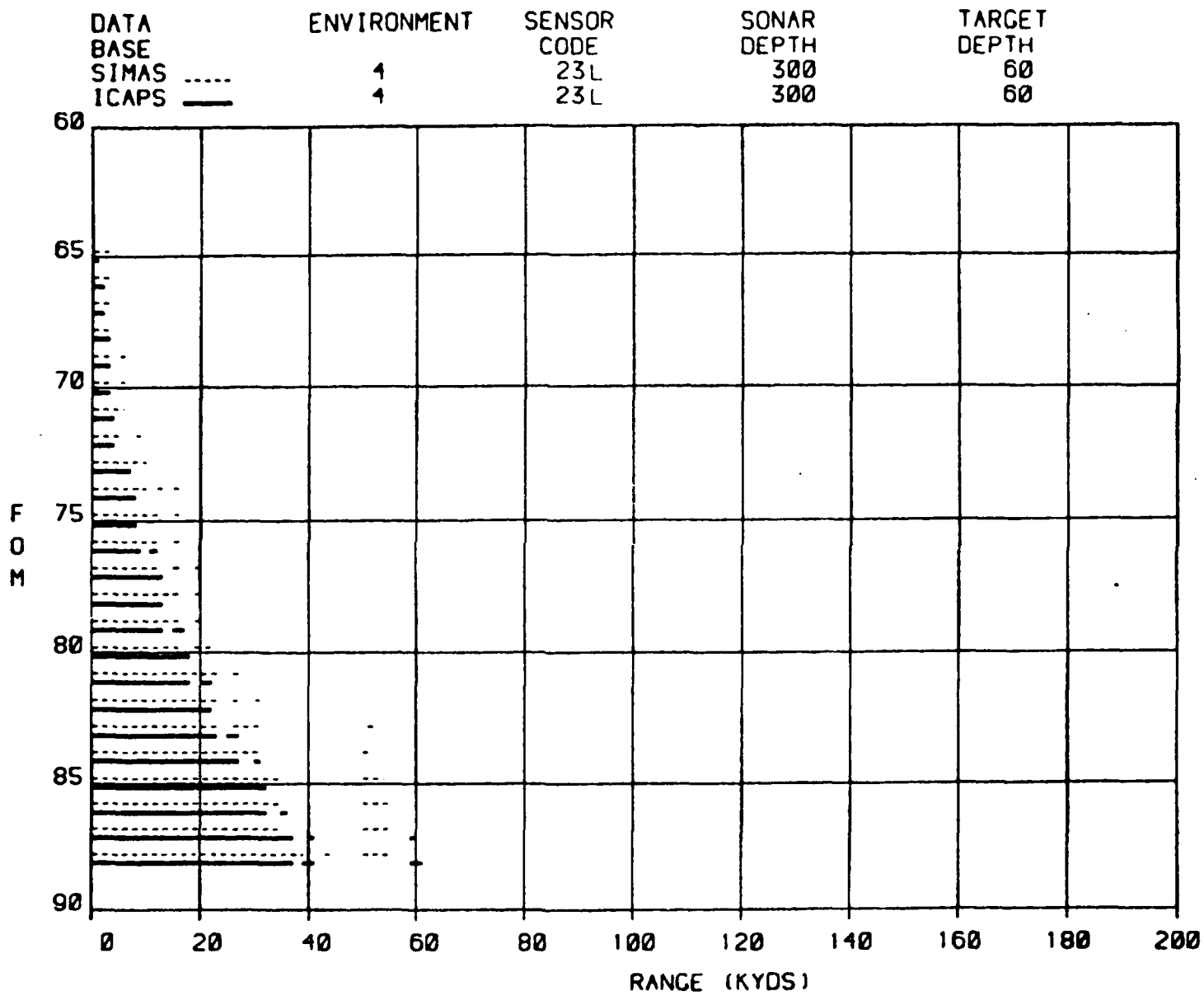

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 19 60 600
ICAPS ——— 4 19 60 600
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FOM
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60
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120
140
160
180
200
RANGE (KYDS)

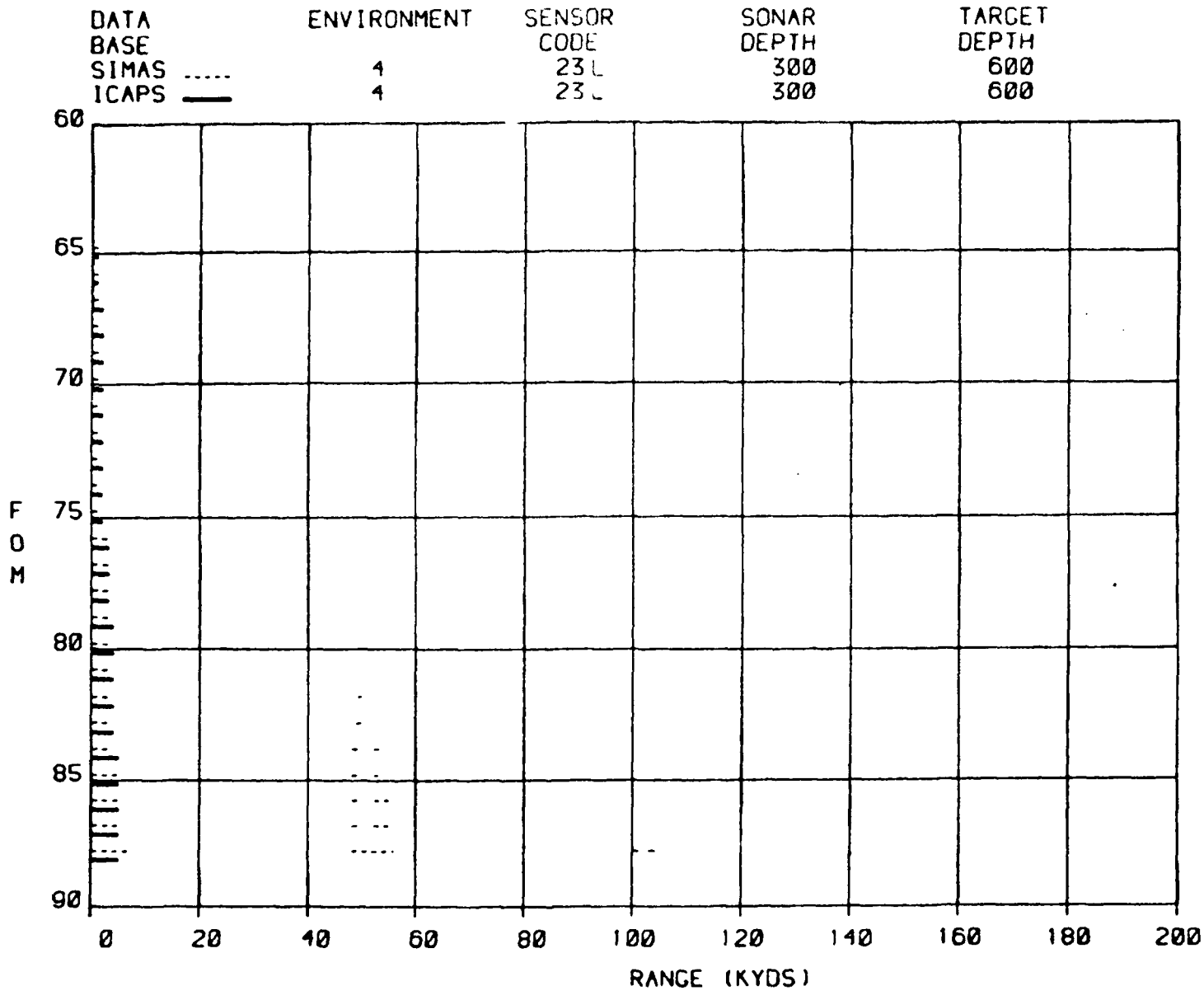

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 19 600 60
ICAPS ——— 4 19 600 60
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RANGE (KYDS)

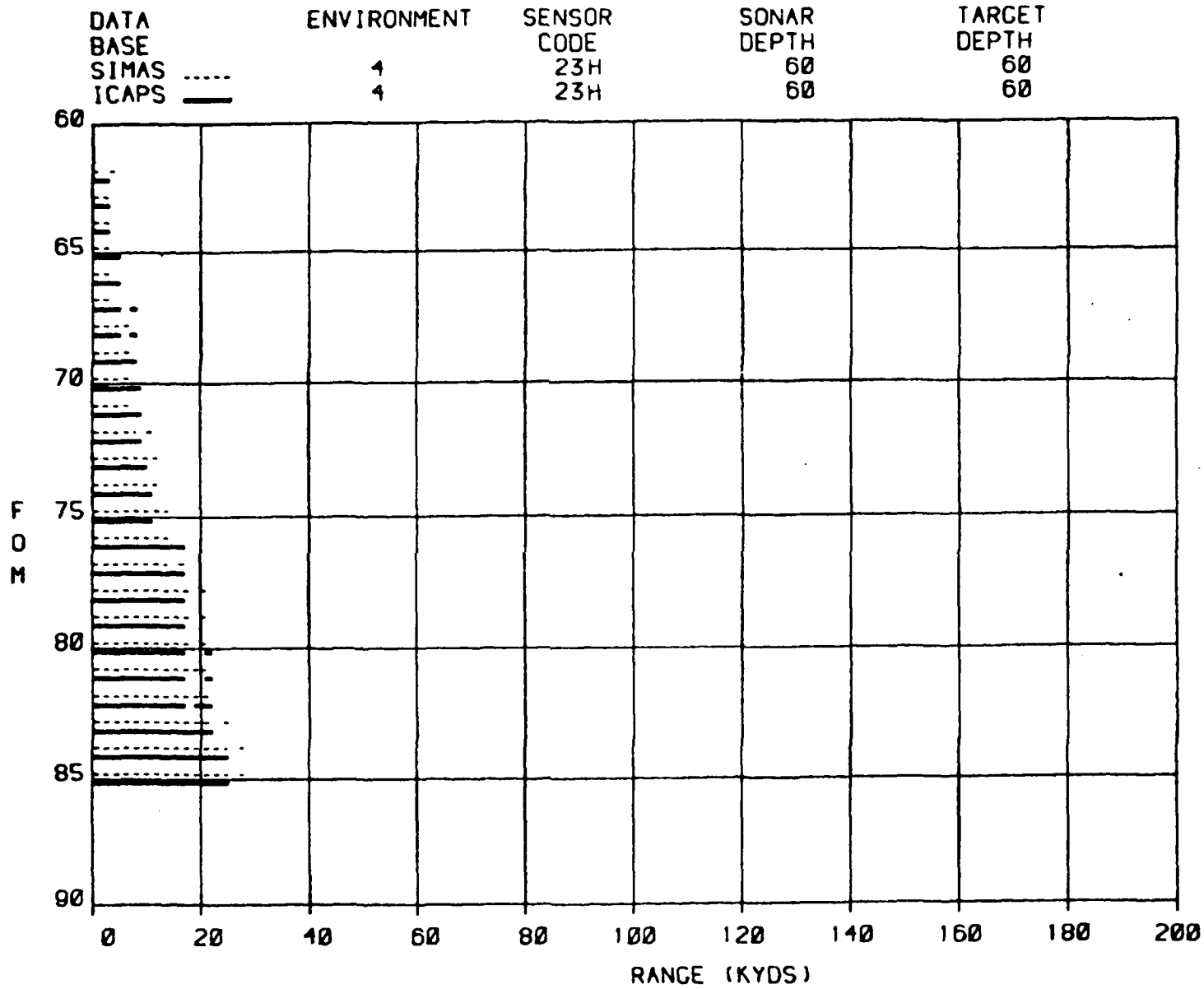

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 19 600 600
ICAPS ——— 4 19 600 600
75
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FOM
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RANGE (KYDS)

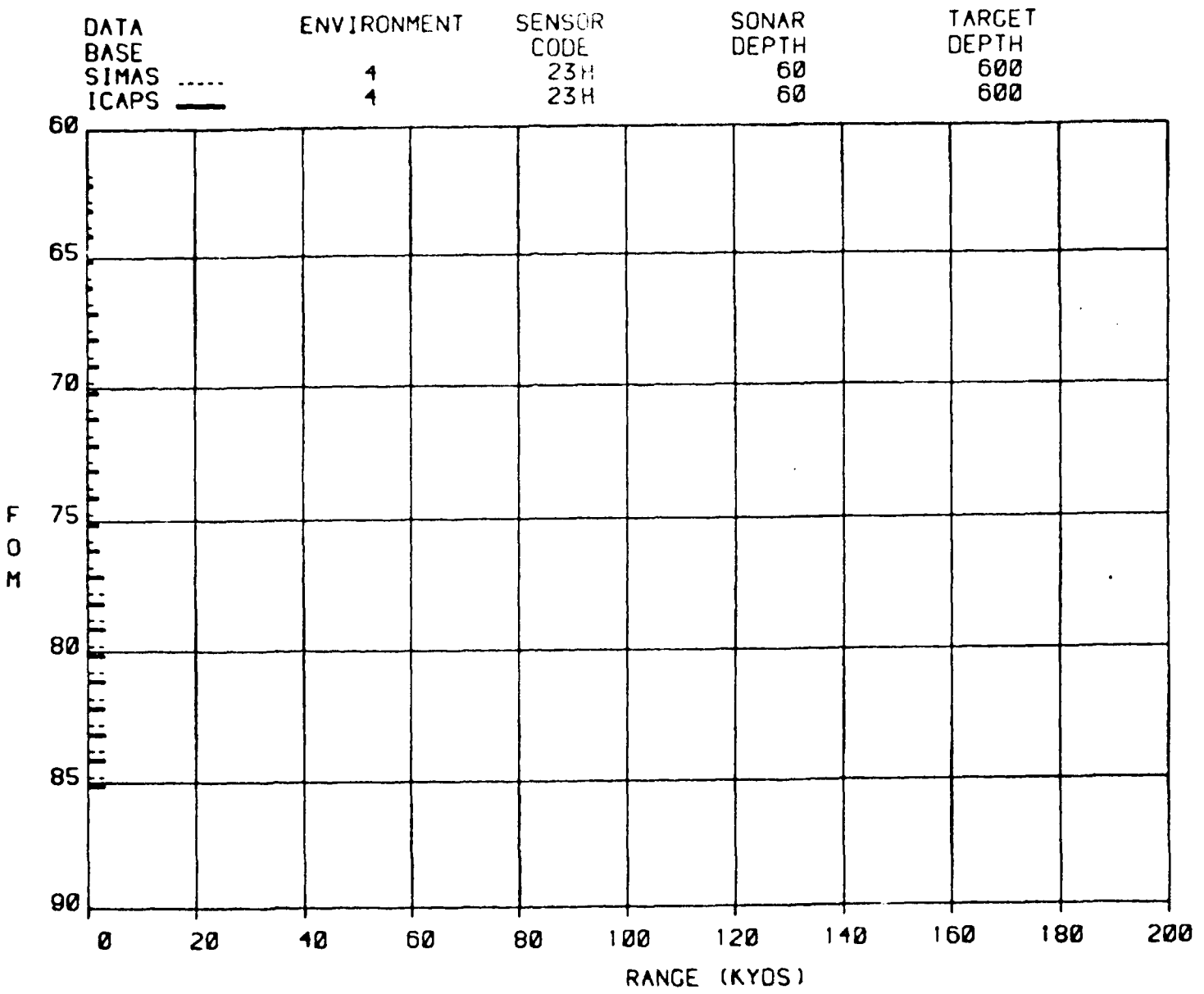

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 23L 60 60
ICAPS ——— 4 23L 60 60
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FOM
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RANGE (KYDS)

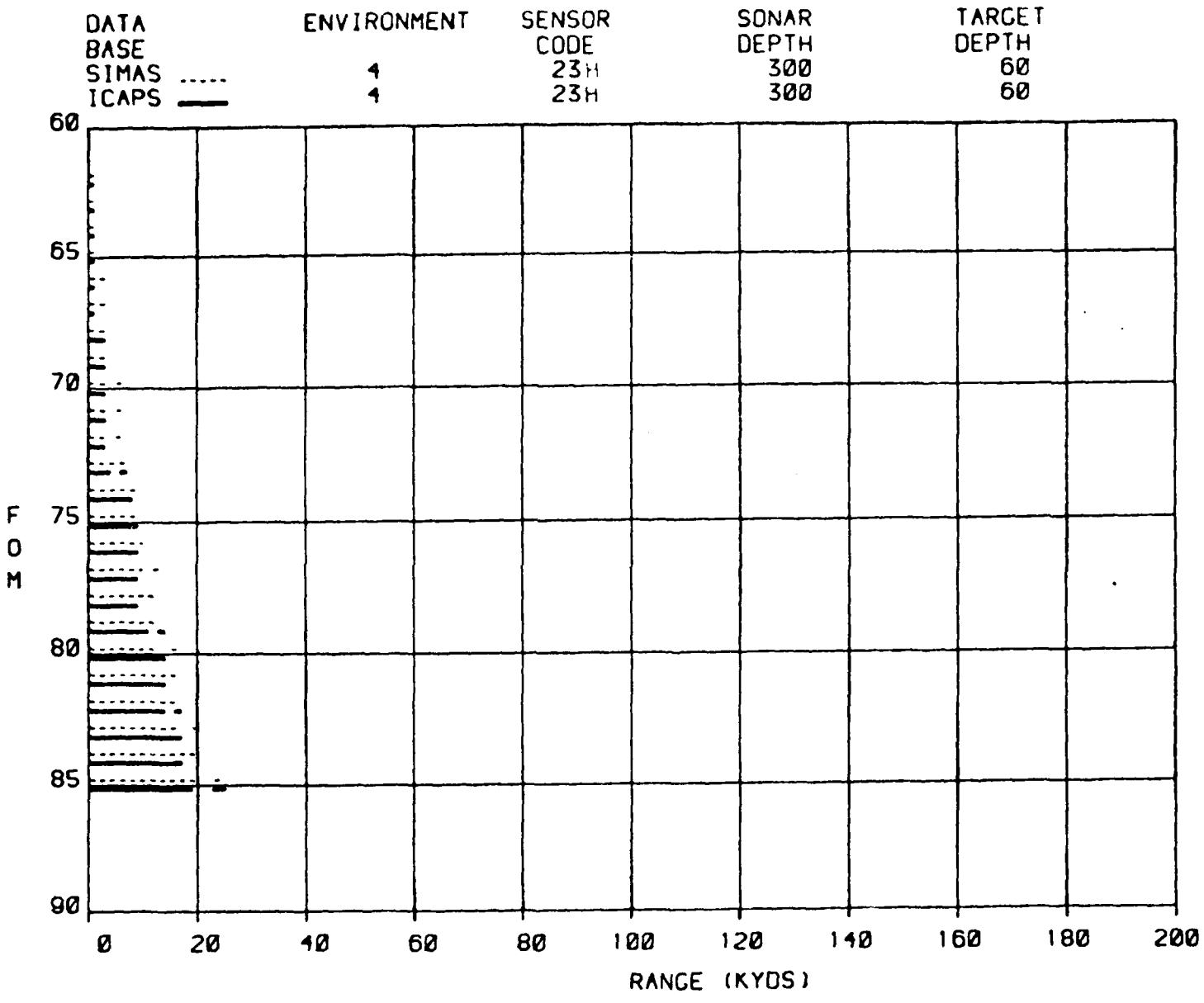

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 23L 60 600
ICAPS ——— 4 23L 60 600
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F O M
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RANGE (KYDS)

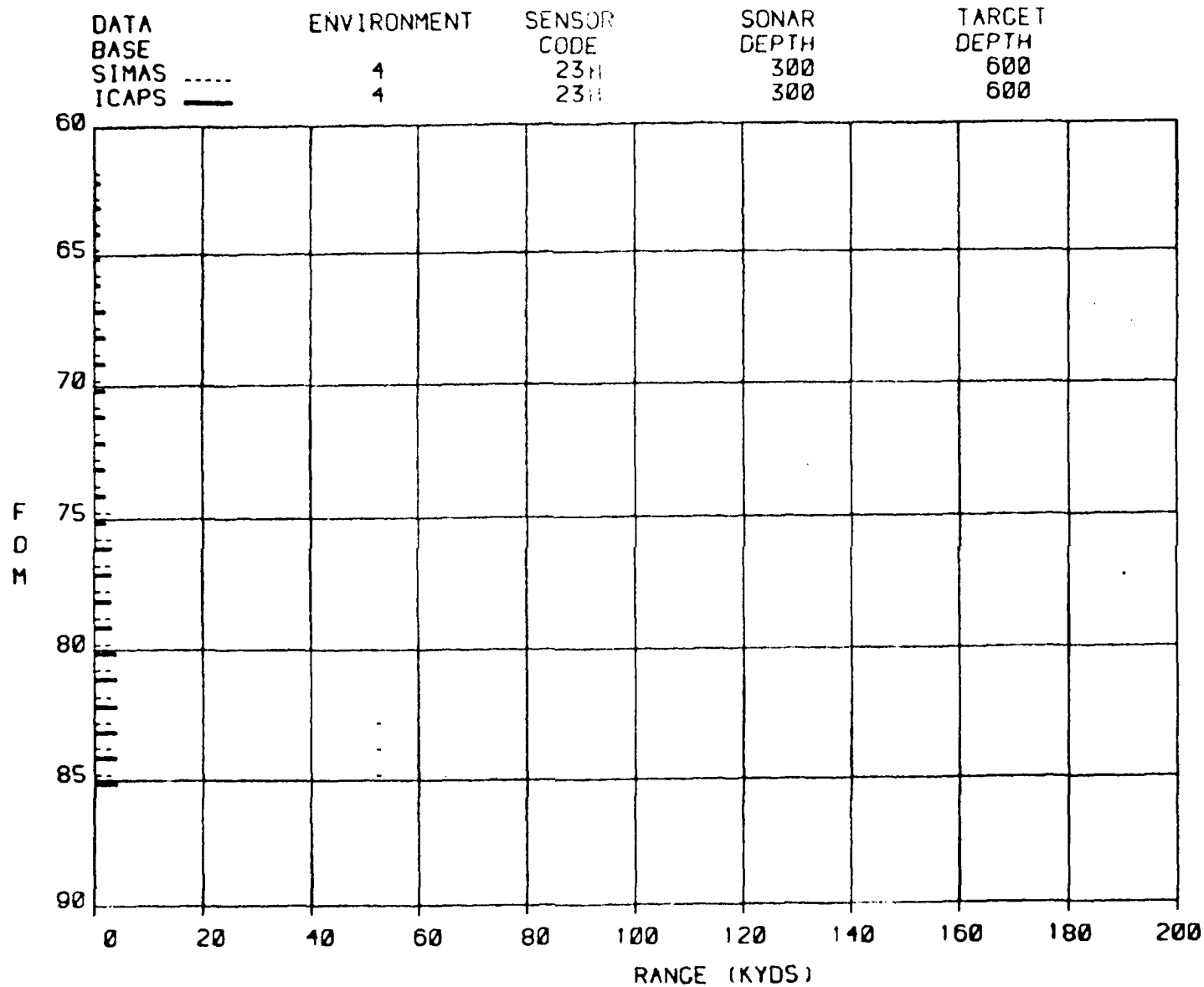

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 23L 300 60
ICAPS ——— 4 23L 300 60
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FOM
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RANGE (KYDS)

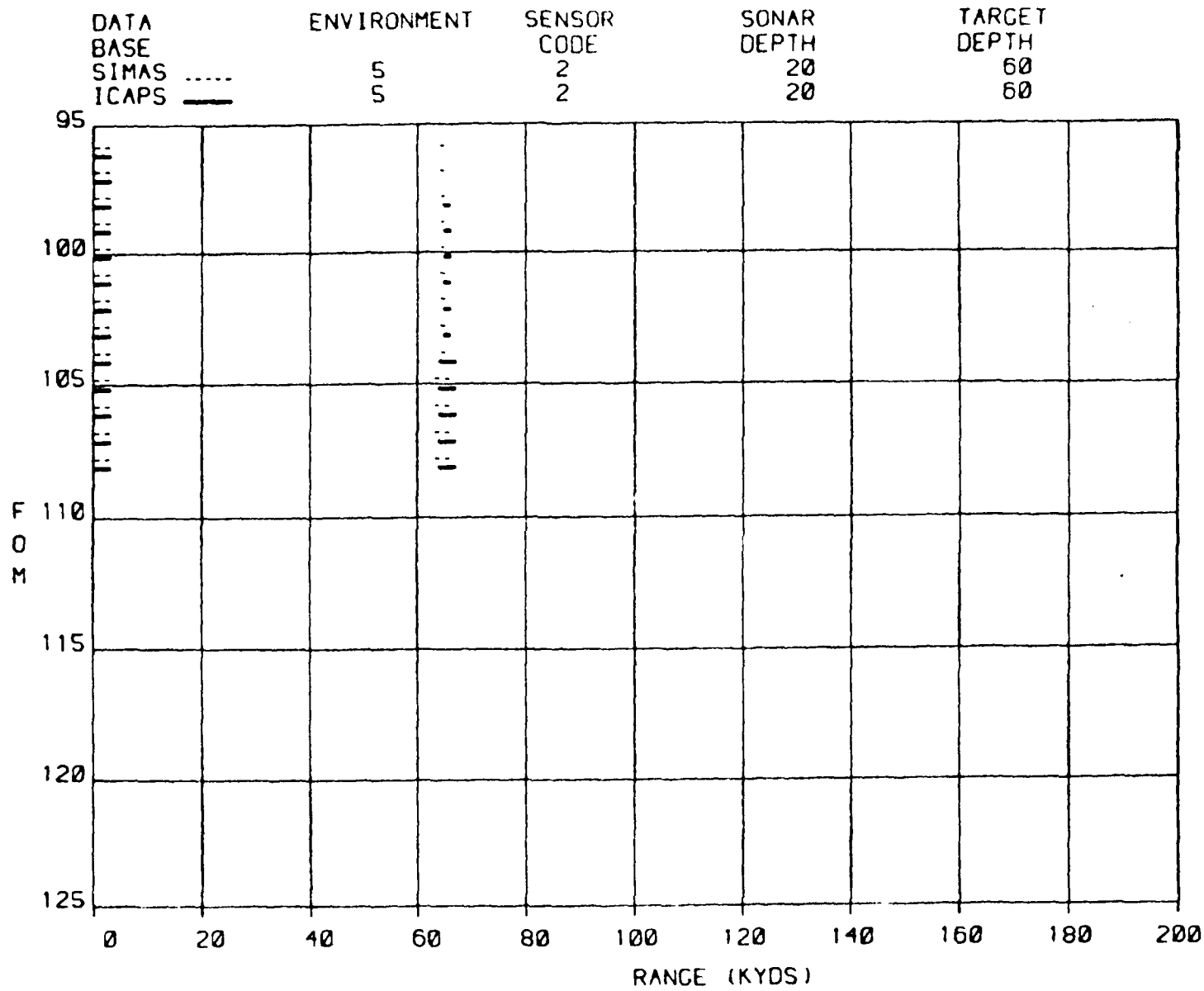

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 23L 300 600
ICAPS ——— 4 23L 300 600
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FOM
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RANGE (KYDS)

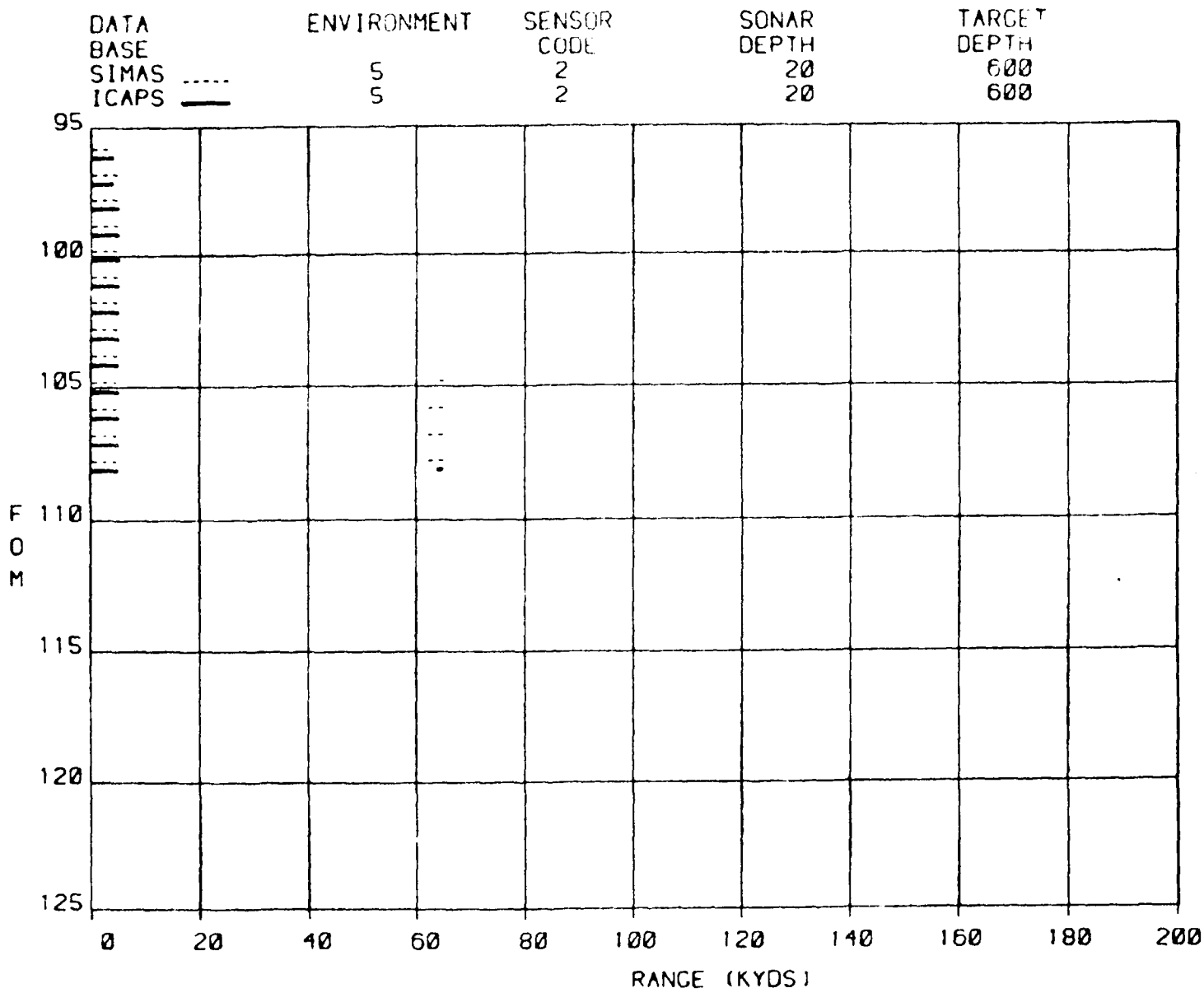

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 23H 60 60
ICAPS ——— 4 23H 60 60
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85
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F O M
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60
80
100
120
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180
200
RANGE (KYDS)


DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 23H 60 600
ICAPS ——— 4 23H 60 600
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65
70
75
80
85
90
FOM
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60
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100
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140
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180
200
RANGE (KYDS)


DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 23H 300 60
ICAPS ——— 4 23H 300 60
60
65
70
75
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85
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FOM
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80
100
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140
160
180
200
RANGE (KYDS)


DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 4 23H 300 600
ICAPS ——— 4 23H 300 600
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RANGE (KYDS)

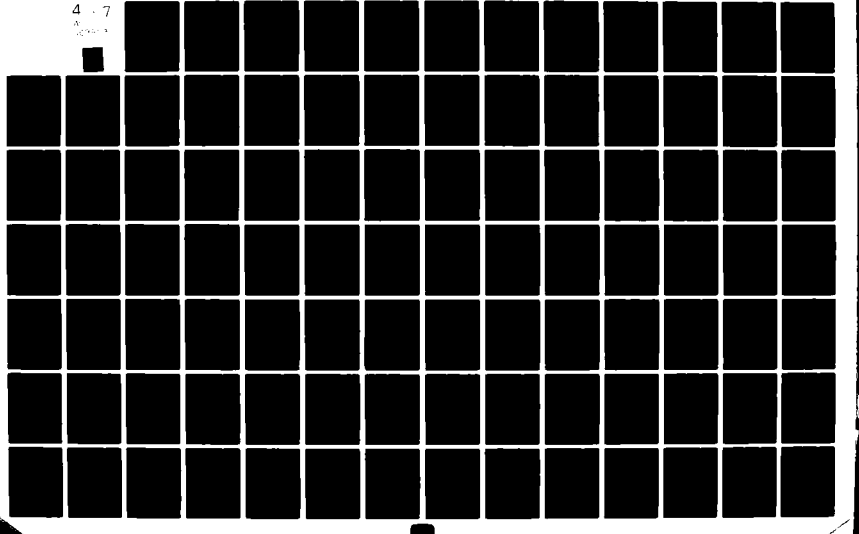

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 2 20 60
ICAPS —— 5 2 20 60
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F O M
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200
RANGE (KYDS)

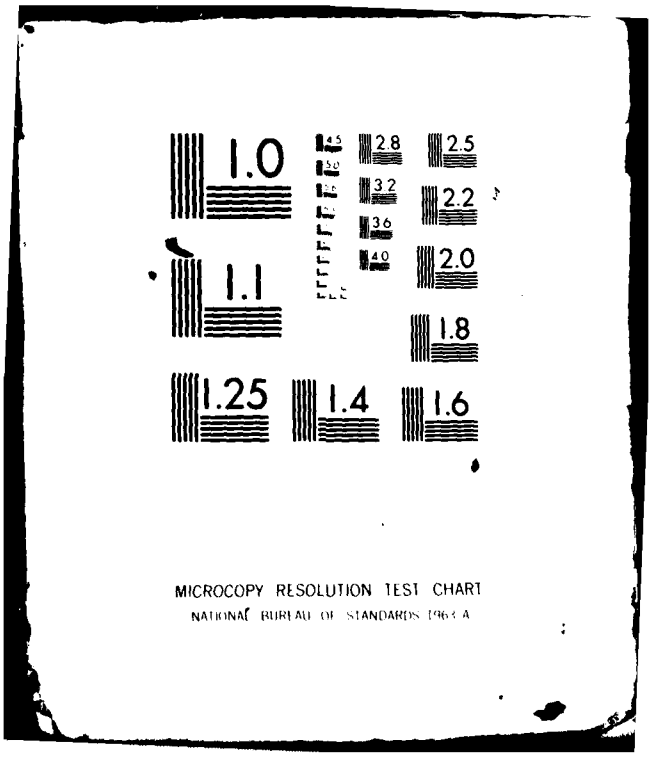

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 2 20 600
ICAPS ——— 5 2 20 600
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FOM
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200
RANGE (KYDS)

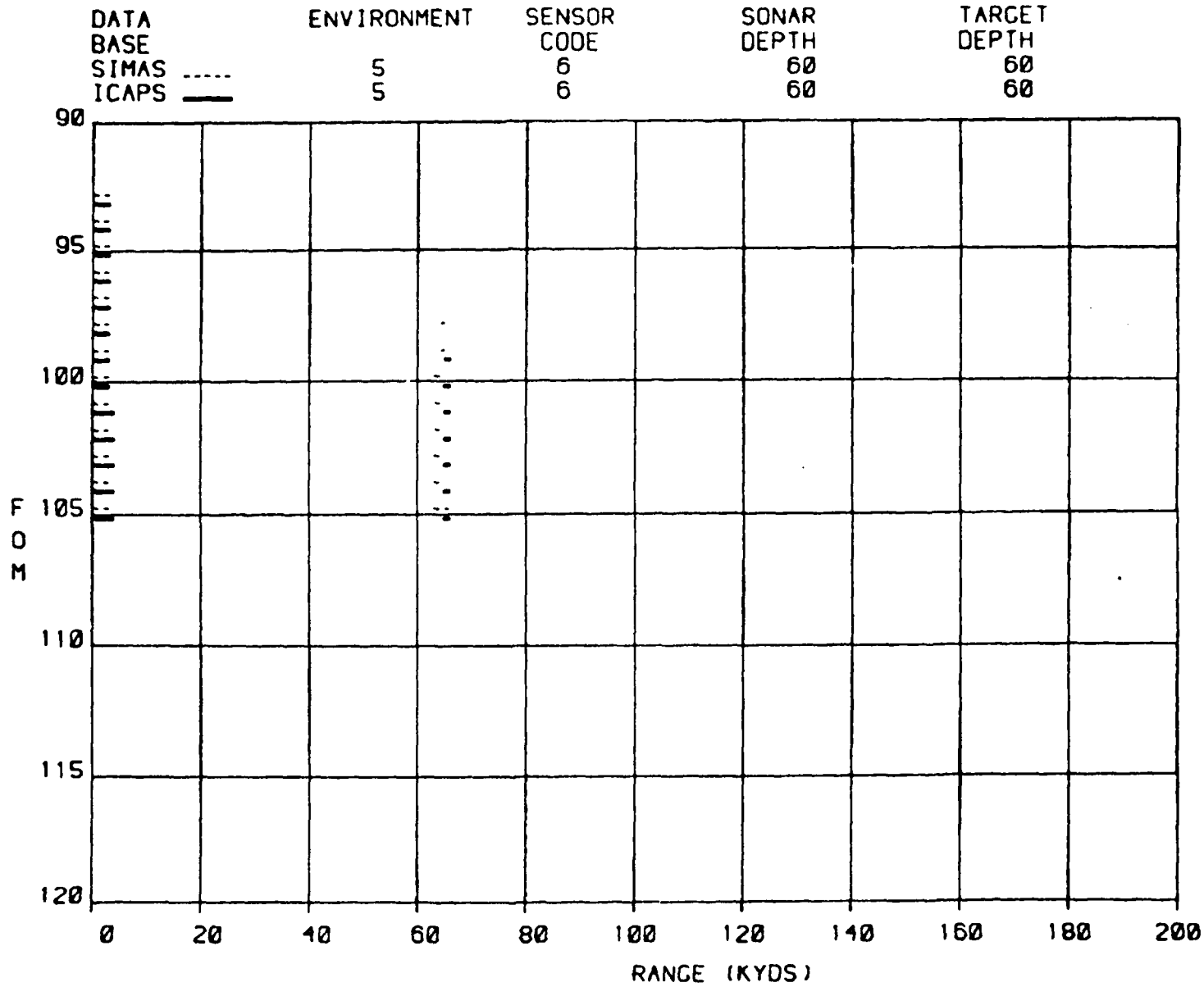
AD-A098 932 NAVAL OCEAN RESEARCH AND DEVELOPMENT ACTIVITY NSTL S--ETC F/G 20/1
ACOUSTIC MODEL SENSITIVITY TO INPUT DATA DIFFERENCES: OBJECTIVE--ETC(U)
SEP 80 B A BRUNSON

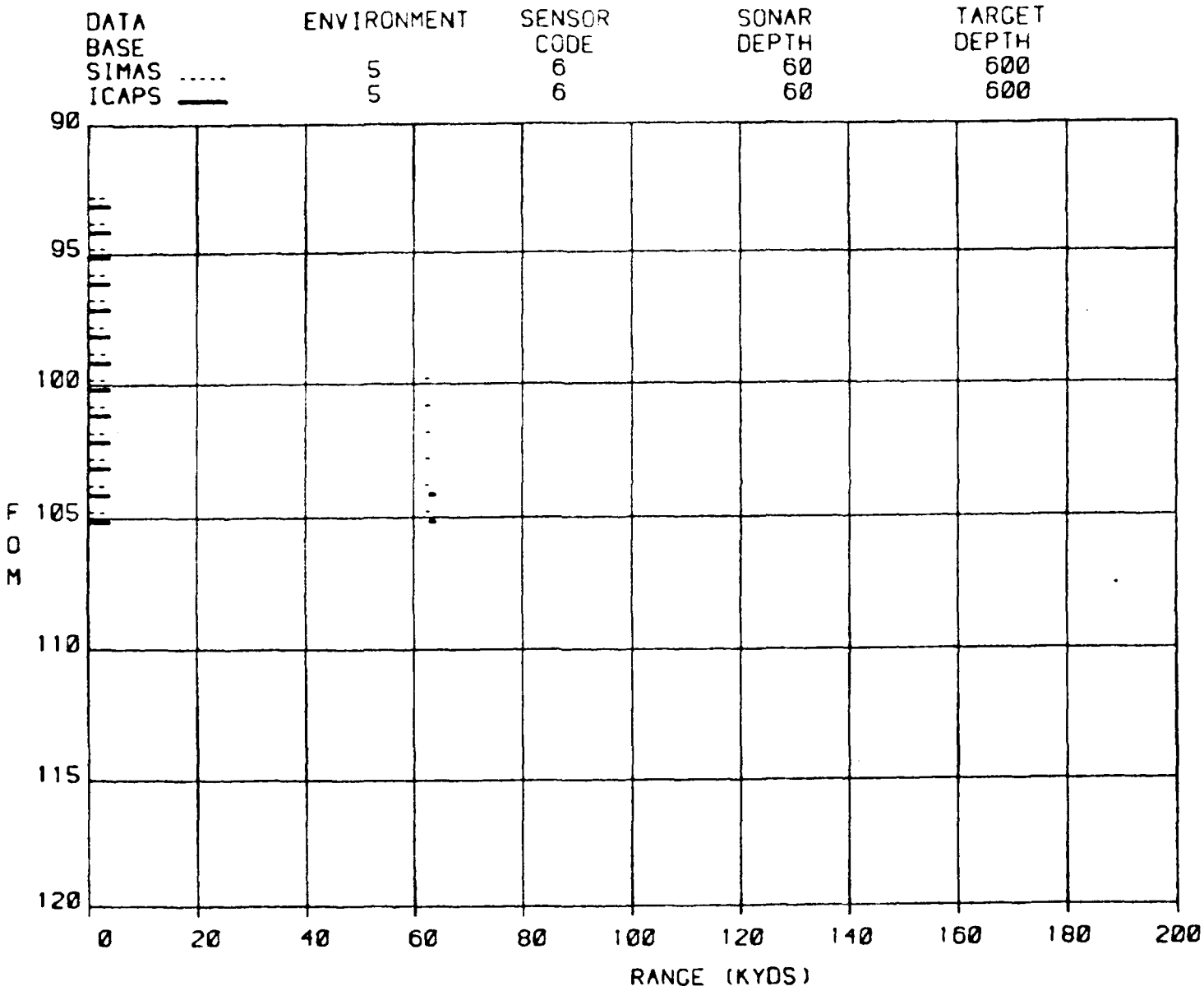
UNCLASSIFIED NORDA-TN-73-VOL-2 NL

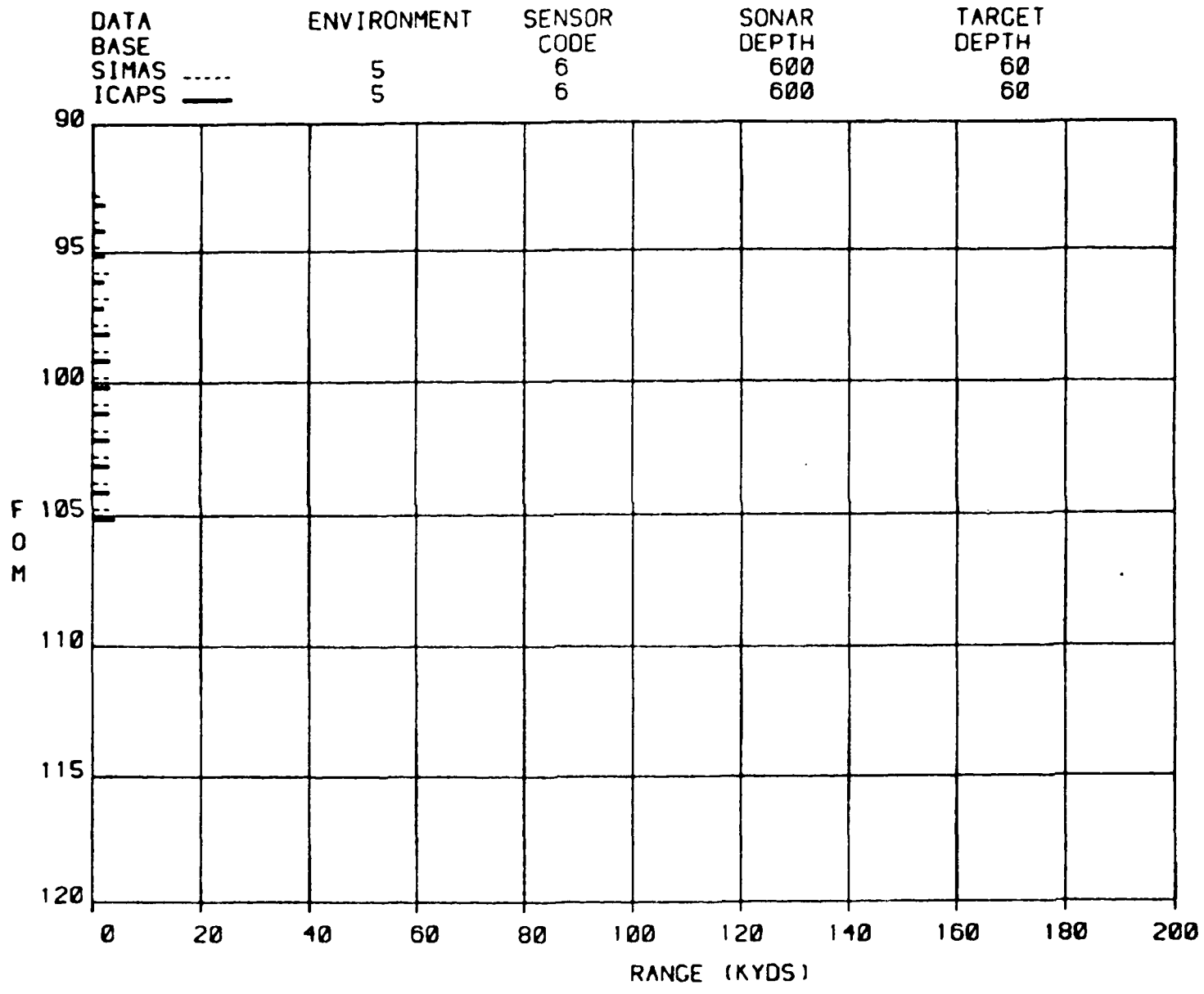
4 - 7

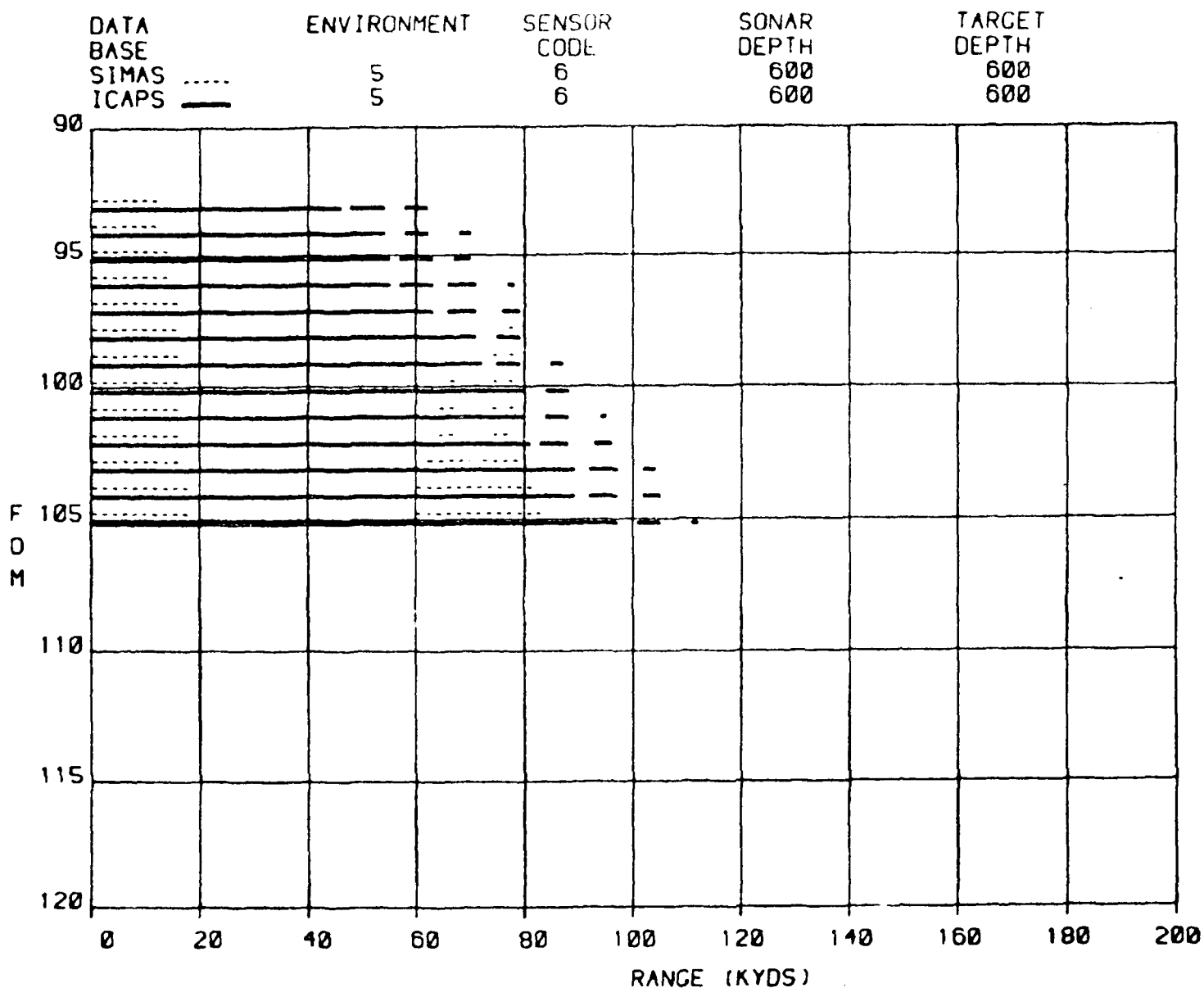


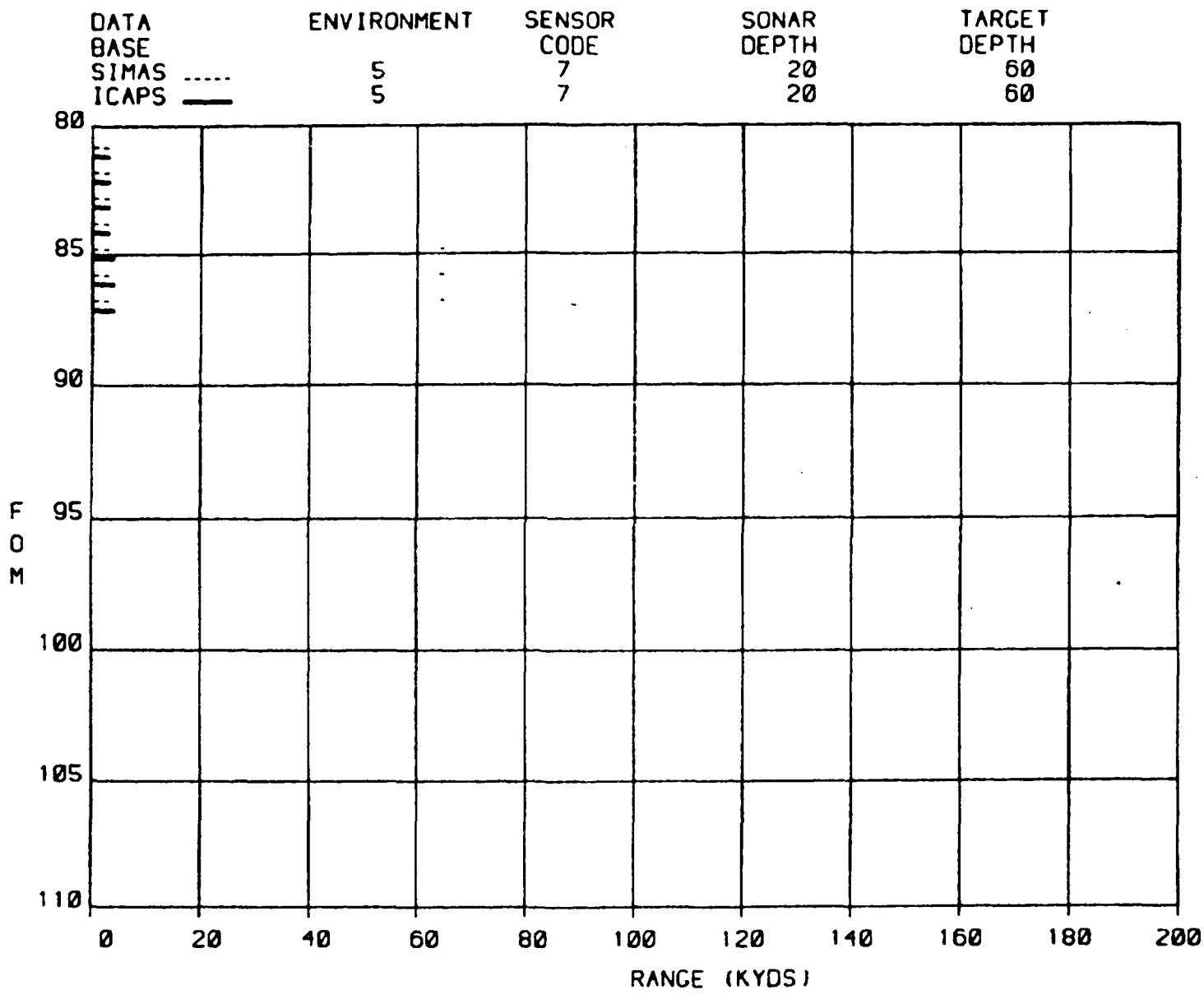

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1.8
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3.6
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963 A

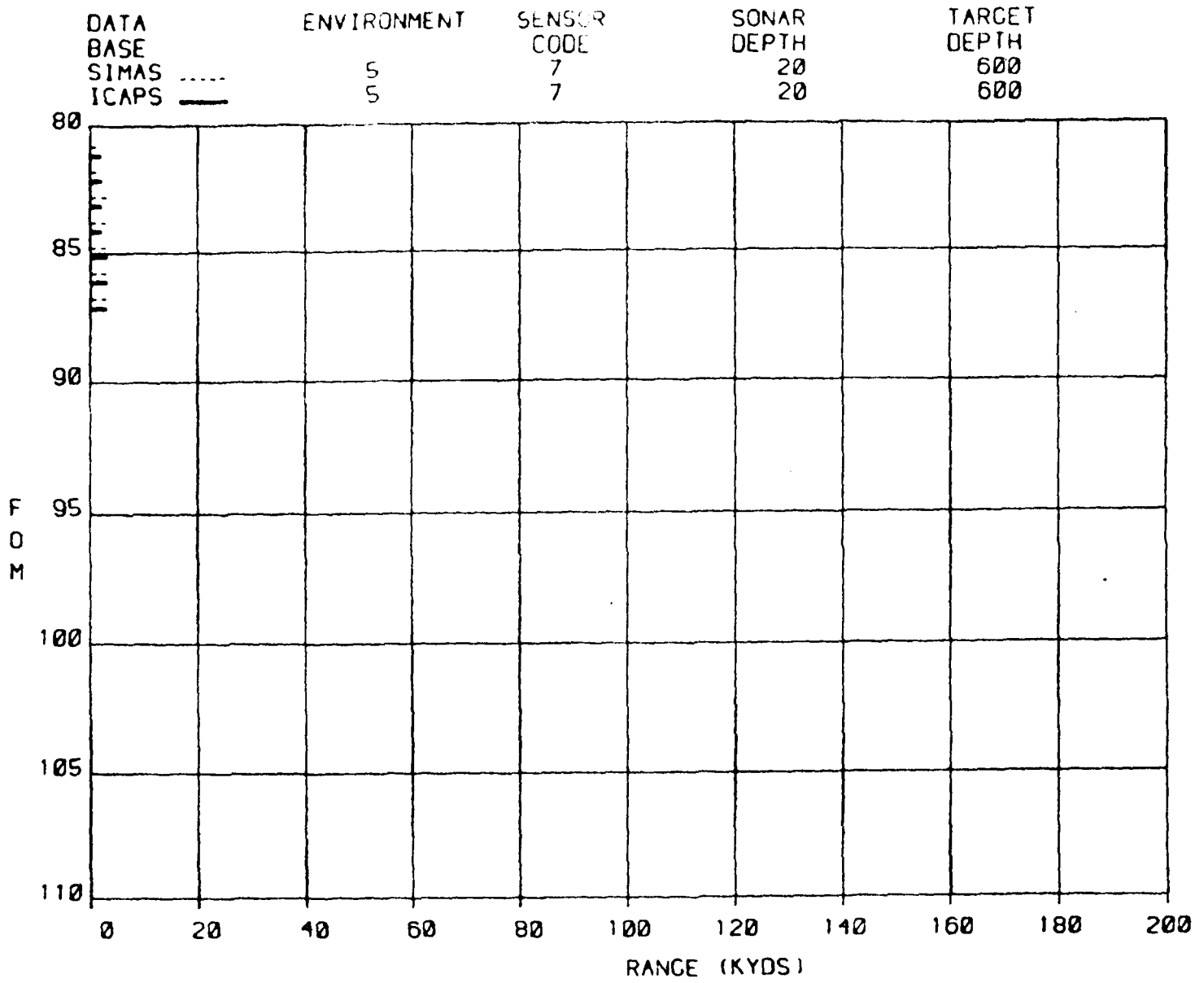

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 6 60 60
ICAPS ——— 5 6 60 60
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F O M
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RANGE (KYDS)

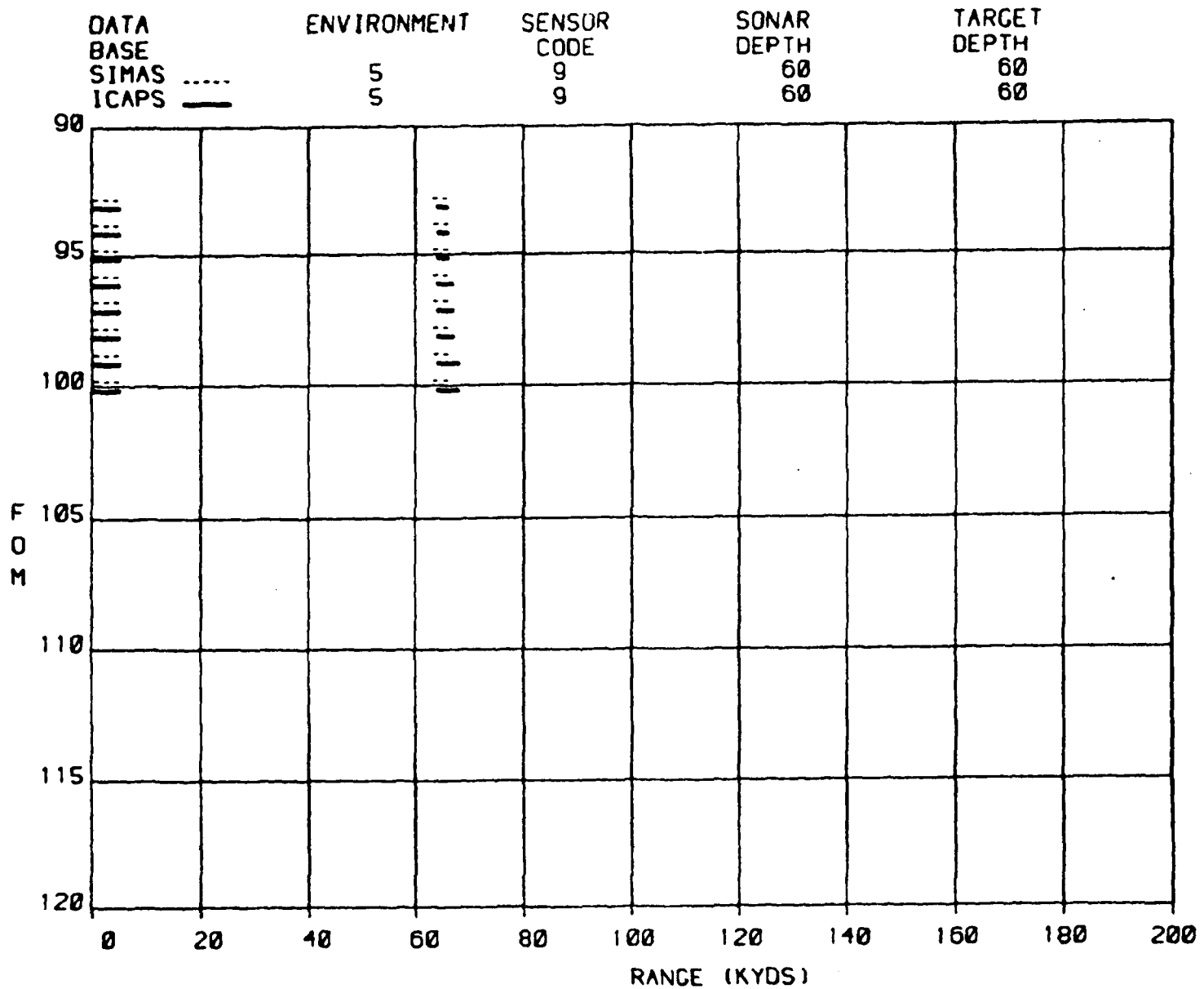

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 5 6 60 600
ICAPS ——— 5 6 60 600
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RANGE (KYDS)

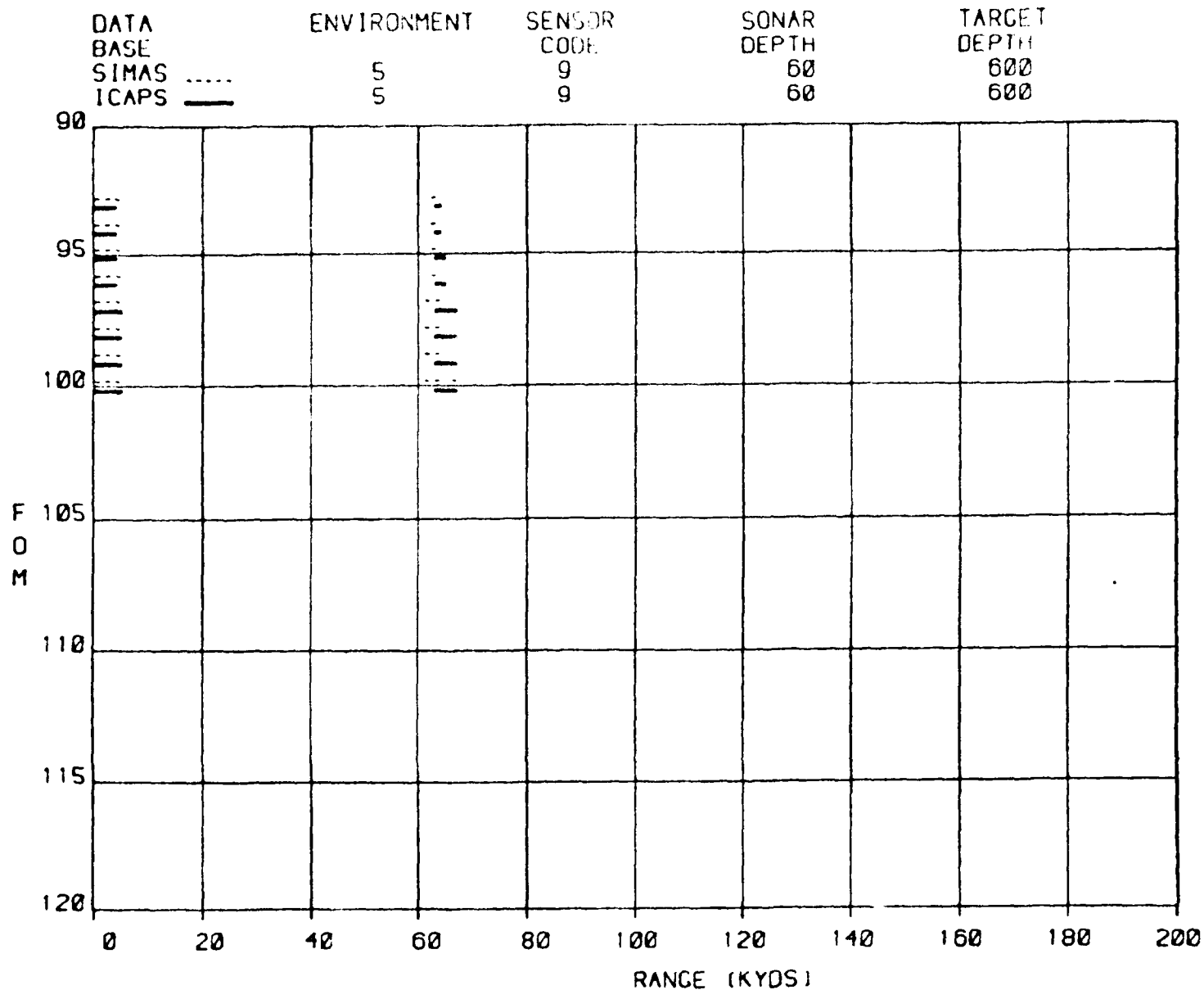

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 6 600 60
ICAPS —— 5 6 600 60
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RANGE (KYDS)

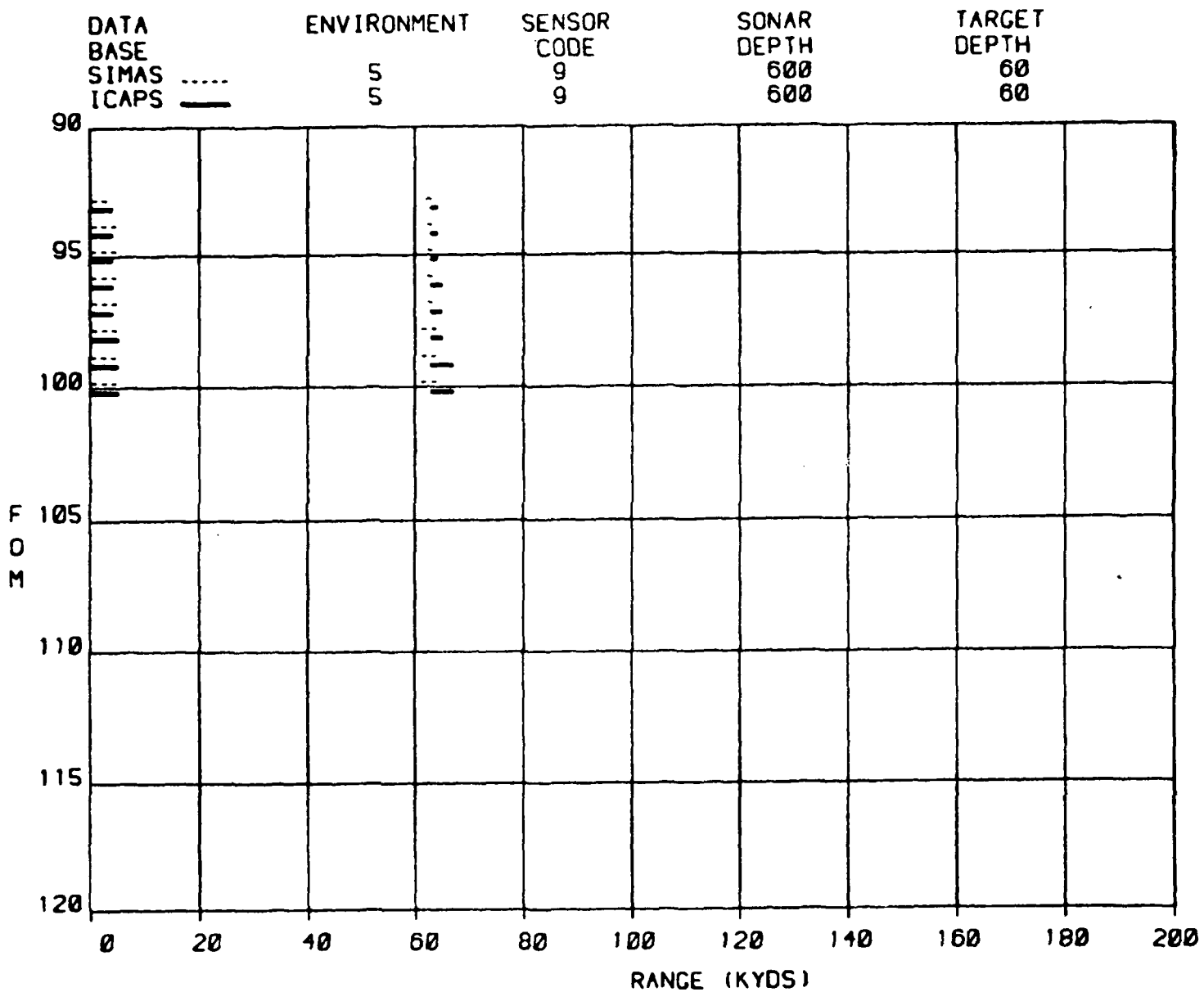

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 5 6 600 600
ICAPS ——— 5 6 600 600
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F O M
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RANGE (KYDS)

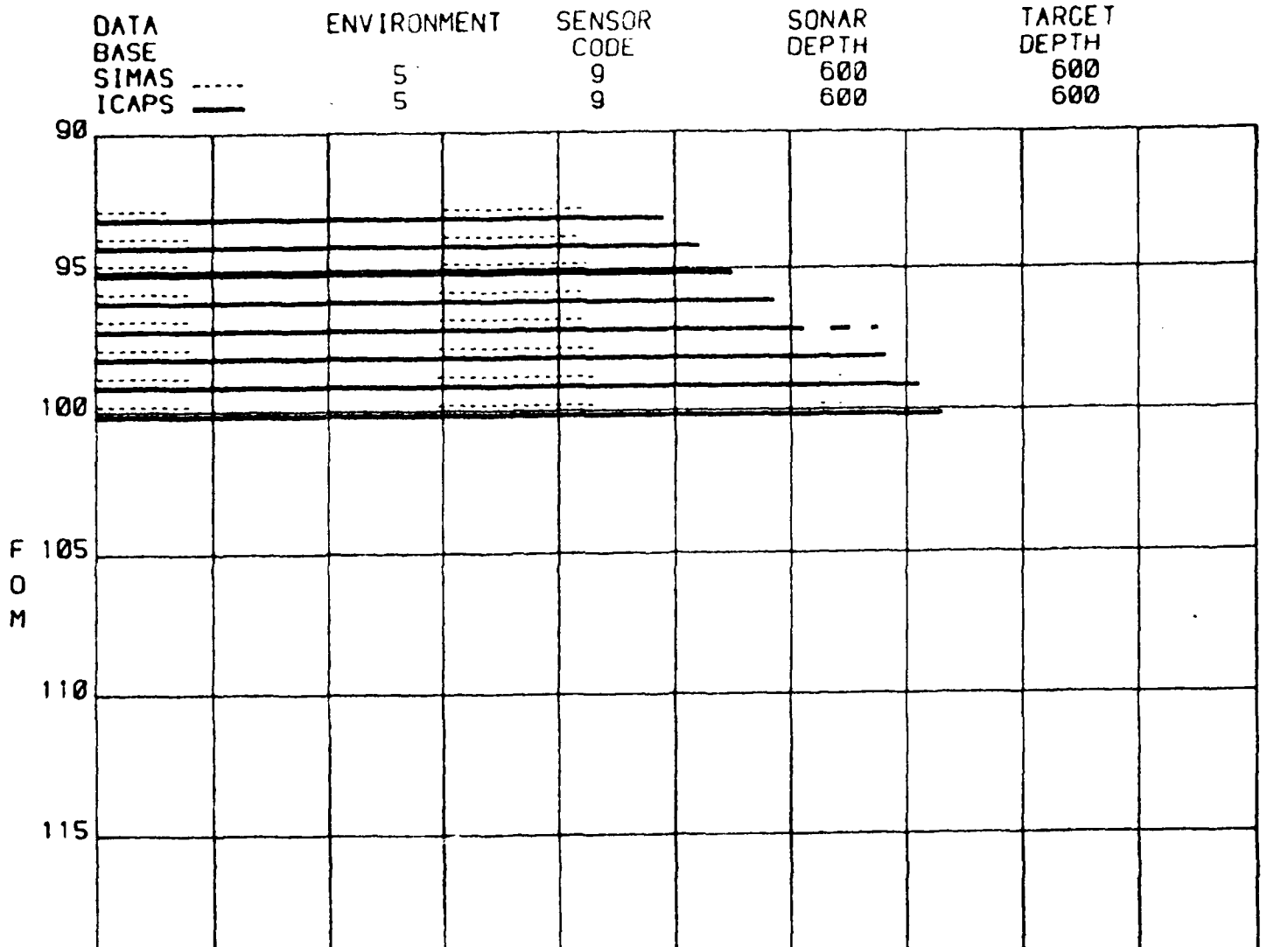

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 7 20 60
ICAPS —— 5 7 20 60
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RANGE (KYDS)

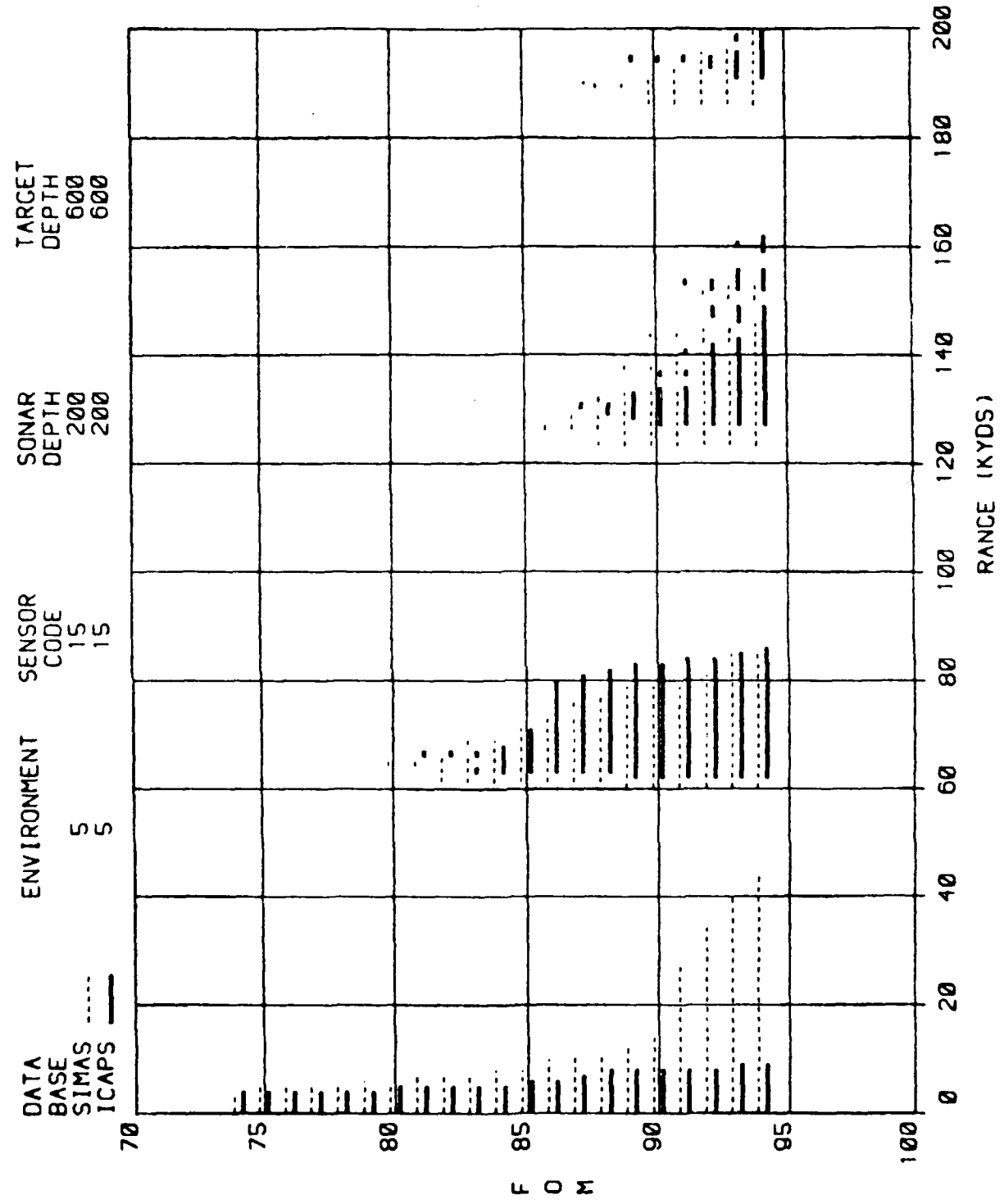

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 7 20 600
ICAPS —— 5 7 20 600
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RANGE (KYDS)

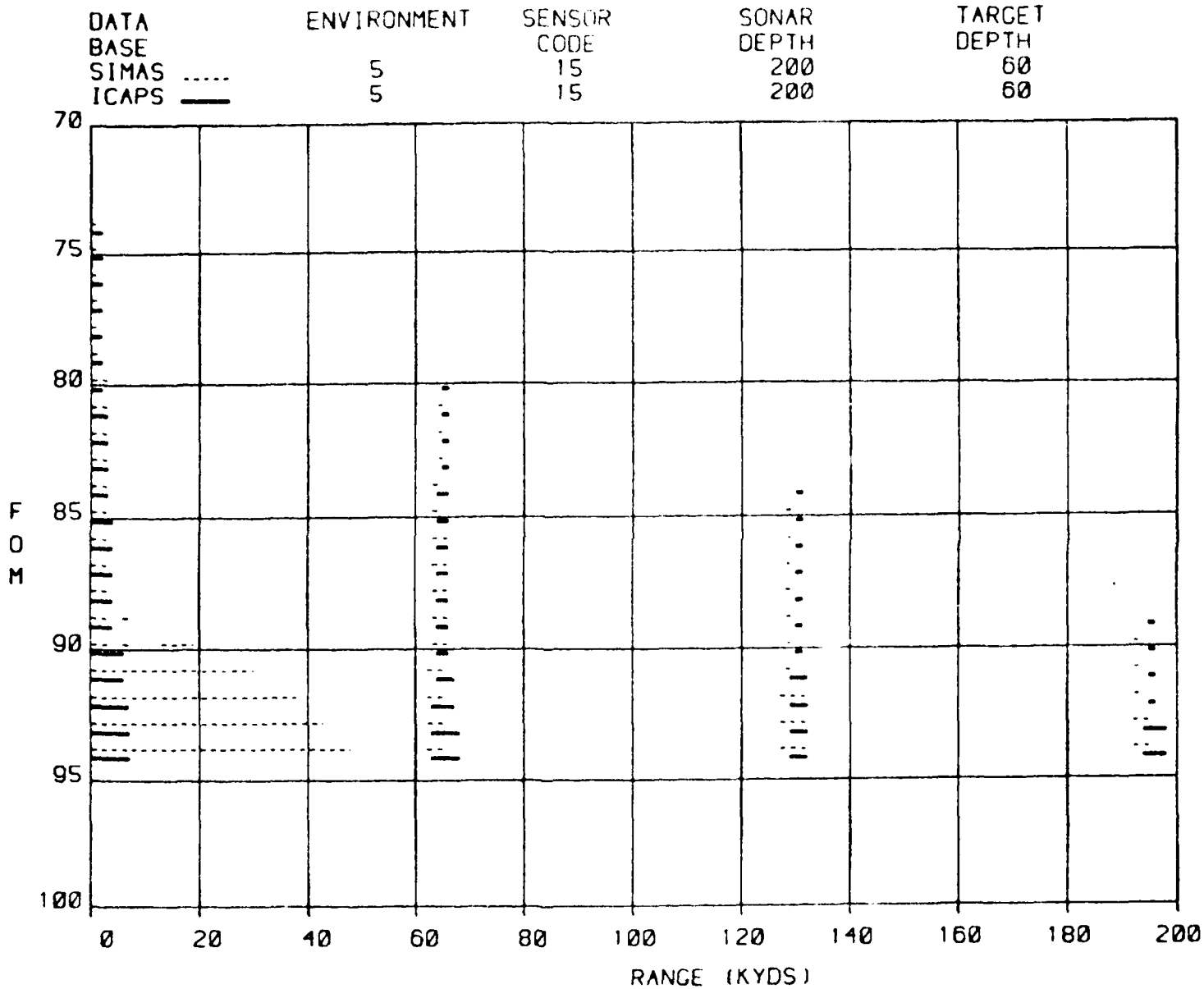

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 9 60 60
ICAPS ——— 5 9 60 60
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RANGE (KYDS)

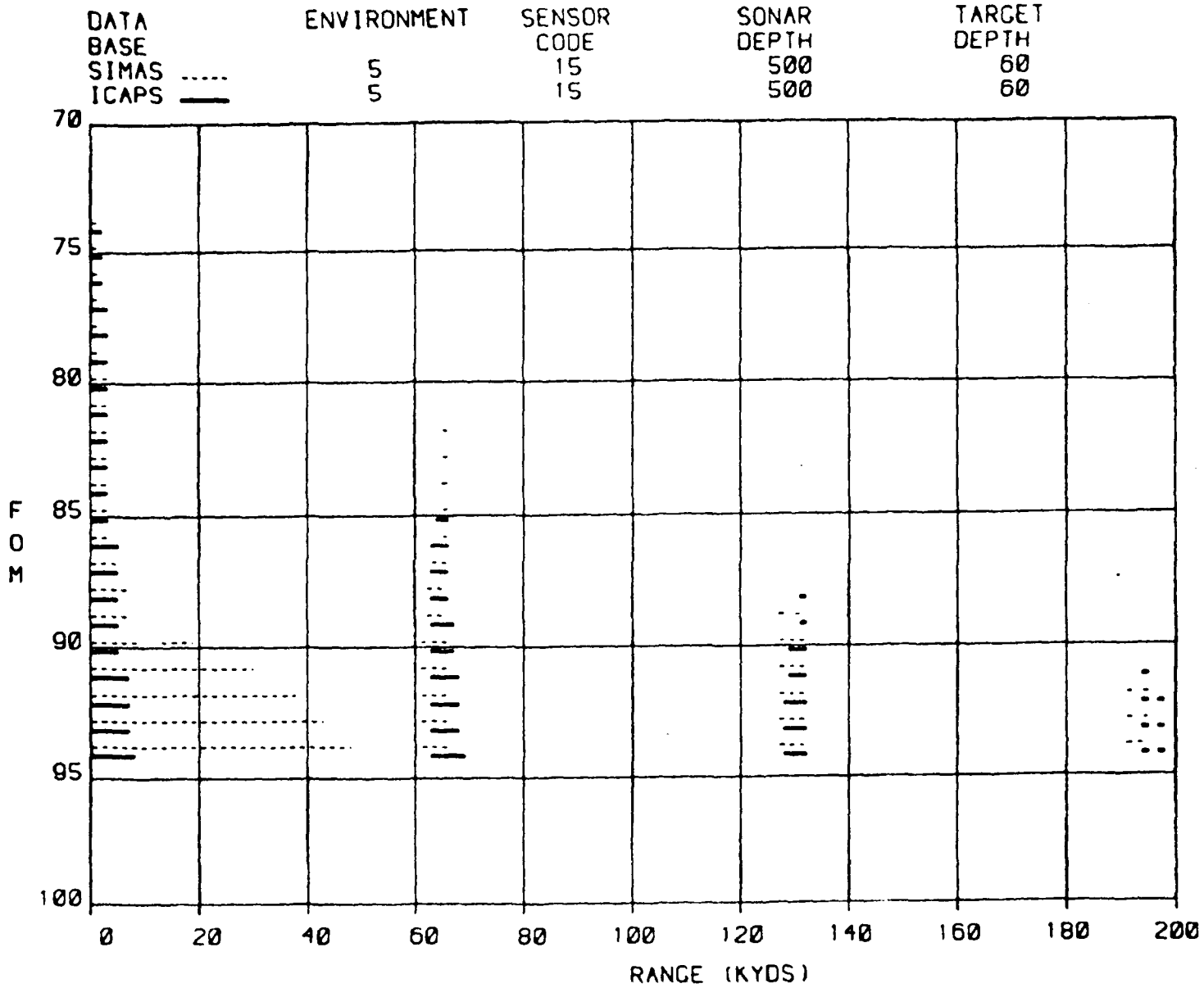

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 5 9 60 600
ICAPS ——— 5 9 60 600
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RANGE (KYDS)

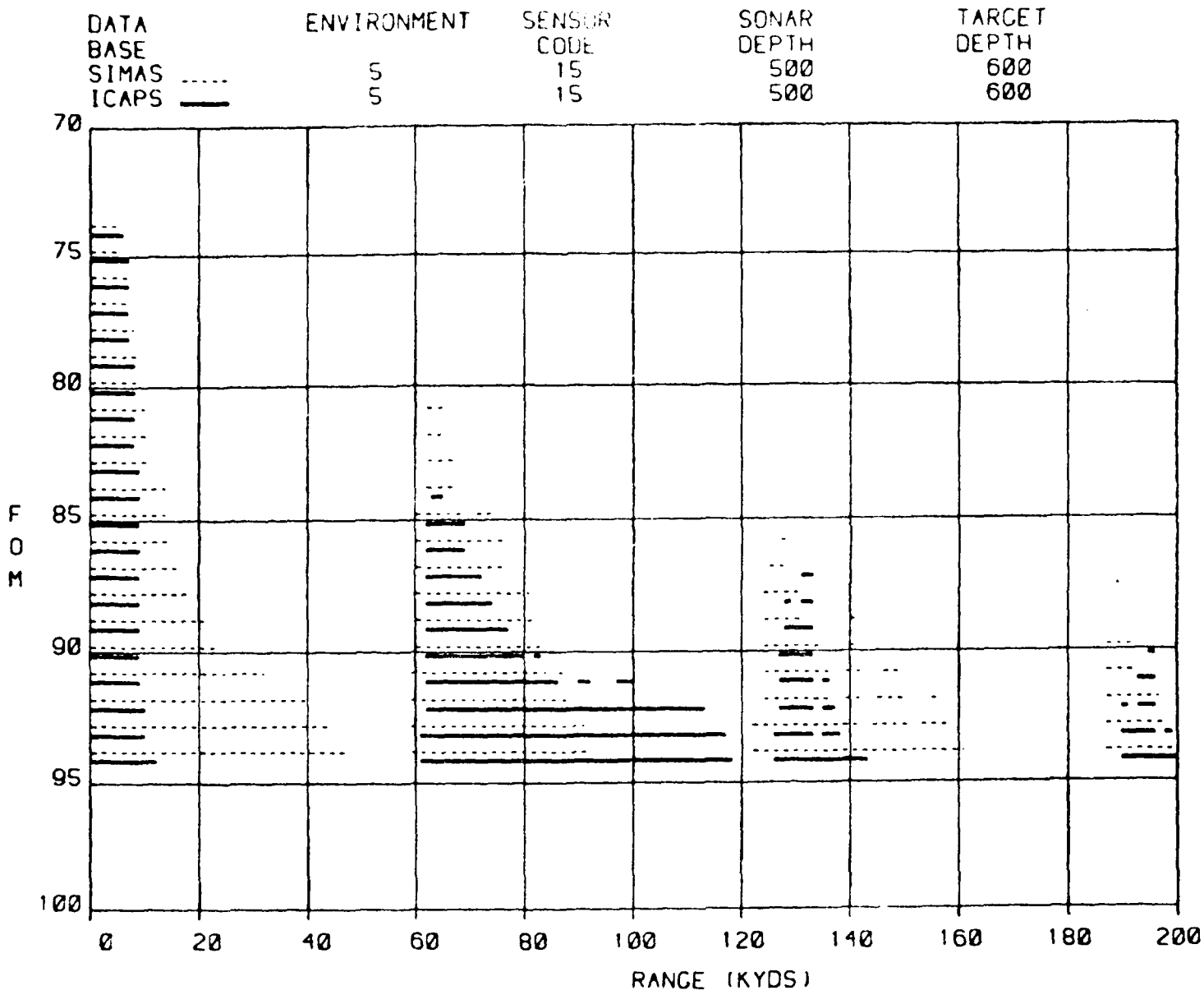

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 9 600 60
ICAPS ——— 5 9 600 60
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RANGE (KYDS)

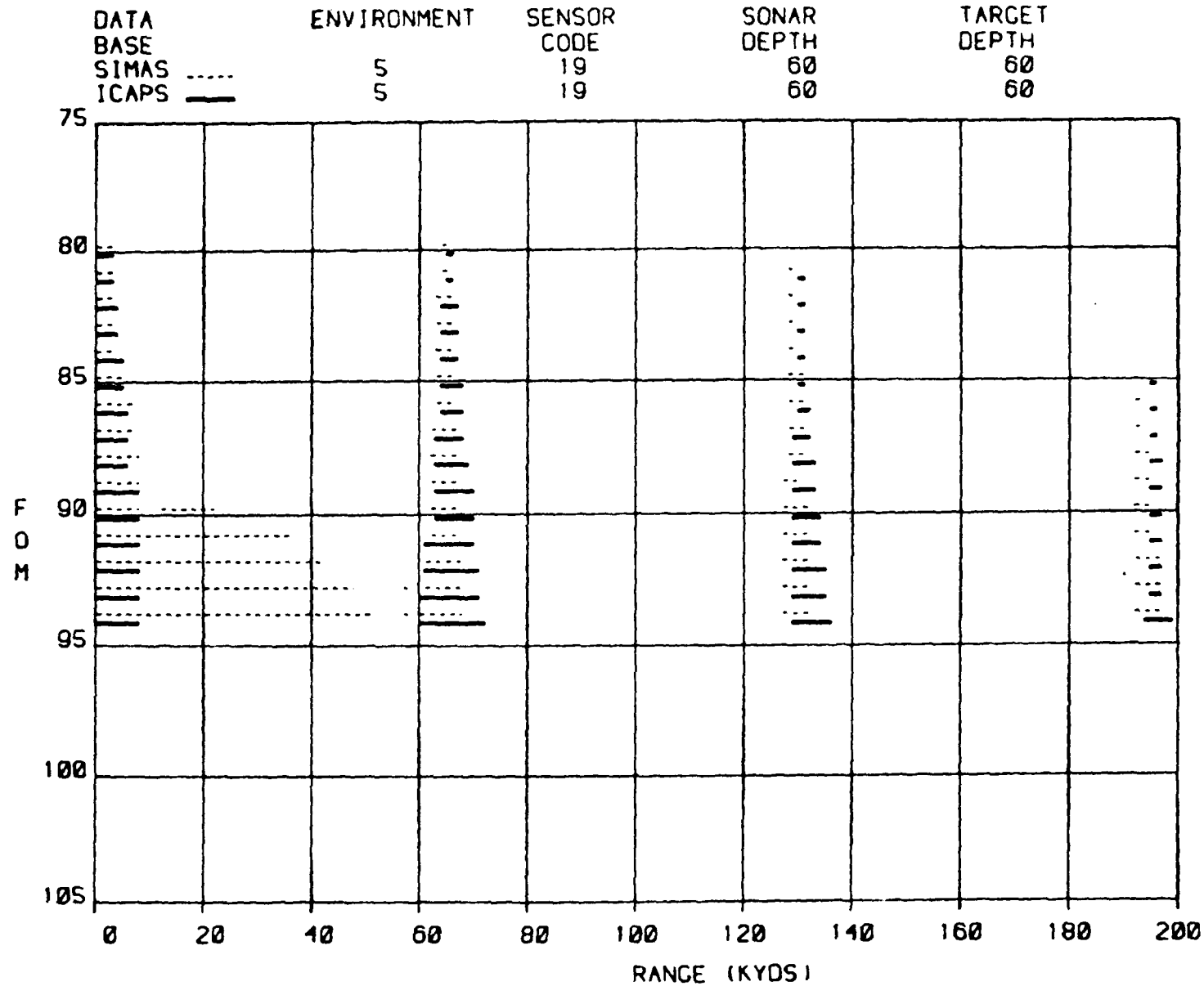

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 9 600 600
ICAPS —— 5 9 600 600
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RANGE (KYDS)

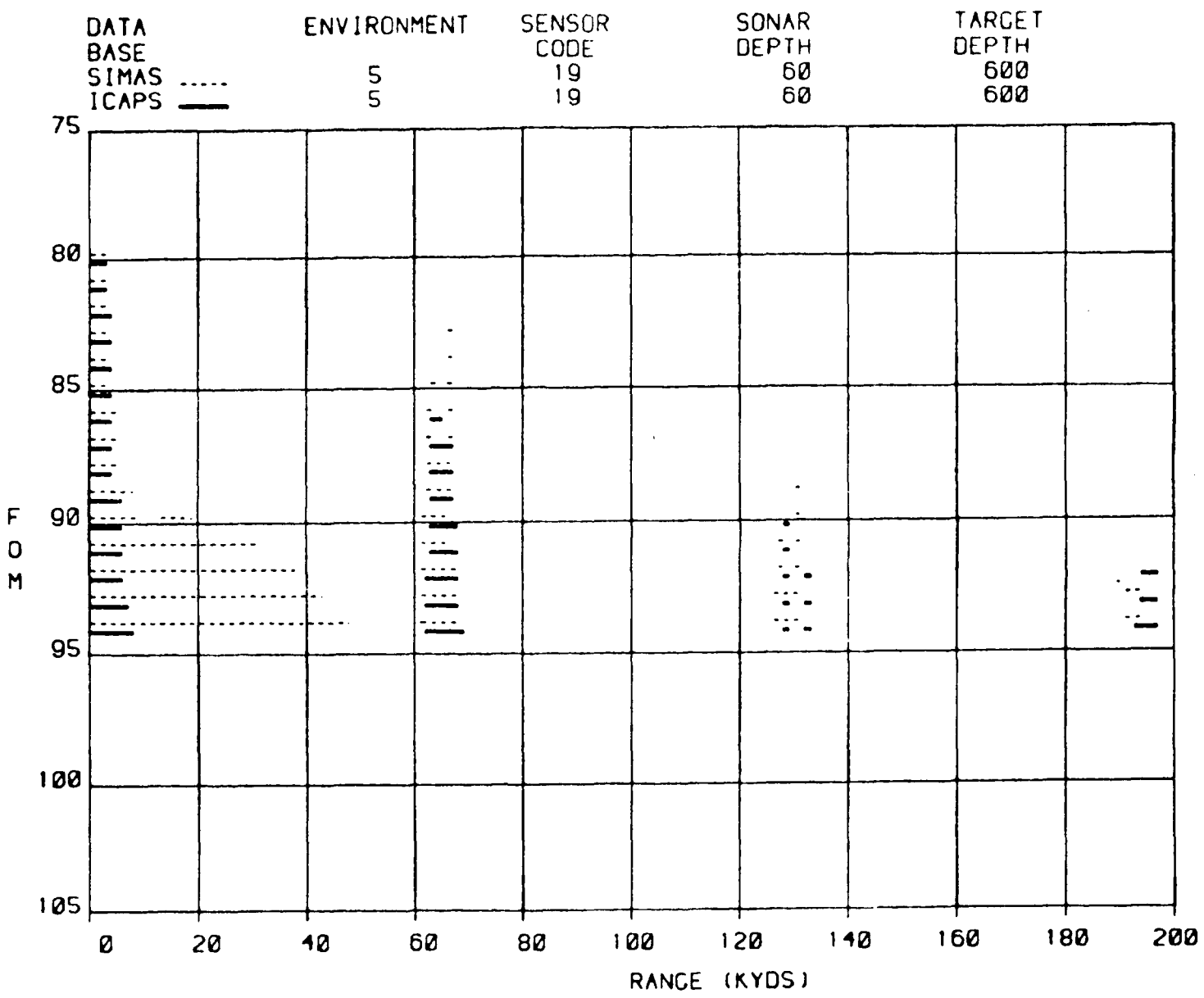

DATA BASE
SIMAS -----
ICAPS ——
ENVIRONMENT
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SENSOR CODE
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SONAR DEPTH
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TARGET DEPTH
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FOM
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RANGE (KYDS)

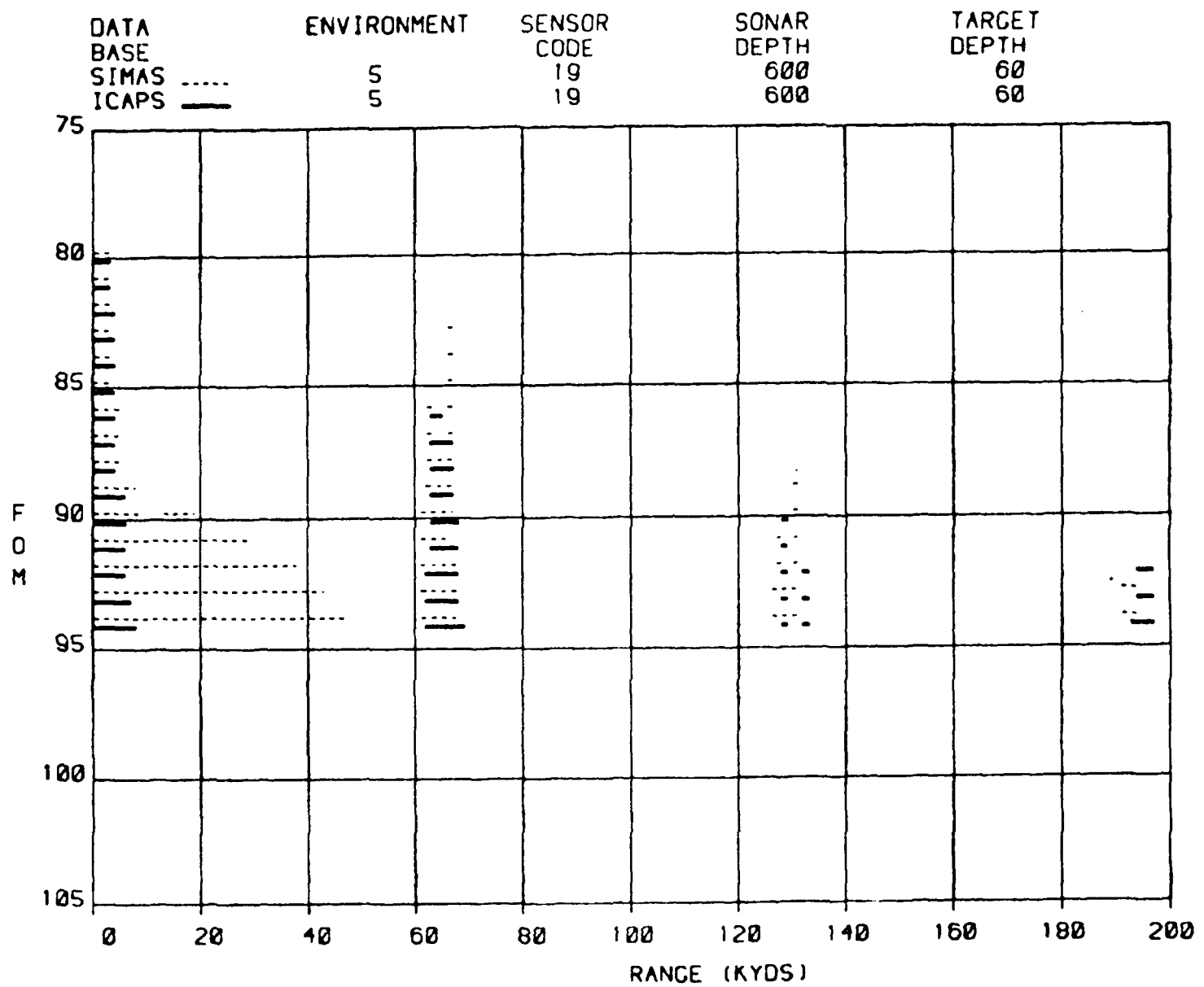

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 15 200 60
ICAPS ——— 5 15 200 60
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F O M
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RANGE (KYDS)

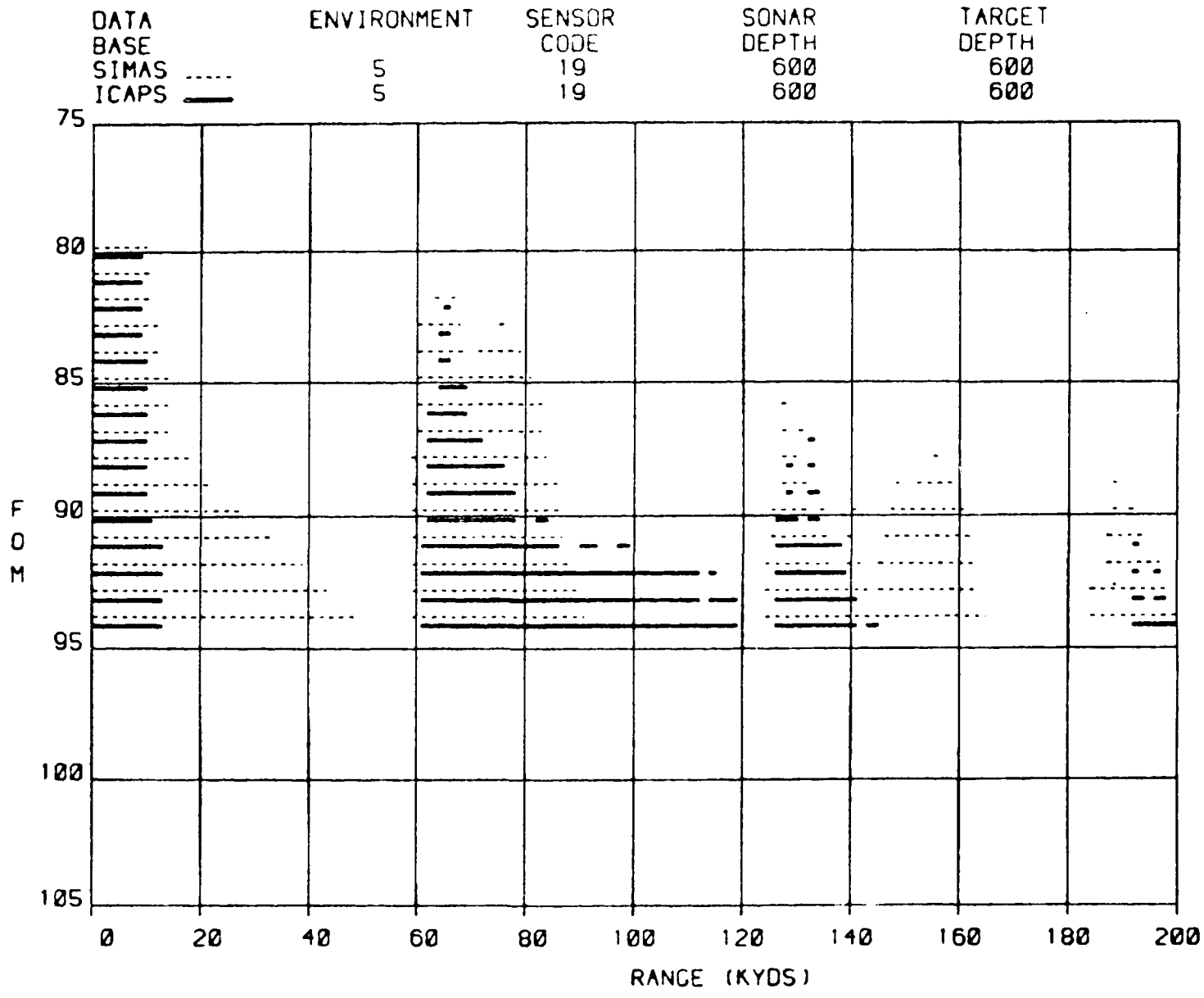

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 15 500 60
ICAPS —— 5 15 500 60
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F O M
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RANGE (KYDS)

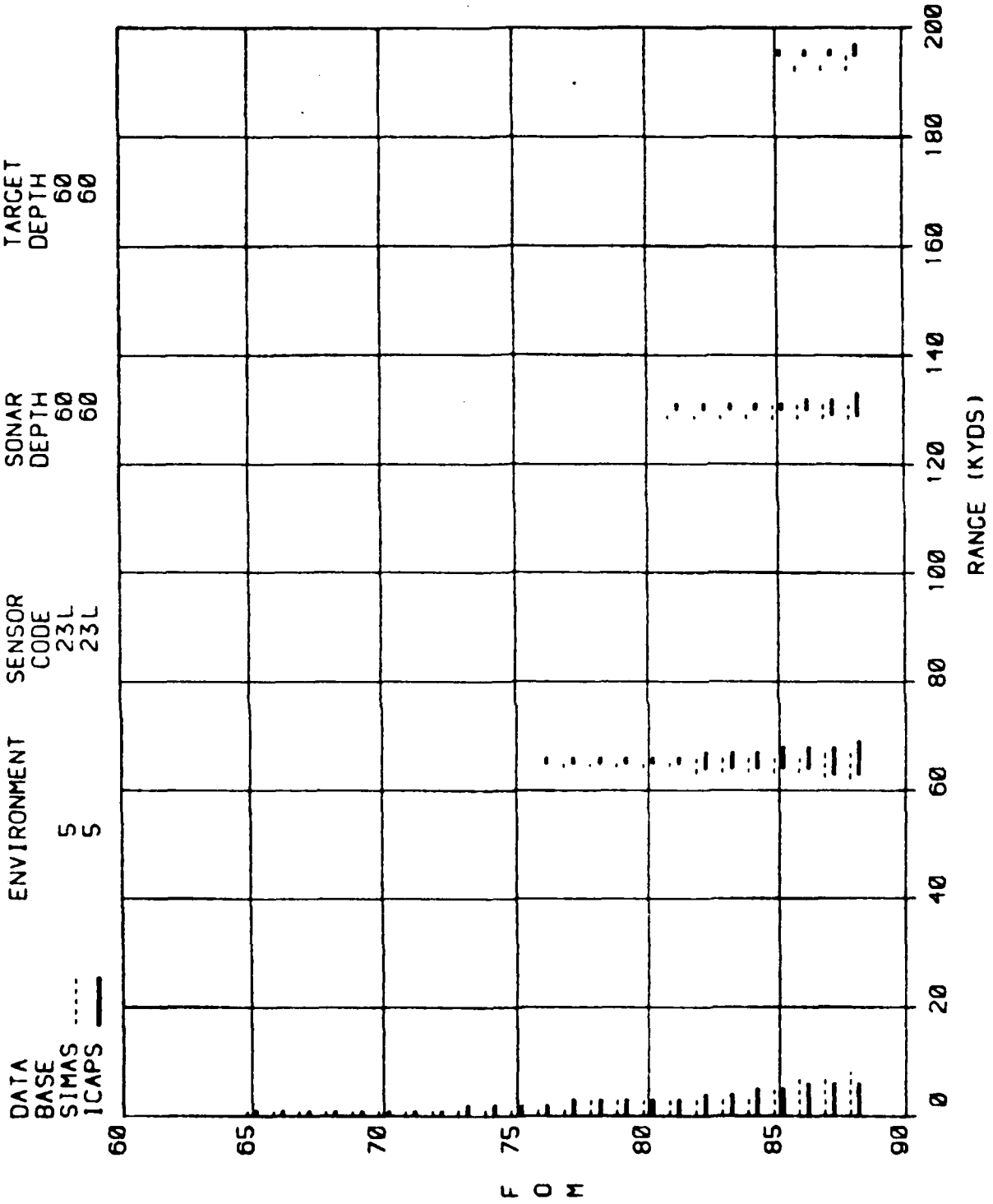

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 15 500 600
ICAPS ——— 5 15 500 600
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RANGE (KYDS)

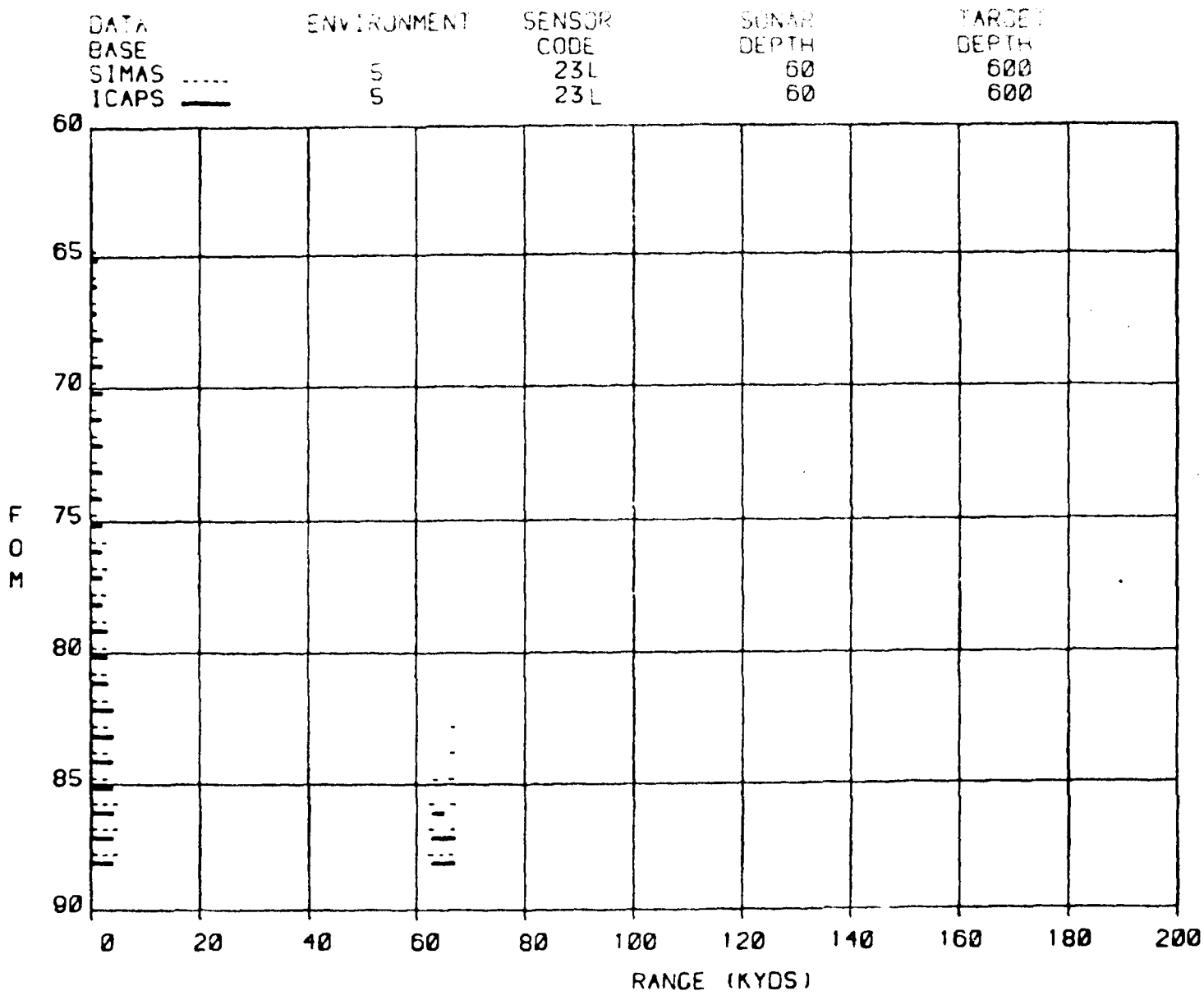

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 19 60 60
ICAPS ——— 5 19 60 60
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RANGE (KYDS)

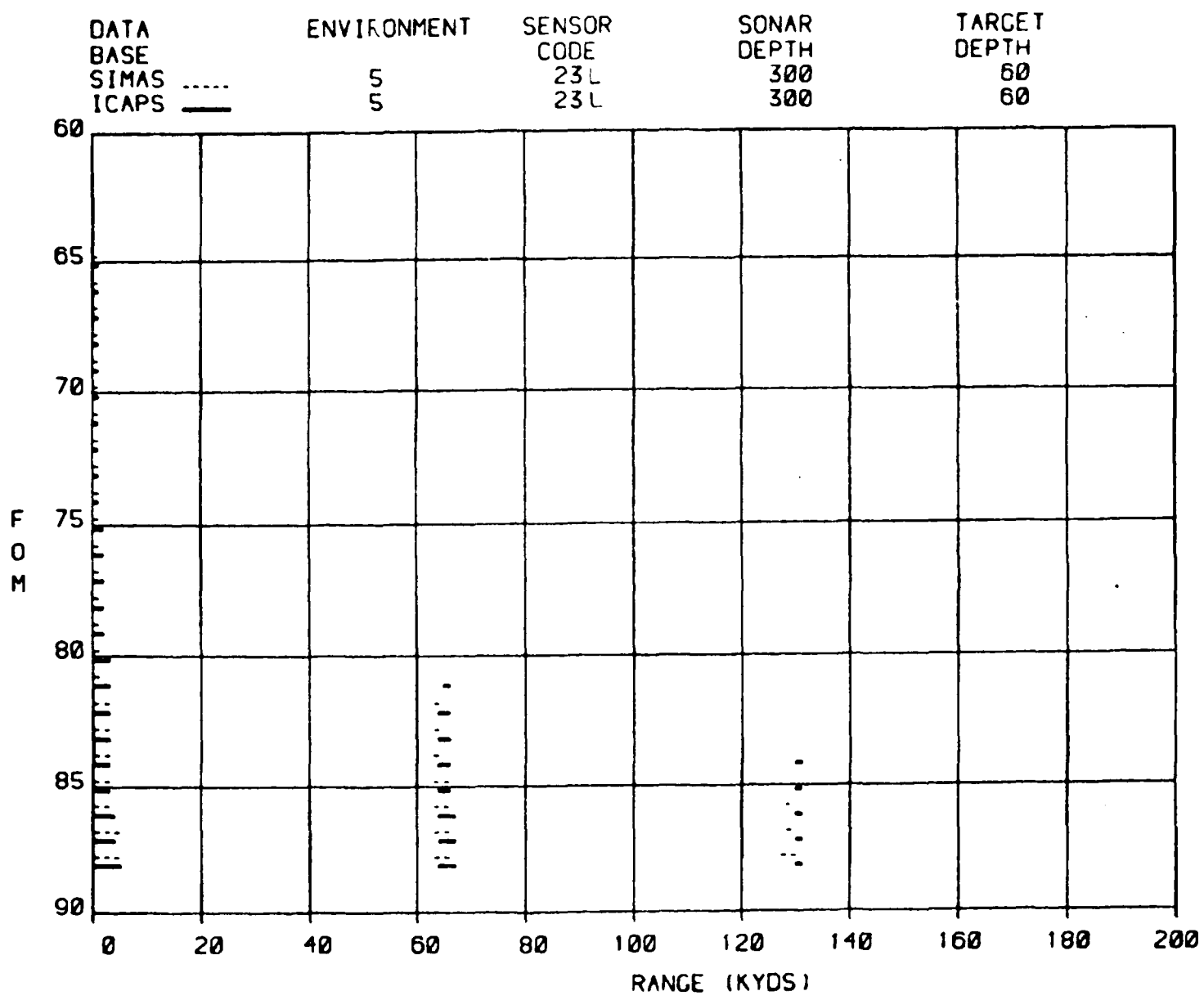

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 19 60 600
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RANGE (KYDS)

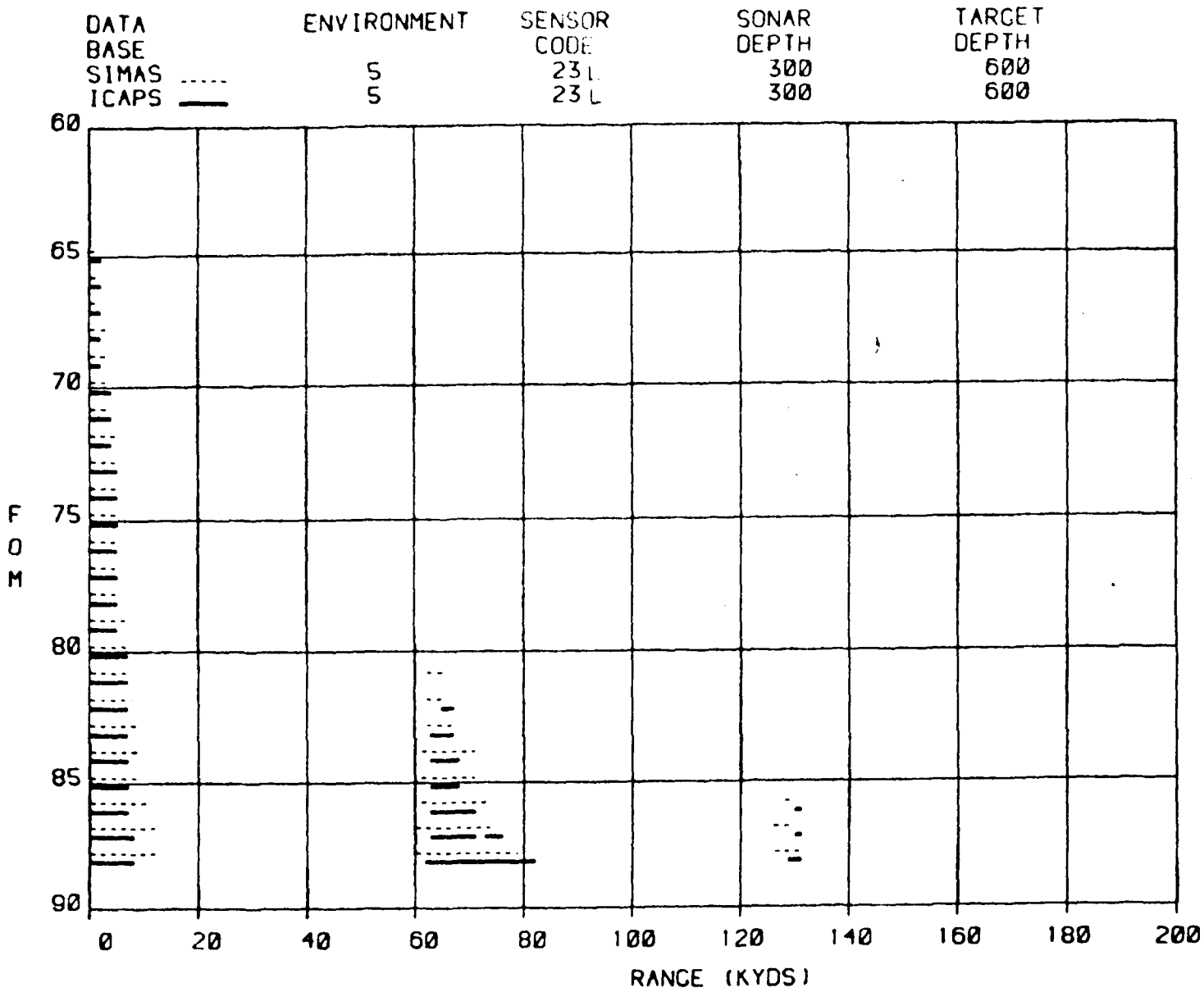

DATA BASE
ENVIRONMENT
SENSOR CODE
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TARGET DEPTH
SIMAS ----- 5 19 600 60
ICAPS ——— 5 19 600 60
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RANGE (KYDS)

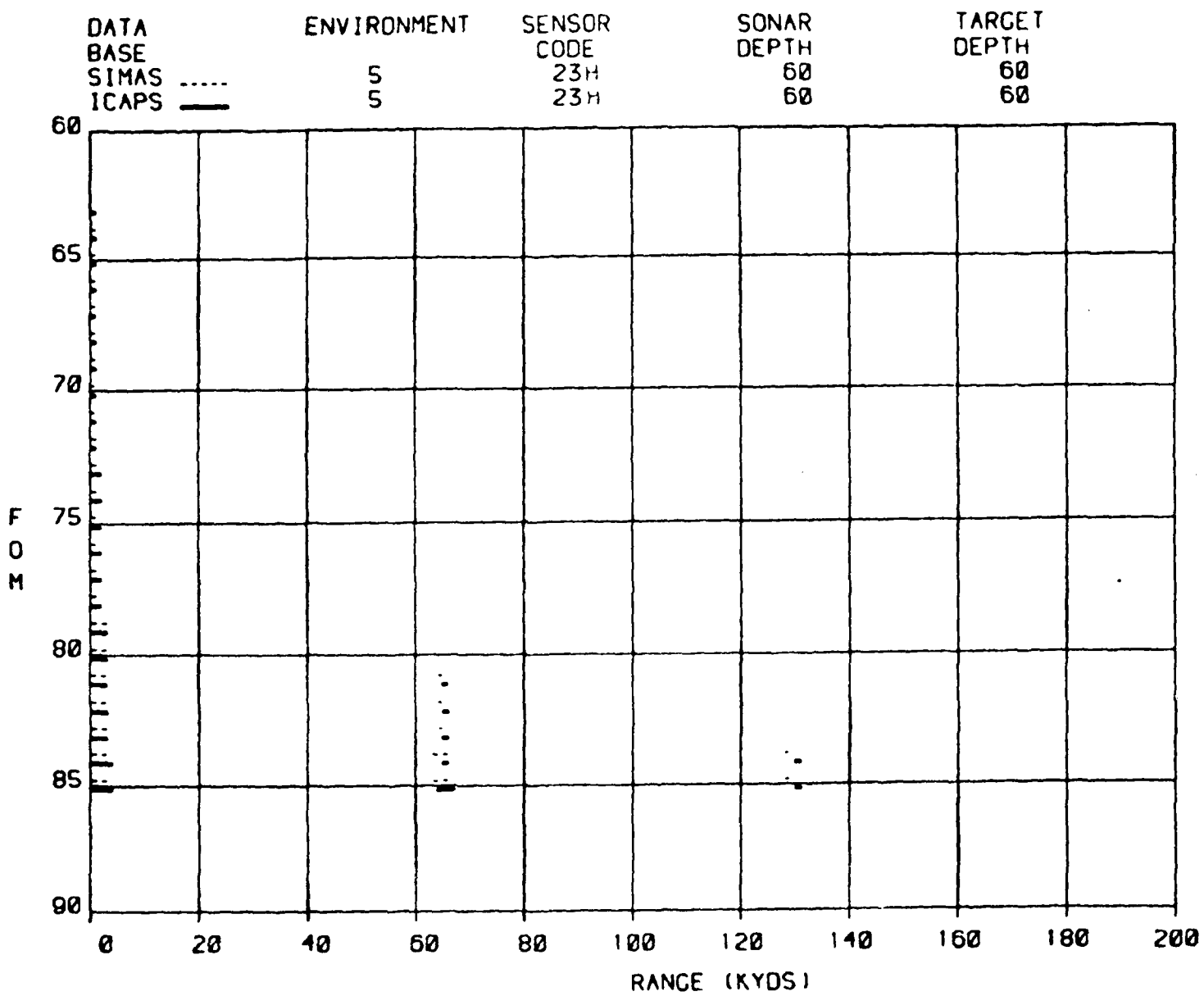

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 5 19 600 600
ICAPS 5 19 600 600
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RANGE (KYDS)

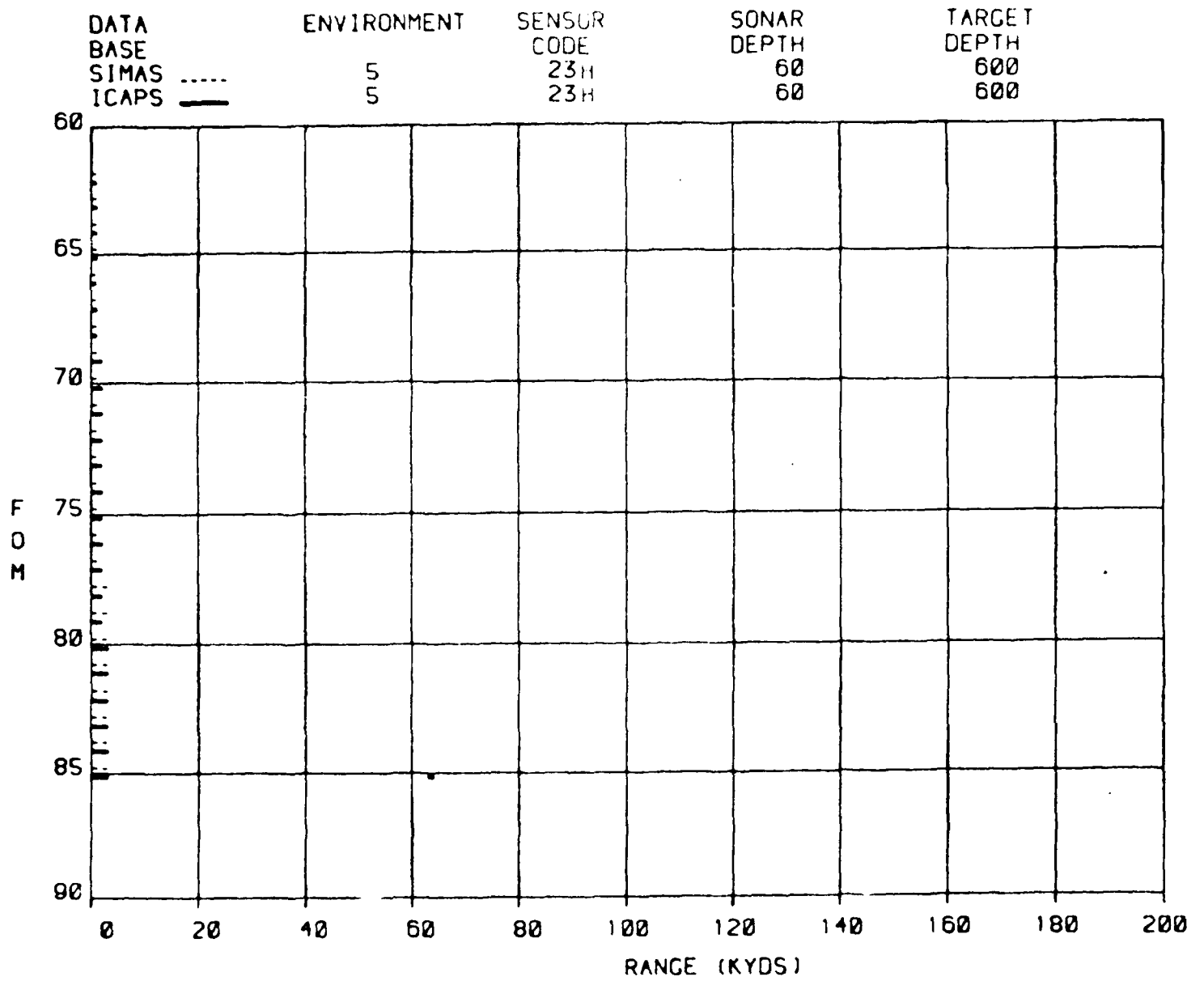

DATA BASE
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ICAPS ——
ENVIRONMENT
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SENSOR CODE
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23L
SONAR DEPTH
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TARGET DEPTH
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FOM
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120
140
160
180
200
RANGE (KYDS)

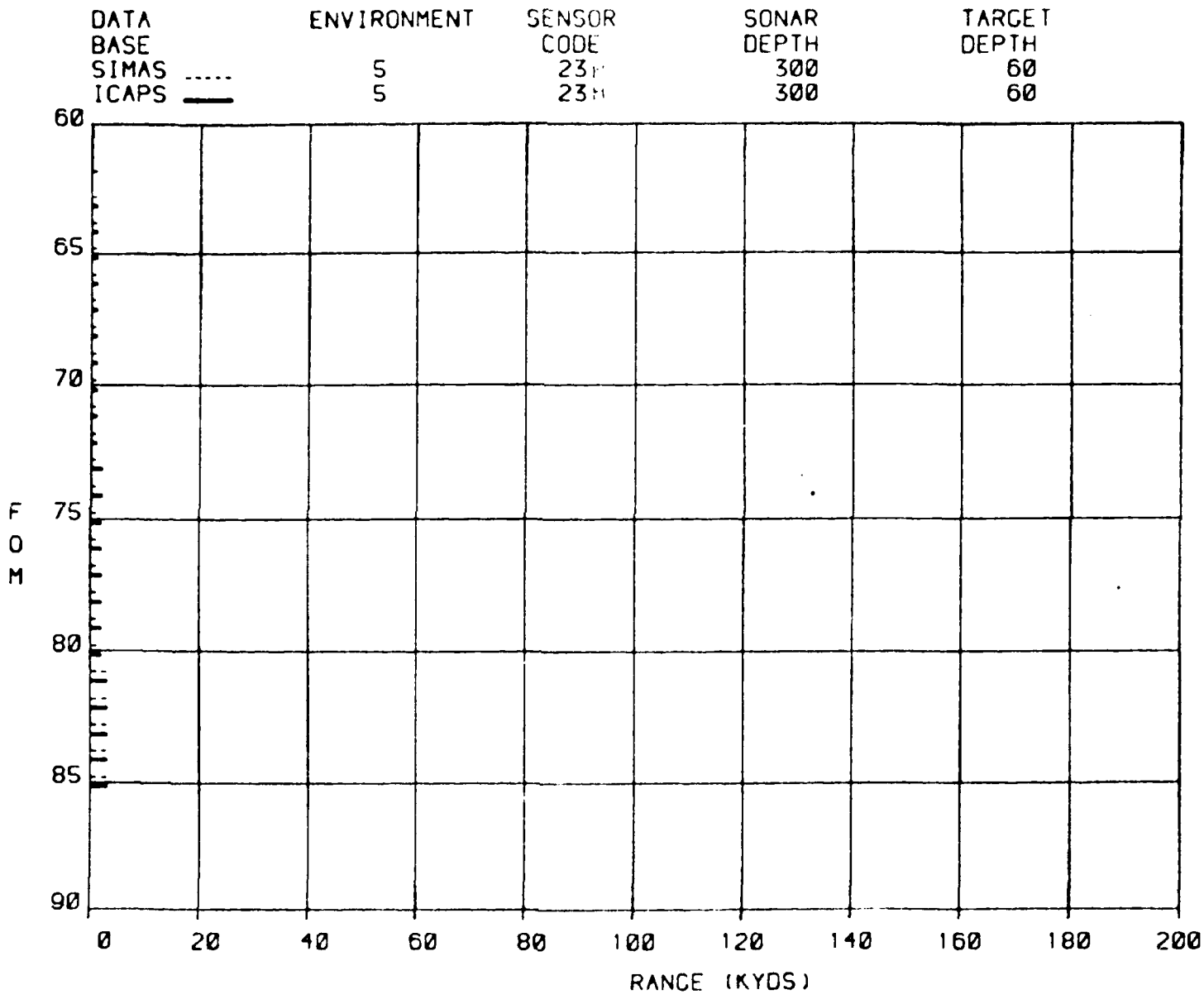

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 23L 60 600
ICAPS —— 5 23L 60 600
60
65
70
75
80
85
90
F O M
0
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40
60
80
100
120
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200
RANGE (KYDS)

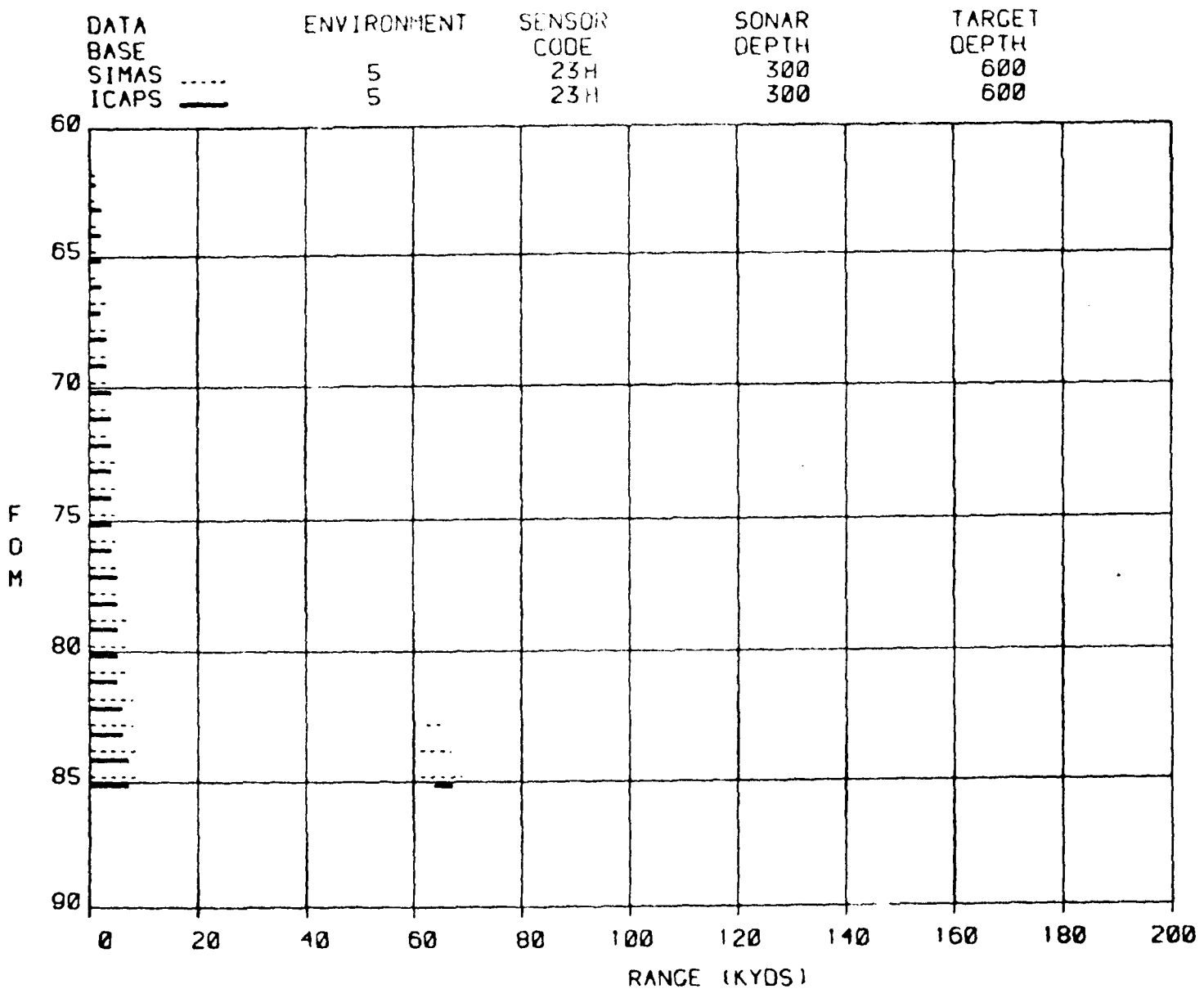

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 23L 300 60
ICAPS ——— 5 23L 300 60
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FOM
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RANGE (KYDS)

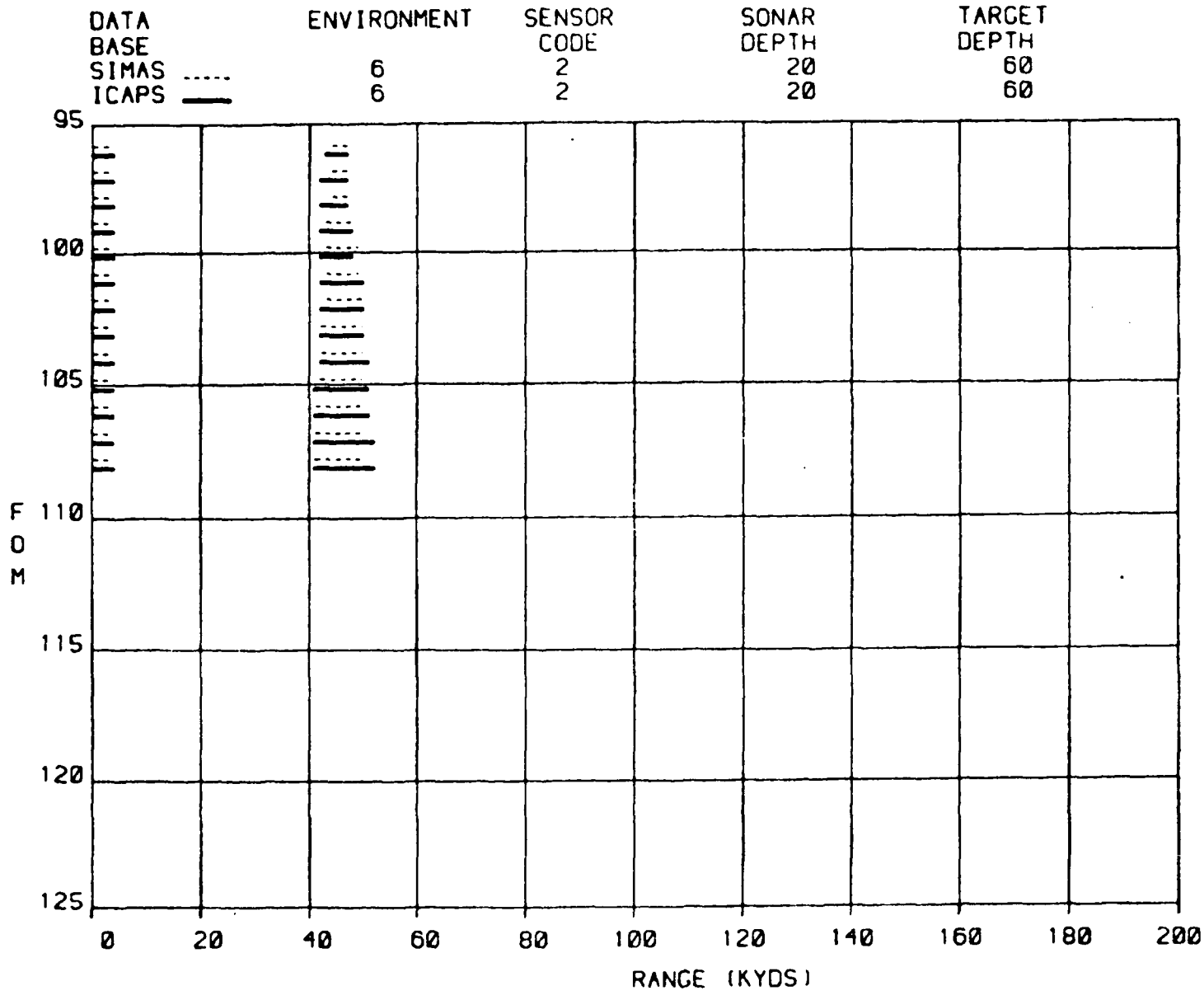

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 23L 300 600
ICAPS ——— 5 23L 300 600
60
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FOM
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120
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200
RANGE (KYDS)

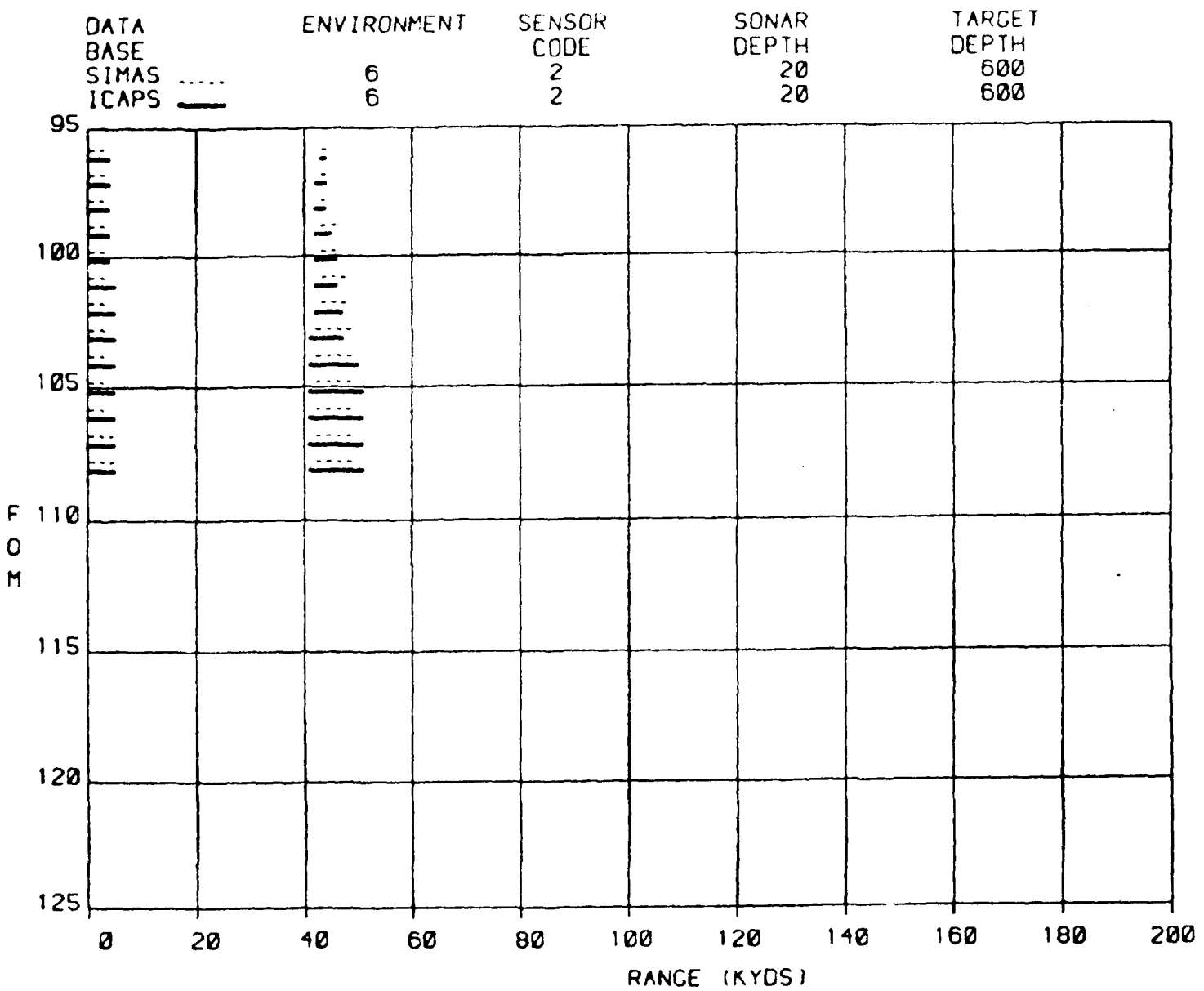

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 23H 60 60
ICAPS —— 5 23H 60 60
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F O M
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RANGE (KYDS)

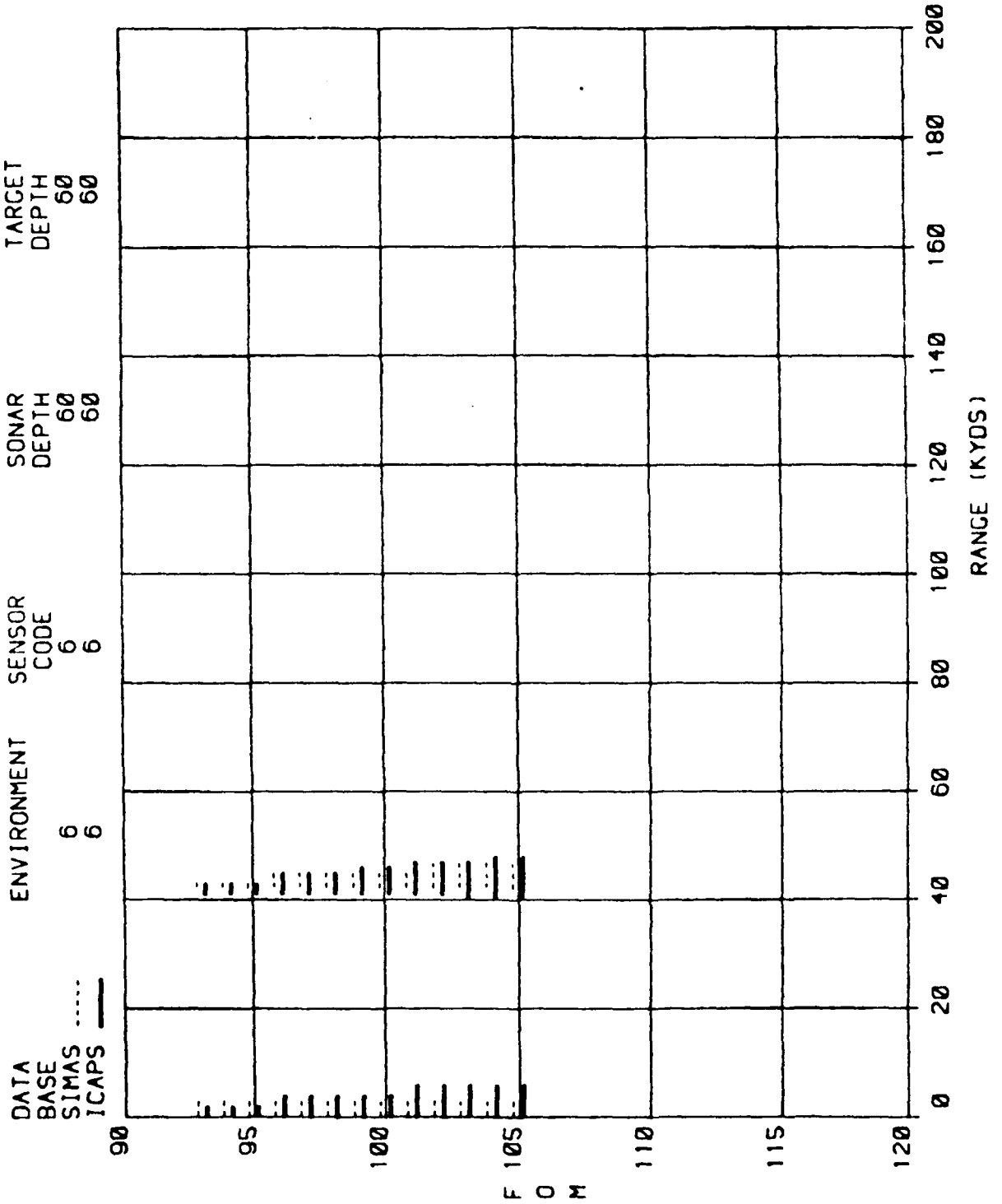

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 23H 60 600
ICAPS ——— 5 23H 60 600
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FOM
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RANGE (KYDS)

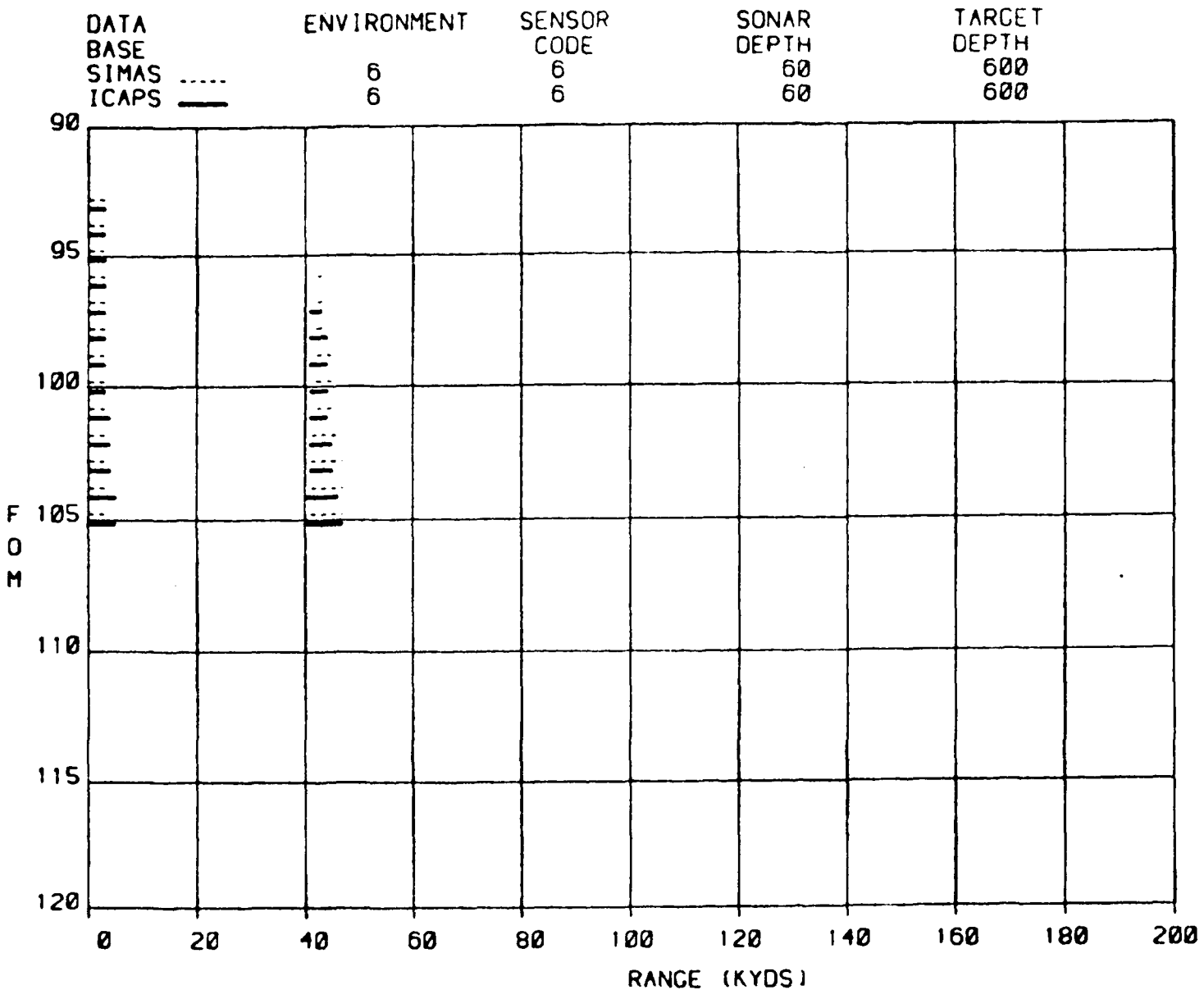

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 5 23 300 60
ICAPS ——— 5 23 300 60
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90
FOM
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120
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200
RANGE (KYDS)

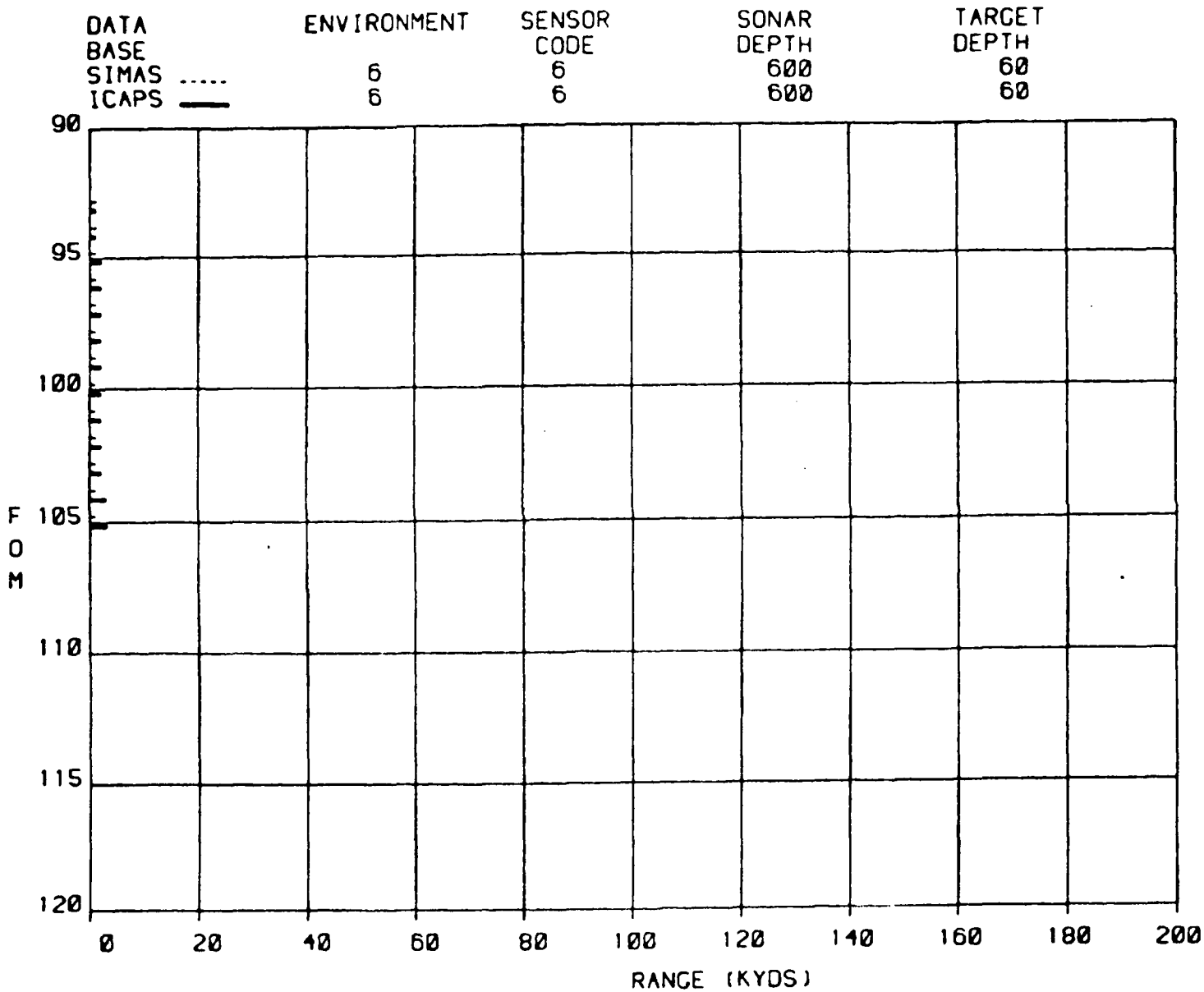

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 5 23H 300 600
ICAPS ——— 5 23H 300 600
60
65
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75
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90
FOM
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200
RANGE (KYDS)

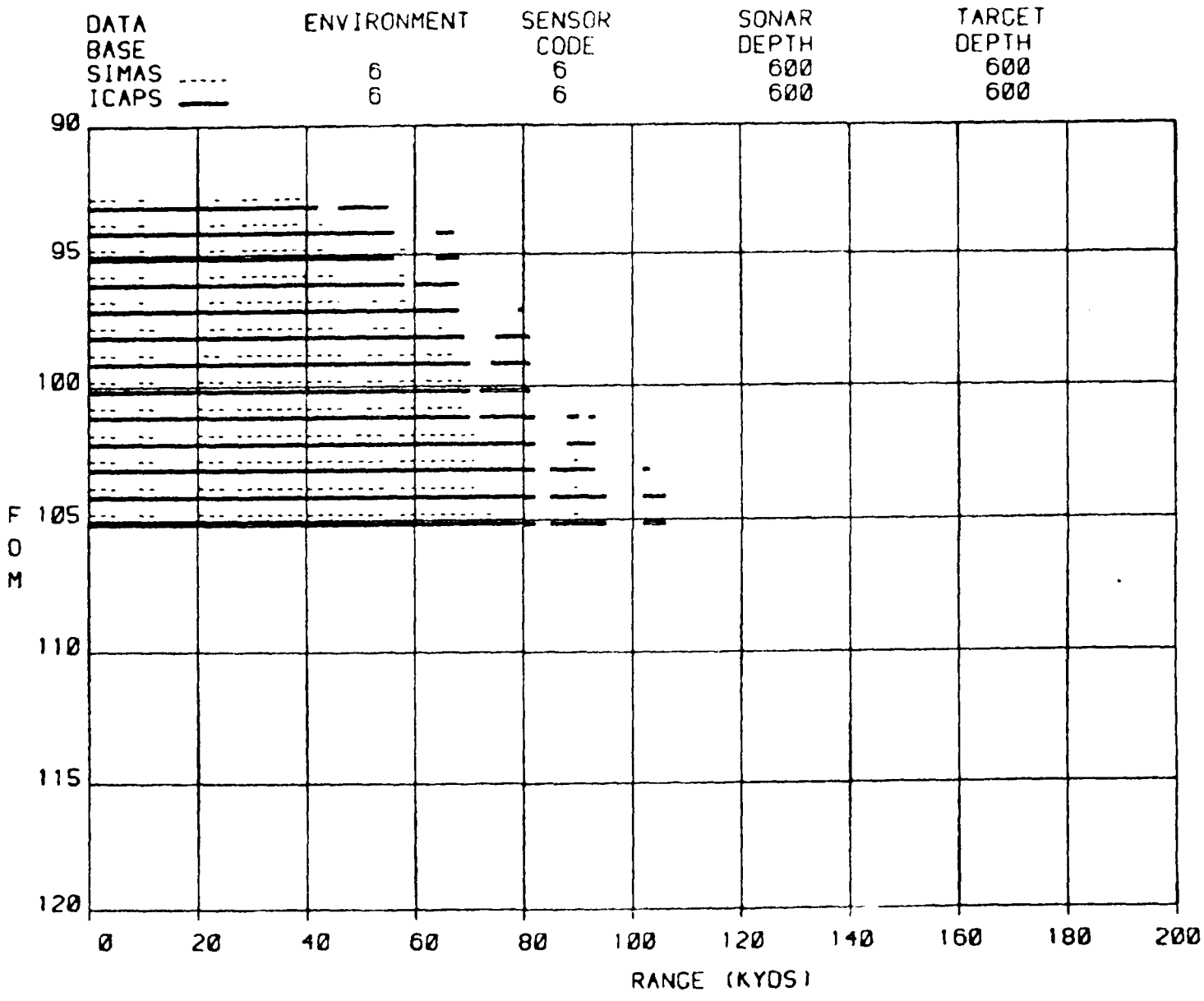

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 2 20 60
ICAPS ——— 6 2 20 60
95
100
105
110
115
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125
F O M
0
20
40
60
80
100
120
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160
180
200
RANGE (KYDS)

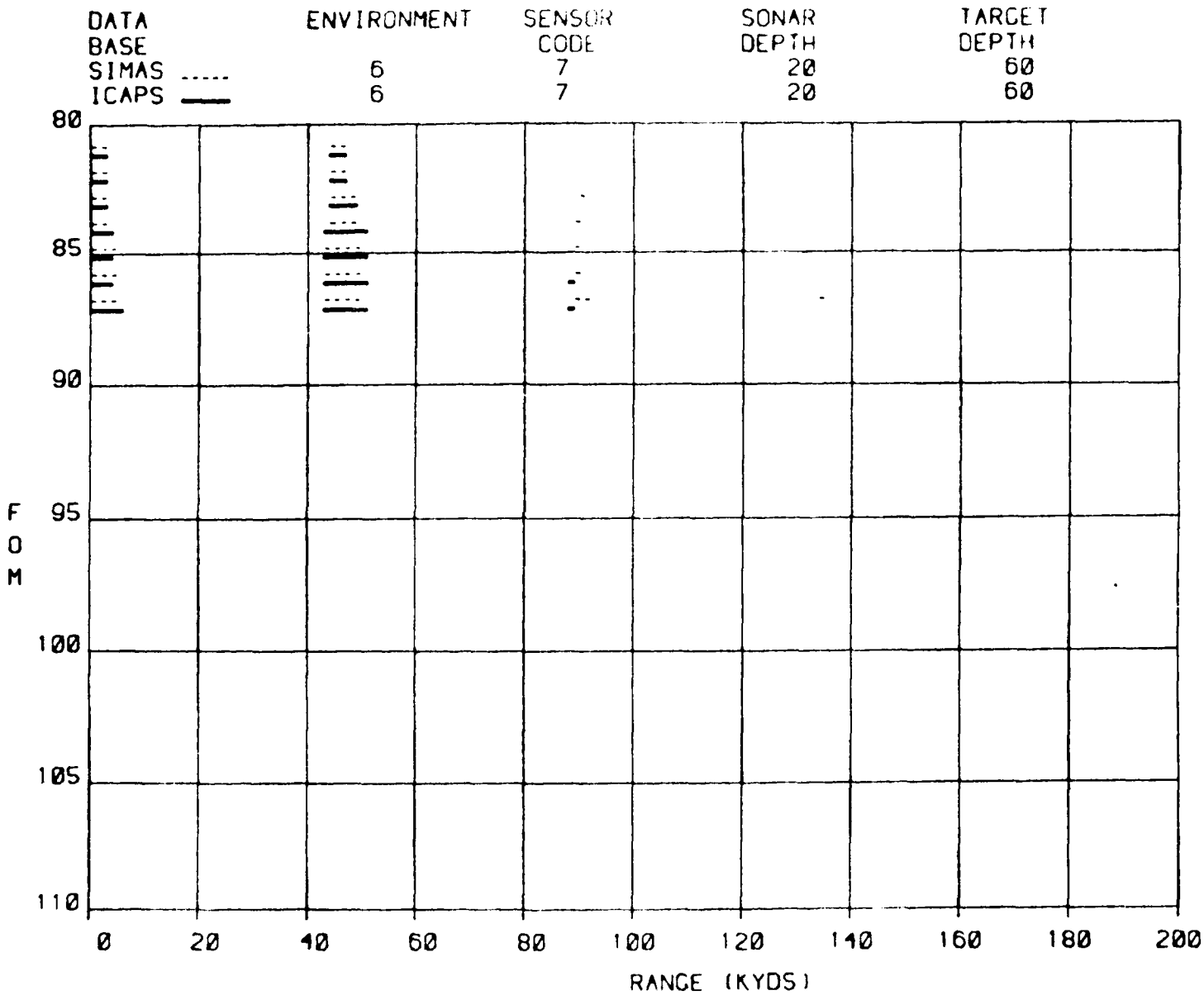

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 6 2 20 600
ICAPS ——— 6 2 20 600
95
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105
110
115
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125
FOM
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60
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100
120
140
160
180
200
RANGE (KYDS)

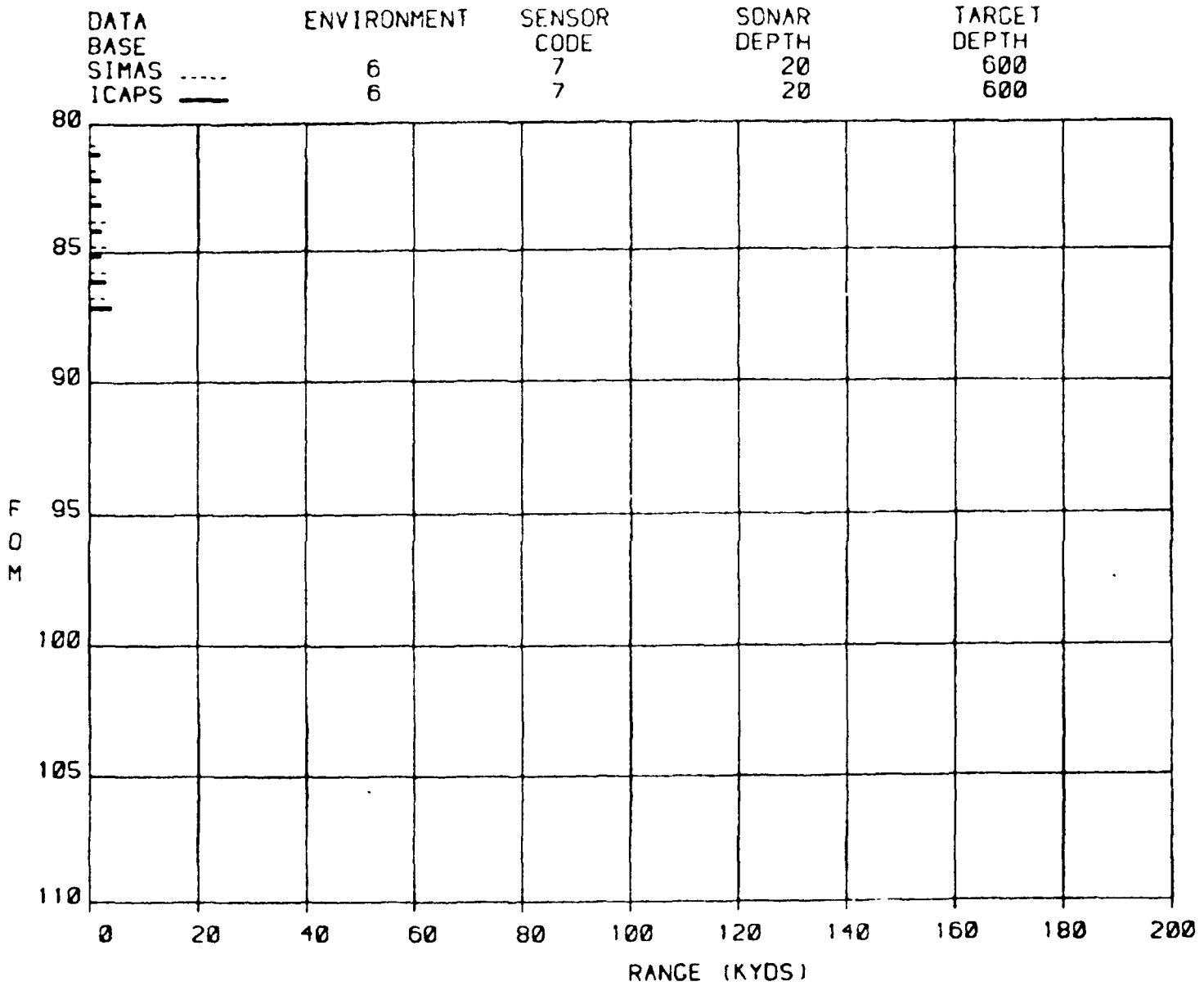

DATA BASE
SIMAS .....
ICAPS ——
ENVIRONMENT
6
6
SENSOR CODE
6
6
SONAR DEPTH
60
60
TARGET DEPTH
60
60
90
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120
FOM
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200
RANGE (KYDS)

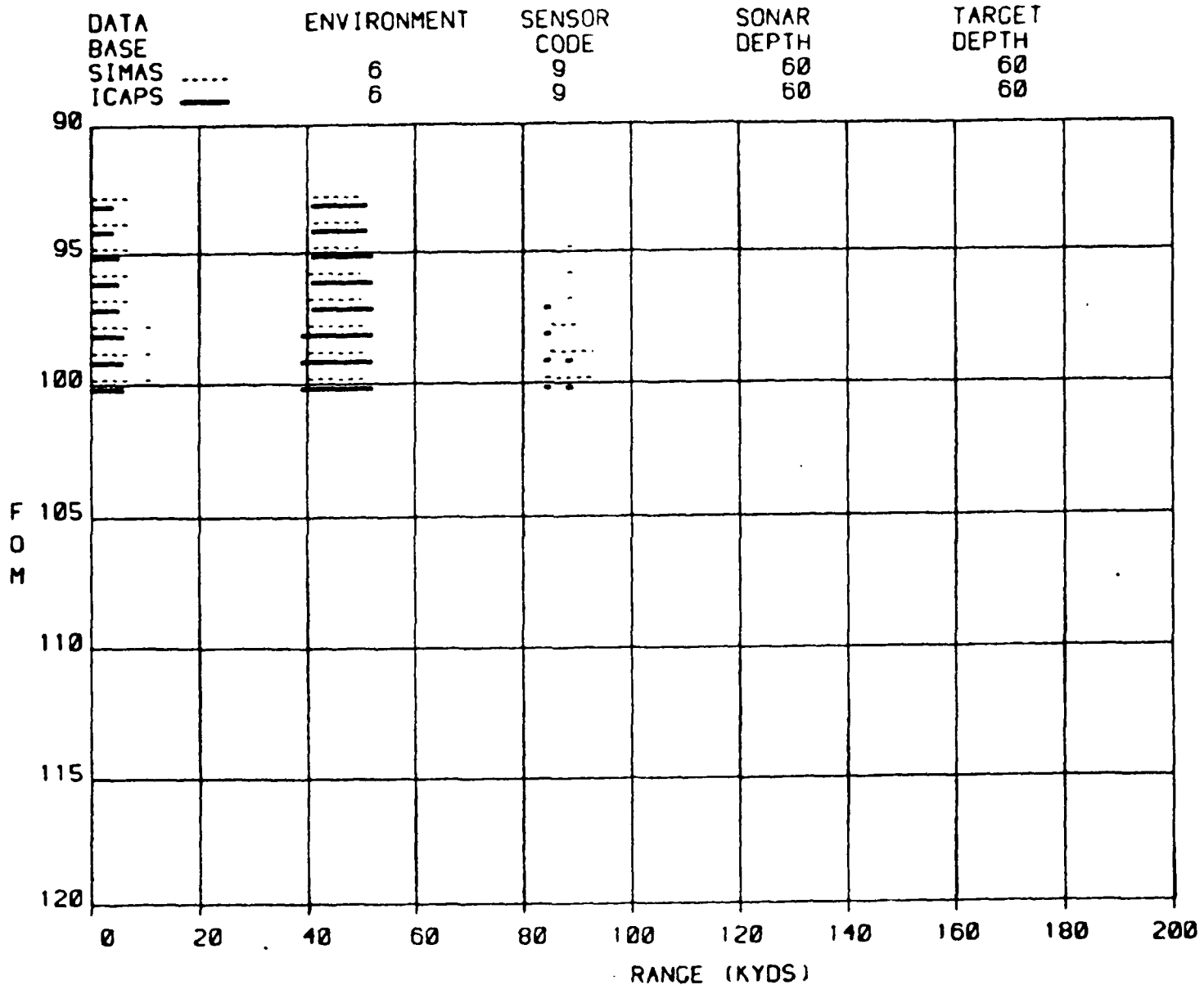

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 6 60 600
ICAPS ——— 6 6 60 600
90
95
100
105
110
115
120
F O M
0
20
40
60
80
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120
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200
RANGE (KYDS)

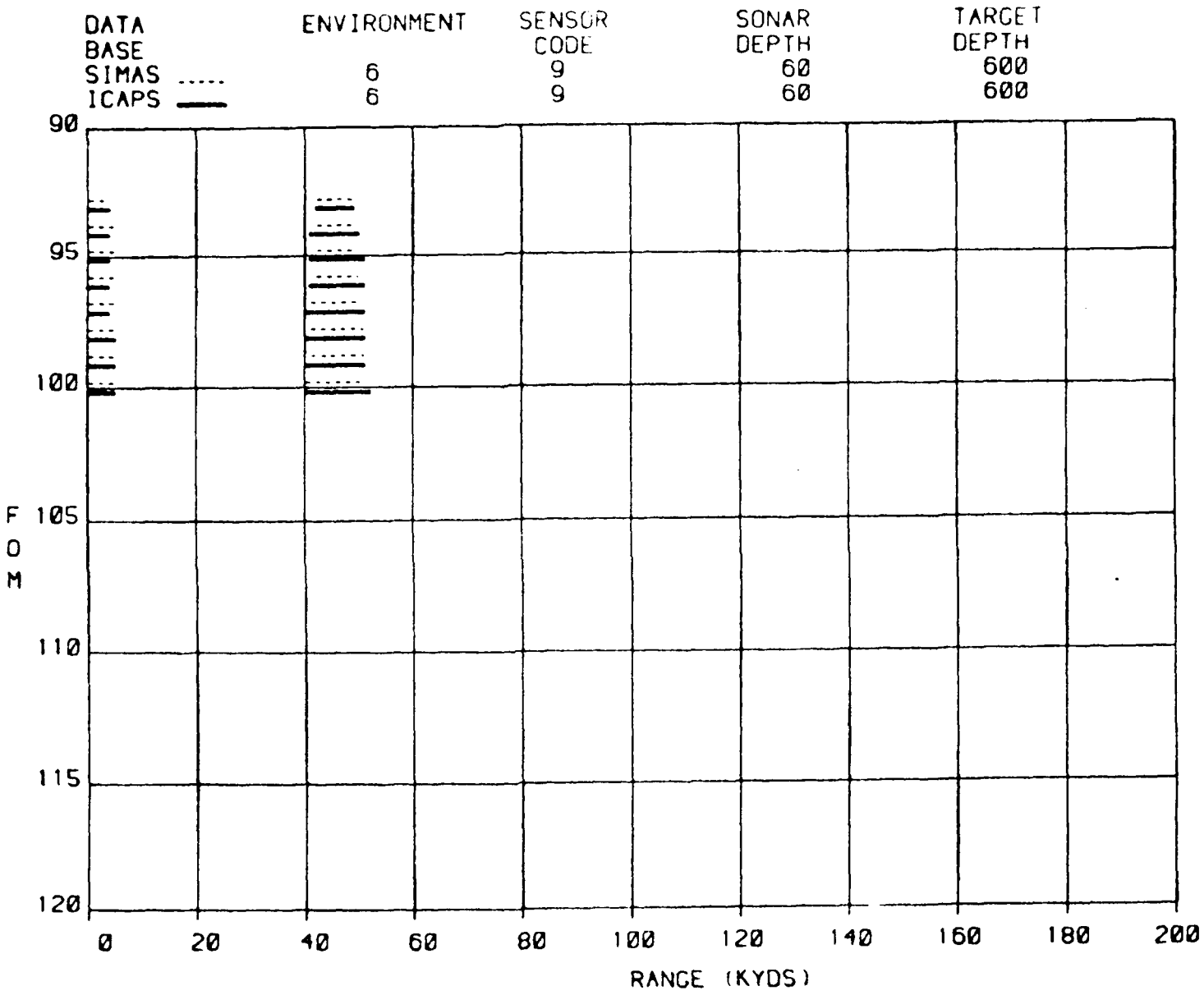

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 6 6 600 60
ICAPS ——— 6 6 600 60
90
95
100
105
110
115
120
F O M
0
20
40
60
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120
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180
200
RANGE (KYDS)

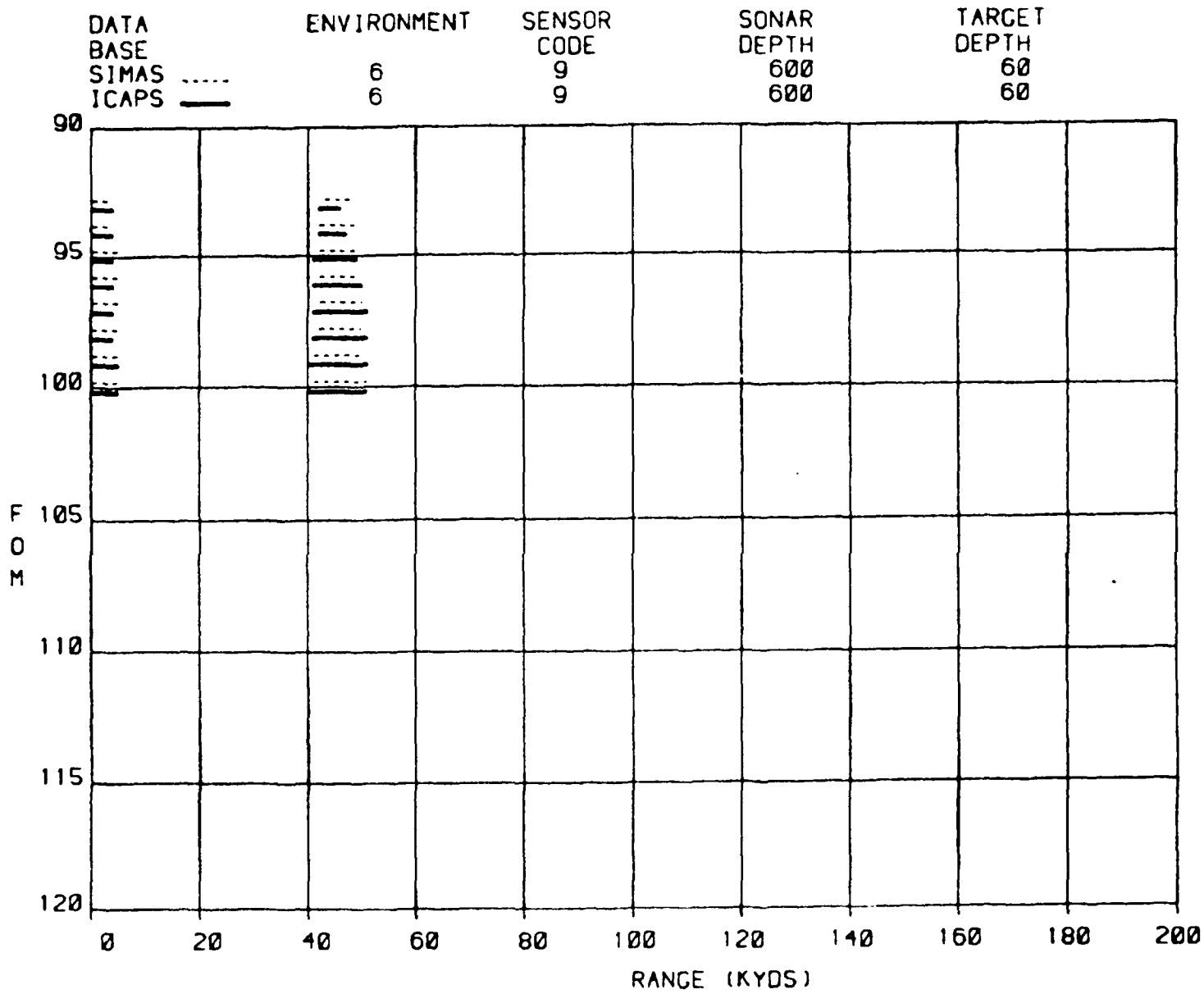

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 6 600 600
ICAPS —— 6 6 600 600
90
95
100
105
110
115
120
FOM
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

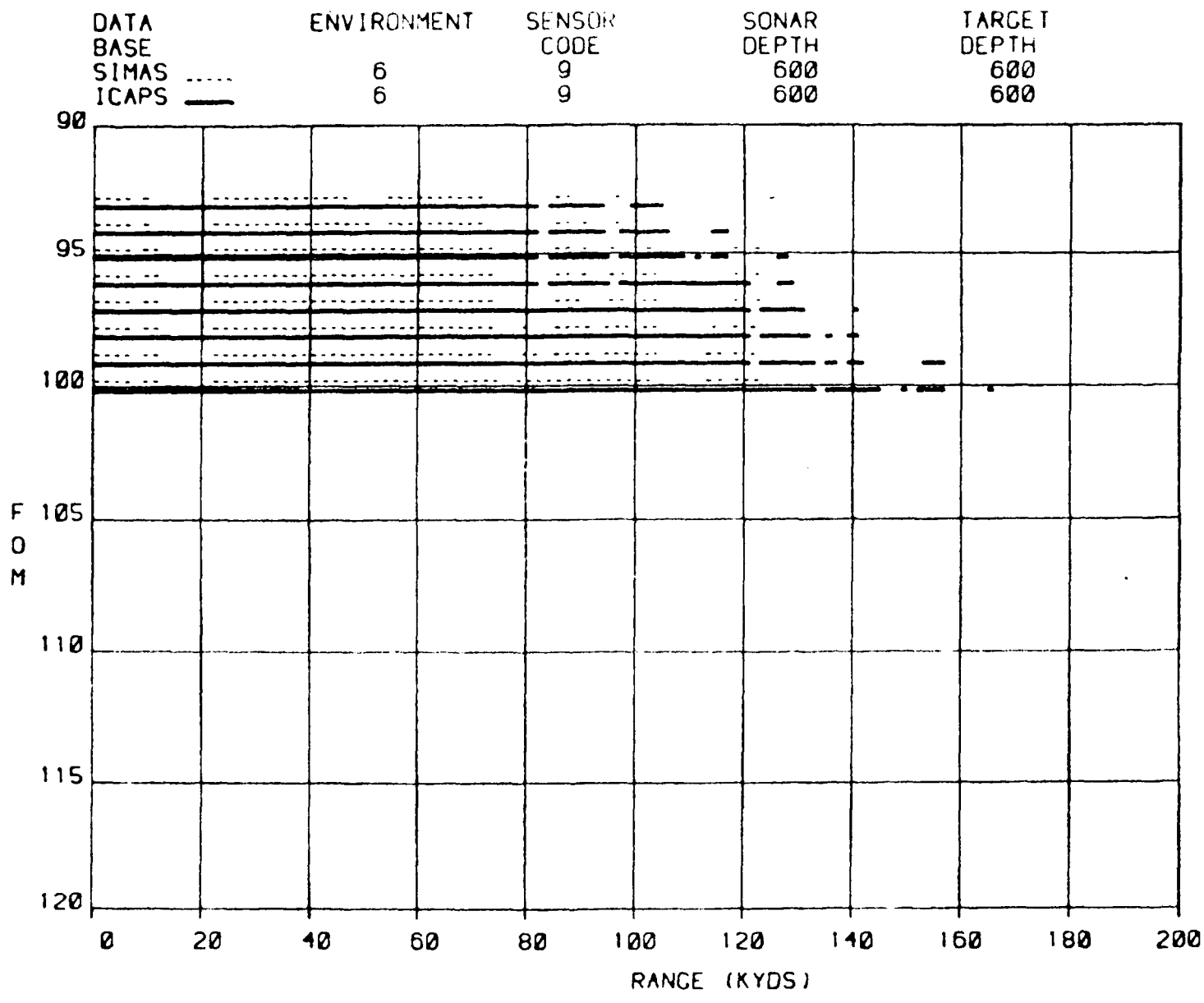

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 7 20 60
ICAPS —— 6 7 20 60
80
85
90
95
100
105
110
FOM
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

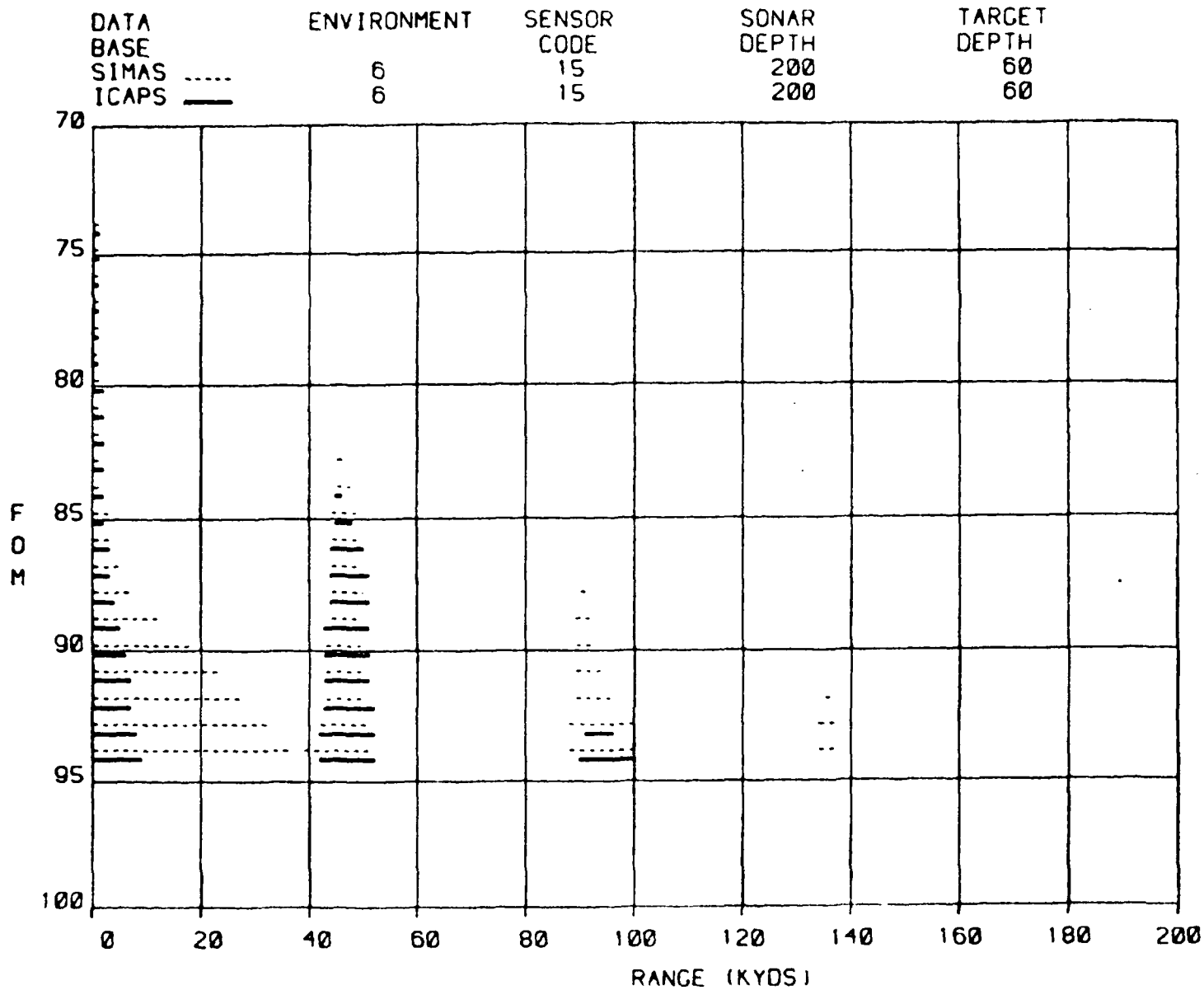

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 7 20 600
ICAPS —— 6 7 20 600
80
85
90
95
100
105
110
FOM
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

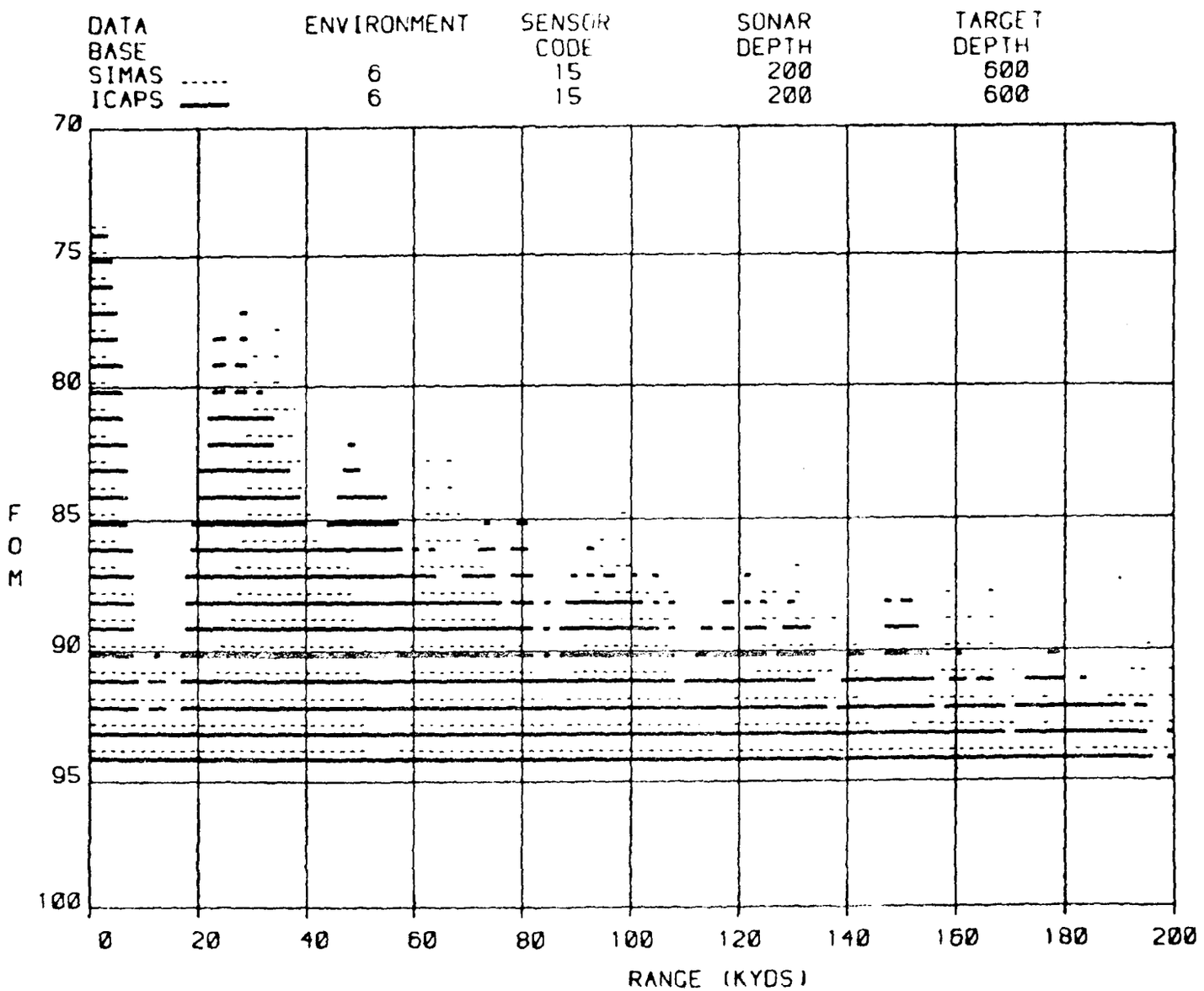

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 6 9 60 60
ICAPS ——— 6 9 60 60
90
95
100
105
110
115
120
FOM
0
20
40
60
80
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120
140
160
180
200
RANGE (KYDS)

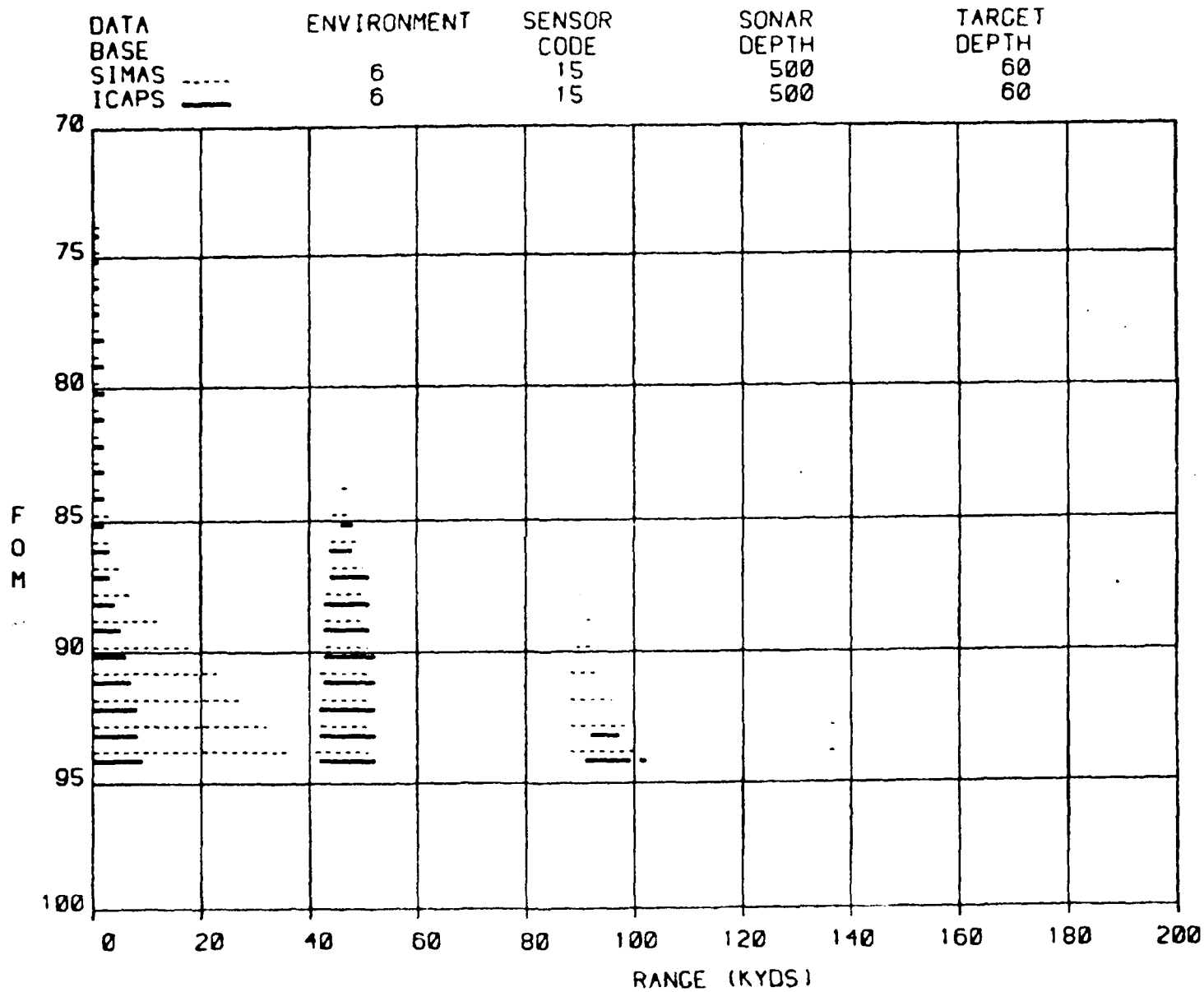

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 6 9 60 600
ICAPS ——— 6 9 60 600
90
95
100
105
110
115
120
FOM
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

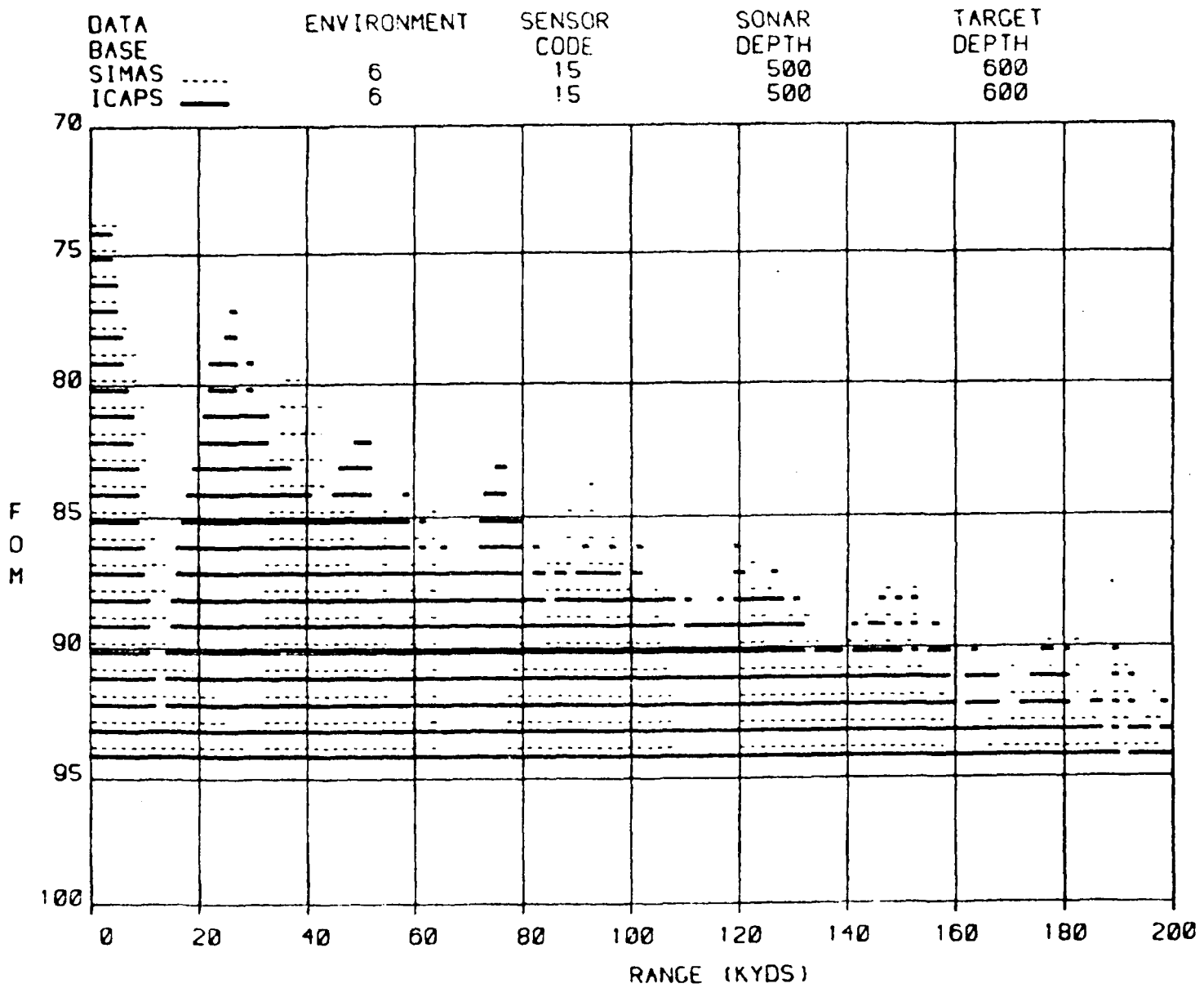

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 6 9 600 60
ICAPS 6 9 600 60
90
95
100
105
110
115
120
F O M
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

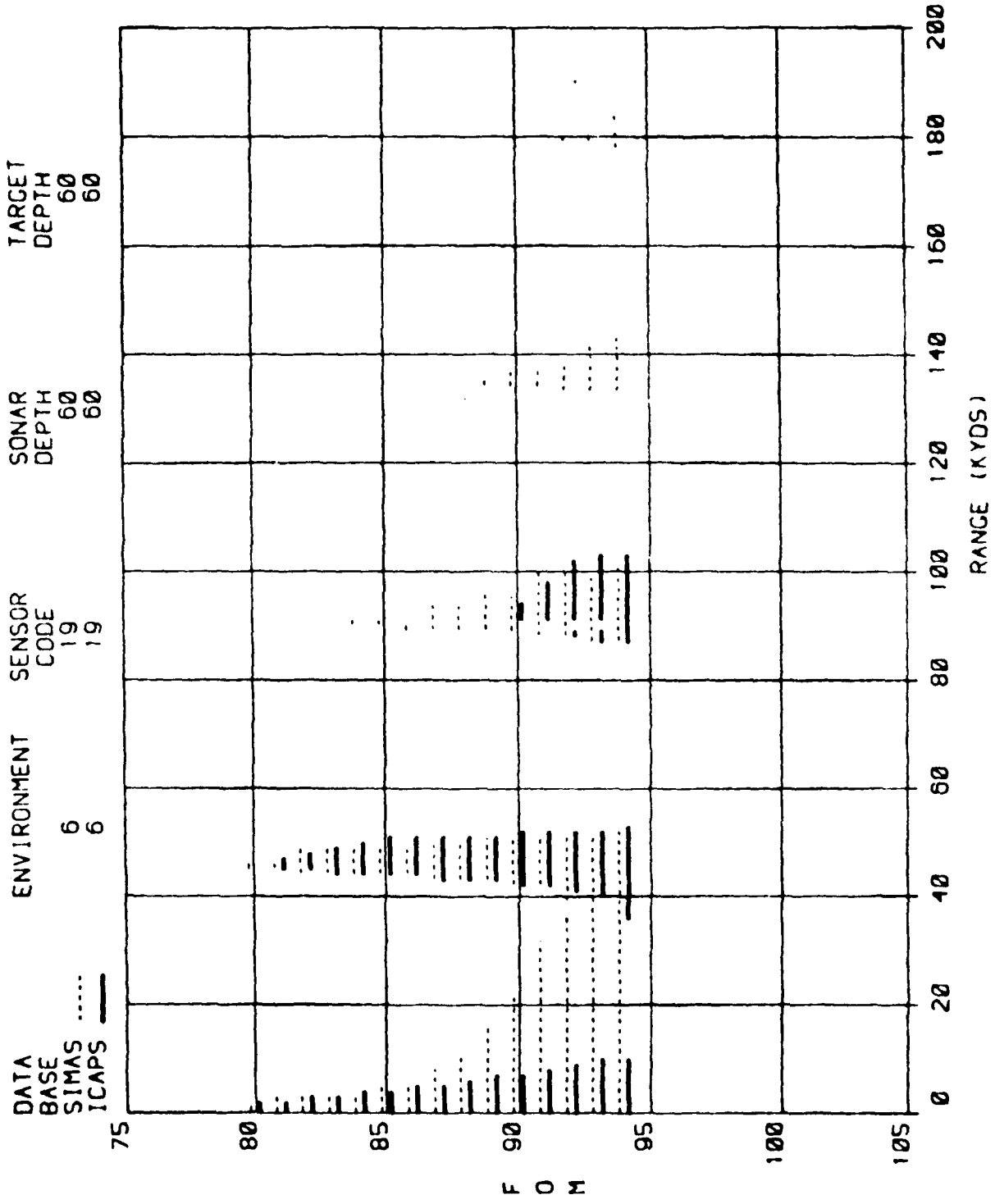

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 9 600 600
ICAPS —— 6 9 600 600
90
95
100
105
110
115
120
F O M
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

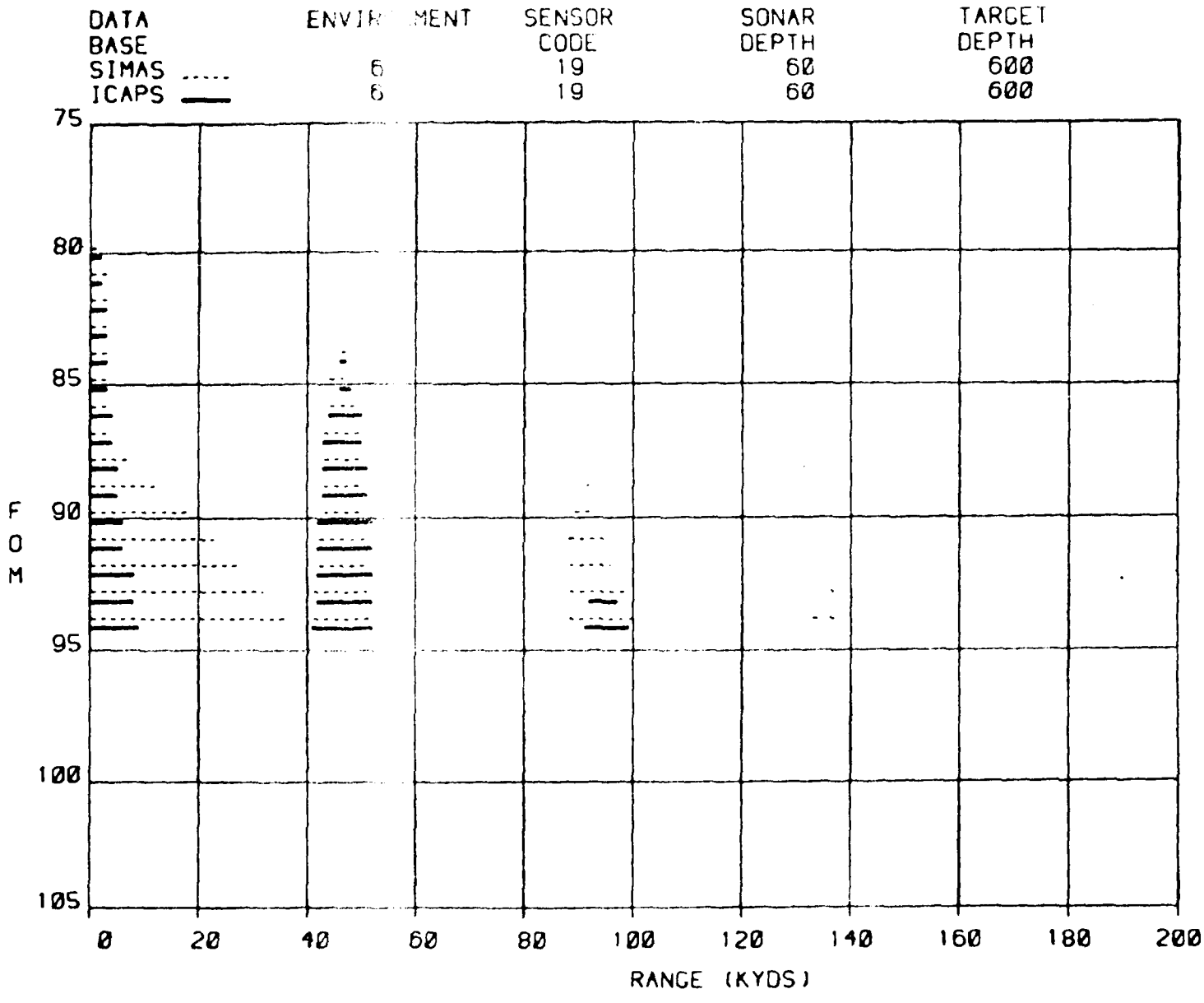

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 15 200 60
ICAPS ——— 6 15 200 60
70
75
80
85
90
95
100
FOM
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

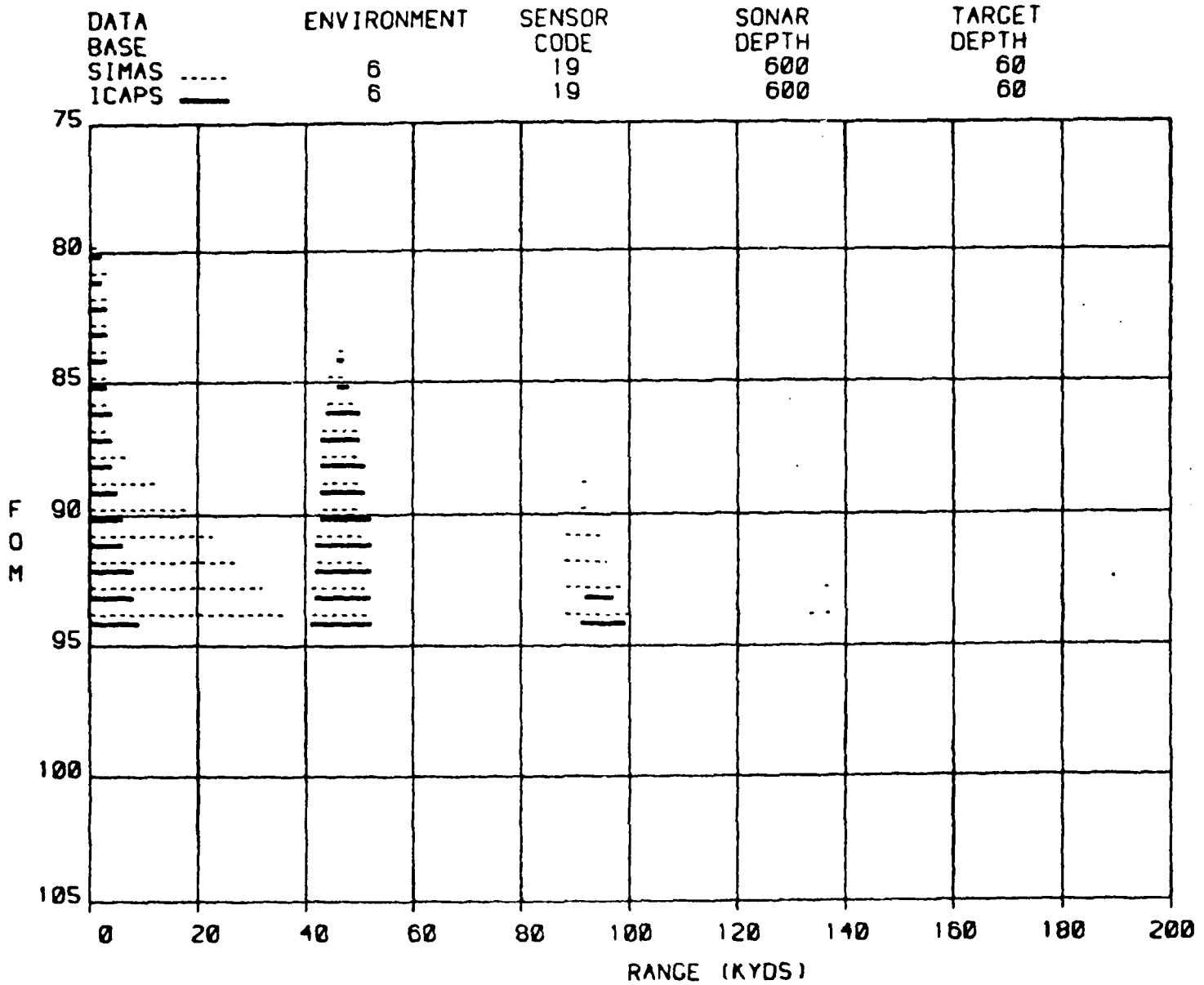

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 15 200 600
ICAPS —— 6 15 200 600
70
75
80
85
90
95
100
F O M
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

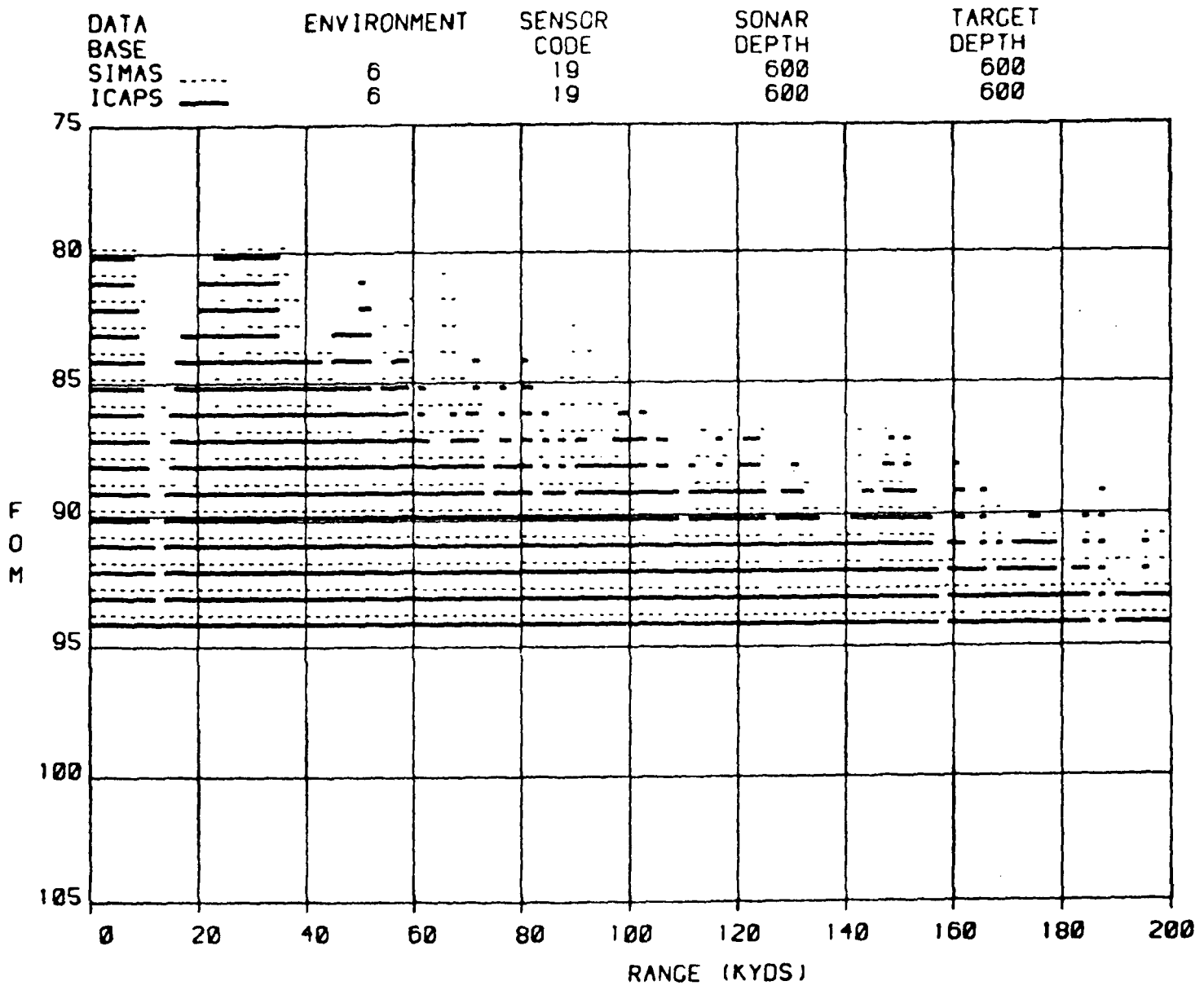

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 6 15 500 60
ICAPS 6 15 500 60
70
75
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95
100
F O M
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20
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60
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120
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180
200
RANGE (KYDS)

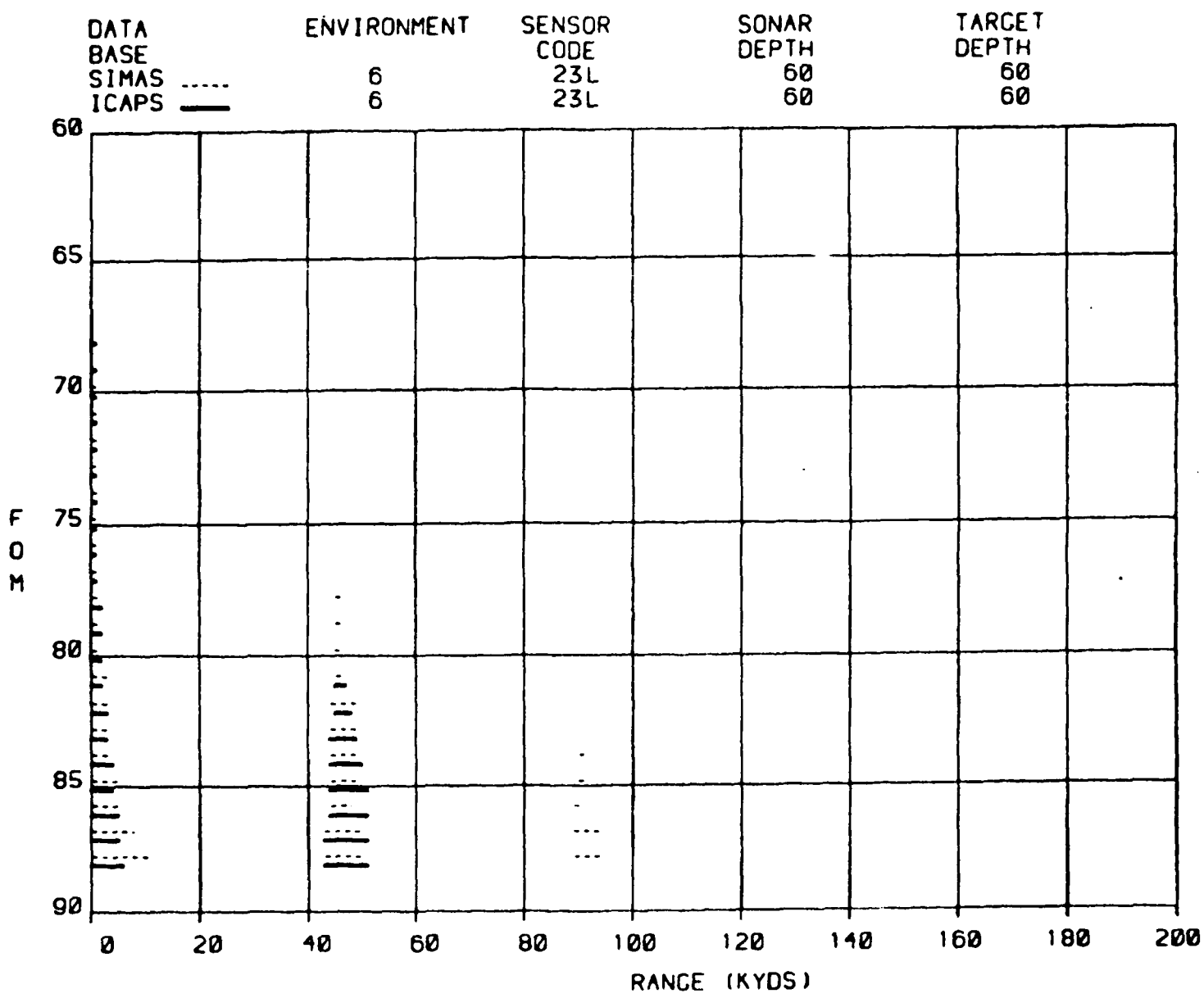

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 15 500 600
ICAPS ——— 6 15 500 600
70
75
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F O M
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60
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120
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180
200
RANGE (KYDS)

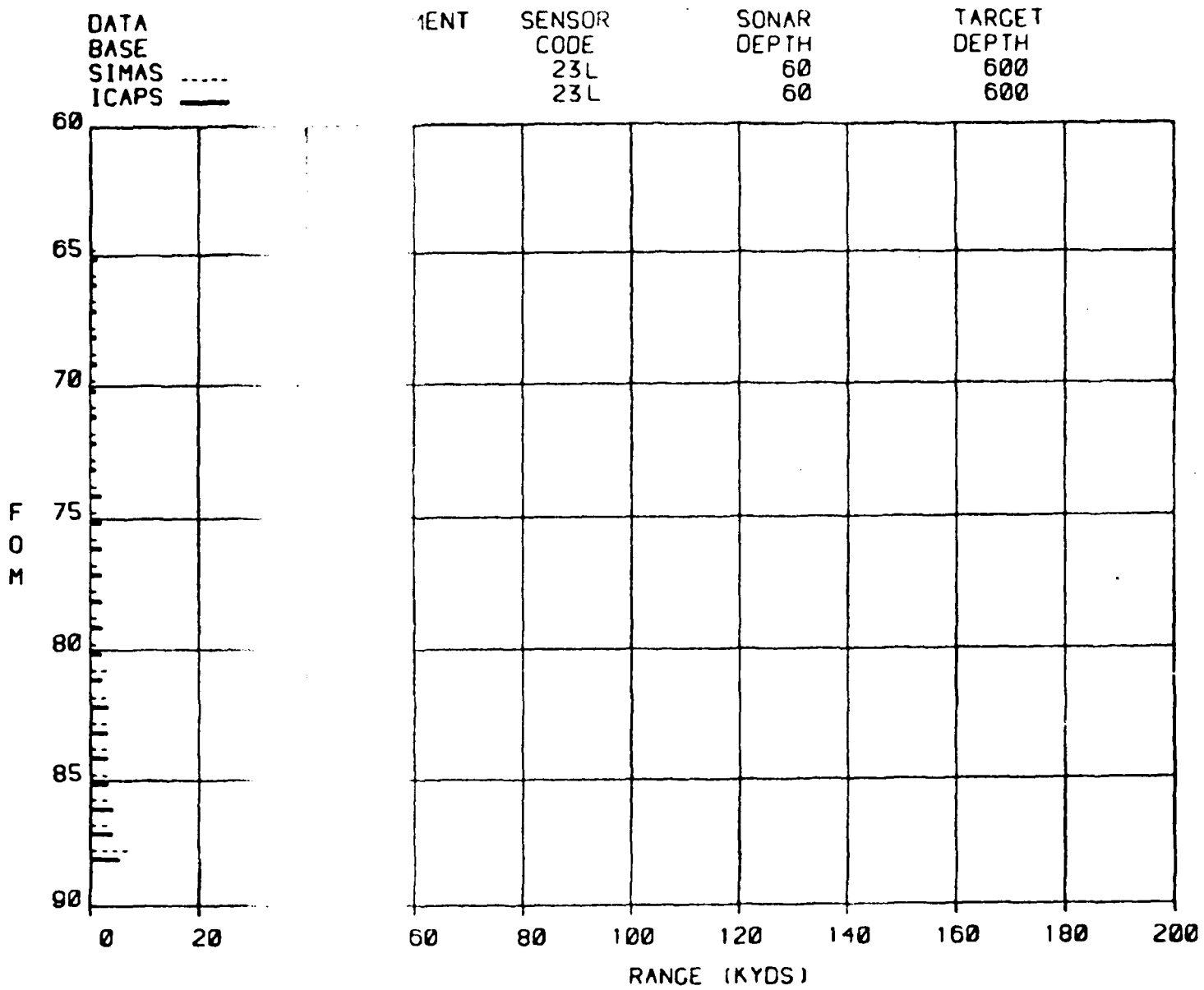

DATA BASE
SIMAS .....
ICAPS ——
ENVIRONMENT
6
6
SENSOR CODE
19
19
SONAR DEPTH
60
60
TARGET DEPTH
60
60
75
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95
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105
FOM
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120
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160
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200
RANGE (KYDS)

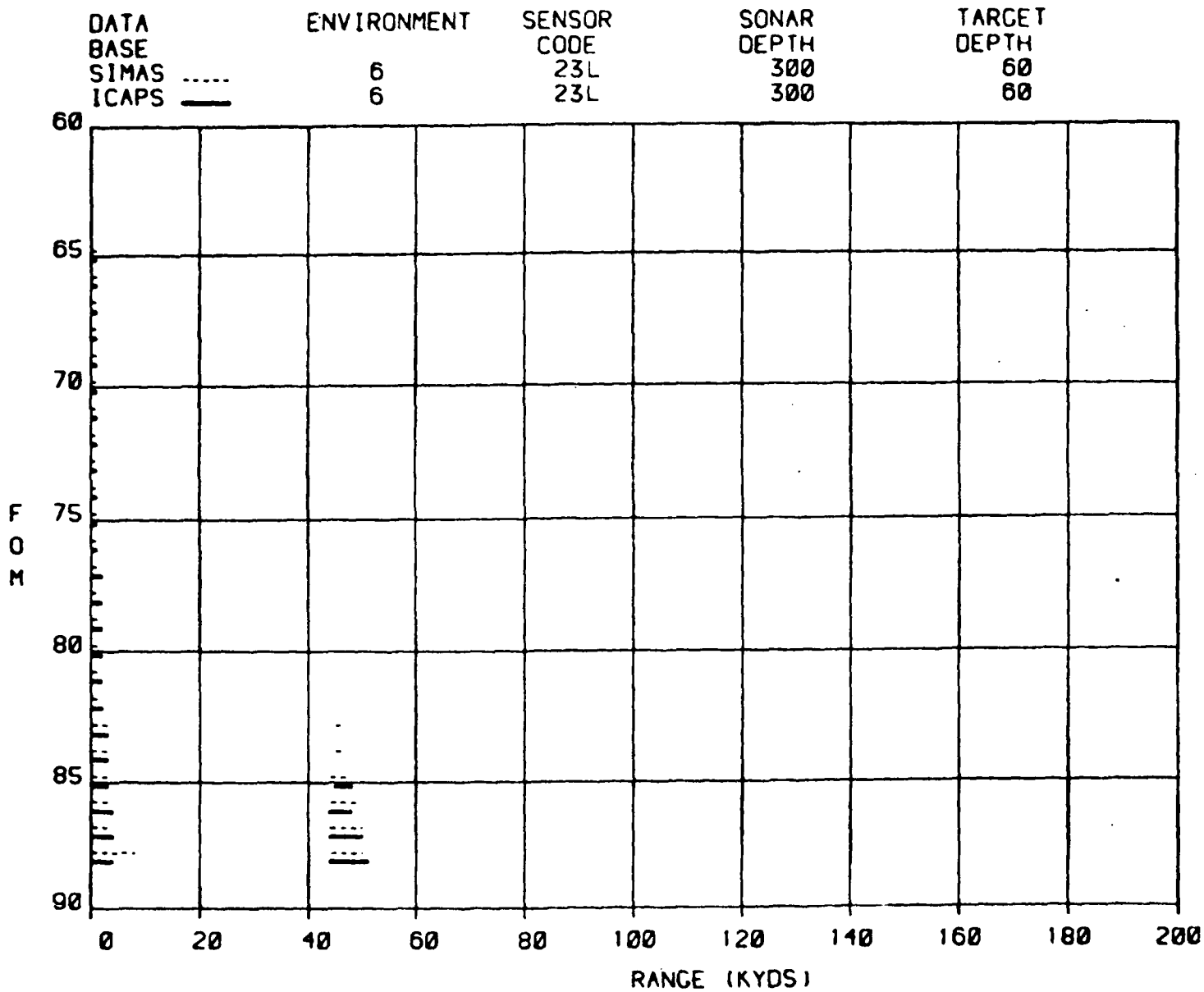

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 6 19 60 600
ICAPS ——— 6 19 60 600
75
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105
FOM
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40
60
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100
120
140
160
180
200
RANGE (KYDS)

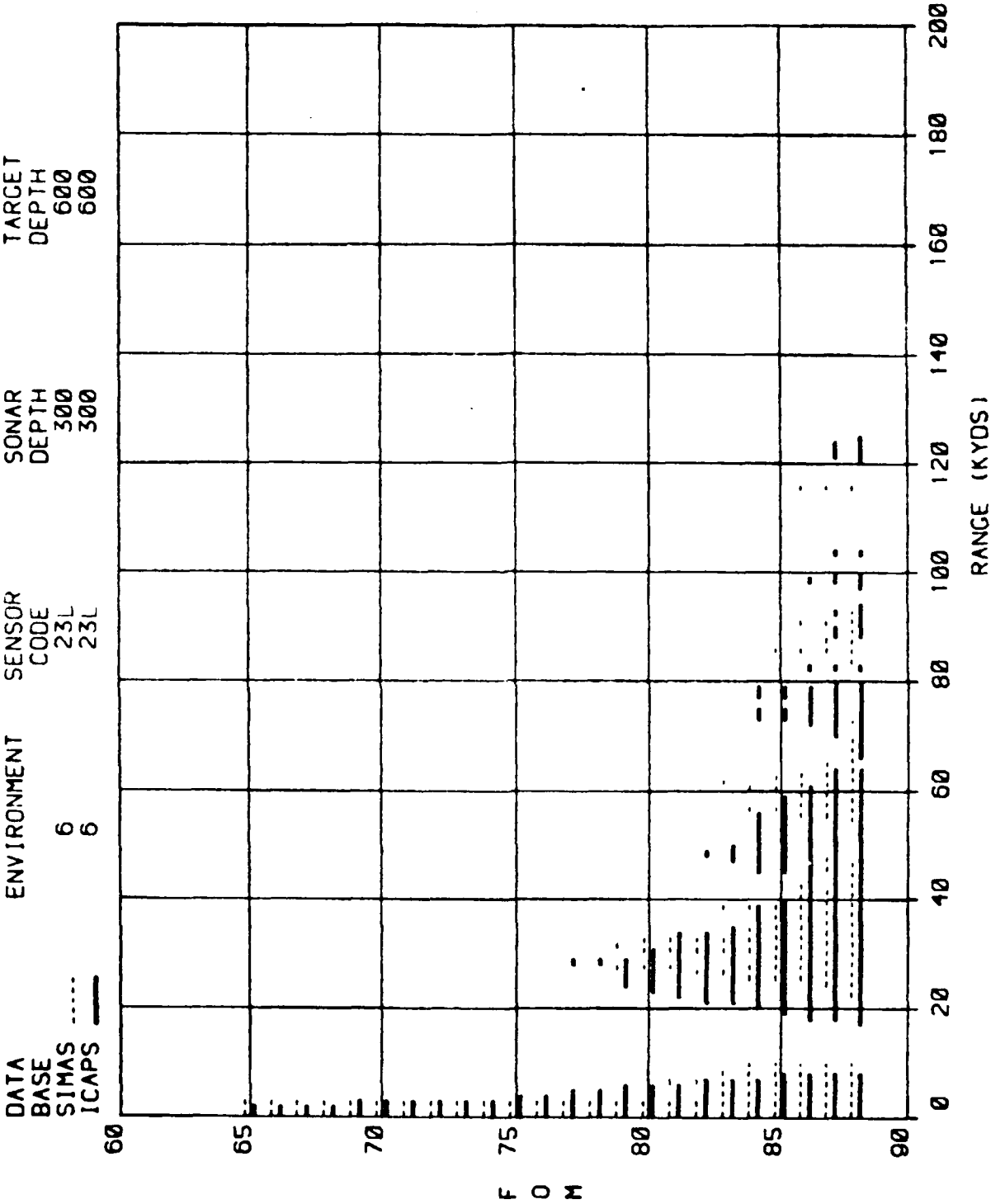

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 19 600 60
ICAPS ——— 6 19 600 60
75
80
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90
95
100
105
F O M
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20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

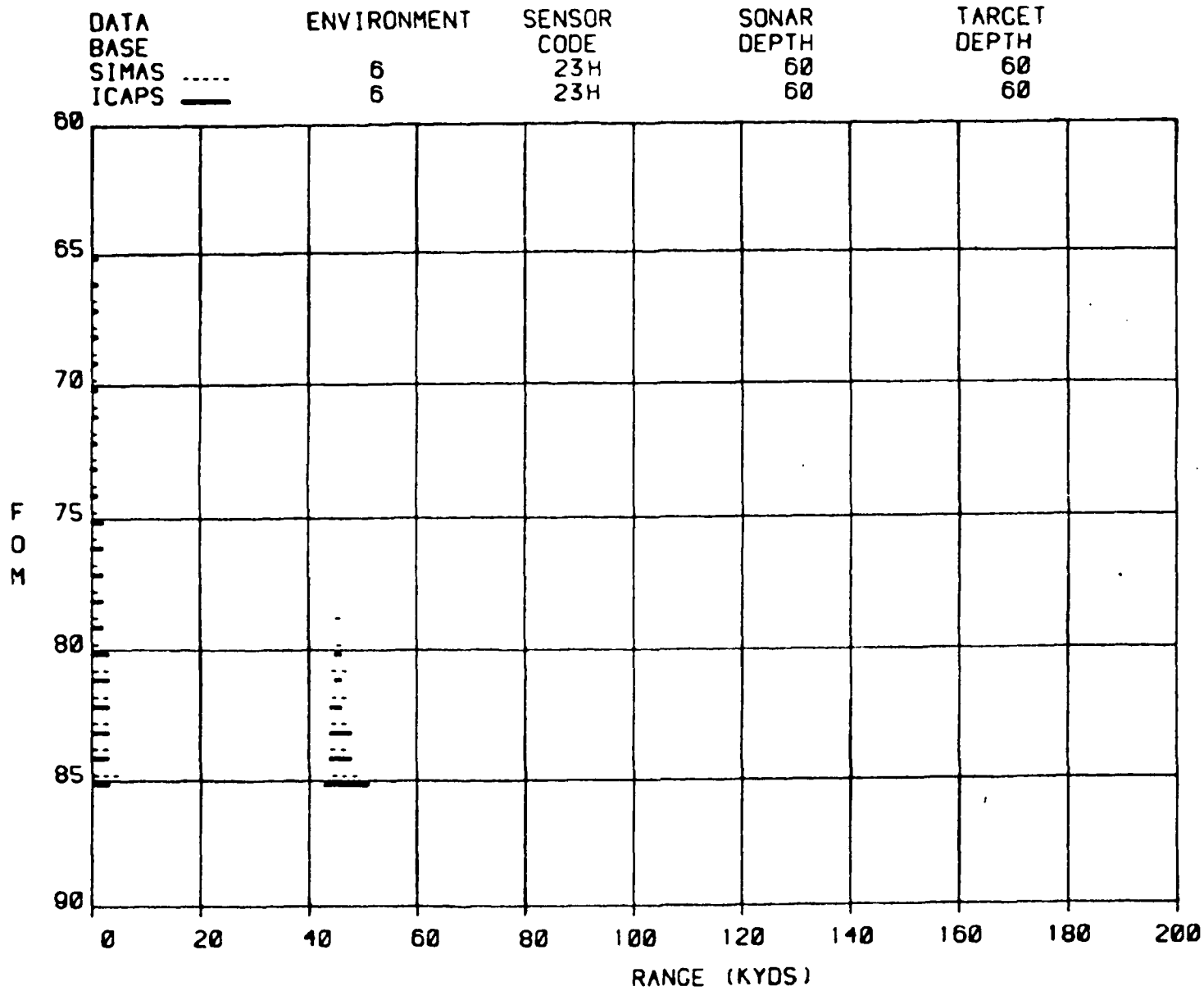

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 19 600 600
ICAPS —— 6 19 600 600
75
80
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95
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105
F O M
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40
60
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100
120
140
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180
200
RANGE (KYDS)

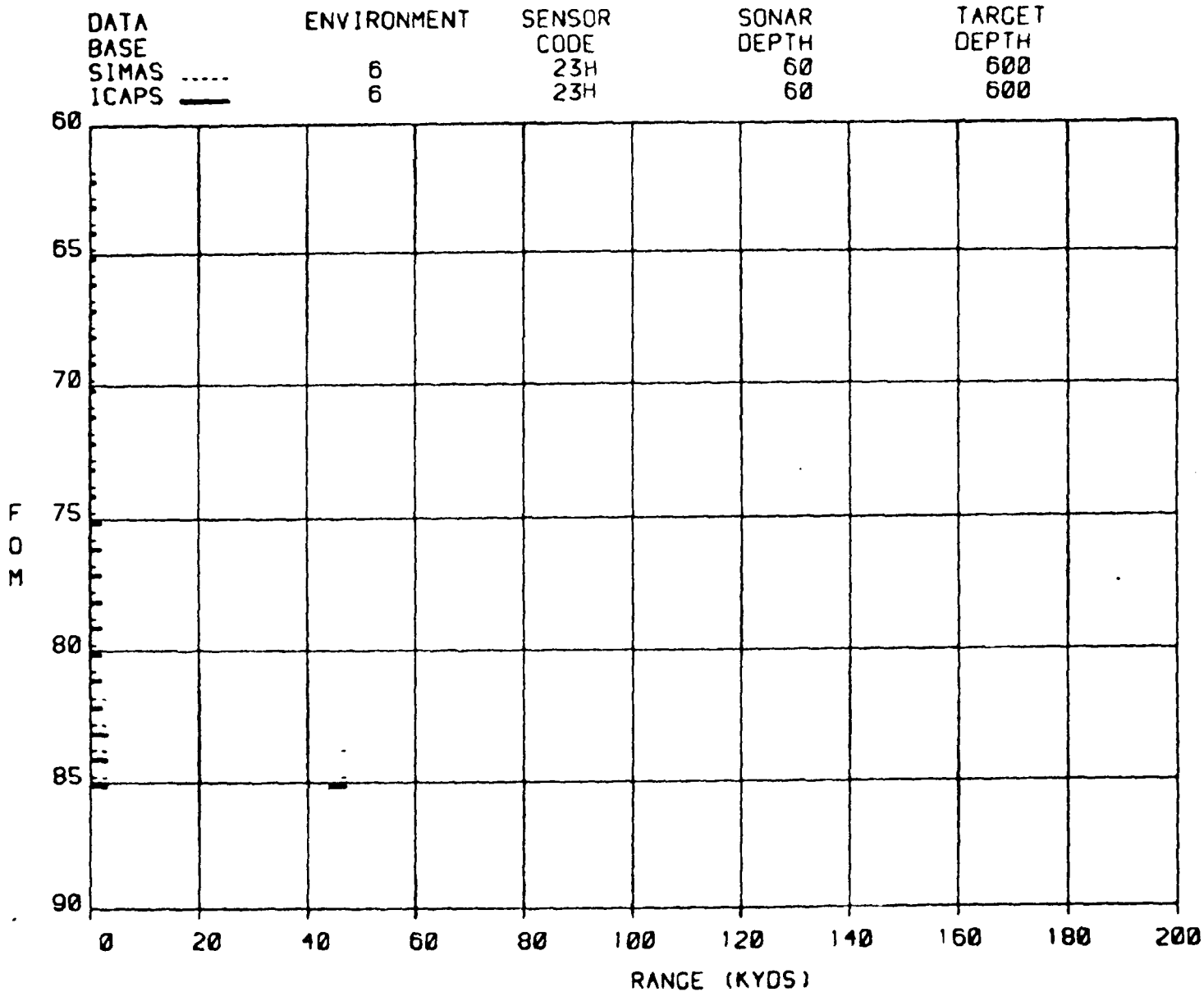

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 23L 60 60
ICAPS ——— 6 23L 60 60
60
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75
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90
FOM
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40
60
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100
120
140
160
180
200
RANGE (KYDS)

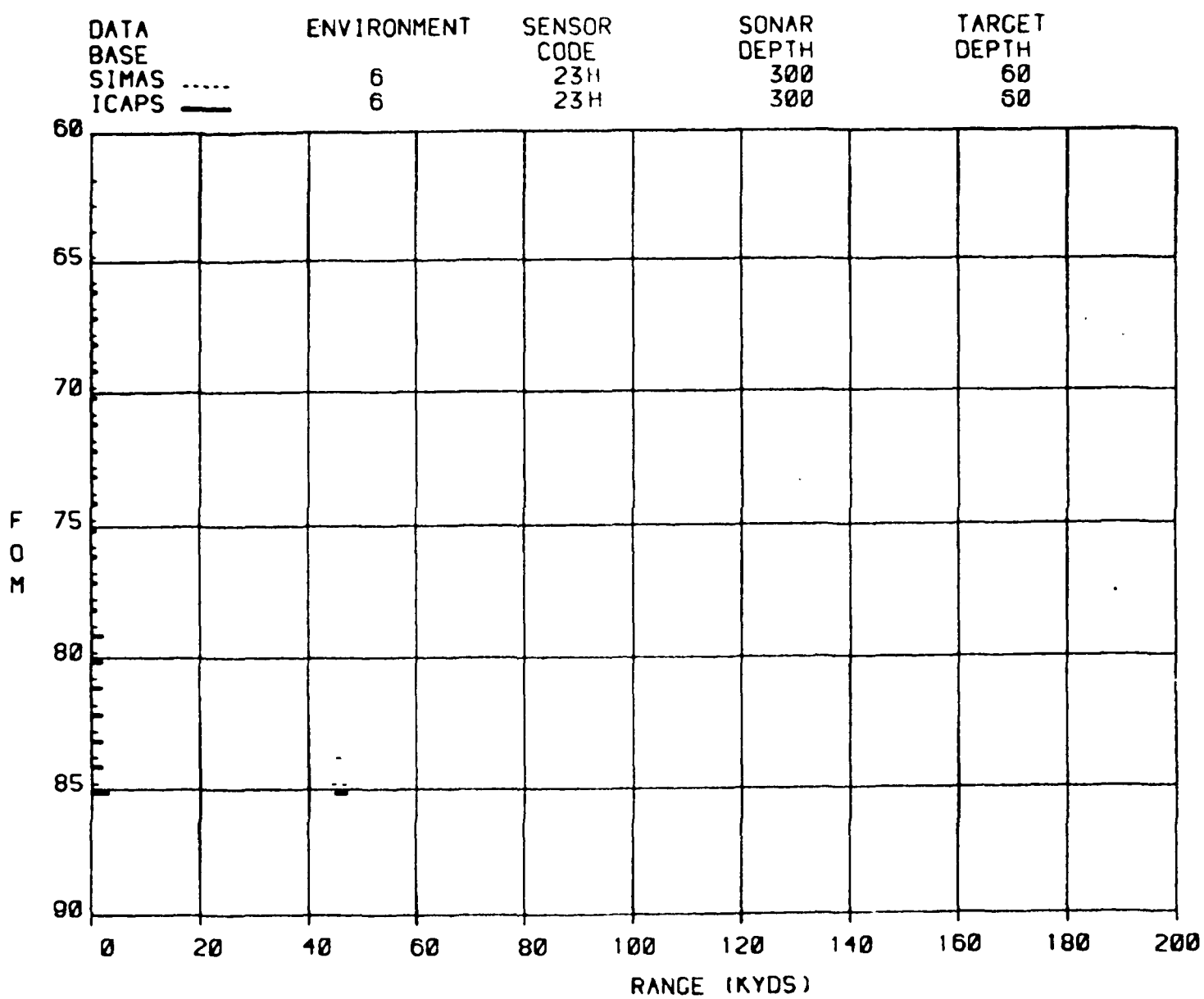

DATA
BASE
SIMAS
ICAPS
1ENT
SENSOR
CODE
23L
23L
SONAR
DEPTH
60
60
TARGET
DEPTH
600
600
60
65
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F
O
M
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100
120
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180
200
RANGE (KYDS)

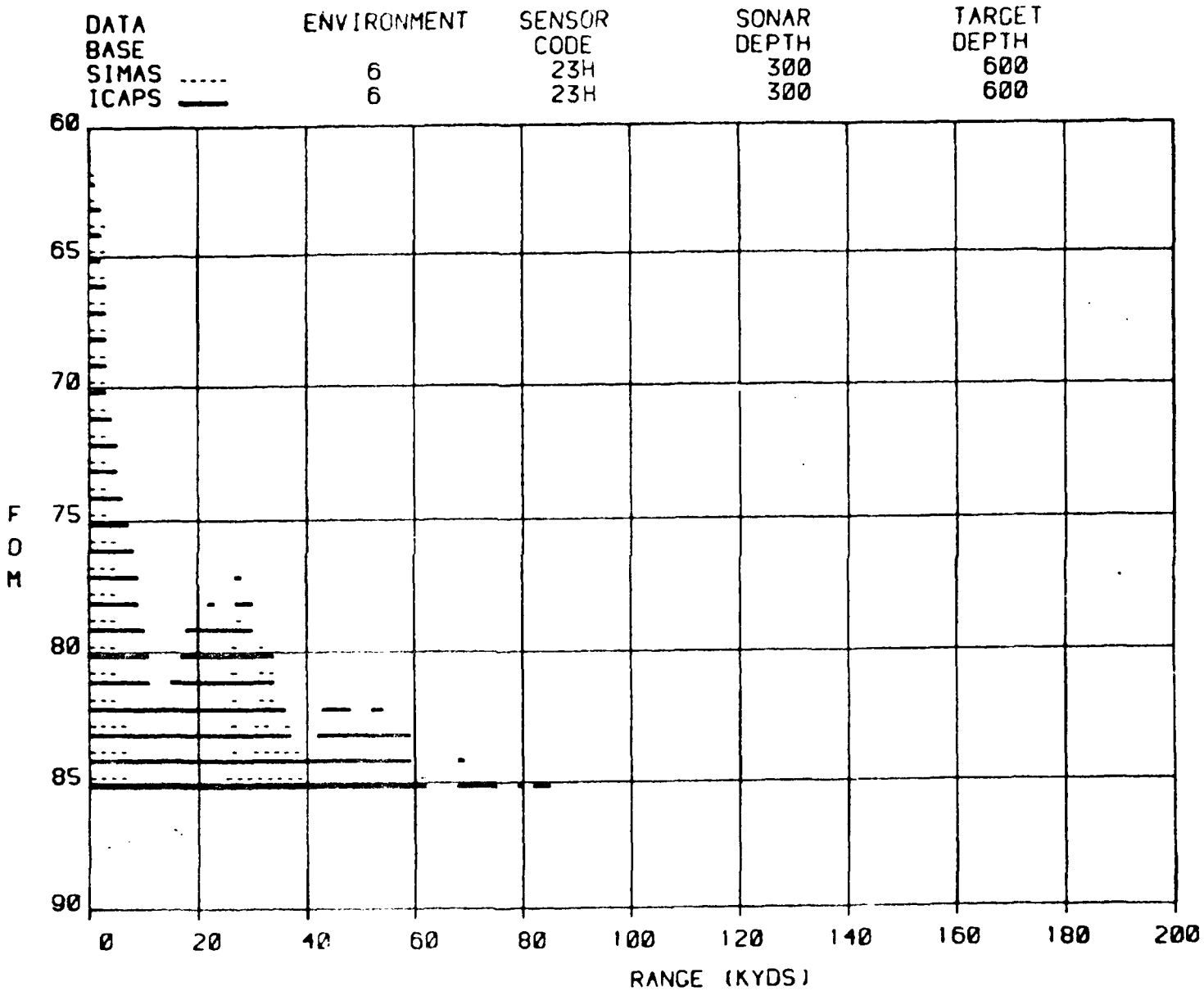

DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 23L 300 60
ICAPS —— 6 23L 300 60
60
65
70
75
80
85
90
FOM
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)


DATA BASE
SIMAS .....
ICAPS ——
ENVIRONMENT
6
6
SENSOR CODE
23L
23L
SONAR DEPTH
300
300
TARGET DEPTH
600
600
FOM
60
65
70
75
80
85
90
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)


DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 23H 60 60
ICAPS ——— 6 23H 60 60
60
65
70
75
80
85
90
FOM
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)


DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 23H 60 600
ICAPS —— 6 23H 60 600
60
65
70
75
80
85
90
F O M
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)


DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS 6 23H 300 60
ICAPS ——— 6 23H 300 50
60
65
70
75
80
85
90
FOM
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)


DATA BASE
ENVIRONMENT
SENSOR CODE
SONAR DEPTH
TARGET DEPTH
SIMAS ----- 6 23H 300 600
ICAPS —— 6 23H 300 600
60
65
70
75
80
85
90
FOM
0
20
40
60
80
100
120
140
160
180
200
RANGE (KYDS)

C. Sensor Performance Chart

1. Introduction

This section of the Acoustic Model Sensitivity to Input Data Differences report consists of sensor performance comparison tables which allow numerical comparison between the two data bases for a particular sensor/environment configuration as a function of FOM using certain measures of sensor performance. The measures which are used in the charts are described in Volume I Section C. The Propagation Loss Objective Analysis Scheme, described in the same section, was used to generate the Sensor Performance Charts. The results of this analysis are displayed as the 168 Sensor Performance Charts provided in this section.

2. Chart Description

The chart format is consistent throughout the section. The FOM values displayed in the first column are specified for each sensor and the selection process is described in Volume I Section D. The paired rows of range intervals allow immediate comparison to be made between the data bases (SIMAS and ICAPS) for each FOM value for each sensor performance measure. The width of a particular interval may be determined by reading the beginning (RN1) and ending (RN2) range. The sensitivity of a detection to FOM may be determined by looking for a similar detection range interval for FOM values less than or greater than that under consideration. These values provide the investigator with valuable, quantitative estimates of relative performance and the persistence of detections.

The measures used in the table have been described in Volume I Section C but will be repeated for convenience in using the chart.

- FOM - The range of FOM appropriate to the scenario and sensor.
- DATA - The source of environment inputs, SIMAS or ICAPS.
- RMAX - The maximum range at which FOM exceeds PL.
- RCONT - The initial continuous interval for which FOM exceeds PL.
- RTOTAL - The sum of all range intervals for which FOM exceeds PL.
- RN1 - The beginning range for the N_{th} interval for which FOM exceeds PL.
- RN2 - The ending range for the N_{th} interval for which FOM exceeds PL.

The chart displays the first six detection intervals, but the analysis routine accumulates up to 15 detection intervals. These cases may be detected when R62 has a non-zero entry which is less than RMAX. The interval will appear on the appropriate Sensor Performance Plot (Volume II Section B).

Each plot contains a header which delineates the environment, sensor code, sonar depth (feet), and target depth (feet). A full description of the environment may be found in Volume I Section B. The characteristics of the sensors including designation, frequency, vertical beamwidth, FOM interval, and nominal FOM may be found in Volume I Section D.

The performance of each sensor has been characterized as a function of data base and a written description relating observed performance differences to PL and environment differences may be found in Volume I Section F.

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 40

ITEM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
96	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0
	ICAPS	25	25	25	0	0	0	0	0	0	0	0	0	0
97	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0
	ICAPS	25	25	25	0	0	0	0	0	0	0	0	0	0
98	SIMAS	22	21	19	21	22	0	0	0	0	0	0	0	0
	ICAPS	30	28	25	28	30	0	0	0	0	0	0	0	0
99	SIMAS	22	21	19	21	22	0	0	0	0	0	0	0	0
	ICAPS	30	28	26	28	30	0	0	0	0	0	0	0	0
100	SIMAS	22	22	22	0	0	0	0	0	0	0	0	0	0
	ICAPS	30	29	26	28	30	0	0	0	0	0	0	0	0
101	SIMAS	22	22	22	0	0	0	0	0	0	0	0	0	0
	ICAPS	34	34	34	0	0	0	0	0	0	0	0	0	0
102	SIMAS	27	24	22	26	27	0	0	0	0	0	0	0	0
	ICAPS	34	34	34	0	0	0	0	0	0	0	0	0	0
103	SIMAS	27	24	22	26	27	0	0	0	0	0	0	0	0
	ICAPS	35	35	35	0	0	0	0	0	0	0	0	0	0
104	SIMAS	27	24	22	26	27	0	0	0	0	0	0	0	0
	ICAPS	43	40	35	37	38	41	43	0	0	0	0	0	0
105	SIMAS	27	24	22	26	27	0	0	0	0	0	0	0	0
	ICAPS	44	44	44	0	0	0	0	0	0	0	0	0	0
106	SIMAS	27	26	22	24	27	0	0	0	0	0	0	0	0
	ICAPS	46	46	46	0	0	0	0	0	0	0	0	0	0
107	SIMAS	27	27	27	0	0	0	0	0	0	0	0	0	0
	ICAPS	47	47	47	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 60

P	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
	SIMAS	30	29	27	29	30	0	0	0	0	0	0	0	0
	IDAPS	48	48	48	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
96	SIMAS	11	8	6	10	11	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
97	SIMAS	12	9	6	10	12	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
98	SIMAS	12	10	6	9	12	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
99	SIMAS	12	10	6	9	12	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
100	SIMAS	13	12	6	8	13	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
101	SIMAS	13	12	6	8	13	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
102	SIMAS	13	12	6	8	13	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
103	SIMAS	14	13	6	8	14	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
104	SIMAS	14	13	6	8	14	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
105	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
106	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
107	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	40	14	11	38	40	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
108	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	41	18	11	35	41	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	23	23	23	0	0	0	0	0	0	0	0	0	0
94	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	23	23	23	0	0	0	0	0	0	0	0	0	0
95	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	27	26	24	26	27	0	0	0	0	0	0	0	0
96	SIMAS	21	20	18	20	21	0	0	0	0	0	0	0	0
	ICAPS	27	26	24	26	27	0	0	0	0	0	0	0	0
97	SIMAS	21	20	18	20	21	0	0	0	0	0	0	0	0
	ICAPS	28	28	28	0	0	0	0	0	0	0	0	0	0
98	SIMAS	21	20	18	20	21	0	0	0	0	0	0	0	0
	ICAPS	28	28	28	0	0	0	0	0	0	0	0	0	0
99	SIMAS	21	21	21	0	0	0	0	0	0	0	0	0	0
	ICAPS	31	31	31	0	0	0	0	0	0	0	0	0	0
100	SIMAS	21	21	21	0	0	0	0	0	0	0	0	0	0
	ICAPS	32	32	32	0	0	0	0	0	0	0	0	0	0
101	SIMAS	26	23	21	25	26	0	0	0	0	0	0	0	0
	ICAPS	32	32	32	0	0	0	0	0	0	0	0	0	0
102	SIMAS	26	23	21	25	26	0	0	0	0	0	0	0	0
	ICAPS	32	32	32	0	0	0	0	0	0	0	0	0	0
103	SIMAS	26	23	21	25	26	0	0	0	0	0	0	0	0
	ICAPS	33	33	33	0	0	0	0	0	0	0	0	0	0
104	SIMAS	26	23	21	25	26	0	0	0	0	0	0	0	0
	ICAPS	36	36	36	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	26	23	21	25	26	0	0	0	0	0	0	0	0
	ICAPS	36	36	36	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
94	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
95	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
96	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
97	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
98	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
99	SIMAS	12	8	6	11	12	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
100	SIMAS	12	9	6	10	12	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
101	SIMAS	12	9	6	10	12	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
102	SIMAS	13	10	6	10	13	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
103	SIMAS	13	10	6	10	13	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
104	SIMAS	13	10	6	10	13	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0

ENVIRONMENT 1 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 600

SENSOR PERFORMANCE CHART (CONT.)

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	14	12	6	9	14	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	[illegible]	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
94	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
95	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
96	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
97	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
98	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
99	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
100	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
101	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
102	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
103	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
104	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	14	6	3	12	14	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
94	SIMAS	15	7	3	12	15	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
95	SIMAS	15	9	4	11	15	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
96	SIMAS	15	9	4	11	15	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
97	SIMAS	15	9	4	11	15	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
98	SIMAS	15	9	4	11	15	0	0	0	0	0	0	0	0
	ICAPS	50	10	8	47	50	0	0	0	0	0	0	0	0
99	SIMAS	15	10	5	11	15	0	0	0	0	0	0	0	0
	ICAPS	50	11	9	49	50	0	0	0	0	0	0	0	0
100	SIMAS	15	10	5	11	15	0	0	0	0	0	0	0	0
	ICAPS	50	11	9	49	50	0	0	0	0	0	0	0	0
101	SIMAS	15	10	5	11	15	0	0	0	0	0	0	0	0
	ICAPS	50	12	10	49	50	0	0	0	0	0	0	0	0
102	SIMAS	16	13	6	10	16	0	0	0	0	0	0	0	0
	ICAPS	50	14	10	47	50	0	0	0	0	0	0	0	0
103	SIMAS	16	15	7	9	16	0	0	0	0	0	0	0	0
	ICAPS	50	15	11	47	50	0	0	0	0	0	0	0	0
104	SIMAS	16	15	7	9	16	0	0	0	0	0	0	0	0
	ICAPS	51	17	12	47	51	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	51	18	13	47	51	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 20
SENSOR 7 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
81	SIMAS	19	18	16	18	19	0	0	0	0	0	0	0	0
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0
82	SIMAS	20	19	16	18	20	0	0	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0
83	SIMAS	21	20	16	18	21	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0
84	SIMAS	21	21	21	0	0	0	0	0	0	0	0	0	0
	ICAPS	19	19	19	0	0	0	0	0	0	0	0	0	0
85	SIMAS	24	24	24	0	0	0	0	0	0	0	0	0	0
	ICAPS	21	21	21	0	0	0	0	0	0	0	0	0	0
86	SIMAS	28	26	24	27	28	0	0	0	0	0	0	0	0
	ICAPS	23	23	23	0	0	0	0	0	0	0	0	0	0
87	SIMAS	28	27	25	27	28	0	0	0	0	0	0	0	0
	ICAPS	26	26	26	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 20
SENSOR 7 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
81	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
82	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
83	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
84	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
85	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
86	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
87	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 60
SENSOR 9 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	37	37	37	0	0	0	0	0	0	0	0	0	0
	ICAPS	42	42	42	0	0	0	0	0	0	0	0	0	0
94	SIMAS	37	37	37	0	0	0	0	0	0	0	0	0	0
	ICAPS	45	45	45	0	0	0	0	0	0	0	0	0	0
95	SIMAS	37	37	37	0	0	0	0	0	0	0	0	0	0
	ICAPS	47	47	47	0	0	0	0	0	0	0	0	0	0
96	SIMAS	43	39	37	42	43	0	0	0	0	0	0	0	0
	ICAPS	49	49	49	0	0	0	0	0	0	0	0	0	0
97	SIMAS	43	41	38	41	43	0	0	0	0	0	0	0	0
	ICAPS	52	52	52	0	0	0	0	0	0	0	0	0	0
98	SIMAS	44	44	44	0	0	0	0	0	0	0	0	0	0
	ICAPS	54	54	54	0	0	0	0	0	0	0	0	0	0
99	SIMAS	45	45	45	0	0	0	0	0	0	0	0	0	0
	ICAPS	56	56	56	0	0	0	0	0	0	0	0	0	0
100	SIMAS	45	45	45	0	0	0	0	0	0	0	0	0	0
	ICAPS	58	58	58	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 60
SENSOR 9 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
94	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
95	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
96	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
97	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
98	SIMAS	14	11	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
99	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
100	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	39	15	12	37	39	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 600
SENSOR 9 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
94	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
95	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
96	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
97	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
98	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
99	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
100	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 600
SENSOR 9 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	50	12	10	49	50	0	0	0	0	0	0	0	0
94	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	50	15	11	47	50	0	0	0	0	0	0	0	0
95	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	50	16	12	47	50	0	0	0	0	0	0	0	0
96	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	50	16	12	47	50	0	0	0	0	0	0	0	0
97	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	51	18	13	47	51	0	0	0	0	0	0	0	0
98	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	51	20	14	46	51	0	0	0	0	0	0	0	0
99	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	52	22	15	46	52	0	0	0	0	0	0	0	0
100	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	52	22	15	46	52	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
76	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
77	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
79	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
80	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
82	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
83	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
84	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
87	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
88	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
89	SIMAS	21	21	21	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
90	SIMAS	22	22	22	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
91	SIMAS	23	23	23	0	0	0	0	0	0	0	0	0	0
	ICAPS	47	15	8	40	47	0	0	0	0	0	0	0	0
92	SIMAS	24	24	24	0	0	0	0	0	0	0	0	0	0
	ICAPS	49	22	8	36	49	0	0	0	0	0	0	0	0
93	SIMAS	26	26	26	0	0	0	0	0	0	0	0	0	0
	ICAPS	51	27	8	33	51	0	0	0	0	0	0	0	0
94	SIMAS	28	28	28	0	0	0	0	0	0	0	0	0	0
	ICAPS	52	31	8	30	52	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
78	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
80	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
82	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
83	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
84	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
87	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
88	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
89	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
90	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0
91	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0
	ICAPS	14	14	14	0	0	0	0	0	0	0	0	0	0
92	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0
93	SIMAS	21	21	21	0	0	0	0	0	0	0	0	0	0
	ICAPS	41	22	16	36	41	0	0	0	0	0	0	0	0
94	SIMAS	23	23	23	0	0	0	0	0	0	0	0	0	0
	ICAPS	42	28	17	32	42	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
79	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
80	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
82	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
83	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
84	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
87	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
88	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
89	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
90	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
91	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
92	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
93	SIMAS	21	21	21	0	0	0	0	0	0	0	0	0	0
	ICAPS	42	20	12	35	42	0	0	0	0	0	0	0	0
94	SIMAS	22	22	22	0	0	0	0	0	0	0	0	0	0
	ICAPS	43	25	12	31	43	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
78	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	13	8	6	12	13	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
80	SIMAS	13	11	9	12	13	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
82	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
83	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
84	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
85	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
87	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
88	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
89	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
90	SIMAS	26	18	16	25	26	0	0	0	0	0	0	0	0
	ICAPS	44	13	11	43	44	0	0	0	0	0	0	0	0
91	SIMAS	26	19	17	25	26	0	0	0	0	0	0	0	0
	ICAPS	45	15	12	43	45	0	0	0	0	0	0	0	0
92	SIMAS	27	21	18	25	27	0	0	0	0	0	0	0	0
	ICAPS	46	19	12	40	46	0	0	0	0	0	0	0	0
93	SIMAS	27	23	18	23	27	0	0	0	0	0	0	0	0
	ICAPS	47	21	13	40	47	0	0	0	0	0	0	0	0
94	SIMAS	28	25	19	23	28	0	0	0	0	0	0	0	0
	ICAPS	47	28	15	34	38	40	47	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
81	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
83	SIMAS	22	22	22	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
84	SIMAS	23	23	23	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
85	SIMAS	25	25	25	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
86	SIMAS	28	28	28	0	0	0	0	0	0	0	0	0	0
	ICAPS	14	13	9	11	14	0	0	0	0	0	0	0	0
87	SIMAS	31	31	31	0	0	0	0	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0
88	SIMAS	31	31	31	0	0	0	0	0	0	0	0	0	0
	ICAPS	21	21	21	0	0	0	0	0	0	0	0	0	0
89	SIMAS	32	32	32	0	0	0	0	0	0	0	0	0	0
	ICAPS	41	29	25	36	37	40	41	0	0	0	0	0	0
90	SIMAS	37	35	32	35	37	0	0	0	0	0	0	0	0
	ICAPS	45	43	32	35	45	0	0	0	0	0	0	0	0
91	SIMAS	40	39	33	35	40	0	0	0	0	0	0	0	0
	ICAPS	50	50	50	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	42	42	42	0	0	0	0	0	0	0	0	0	0
	ICAPS	51	51	51	0	0	0	0	0	0	0	0	0	0
93	SIMAS	46	46	46	0	0	0	0	0	0	0	0	0	0
	ICAPS	54	54	54	0	0	0	0	0	0	0	0	0	0
94	SIMAS	47	47	47	0	0	0	0	0	0	0	0	0	0
	ICAPS	57	57	57	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
82	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
83	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
84	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
86	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
87	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
88	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
89	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
90	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
91	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
93	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAPS	40	16	12	[illegible]	40	0	0	0	0	0	0	0	0
94	SIMAS	22	22	22	0	0	0	0	0	0	0	0	0	0
	ICAPS	41	22	12	[illegible]	41	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
82	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
83	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
84	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
86	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
87	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
88	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
89	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
90	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
91	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
93	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAPS	40	15	12	38	40	0	0	0	0	0	0	0	0
94	SIMAS	21	21	21	0	0	0	0	0	0	0	0	0	0
	ICAPS	41	21	12	33	41	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	15	14	9	11	15	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
81	SIMAS	15	14	9	11	15	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
82	SIMAS	15	14	9	11	15	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
83	SIMAS	15	14	9	11	15	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
84	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
85	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
86	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	48	10	8	47	48	0	0	0	0	0	0	0	0
87	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	48	10	8	47	48	0	0	0	0	0	0	0	0
88	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	49	13	9	46	49	0	0	0	0	0	0	0	0
89	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	49	16	10	44	49	0	0	0	0	0	0	0	0
90	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	49	16	10	44	49	0	0	0	0	0	0	0	0
91	SIMAS	28	22	17	24	28	0	0	0	0	0	0	0	0
	ICAPS	50	18	11	44	50	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	28	23	18	24	28	0	0	0	0	0	0	0	0
	ICAPS	51	21	12	43	51	0	0	0	0	0	0	0	0
93	SIMAS	28	24	19	24	28	0	0	0	0	0	0	0	0
	ICAPS	51	22	13	43	51	0	0	0	0	0	0	0	0
94	SIMAS	28	24	19	24	28	0	0	0	0	0	0	0	0
	ICAPS	51	27	14	37	38	41	51	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 60
SENSOR 23 L TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
74	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 60
SENSOR 23 L TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	12	11	9	11	12	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
81	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
83	SIMAS	22	22	22	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
84	SIMAS	23	23	23	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
85	SIMAS	25	25	25	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
86	SIMAS	28	28	28	0	0	0	0	0	0	0	0	0	0
	ICAPS	14	13	9	11	14	0	0	0	0	0	0	0	0
87	SIMAS	31	31	31	0	0	0	0	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0
88	SIMAS	31	31	31	0	0	0	0	0	0	0	0	0	0
	ICAPS	21	21	21	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 60
SENSOR 23 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 60
SENSOR 23 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
80	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
82	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
83	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
84	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
86	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
87	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
88	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 300
SENSOR 23 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 300
SENSOR 23 TARGET DEPTH 60

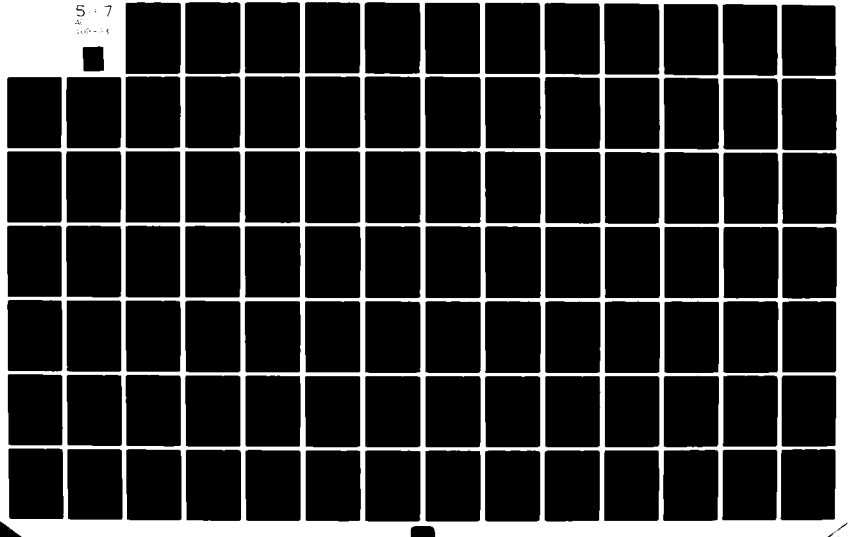
FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
78	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
79	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
80	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
81	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
82	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
83	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
84	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
86	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
[illegible]	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
[illegible]	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0

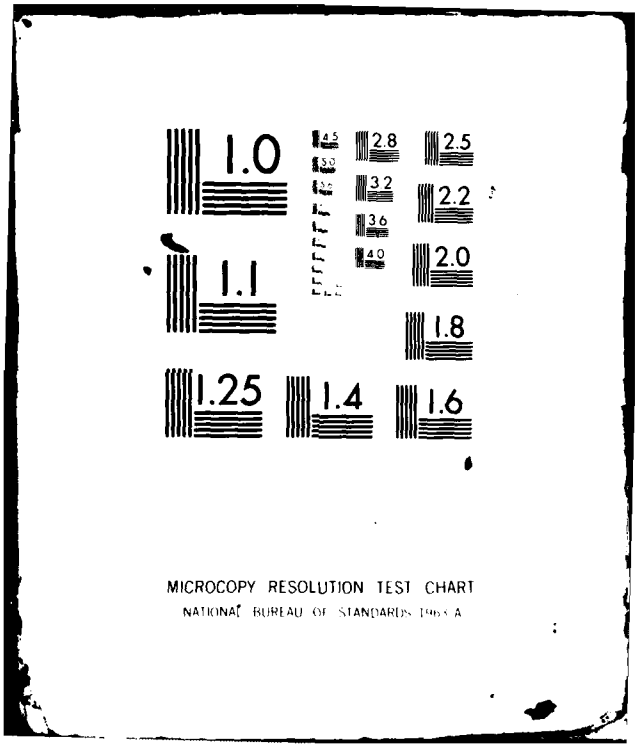
SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 300
SENSOR 23 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

AD-A098 932 NAVAL OCEAN RESEARCH AND DEVELOPMENT ACTIVITY NSTL S--ETC F/G 20/1
ACOUSTIC MODEL SENSITIVITY TO INPUT DATA DIFFERENCES: OBJECTIVE--ETC(U)
SEP 80 B A BRUNSON
UNCLASSIFIED NORDA-TN-73-VOL-2 NL




1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
4.5
5.0
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963 A

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 300
SENSOR 23 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
78	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
80	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
82	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
83	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
84	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
86	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
87	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
88	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 60
SENSOR 23H TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 60
SENSOR 23 H TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
80	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
81	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	9	7	9	10	0	0	0	0	0	0	0	0
82	SIMAS	20	19	17	19	20	0	0	0	0	0	0	0	0
	ICAPS	13	12	7	9	13	0	0	0	0	0	0	0	0
83	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAPS	13	12	7	9	13	0	0	0	0	0	0	0	0
84	SIMAS	22	22	22	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	16	13	15	17	0	0	0	0	0	0	0	0
85	SIMAS	24	24	24	0	0	0	0	0	0	0	0	0	0
	ICAPS	21	21	21	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 60
SENSOR 23H TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 60
SENSOR 23H TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
80	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
82	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
83	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
84	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 300
SENSOR 23H TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 300
SENSOR 23H TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
78	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
79	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
80	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
81	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
82	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
83	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
84	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 300
SENSOR 23H TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 300
SENSOR 23H TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
80	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
82	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
83	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
84	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
96	SIMAS	23	18	15	21	23	0	0	0	0	0	0	0	0
	ICAPS	41	16	3	25	26	28	36	40	41	0	0	0	0
97	SIMAS	23	20	17	21	23	0	0	0	0	0	0	0	0
	ICAPS	41	17	3	25	26	28	37	40	41	0	0	0	0
98	SIMAS	23	21	17	20	23	0	0	0	0	0	0	0	0
	ICAPS	41	18	3	25	26	28	37	39	41	0	0	0	0
99	SIMAS	23	21	17	20	23	0	0	0	0	0	0	0	0
	ICAPS	41	18	3	25	26	28	37	39	41	0	0	0	0
100	SIMAS	26	25	17	19	26	0	0	0	0	0	0	0	0
	ICAPS	41	18	3	25	26	28	37	39	41	0	0	0	0
101	SIMAS	26	25	17	19	26	0	0	0	0	0	0	0	0
	ICAPS	41	18	3	25	26	28	37	39	41	0	0	0	0
102	SIMAS	47	28	26	46	47	0	0	0	0	0	0	0	0
	ICAPS	50	22	3	25	41	49	50	0	0	0	0	0	0
103	SIMAS	47	28	26	46	47	0	0	0	0	0	0	0	0
	ICAPS	50	22	3	25	41	49	50	0	0	0	0	0	0
104	SIMAS	47	29	27	46	47	0	0	0	0	0	0	0	0
	ICAPS	50	24	3	25	43	49	50	0	0	0	0	0	0
105	SIMAS	47	29	27	46	47	0	0	0	0	0	0	0	0
	ICAPS	50	27	3	25	46	49	50	0	0	0	0	0	0
106	SIMAS	47	29	27	46	47	0	0	0	0	0	0	0	0
	ICAPS	50	27	3	25	46	49	50	0	0	0	0	0	0
107	SIMAS	47	29	27	46	47	0	0	0	0	0	0	0	0
	ICAPS	53	29	3	25	46	49	50	52	53	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
108	SIMAS	47	30	28	46	47	0	0	0	0	0	0	0	0
	ICAPS	56	31	3	25	46	49	50	52	53	55	56	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
96	SIMAS	42	9	6	40	42	0	0	0	0	0	0	0	0
	ICAPS	39	20	6	20	27	31	34	38	39	0	0	0	0
97	SIMAS	42	9	6	40	42	0	0	0	0	0	0	0	0
	ICAPS	39	23	6	20	27	30	36	38	39	0	0	0	0
98	SIMAS	42	9	6	40	42	0	0	0	0	0	0	0	0
	ICAPS	40	25	6	20	27	29	36	38	40	0	0	0	0
99	SIMAS	42	9	6	40	42	0	0	0	0	0	0	0	0
	ICAPS	40	27	6	20	40	0	0	0	0	0	0	0	0
100	SIMAS	42	9	6	40	42	0	0	0	0	0	0	0	0
	ICAPS	40	27	6	20	40	0	0	0	0	0	0	0	0
101	SIMAS	42	9	6	40	42	0	0	0	0	0	0	0	0
	ICAPS	40	27	6	20	40	0	0	0	0	0	0	0	0
102	SIMAS	42	9	6	40	42	0	0	0	0	0	0	0	0
	ICAPS	40	28	7	20	40	0	0	0	0	0	0	0	0
103	SIMAS	45	12	6	40	45	0	0	0	0	0	0	0	0
	ICAPS	40	28	7	20	40	0	0	0	0	0	0	0	0
104	SIMAS	45	12	6	40	45	0	0	0	0	0	0	0	0
	ICAPS	41	29	7	20	41	0	0	0	0	0	0	0	0
105	SIMAS	47	14	6	40	47	0	0	0	0	0	0	0	0
	ICAPS	46	31	7	20	41	45	46	0	0	0	0	0	0
106	SIMAS	47	14	6	40	47	0	0	0	0	0	0	0	0
	ICAPS	46	33	7	20	41	43	46	0	0	0	0	0	0
107	SIMAS	48	15	6	40	48	0	0	0	0	0	0	0	0
	ICAPS	49	36	7	20	46	48	49	0	0	0	0	0	0

ENVIRONMENT 2 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 600

SENSOR PERFORMANCE CHART (CONT.)

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
108	SIMAS	48	15	6	40	48	0	0	0	0	0	0	0	0
	ICAPS	49	36	7	20	46	48	49	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	29	9	3	24	29	0	0	0	0	0	0	0	0
94	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	29	9	3	24	29	0	0	0	0	0	0	0	0
95	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	35	13	3	24	30	33	35	0	0	0	0	0	0
96	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	35	13	3	24	30	33	35	0	0	0	0	0	0
97	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	35	13	3	24	30	33	35	0	0	0	0	0	0
98	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	35	14	3	24	30	32	35	0	0	0	0	0	0
99	SIMAS	21	20	17	19	21	0	0	0	0	0	0	0	0
	ICAPS	41	18	3	24	36	40	41	0	0	0	0	0	0
100	SIMAS	26	25	17	19	26	0	0	0	0	0	0	0	0
	ICAPS	41	19	3	24	37	40	41	0	0	0	0	0	0
101	SIMAS	26	25	17	19	26	0	0	0	0	0	0	0	0
	ICAPS	41	20	3	24	37	39	41	0	0	0	0	0	0
102	SIMAS	26	25	17	19	26	0	0	0	0	0	0	0	0
	ICAPS	41	20	3	24	37	39	41	0	0	0	0	0	0
103	SIMAS	26	25	17	19	26	0	0	0	0	0	0	0	0
	ICAPS	41	20	3	24	37	39	41	0	0	0	0	0	0
104	SIMAS	27	26	17	19	27	0	0	0	0	0	0	0	0
	ICAPS	41	20	3	24	37	39	41	0	0	0	0	0	0

ENVIRONMENT 2 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 60

SENSOR PERFORMANCE CHART (CONT.)

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	27	26	17	19	27	0	0	0	0	0	0	0	0
	ICAPS	41	20	3	24	37	39	41	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0
	ICAPS	21	7	5	20	21	0	0	0	0	0	0	0	0
94	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0
	ICAPS	21	7	5	20	21	0	0	0	0	0	0	0	0
95	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0
	ICAPS	33	12	5	20	22	26	27	32	33	0	0	0	0
96	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0
	ICAPS	33	14	5	20	22	24	27	32	33	0	0	0	0
97	SIMAS	41	9	6	39	41	0	0	0	0	0	0	0	0
	ICAPS	33	16	5	20	27	31	33	0	0	0	0	0	0
98	SIMAS	43	11	6	39	43	0	0	0	0	0	0	0	0
	ICAPS	33	18	6	20	28	31	33	0	0	0	0	0	0
99	SIMAS	43	11	6	39	43	0	0	0	0	0	0	0	0
	ICAPS	34	20	6	20	28	30	34	0	0	0	0	0	0
100	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0
	ICAPS	36	23	7	20	28	30	36	0	0	0	0	0	0
101	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0
	ICAPS	36	25	8	20	36	0	0	0	0	0	0	0	0
102	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0
	ICAPS	36	25	8	20	36	0	0	0	0	0	0	0	0
103	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0
	ICAPS	36	25	8	20	36	0	0	0	0	0	0	0	0
104	SIMAS	44	13	7	39	44	0	0	0	0	0	0	0	0
	ICAPS	36	25	8	20	36	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	44	13	7	39	44	0	0	0	0	0	0	0	0
	ICAPS	40	29	8	20	40	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
94	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
95	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
96	SIMAS	43	11	6	39	43	0	0	0	0	0	0	0	0
	ICAPS	21	7	5	20	21	0	0	0	0	0	0	0	0
97	SIMAS	43	11	6	39	43	0	0	0	0	0	0	0	0
	ICAPS	21	7	5	20	21	0	0	0	0	0	0	0	0
98	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0
	ICAPS	21	7	5	20	21	0	0	0	0	0	0	0	0
99	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0
	ICAPS	33	10	5	20	22	32	33	0	0	0	0	0	0
100	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0
	ICAPS	33	12	5	20	22	26	27	32	33	0	0	0	0
101	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0
	ICAPS	33	15	5	20	27	32	33	0	0	0	0	0	0
102	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0
	ICAPS	33	17	6	20	27	31	33	0	0	0	0	0	0
103	SIMAS	44	13	7	39	44	0	0	0	0	0	0	0	0
	ICAPS	33	18	6	20	28	31	33	0	0	0	0	0	0
104	SIMAS	44	13	7	39	44	0	0	0	0	0	0	0	0
	ICAPS	36	22	6	20	28	30	36	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	45	14	7	39	45	0	0	0	0	0	0	0	0
	ICAPS	36	23	7	20	28	30	36	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	39	12	6	8	9	35	36	38	39	0	0	0	0
	ICAPS	65	53	44	50	54	62	65	0	0	0	0	0	0
94	SIMAS	39	13	6	8	10	35	36	38	39	0	0	0	0
	ICAPS	65	54	45	50	54	62	65	0	0	0	0	0	0
95	SIMAS	39	13	6	8	10	35	36	38	39	0	0	0	0
	ICAPS	65	55	45	50	55	62	65	0	0	0	0	0	0
96	SIMAS	39	14	6	8	10	35	39	0	0	0	0	0	0
	ICAPS	78	60	46	50	55	62	65	67	68	77	78	0	0
97	SIMAS	39	15	6	8	11	35	39	0	0	0	0	0	0
	ICAPS	78	68	46	48	55	60	68	74	78	0	0	0	0
98	SIMAS	39	16	11	35	39	0	0	0	0	0	0	0	0
	ICAPS	89	72	46	48	57	60	68	74	78	88	89	0	0
99	SIMAS	39	17	12	35	39	0	0	0	0	0	0	0	0
	ICAPS	91	78	58	60	69	73	78	88	91	0	0	0	0
100	SIMAS	40	18	12	35	40	0	0	0	0	0	0	0	0
	ICAPS	91	78	58	60	69	73	78	88	91	0	0	0	0
101	SIMAS	40	18	12	35	40	0	0	0	0	0	0	0	0
	ICAPS	102	82	69	72	78	88	91	101	102	0	0	0	0
102	SIMAS	43	21	13	35	40	42	43	0	0	0	0	0	0
	ICAPS	102	88	70	72	81	87	91	100	102	0	0	0	0
103	SIMAS	43	21	13	35	40	42	43	0	0	0	0	0	0
	ICAPS	102	90	70	72	83	87	91	100	102	0	0	0	0
104	SIMAS	43	21	13	35	40	42	43	0	0	0	0	0	0
	ICAPS	102	90	70	72	83	87	91	100	102	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	43	21	13	35	40	42	43	0	0	0	0	0	0
	ICAPS	102	94	83	87	94	100	102	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 20
SENSOR 7 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
81	SIMAS	13	12	5	7	13	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
82	SIMAS	13	12	5	7	13	0	0	0	0	0	0	0	0
	ICAPS	24	4	2	23	24	0	0	0	0	0	0	0	0
83	SIMAS	13	12	5	7	13	0	0	0	0	0	0	0	0
	ICAPS	35	6	2	23	24	34	35	0	0	0	0	0	0
84	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	35	9	2	23	24	26	27	33	35	0	0	0	0
85	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	35	9	2	23	24	26	27	33	35	0	0	0	0
86	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	35	9	2	23	24	26	27	33	35	0	0	0	0
87	SIMAS	45	20	14	17	18	21	22	44	45	0	0	0	0
	ICAPS	36	12	2	23	27	32	36	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 20
SENSOR 7 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
81	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	33	6	4	32	33	0	0	0	0	0	0	0	0
83	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	33	6	4	32	33	0	0	0	0	0	0	0	0
84	SIMAS	41	9	6	39	41	0	0	0	0	0	0	0	0
	ICAPS	33	6	4	32	33	0	0	0	0	0	0	0	0
85	SIMAS	44	11	6	39	41	43	44	0	0	0	0	0	0
	ICAPS	33	6	4	32	33	0	0	0	0	0	0	0	0
86	SIMAS	44	11	6	39	41	43	44	0	0	0	0	0	0
	ICAPS	33	8	6	32	33	0	0	0	0	0	0	0	0
87	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0
	ICAPS	34	11	6	20	21	32	34	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 60
SENSOR 9 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	48	29	18	20	22	24	26	44	48	0	0	0	0
	ICAPS	49	25	4	22	37	39	41	48	49	0	0	0	0
94	SIMAS	48	30	22	24	26	44	48	0	0	0	0	0	0
	ICAPS	49	29	4	22	44	48	49	0	0	0	0	0	0
95	SIMAS	49	33	27	44	49	0	0	0	0	0	0	0	0
	ICAPS	57	34	4	22	46	48	50	56	57	0	0	0	0
96	SIMAS	49	33	27	44	49	0	0	0	0	0	0	0	0
	ICAPS	69	39	4	22	50	52	53	56	57	68	69	0	0
97	SIMAS	60	35	27	44	49	59	60	0	0	0	0	0	0
	ICAPS	69	40	4	22	53	56	57	68	69	0	0	0	0
98	SIMAS	60	40	28	44	53	59	60	0	0	0	0	0	0
	ICAPS	69	40	4	22	53	56	57	68	69	0	0	0	0
99	SIMAS	60	44	28	44	57	59	60	0	0	0	0	0	0
	ICAPS	69	43	4	22	54	56	58	67	69	0	0	0	0
100	SIMAS	60	47	30	44	60	0	0	0	0	0	0	0	0
	ICAPS	69	45	4	22	54	56	60	67	69	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 60
SENSOR 9 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	45	15	7	38	45	0	0	0	0	0	0	0	0
	ICAPS	40	27	6	19	21	23	40	0	0	0	0	0	0
94	SIMAS	46	16	7	38	46	0	0	0	0	0	0	0	0
	ICAPS	42	30	6	19	42	0	0	0	0	0	0	0	0
95	SIMAS	47	17	7	38	47	0	0	0	0	0	0	0	0
	ICAPS	49	33	6	19	42	47	49	0	0	0	0	0	0
96	SIMAS	59	19	7	38	47	58	59	0	0	0	0	0	0
	ICAPS	49	36	6	19	44	46	49	0	0	0	0	0	0
97	SIMAS	60	22	7	38	47	51	52	58	60	0	0	0	0
	ICAPS	67	38	6	19	44	46	49	66	67	0	0	0	0
98	SIMAS	60	26	7	38	48	50	52	54	55	58	60	0	0
	ICAPS	67	40	7	19	49	66	67	0	0	0	0	0	0
99	SIMAS	60	28	7	38	55	58	60	0	0	0	0	0	0
	ICAPS	67	44	8	19	52	66	67	0	0	0	0	0	0
100	SIMAS	60	29	7	38	56	58	60	0	0	0	0	0	0
	ICAPS	67	46	8	19	54	66	67	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 600
SENSOR 9 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	46	16	7	38	46	0	0	0	0	0	0	0	0
	ICAPS	40	27	6	19	21	23	40	0	0	0	0	0	0
94	SIMAS	46	16	7	38	46	0	0	0	0	0	0	0	0
	ICAPS	42	29	6	19	21	23	42	0	0	0	0	0	0
95	SIMAS	47	17	7	38	47	0	0	0	0	0	0	0	0
	ICAPS	49	32	6	19	42	48	49	0	0	0	0	0	0
96	SIMAS	59	19	7	38	47	58	59	0	0	0	0	0	0
	ICAPS	49	36	6	19	44	46	49	0	0	0	0	0	0
97	SIMAS	60	22	7	38	47	51	52	58	60	0	0	0	0
	ICAPS	67	38	6	19	44	46	49	66	67	0	0	0	0
98	SIMAS	60	27	7	38	48	50	55	58	60	0	0	0	0
	ICAPS	67	40	7	19	49	66	67	0	0	0	0	0	0
99	SIMAS	60	28	7	38	55	58	60	0	0	0	0	0	0
	ICAPS	67	41	8	19	49	66	67	0	0	0	0	0	0
100	SIMAS	60	29	7	38	56	58	60	0	0	0	0	0	0
	ICAPS	67	46	8	19	54	66	67	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 600
SENSOR 9 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	41	19	12	35	41	0	0	0	0	0	0	0	0
	ICAPS	103	93	70	72	82	86	93	100	103	0	0	0	0
94	SIMAS	49	22	12	35	41	47	49	0	0	0	0	0	0
	ICAPS	103	96	70	72	82	86	94	97	98	100	103	0	0
95	SIMAS	49	22	12	35	41	47	49	0	0	0	0	0	0
	ICAPS	141	103	70	72	82	84	94	97	103	113	114	140	141
96	SIMAS	49	24	12	35	41	45	49	0	0	0	0	0	0
	ICAPS	141	112	70	72	94	96	103	107	109	113	114	116	117
97	SIMAS	83	30	12	35	43	45	49	58	59	82	83	0	0
	ICAPS	141	116	94	96	103	107	109	113	114	116	117	126	129
98	SIMAS	83	37	12	34	43	45	55	58	59	82	83	0	0
	ICAPS	154	123	103	107	109	113	114	116	117	126	129	136	141
99	SIMAS	83	39	13	34	55	58	59	82	83	0	0	0	0
	ICAPS	154	126	103	107	109	113	114	116	117	124	129	136	141
100	SIMAS	83	46	13	34	64	82	83	0	0	0	0	0	0
	ICAPS	154	131	109	113	114	116	117	124	129	135	142	151	154

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	12	10	5	8	12	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	46	21	16	41	43	45	46	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
78	SIMAS	46	25	16	21	23	41	46	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
79	SIMAS	46	30	17	20	26	41	46	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
80	SIMAS	48	37	28	40	48	0	0	0	0	0	0	0	0
	ICAPS	35	11	4	26	27	29	30	33	35	0	0	0	0
81	SIMAS	48	42	29	33	35	39	48	0	0	0	0	0	0
	ICAPS	35	14	4	24	30	33	35	0	0	0	0	0	0
82	SIMAS	66	49	30	32	36	39	48	59	60	65	66	0	0
	ICAPS	42	20	4	23	30	32	36	40	42	0	0	0	0
83	SIMAS	66	57	53	59	60	65	66	0	0	0	0	0	0
	ICAPS	70	29	4	23	30	32	36	40	44	49	52	68	70
84	SIMAS	66	62	60	65	66	0	0	0	0	0	0	0	0
	ICAPS	70	36	4	20	36	40	46	49	52	67	70	0	0
85	SIMAS	132	66	60	64	67	131	132	0	0	0	0	0	0
	ICAPS	104	50	4	19	46	49	57	67	71	81	82	103	104

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	133	75	60	63	68	92	93	126	128	130	133	0	0
	ICAPS	105	56	4	19	59	66	71	81	82	103	105	0	0
87	SIMAS	137	83	70	92	94	126	128	130	133	135	137	0	0
	ICAPS	105	60	4	19	59	63	64	66	72	81	82	102	105
88	SIMAS	169	94	71	77	79	90	95	125	128	130	133	135	138
	ICAPS	138	75	5	18	61	63	74	80	84	100	105	136	138
89	SIMAS	181	106	71	77	82	89	95	124	138	168	170	178	181
	ICAPS	138	82	5	18	75	77	84	86	87	100	105	136	138
90	SIMAS	181	117	72	76	83	89	97	102	105	119	120	124	138
	ICAPS	138	85	5	18	75	77	84	86	87	96	97	99	105
91	SIMAS	183	126	72	75	83	89	97	101	106	119	120	124	139
	ICAPS	140	95	5	18	75	77	88	96	110	136	140	0	0
92	SIMAS	183	141	73	75	84	88	97	99	108	113	115	118	120
	ICAPS	140	100	5	18	75	77	89	96	111	116	117	135	140
93	SIMAS	184	155	84	88	109	111	121	123	140	165	184	0	0
	ICAPS	165	110	6	18	75	77	91	96	113	116	117	119	120
94	SIMAS	184	159	85	87	140	165	184	0	0	0	0	0	0
	ICAPS	165	129	8	18	75	77	91	95	114	116	124	126	130

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 500

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	42	7	5	41	42	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	42	7	5	41	42	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
80	SIMAS	42	7	5	41	42	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
81	SIMAS	46	13	7	41	46	0	0	0	0	0	0	0	0
	ICAPS	40	11	7	32	33	39	40	0	0	0	0	0	0
82	SIMAS	50	17	7	39	46	49	50	0	0	0	0	0	0
	ICAPS	43	16	8	32	35	39	40	42	43	0	0	0	0
83	SIMAS	50	18	7	38	46	49	50	0	0	0	0	0	0
	ICAPS	48	33	8	21	26	28	37	39	43	45	48	0	0
84	SIMAS	50	18	7	38	46	49	50	0	0	0	0	0	0
	ICAPS	48	39	9	18	43	45	48	0	0	0	0	0	0
5	SIMAS	13?	26	7	38	46	49	51	59	60	129	133	0	0
	S	70	45	9	17	47	68	70	0	)	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	133	36	7	38	47	49	51	59	60	65	66	84	86
	ICAPS	102	64	10	16	53	57	58	61	62	65	71	80	81
87	SIMAS	133	38	7	38	51	59	61	65	66	84	86	88	90
	ICAPS	103	73	10	15	62	64	72	80	81	100	103	0	0
88	SIMAS	179	51	7	36	51	57	61	64	66	84	90	125	133
	ICAPS	106	82	11	15	62	64	74	80	84	100	106	0	0
89	SIMAS	179	63	7	36	61	64	66	84	90	120	121	123	133
	ICAPS	106	89	11	14	74	76	78	80	84	98	106	0	0
90	SIMAS	181	61	8	36	62	64	66	83	93	118	134	136	137
	ICAPS	138	105	78	80	85	89	90	94	106	117	118	121	122
91	SIMAS	181	87	9	35	66	83	93	118	134	136	140	168	172
	ICAPS	140	123	85	88	106	108	109	111	112	114	115	117	124
92	SIMAS	186	99	11	35	68	83	93	118	134	136	142	165	172
	ICAPS	140	109	85	88	109	111	112	114	115	117	124	126	127
93	SIMAS	186	100	11	35	68	83	93	118	142	165	172	174	181
	ICAPS	166	142	85	87	112	114	127	129	130	133	140	144	146
94	SIMAS	197	109	11	35	68	83	94	100	101	118	142	164	186
	ICAPS	176	160	112	114	140	142	150	156	157	162	163	165	167

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
76	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
77	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	43	8	6	42	43	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
79	SIMAS	46	12	8	42	43	45	46	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
80	SIMAS	47	17	9	40	47	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
81	SIMAS	49	20	10	40	49	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
82	SIMAS	49	22	12	40	49	0	0	0	0	0	0	0	0
	ICAPS	34	10	5	30	34	0	0	0	0	0	0	0	0
83	SIMAS	49	25	14	39	49	0	0	0	0	0	0	0	0
	ICAPS	42	17	6	29	36	40	42	0	0	0	0	0	0
84	SIMAS	60	32	18	38	49	59	60	0	0	0	0	0	0
	ICAPS	44	24	6	24	26	29	36	38	44	0	0	0	0
85	SIMAS	127	41	21	38	49	59	60	65	66	87	88	127	128
	ICAPS	79	36	6	22	26	29	44	46	47	50	52	66	67

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	129	51	25	37	52	59	60	64	66	87	88	127	129
	ICAPS	71	45	6	19	44	46	48	50	52	57	58	66	67
87	SIMAS	133	69	30	37	61	64	67	87	90	127	129	131	133
	ICAPS	71	53	6	18	53	55	58	65	71	0	0	0	0
88	SIMAS	179	82	61	64	67	87	91	127	129	131	134	137	138
	ICAPS	105	61	6	17	60	65	72	103	105	0	0	0	0
89	SIMAS	180	93	61	63	67	87	92	124	125	127	129	131	134
	ICAPS	122	76	6	17	72	81	83	99	101	103	108	121	122
90	SIMAS	181	104	68	87	92	118	120	122	125	127	129	131	134
	ICAPS	122	78	6	17	73	81	83	99	108	121	122	0	0
91	SIMAS	182	112	68	87	93	118	120	122	129	131	140	166	167
	ICAPS	139	95	6	16	73	76	77	79	85	88	89	98	108
92	SIMAS	184	119	68	87	94	118	129	131	140	164	184	0	0
	ICAPS	139	107	6	16	74	76	86	88	90	95	96	98	109
93	SIMAS	185	124	69	97	96	118	140	164	185	0	0	0	0
	ICAPS	140	111	6	[illegible]	74	76	90	95	96	98	109	113	117
94	SIMAS	198	137	69	87	105	118	140	163	186	197	198	0	0
	ICAPS	141	120	6	[illegible]	74	76	96	98	117	121	125	133	141

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
75	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	14	7	5	13	14	0	0	0	0	0	0	0	0
76	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	9	5	13	14	16	17	0	0	0	0	0	0
77	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	15	10	5	13	14	16	18	0	0	0	0	0	0
78	SIMAS	43	11	8	41	43	0	0	0	0	0	0	0	0
	ICAPS	18	12	5	12	18	0	0	0	0	0	0	0	0
79	SIMAS	43	13	8	37	38	41	43	0	0	0	0	0	0
	ICAPS	35	24	7	12	21	29	35	0	0	0	0	0	0
80	SIMAS	48	17	8	37	38	41	43	45	48	0	0	0	0
	ICAPS	36	27	7	11	21	28	36	0	0	0	0	0	0
81	SIMAS	48	19	9	37	38	41	48	0	0	0	0	0	0
	ICAPS	50	34	7	11	21	27	36	44	47	49	50	0	0
82	SIMAS	48	19	9	37	38	41	48	0	0	0	0	0	0
	ICAPS	50	46	22	26	38	40	50	0	0	0	0	0	0
83	SIMAS	48	21	9	37	48	0	0	0	0	0	0	0	0
	ICAPS	67	62	50	52	53	58	67	0	0	0	0	0	0
84	SIMAS	48	21	9	37	48	0	0	0	0	0	0	0	0
	ICAPS	103	77	53	56	70	76	77	79	81	89	90	102	103
85	SIMAS	129	28	9	37	50	125	129	0	0	0	0	0	0
	ICAPS	107	96	82	85	86	89	90	93	94	97	98	101	103

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	134	34	9	37	50	58	61	125	129	133	134	0	0
	ICAPS	136	107	83	85	86	89	90	93	94	97	98	101	107
87	SIMAS	181	51	9	37	52	58	61	64	67	84	85	88	89
	ICAPS	139	124	86	88	90	92	111	115	116	118	123	133	139
88	SIMAS	181	66	10	37	67	80	82	84	85	88	89	118	119
	ICAPS	179	142	112	114	124	128	130	132	140	146	147	149	151
89	SIMAS	181	80	10	34	35	37	67	80	82	84	85	88	90
	ICAPS	200	164	112	114	130	132	141	145	147	149	151	153	154
90	SIMAS	183	89	10	34	35	37	67	80	86	88	90	92	93
	ICAPS	200	185	130	132	147	149	171	174	175	177	183	191	192
91	SIMAS	183	93	10	33	35	37	67	80	86	88	93	118	120
	ICAPS	200	193	171	173	175	177	184	186	187	191	193	195	200
92	SIMAS	183	103	13	33	35	37	67	80	86	88	93	118	120
	ICAPS	200	196	171	173	175	177	188	191	200	0	0	0	0
93	SIMAS	183	107	13	33	35	37	67	80	86	88	95	118	138
	ICAPS	200	199	189	191	200	0	0	0	0	0	0	0	0
94	SIMAS	197	115	13	32	68	80	86	88	95	102	103	118	136
	ICAPS	200	199	189	191	200	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	48	25	14	22	25	42	48	0	0	0	0	0	0
	ICAPS	35	12	2	23	29	33	35	0	0	0	0	0	0
81	SIMAS	48	28	15	22	26	41	48	0	0	0	0	0	0
	ICAPS	35	14	2	21	29	33	35	0	0	0	0	0	0
82	SIMAS	48	35	15	18	26	35	37	41	48	0	0	0	0
	ICAPS	69	19	3	21	29	31	35	68	69	0	0	0	0
83	SIMAS	56	40	15	18	26	31	32	35	37	41	49	55	56
	ICAPS	69	29	3	21	35	41	45	47	48	50	51	68	69
84	SIMAS	66	51	15	17	26	30	38	41	50	54	56	60	61
	ICAPS	105	39	3	21	35	41	45	47	51	53	56	67	70
85	SIMAS	127	61	15	17	27	30	38	40	50	54	61	65	67
	ICAPS	105	46	3	21	37	41	45	47	56	58	59	67	70
86	SIMAS	136	70	27	29	38	40	51	53	62	65	69	91	92
	ICAPS	105	58	3	20	45	47	56	58	60	67	75	80	82
87	SIMAS	136	72	27	29	38	40	62	65	69	91	93	126	127
	ICAPS	124	69	3	19	45	47	62	64	65	67	75	77	78
88	SIMAS	169	85	27	29	62	65	69	79	80	91	94	126	127
	ICAPS	138	82	4	19	75	77	82	84	85	97	99	101	105
89	SIMAS	183	96	63	65	69	78	81	90	94	125	127	129	137
	ICAPS	139	90	4	19	75	77	82	84	88	97	105	122	125
90	SIMAS	183	105	63	65	70	78	81	90	95	103	105	124	137
	ICAPS	139	95	4	19	75	77	82	84	88	90	91	97	105
	SIMAS	183	113	70	78	82	90	95	103	105	119	120	124	137
	S	140	101	4	19	75	77	91	97	105	107	109	116	117

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	183	124	70	78	82	90	97	102	106	116	120	123	138
	ICAPS	140	106	4	19	75	77	91	97	105	107	110	112	113
93	SIMAS	183	133	71	77	82	90	97	99	106	114	120	123	138
	ICAPS	140	115	4	6	7	19	75	77	92	97	113	115	117
94	SIMAS	183	142	74	77	82	90	106	111	121	123	138	165	169
	ICAPS	174	129	4	6	7	19	75	77	92	94	125	127	128

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
81	SIMAS	48	10	6	40	41	47	48	0	0	0	0	0	0
	ICAPS	33	9	6	31	33	0	0	0	0	0	0	0	0
82	SIMAS	48	14	6	40	45	47	48	0	0	0	0	0	0
	ICAPS	33	9	6	31	33	0	0	0	0	0	0	0	0
83	SIMAS	48	14	6	40	45	47	48	0	0	0	0	0	0
	ICAPS	40	15	6	30	33	35	37	39	40	0	0	0	0
84	SIMAS	130	16	6	40	45	47	48	129	130	0	0	0	0
	ICAPS	43	20	6	29	37	39	43	0	0	0	0	0	0
85	SIMAS	132	26	6	40	45	47	50	59	60	65	66	86	87
	ICAPS	43	23	6	23	25	29	37	39	43	0	0	0	0
86	SIMAS	132	33	6	37	50	59	61	65	66	84	87	129	132
	ICAPS	71	39	6	22	25	28	46	48	50	65	71	0	0
87	SIMAS	179	43	6	37	52	54	57	59	61	65	66	84	89
	ICAPS	102	56	6	18	46	48	55	57	59	65	71	100	102
88	SIMAS	179	51	6	37	52	54	61	65	67	84	89	129	132
	ICAPS	102	62	6	17	46	48	55	57	59	64	72	79	80
89	SIMAS	180	56	6	37	52	54	61	64	67	84	89	124	125
	ICAPS	102	71	6	17	61	63	72	79	84	99	102	0	0
90	SIMAS	180	65	6	36	61	64	67	84	89	124	135	138	141
	ICAPS	122	78	6	16	61	63	72	79	85	99	105	121	122
91	SIMAS	184	87	6	8	13	36	61	63	67	84	91	118	141
	ICAPS	139	93	6	16	74	78	85	99	108	121	125	135	139

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	184	94	10	36	61	63	68	84	93	118	141	163	164
	ICAPS	139	107	7	16	87	94	95	97	108	110	111	120	125
93	SIMAS	186	100	10	36	68	84	93	118	141	163	167	169	186
	ICAPS	140	109	7	16	87	94	108	110	111	120	125	134	140
94	SIMAS	187	101	10	36	68	84	93	118	141	163	167	169	187
	ICAPS	141	122	8	16	87	90	91	94	113	115	125	133	141

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	41	3	6	40	41	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
81	SIMAS	48	10	6	40	41	47	48	0	0	0	0	0	0
	ICAPS	33	8	5	31	33	0	0	0	0	0	0	0	0
82	SIMAS	48	14	6	40	45	47	48	0	0	0	0	0	0
	ICAPS	33	9	6	31	33	0	0	0	0	0	0	0	0
83	SIMAS	48	14	6	40	45	47	48	0	0	0	0	0	0
	ICAPS	40	15	6	30	33	35	37	39	40	0	0	0	0
84	SIMAS	130	18	6	40	45	47	48	65	66	129	130	0	0
	ICAPS	43	20	6	29	37	39	43	0	0	0	0	0	0
85	SIMAS	132	26	6	40	45	47	50	59	60	65	66	86	87
	ICAPS	43	23	6	23	25	29	37	39	43	0	0	0	0
86	SIMAS	132	33	6	37	50	59	61	65	66	84	87	129	132
	ICAPS	71	37	6	23	25	28	46	49	50	65	71	0	0
87	SIMAS	179	43	6	37	52	54	57	59	61	65	66	84	89
	ICAPS	102	55	6	18	46	48	52	54	55	57	59	65	71
88	SIMAS	179	51	6	37	52	54	61	65	67	84	89	129	132
	ICAPS	102	62	6	17	46	48	55	57	59	64	72	79	80
89	SIMAS	180	56	6	37	52	54	61	64	67	84	89	124	125
	ICAPS	102	71	6	17	61	63	72	79	84	99	102	0	0
90	SIMAS	180	67	6	36	61	64	67	84	89	124	135	138	141
	ICAPS	122	78	6	16	61	63	72	79	85	99	105	121	122
91	SIMAS	184	87	6	8	10	36	61	63	67	84	91	118	141
	ICAPS	139	93	6	16	74	78	85	99	108	121	125	135	139

ENVIRONMENT 2 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 60

SENSOR PERFORMANCE CHART (CONT.)

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	184	94	10	36	61	63	68	84	93	118	141	163	164
	ICAPS	139	107	7	16	87	94	95	97	108	110	111	120	125
93	SIMAS	186	100	10	36	68	84	93	118	141	163	167	169	186
	ICAPS	140	109	7	16	87	94	108	110	111	120	125	134	140
94	SIMAS	187	101	10	36	68	84	93	118	141	163	167	169	187
	ICAPS	141	122	8	16	87	90	91	94	113	115	125	133	141

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	47	17	9	39	40	42	47	0	0	0	0	0	0
	ICAPS	42	37	9	11	20	22	34	38	42	0	0	0	0
81	SIMAS	47	17	9	39	40	42	47	0	0	0	0	0	0
	ICAPS	62	51	9	11	20	22	45	50	52	54	55	60	62
82	SIMAS	47	18	10	39	40	42	47	0	0	0	0	0	0
	ICAPS	69	58	9	11	20	22	45	47	48	50	55	60	64
83	SIMAS	47	18	10	39	40	42	47	0	0	0	0	0	0
	ICAPS	105	69	9	11	20	22	45	47	58	60	66	68	70
84	SIMAS	131	22	11	39	40	42	47	129	131	0	0	0	0
	ICAPS	105	84	20	22	66	68	70	72	74	76	78	84	86
85	SIMAS	136	30	11	36	37	39	40	42	47	60	61	126	127
	ICAPS	117	99	20	22	66	68	70	72	74	76	82	84	86
86	SIMAS	179	42	11	34	37	39	40	42	48	60	61	64	66
	ICAPS	132	115	74	76	82	84	106	108	109	112	113	116	117
87	SIMAS	183	56	11	32	37	39	40	42	48	54	61	63	66
	ICAPS	142	131	74	76	82	84	110	112	118	120	123	126	128
88	SIMAS	183	67	11	32	48	50	51	54	61	63	66	82	83
	ICAPS	171	140	110	112	124	126	132	134	135	139	142	144	145
89	SIMAS	183	79	12	32	48	50	66	82	83	118	122	124	127
	ICAPS	171	153	132	134	135	137	145	154	156	158	159	166	168
90	SIMAS	183	88	12	32	67	80	83	94	95	118	122	124	127
	ICAPS	182	164	146	148	150	154	156	158	160	166	171	180	182
91	SIMAS	183	96	12	32	67	80	83	87	91	94	95	118	122
	ICAPS	186	173	152	154	156	158	160	166	171	173	174	180	186

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 600
SENSOR 12 TARGET DEPTH 600

TOD	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	184	104	13	32	67	78	83	87	95	118	122	124	127
	ICAPS	186	179	152	154	156	158	162	166	171	173	176	178	186
93	SIMAS	184	110	14	32	67	78	83	87	95	118	122	124	139
	ICAPS	197	191	164	166	186	191	192	194	197	0	0	0	0
94	SIMAS	197	120	14	31	67	78	83	87	97	104	105	118	122
	ICAPS	200	195	186	191	197	199	200	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 60
SENSOR 23L TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
74	SIMAS	13	6	3	11	13	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	13	7	3	10	13	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	13	7	3	10	13	0	0	0	0	0	0	0	0
		2	2	2	0	0	0	0	0	0	0	0	0	0

...LE CHART (CONT.)

											R41	R42	R51	R52	R61	R62
				13					49		0	0	0	0	0	0
											0	0	0	0	0	0
78											42	47	0	0	0	0
											0	0	0	0	0	0
79											0	0	0	0	0	0
											0	0	0	0	0	0
80											0	0	0	0	0	0
											0	0	0	0	0	0
81											0	0	0	0	0	0
											0	0	0	0	0	0
82												48	0	0	0	0
													0	0	0	0
83			56	40	15	18						37	41	49	55	56
			69	29	3							48	50	51	68	69
84																
85																
86																
87																
88																

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 60
SENSOR 23L TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
70	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
72	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
		4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 60
SENSOR 23 L TARGET DEPTH 600

TOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
78	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
79	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
80	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
81	SIMAS	48	10	6	40	41	47	48	0	0	0	0	0	0
	ICAPS	33	9	6	31	33	0	0	0	0	0	0	0	0
82	SIMAS	48	14	6	40	45	47	48	0	0	0	0	0	0
	ICAPS	33	9	6	31	33	0	0	0	0	0	0	0	0
83	SIMAS	48	14	6	40	45	47	48	0	0	0	0	0	0
	ICAPS	40	15	6	30	33	35	37	39	40	0	0	0	0
84	SIMAS	130	16	6	40	45	47	48	129	130	0	0	0	0
	ICAPS	43	20	6	29	37	39	43	0	0	0	0	0	0
85	SIMAS	132	26	6	40	45	47	50	59	60	65	66	86	87
	ICAPS	43	23	6	23	25	29	37	39	43	0	0	0	0
86	SIMAS	132	33	6	37	50	59	61	65	66	84	87	129	132
	ICAPS	71	39	6	22	25	28	46	48	50	65	71	0	0
87	SIMAS	179	43	6	37	52	54	57	59	61	65	66	84	89
	ICAPS	102	56	6	18	46	48	55	57	59	65	71	100	102
88	SIMAS	179	51	6	37	52	54	61	65	67	84	89	129	132
	ICAPS	102	62	6	17	46	48	55	57	59	64	72	79	80

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 300
SENSOR 23 L TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
76	SIMAS	44	6	4	43	44	0	0	0	0	0	0	0	0
	AF	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 300
SENSOR 23 TARGET DEPTH 60

FOM	DATA	RMAX	R01	R02	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	44	5	4	44	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0
78	SIMAS	46	11	6	43	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0
79	SIMAS	46	14	13	4	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0
80	SIMAS	46	18	10	41	46	0	0	0	0	0	0
	ICAPS	34	5	5	34	0	0	0	0	0	0	0
81	SIMAS	48	14	16	1	0	0	0	0	0	0	0
	ICAPS	34	5	5	34	33	34	0	0	0	0	0
82	SIMAS	48	14	17	43	0	0	0	0	0	0	0
	ICAPS	36	15	5	36	36	36	36	0	0	0	0
83	SIMAS	66	35	17	28	56	59	60	65	66	0	0
	ICAPS	36	17	5	36	0	0	0	0	0	0	0
84	SIMAS	66	43	19	21	56	59	60	65	66	0	0
	ICAPS	70	5	5	7	47	47	52	68	70	0	0
85	SIMAS	66	50	27	31	56	64	66	0	0	0	0
	ICAPS	71	31	5	14	42	47	52	67	71	0	0
86	SIMAS	135	42	34	31	60	64	66	89	90	130	131
	ICAPS	103	51	5	14	42	47	52	54	58	66	71
87	SIMAS	136	66	31	31	60	64	66	89	90	125	126
	ICAPS	105	57	5	14	42	47	52	64	71	100	105
88	SIMAS	179	81	67	85	110	126	130	132	134	136	
	ICAPS	105	67	5	14	42	47	52	100	105	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 300
SENSOR 23 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
72	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
74	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
76	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 300
SENSOR 23L TARGET DEPTH 600

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
78	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
79	SIMAS	48	9	5	43	44	47	48	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
80	SIMAS	48	11	7	43	44	47	48	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
81	SIMAS	49	16	7	39	44	47	49	0	0	0	0	0	0
	ICAPS	40	10	8	39	40	0	0	0	0	0	0	0	0
82	SIMAS	49	17	7	39	44	46	49	0	0	0	0	0	0
	ICAPS	43	24	8	16	18	21	25	32	34	38	40	42	43
83	SIMAS	49	17	7	39	44	46	49	0	0	0	0	0	0
	ICAPS	43	36	8	15	40	42	43	0	0	0	0	.0	0
84	SIMAS	49	19	8	39	49	0	0	0	0	0	0	0	0
	ICAPS	51	42	8	15	46	50	51	0	0	0	0	0	0
85	SIMAS	60	24	8	38	51	59	60	0	0	0	0	0	0
	ICAPS	70	57	9	14	51	57	58	63	70	0	0	0	0
86	SIMAS	89	29	8	38	51	59	60	65	66	87	89	0	0
	ICAPS	81	65	9	14	53	57	61	63	71	80	81	0	0
87	SIMAS	130	40	8	38	53	58	61	64	66	87	90	125	126
	ICAPS	104	74	9	13	61	63	72	79	81	102	104	0	0
88	SIMAS	149	48	8	35	36	38	53	58	61	64	67	87	90
	ICAPS	105	82	10	13	73	79	81	86	87	99	100	102	105

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 60
SENSOR 231 TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	49	0	0	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	49	0	0	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	11	5	3	10	11	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 60
SENSOR 23M TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	12	7	3	9	12	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	12	8	4	8	12	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	12	11	5	7	12	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	35	6	2	25	26	34	35	0	0	0	0	0	0
79	SIMAS	21	15	13	20	21	0	0	0	0	0	0	0	0
	ICAPS	35	8	2	23	26	34	35	0	0	0	0	0	0
80	SIMAS	46	22	13	19	22	42	46	0	0	0	0	0	0
	ICAPS	35	11	2	23	29	34	35	0	0	0	0	0	0
81	SIMAS	46	24	14	19	23	42	46	0	0	0	0	0	0
	ICAPS	35	12	2	23	29	33	35	0	0	0	0	0	0
82	SIMAS	46	26	14	17	23	42	46	0	0	0	0	0	0
	ICAPS	35	12	2	23	29	33	35	0	0	0	0	0	0
83	SIMAS	48	32	25	42	48	0	0	0	0	0	0	0	0
	ICAPS	69	21	2	22	30	33	36	40	41	49	50	68	69
84	SIMAS	49	36	26	31	32	42	49	0	0	0	0	0	0
	ICAPS	69	24	2	22	30	32	36	40	41	47	50	68	69
85	SIMAS	49	39	26	28	32	42	49	0	0	0	0	0	0
	ICAPS	69	28	2	21	37	40	41	47	51	68	69	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 60
SENSOR 23H TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
71	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
72	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 60
SENSOR 23H TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
78	SIMAS	41	7	5	40	41	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
79	SIMAS	41	8	5	39	41	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
80	SIMAS	44	11	5	39	44	0	0	0	0	0	0	0	0
	ICAPS	33	6	4	32	33	0	0	0	0	0	0	0	0
81	SIMAS	44	11	5	39	44	0	0	0	0	0	0	0	0
	ICAPS	33	6	4	32	33	0	0	0	0	0	0	0	0
82	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0
	ICAPS	33	6	4	32	33	0	0	0	0	0	0	0	0
83	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0
	ICAPS	37	9	4	32	34	36	37	0	0	0	0	0	0
84	SIMAS	44	13	6	38	44	0	0	0	0	0	0	0	0
	ICAPS	37	13	6	31	37	0	0	0	0	0	0	0	0
85	SIMAS	50	15	6	38	44	49	50	0	0	0	0	0	0
	ICAPS	37	20	6	19	21	23	24	29	37	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 300
SENSOR 23 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 300
SENSOR 23H TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	47	11	5	8	10	45	47	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
79	SIMAS	47	11	5	8	10	45	47	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
80	SIMAS	47	14	5	8	11	41	42	45	47	0	0	0	0
	ICAPS	35	6	3	33	35	0	0	0	0	0	0	0	0
81	SIMAS	47	16	5	7	11	40	42	45	47	0	0	0	0
	ICAPS	36	7	3	33	36	0	0	0	0	0	0	0	0
82	SIMAS	47	22	12	14	16	40	42	44	47	0	0	0	0
	ICAPS	36	8	3	32	36	0	0	0	0	0	0	0	0
83	SIMAS	48	25	16	40	48	0	0	0	0	0	0	0	0
	ICAPS	36	12	3	21	22	27	28	32	36	0	0	0	0
84	SIMAS	48	29	17	21	23	40	48	0	0	0	0	0	0
	ICAPS	42	20	5	20	22	27	30	32	36	40	42	0	0
85	SIMAS	60	31	17	21	23	40	48	59	60	0	0	0	0
	ICAPS	68	27	5	20	23	27	42	67	68	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 300
SENSOR 2311 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 300
SENSOR 231 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
76	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
77	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
78	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
79	SIMAS	42	8	6	41	42	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
80	SIMAS	42	9	7	41	42	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	43	10	7	41	43	0	0	0	0	0	0	0	0
	ICAPS	32	11	7	16	17	31	32	0	0	0	0	0	0
82	SIMAS	43	11	7	40	43	0	0	0	0	0	0	0	0
	ICAPS	33	14	7	16	17	24	25	31	33	0	0	0	0
83	SIMAS	48	14	7	40	44	47	48	0	0	0	0	0	0
	ICAPS	42	26	7	16	18	20	26	31	37	41	42	0	0
84	SIMAS	48	16	7	39	45	47	48	0	0	0	0	0	0
	ICAPS	42	32	7	16	28	30	38	40	42	0	0	0	0
85	SIMAS	48	18	7	37	45	47	48	0	0	0	0	0	0
	ICAPS	45	36	7	15	28	30	42	44	45	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
96	SIMAS	18	17	13	15	18	0	0	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0
97	SIMAS	18	17	13	15	18	0	0	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0
98	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	16	16	16	0	0	0	0	0	0	0	0	0	0
99	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0
100	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0
101	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0
102	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0
103	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0
104	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAPS	21	21	21	0	0	0	0	0	0	0	0	0	0
105	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAPS	21	21	21	0	0	0	0	0	0	0	0	0	0
106	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAPS	21	21	21	0	0	0	0	0	0	0	0	0	0
107	SIMAS	21	21	21	0	0	0	0	0	0	0	0	0	0
	ICAPS	21	21	21	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
108	SIMAS	21	21	21	0	0	0	0	0	0	0	0	0	0
	ICAPS	21	21	21	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
96	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
97	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
98	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
99	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
100	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
101	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
102	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
103	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
104	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
105	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
106	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
107	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
108	SIMAS	60	13	10	58	60	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0
94	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0
95	SIMAS	17	16	12	14	17	0	0	0	0	0	0	0	0
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0
96	SIMAS	17	16	12	14	17	0	0	0	0	0	0	0	0
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0
97	SIMAS	17	16	12	14	17	0	0	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0
98	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0
99	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0
100	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0
101	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0
102	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0
	ICAPS	18	18	18	0	0	0	0	0	0	0	0	0	0
103	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAPS	18	18	18	0	0	0	0	0	0	0	0	0	0
104	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAPS	19	19	19	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAPS	19	19	19	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
94	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
95	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
96	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
97	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
98	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
99	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
100	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
101	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
102	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
103	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
104	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
94	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
95	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
96	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
97	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
98	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
99	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
100	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
101	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
102	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
103	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
104	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	52	8	5	50	52	0	0	0	0	0	0	0	0
94	SIMAS	62	17	15	61	62	0	0	0	0	0	0	0	0
	ICAPS	52	9	6	50	52	0	0	0	0	0	0	0	0
95	SIMAS	63	18	15	61	63	0	0	0	0	0	0	0	0
	ICAPS	56	12	6	50	52	54	56	0	0	0	0	0	0
96	SIMAS	63	24	16	50	51	53	55	61	63	0	0	0	0
	ICAPS	57	14	6	50	57	0	0	0	0	0	0	0	0
97	SIMAS	64	27	16	49	55	61	64	0	0	0	0	0	0
	ICAPS	57	14	6	50	57	0	0	0	0	0	0	0	0
98	SIMAS	65	28	16	49	55	61	65	0	0	0	0	0	0
	ICAPS	57	14	6	50	57	0	0	0	0	0	0	0	0
99	SIMAS	65	29	16	49	56	61	65	0	0	0	0	0	0
	ICAPS	58	15	6	50	58	0	0	0	0	0	0	0	0
100	SIMAS	65	31	16	49	56	59	65	0	0	0	0	0	0
	ICAPS	58	15	6	50	58	0	0	0	0	0	0	0	0
101	SIMAS	66	32	16	49	56	59	66	0	0	0	0	0	0
	ICAPS	106	18	6	50	58	104	106	0	0	0	0	0	0
102	SIMAS	66	33	16	49	56	58	66	0	0	0	0	0	0
	ICAPS	106	20	8	50	58	104	106	0	0	0	0	0	0
103	SIMAS	66	33	16	49	56	58	66	0	0	0	0	0	0
	ICAPS	106	20	8	50	58	104	106	0	0	0	0	0	0
104	SIMAS	68	36	16	49	68	0	0	0	0	0	0	0	0
	ICAPS	106	22	8	49	58	103	106	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
	SIMAS	68	36	16	49	68	0	0	0	0	0	0	0	0
10%														
	LEADS	108	24	8	49	58	103	108	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 20
SENSOR 7 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
81	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
82	SIMAS	14	13	11	13	14	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
83	SIMAS	14	13	11	13	14	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
84	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	14	14	14	0	0	0	0	0	0	0	0	0	0
85	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0
86	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0
87	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 20
SENSOR 7 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
81	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
83	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
84	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
85	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
86	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	55	7	5	54	55	0	0	0	0	0	0	0	0
87	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	55	7	5	54	55	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 60
SENSOR 9 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	25	22	20	24	25	0	0	0	0	0	0	0	0
	ICAPS	22	21	19	21	22	0	0	0	0	0	0	0	0
94	SIMAS	25	22	20	24	25	0	0	0	0	0	0	0	0
	ICAPS	22	21	19	21	22	0	0	0	0	0	0	0	0
95	SIMAS	25	22	20	24	25	0	0	0	0	0	0	0	0
	ICAPS	22	21	19	21	22	0	0	0	0	0	0	0	0
96	SIMAS	26	23	20	24	26	0	0	0	0	0	0	0	0
	ICAPS	23	22	19	21	23	0	0	0	0	0	0	0	0
97	SIMAS	63	28	26	62	63	0	0	0	0	0	0	0	0
	ICAPS	26	24	19	21	23	25	26	0	0	0	0	0	0
98	SIMAS	63	30	26	60	63	0	0	0	0	0	0	0	0
	ICAPS	62	27	23	25	26	61	62	0	0	0	0	0	0
99	SIMAS	64	31	26	60	64	0	0	0	0	0	0	0	0
	ICAPS	65	30	26	61	62	64	65	0	0	0	0	0	0
100	SIMAS	64	33	28	60	64	0	0	0	0	0	0	0	0
	ICAPS	65	33	26	28	30	61	62	64	65	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 60
SENSOR 9 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	56	8	5	54	56	0	0	0	0	0	0	0	0
94	SIMAS	58	11	9	57	58	0	0	0	0	0	0	0	0
	ICAPS	57	9	5	54	57	0	0	0	0	0	0	0	0
95	SIMAS	58	12	10	57	58	0	0	0	0	0	0	0	0
	ICAPS	57	11	7	54	57	0	0	0	0	0	0	0	0
96	SIMAS	58	12	10	57	58	0	0	0	0	0	0	0	0
	ICAPS	57	11	7	54	57	0	0	0	0	0	0	0	0
97	SIMAS	61	15	10	57	61	0	0	0	0	0	0	0	0
	ICAPS	59	13	7	54	59	0	0	0	0	0	0	0	0
98	SIMAS	62	16	10	57	62	0	0	0	0	0	0	0	0
	ICAPS	59	13	7	54	59	0	0	0	0	0	0	0	0
99	SIMAS	63	17	10	57	63	0	0	0	0	0	0	0	0
	ICAPS	61	15	7	54	61	0	0	0	0	0	0	0	0
100	SIMAS	63	17	10	57	63	0	0	0	0	0	0	0	0
	ICAPS	64	18	7	54	64	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 600
SENSOR 9 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	55	7	5	54	55	0	0	0	0	0	0	0	0
94	SIMAS	58	11	9	57	58	0	0	0	0	0	0	0	0
	ICAPS	57	9	5	54	57	0	0	0	0	0	0	0	0
95	SIMAS	58	12	10	57	58	0	0	0	0	0	0	0	0
	ICAPS	57	11	7	54	57	0	0	0	0	0	0	0	0
96	SIMAS	60	14	10	57	60	0	0	0	0	0	0	0	0
	ICAPS	57	11	7	54	57	0	0	0	0	0	0	0	0
97	SIMAS	61	15	10	57	61	0	0	0	0	0	0	0	0
	ICAPS	59	13	7	54	59	0	0	0	0	0	0	0	0
98	SIMAS	62	16	10	57	62	0	0	0	0	0	0	0	0
	ICAPS	59	13	7	54	59	0	0	0	0	0	0	0	0
99	SIMAS	63	17	10	57	63	0	0	0	0	0	0	0	0
	ICAPS	60	14	7	54	60	0	0	0	0	0	0	0	0
100	SIMAS	63	17	10	57	63	0	0	0	0	0	0	0	0
	ICAPS	63	17	7	54	63	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 600
SENSOR 9 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	65	35	16	47	65	0	0	0	0	0	0	0	0
	ICAPS	109	21	8	50	57	103	105	107	108	0	0	0	0
94	SIMAS	67	37	16	47	67	0	0	0	0	0	0	0	0
	ICAPS	109	23	8	49	57	103	105	107	109	0	0	0	0
95	SIMAS	67	38	17	47	67	0	0	0	0	0	0	0	0
	ICAPS	109	24	8	49	57	102	105	107	109	0	0	0	0
96	SIMAS	67	38	17	47	67	0	0	0	0	0	0	0	0
	ICAPS	109	25	8	49	57	102	109	0	0	0	0	0	0
97	SIMAS	69	40	17	47	69	0	0	0	0	0	0	0	0
	ICAPS	160	29	8	49	58	102	109	158	160	0	0	0	0
98	SIMAS	69	40	17	47	69	0	0	0	0	0	0	0	0
	ICAPS	160	29	8	49	58	102	109	158	160	0	0	0	0
99	SIMAS	117	45	17	47	72	116	117	0	0	0	0	0	0
	ICAPS	160	32	9	49	60	102	109	158	160	0	0	0	0
100	SIMAS	117	49	17	47	75	115	117	0	0	0	0	0	0
	ICAPS	160	39	9	49	63	102	111	156	160	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
75	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
76	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0
77	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	16	16	16	0	0	0	0	0	0	0	0	0	0
78	SIMAS	21	21	21	0	0	0	0	0	0	0	0	0	0
	ICAPS	19	19	19	0	0	0	0	0	0	0	0	0	0
79	SIMAS	24	24	24	0	0	0	0	0	0	0	0	0	0
	ICAPS	57	24	22	56	57	0	0	0	0	0	0	0	0
80	SIMAS	28	28	28	0	0	0	0	0	0	0	0	0	0
	ICAPS	59	30	26	56	59	0	0	0	0	0	0	0	0
81	SIMAS	60	36	32	55	56	59	60	0	0	0	0	0	0
	ICAPS	59	34	30	56	59	0	0	0	0	0	0	0	0
82	SIMAS	60	42	36	55	60	0	0	0	0	0	0	0	0
	ICAPS	60	39	34	56	60	0	0	0	0	0	0	0	0
83	SIMAS	60	47	41	55	60	0	0	0	0	0	0	0	0
	ICAPS	60	43	38	56	60	0	0	0	0	0	0	0	0
84	SIMAS	61	53	46	55	61	0	0	0	0	0	0	0	0
	ICAPS	63	51	43	56	63	0	0	0	0	0	0	0	0
85	SIMAS	63	60	51	55	63	0	0	0	0	0	0	0	0
	ICAPS	64	57	48	56	64	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	64	64	64	0	0	0	0	0	0	0	0	0	0
	ICAPS	65	63	53	56	65	0	0	0	0	0	0	0	0
87	SIMAS	154	67	65	153	154	0	0	0	0	0	0	0	0
	ICAPS	65	65	65	0	0	0	0	0	0	0	0	0	0
88	SIMAS	154	71	69	153	154	0	0	0	0	0	0	0	0
	ICAPS	66	66	66	0	0	0	0	0	0	0	0	0	0
89	SIMAS	154	75	73	153	154	0	0	0	0	0	0	0	0
	ICAPS	70	70	70	0	0	0	0	0	0	0	0	0	0
90	SIMAS	155	83	79	152	155	0	0	0	0	0	0	0	0
	ICAPS	76	76	76	0	0	0	0	0	0	0	0	0	0
91	SIMAS	156	90	85	152	156	0	0	0	0	0	0	0	0
	ICAPS	83	83	83	0	0	0	0	0	0	0	0	0	0
92	SIMAS	156	96	91	152	156	0	0	0	0	0	0	0	0
	ICAPS	125	91	89	124	125	0	0	0	0	0	0	0	0
93	SIMAS	156	105	98	120	121	152	156	0	0	0	0	0	0
	ICAPS	125	99	96	123	125	0	0	0	0	0	0	0	0
94	SIMAS	156	118	104	120	128	152	156	0	0	0	0	0	0
	ICAPS	130	110	102	123	130	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
78	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
79	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
80	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
81	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
82	SIMAS	59	9	7	58	59	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
83	SIMAS	60	12	9	58	60	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
84	SIMAS	60	14	9	58	60	0	0	0	0	0	0	0	0
	ICAPS	5	5	4	51	55	0	0	0	0	0	0	0	0
85	SIMAS	62	14	9	58	62	0	0	0	0	0	0	0	0
	ICAPS	6	6	4	51	55	58	60	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	63	17	9	56	63	0	0	0	0	0	0	0	0
	ICAPS	63	15	6	53	55	57	60	62	63	0	0	0	0
87	SIMAS	63	18	10	56	63	0	0	0	0	0	0	0	0
	ICAPS	64	18	6	52	60	62	64	0	0	0	0	0	0
88	SIMAS	63	18	10	56	63	0	0	0	0	0	0	0	0
	ICAPS	64	18	6	52	60	62	64	0	0	0	0	0	0
89	SIMAS	63	18	10	56	63	0	0	0	0	0	0	0	0
	ICAPS	64	20	8	52	60	62	64	0	0	0	0	0	0
90	SIMAS	157	23	10	56	65	155	157	0	0	0	0	0	0
	ICAPS	65	22	8	52	65	0	0	0	0	0	0	0	0
91	SIMAS	158	24	10	56	65	155	158	0	0	0	0	0	0
	ICAPS	66	23	8	52	66	0	0	0	0	0	0	0	0
92	SIMAS	159	26	10	56	66	155	159	0	0	0	0	0	0
	ICAPS	66	23	8	52	66	0	0	0	0	0	0	0	0
93	SIMAS	159	28	10	56	66	120	121	155	159	0	0	0	0
	ICAPS	66	23	8	52	66	0	0	0	0	0	0	0	0
94	SIMAS	159	32	11	51	52	56	66	120	122	155	159	0	0
	ICAPS	66	23	8	52	66	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
79	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
80	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
81	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
83	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	55	6	4	54	55	0	0	0	0	0	0	0	0
84	SIMAS	59	10	7	57	59	0	0	0	0	0	0	0	0
	ICAPS	59	9	5	54	55	58	59	0	0	0	0	0	0
85	SIMAS	59	12	8	56	59	0	0	0	0	0	0	0	0
	ICAPS	59	9	5	54	55	58	59	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	61	14	8	56	61	0	0	0	0	0	0	0	0
	ICAPS	59	10	5	54	55	57	59	0	0	0	0	0	0
87	SIMAS	61	14	8	56	61	0	0	0	0	0	0	0	0
	ICAPS	64	12	5	54	55	57	59	63	64	0	0	0	0
88	SIMAS	63	18	8	54	63	0	0	0	0	0	0	0	0
	ICAPS	64	17	6	54	64	0	0	0	0	0	0	0	0
89	SIMAS	156	20	8	54	63	155	156	0	0	0	0	0	0
	ICAPS	64	18	6	53	64	0	0	0	0	0	0	0	0
90	SIMAS	156	21	8	54	64	155	156	0	0	0	0	0	0
	ICAPS	65	19	6	53	65	0	0	0	0	0	0	0	0
91	SIMAS	156	21	8	54	64	155	156	0	0	0	0	0	0
	ICAPS	65	20	7	53	65	0	0	0	0	0	0	0	0
92	SIMAS	157	23	9	54	64	155	157	0	0	0	0	0	0
	ICAPS	65	20	7	53	65	0	0	0	0	0	0	0	0
93	SIMAS	160	26	10	54	64	155	157	159	160	0	0	0	0
	ICAPS	65	21	8	53	65	0	0	0	0	0	0	0	0
94	SIMAS	160	26	10	54	64	155	157	159	160	0	0	0	0
	ICAPS	66	22	8	53	66	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	56	10	5	51	53	55	56	0	0	0	0	0	0
80	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	56	12	6	51	56	0	0	0	0	0	0	0	0
81	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	56	13	6	50	56	0	0	0	0	0	0	0	0
82	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	56	14	7	50	56	0	0	0	0	0	0	0	0
83	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	106	17	7	50	57	105	106	0	0	0	0	0	0
84	SIMAS	58	20	14	47	48	55	58	0	0	0	0	0	0
	ICAPS	108	19	7	50	57	105	108	0	0	0	0	0	0
85	SIMAS	62	23	15	47	48	55	58	61	62	0	0	0	0
	ICAPS	109	24	7	50	59	103	109	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	63	29	16	47	50	55	63	0	0	0	0	0	0
	ICAPS	160	31	7	50	63	103	109	158	160	0	0	0	0
87	SIMAS	66	33	17	47	50	55	66	0	0	0	0	0	0
	ICAPS	161	35	7	50	63	103	110	156	161	0	0	0	0
88	SIMAS	67	36	19	47	50	55	67	0	0	0	0	0	0
	ICAPS	162	39	9	50	63	103	111	156	162	0	0	0	0
89	SIMAS	154	45	20	46	51	53	69	153	154	0	0	0	0
	ICAPS	162	41	9	50	65	103	111	156	162	0	0	0	0
90	SIMAS	154	47	22	46	51	53	69	153	154	0	0	0	0
	ICAPS	164	43	9	50	65	103	111	156	164	0	0	0	0
91	SIMAS	154	52	24	46	71	153	154	0	0	0	0	0	0
	ICAPS	164	44	9	50	65	103	112	156	164	0	0	0	0
92	SIMAS	158	66	26	46	74	122	124	126	128	153	154	156	158
	ICAPS	164	47	9	49	65	103	113	155	164	0	0	0	0
93	SIMAS	158	82	28	43	78	117	129	153	154	156	158	0	0
	ICAPS	166	51	9	48	65	103	114	155	166	0	0	0	0
94	SIMAS	158	95	30	38	80	117	133	153	154	156	158	0	0
	ICAPS	166	54	11	47	65	103	114	155	166	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0
	ICAPS	58	10	7	56	58	0	0	0	0	0	0	0	0
81	SIMAS	22	22	22	0	0	0	0	0	0	0	0	0	0
	ICAPS	59	12	8	56	59	0	0	0	0	0	0	0	0
82	SIMAS	26	26	26	0	0	0	0	0	0	0	0	0	0
	ICAPS	59	14	10	56	59	0	0	0	0	0	0	0	0
83	SIMAS	56	31	29	55	56	0	0	0	0	0	0	0	0
	ICAPS	61	19	13	56	61	0	0	0	0	0	0	0	0
84	SIMAS	56	35	33	55	56	0	0	0	0	0	0	0	0
	ICAPS	61	21	15	56	61	0	0	0	0	0	0	0	0
85	SIMAS	154	42	38	55	56	153	154	0	0	0	0	0	0
	ICAPS	61	25	19	56	61	0	0	0	0	0	0	0	0
86	SIMAS	154	53	42	55	63	153	154	0	0	0	0	0	0
	ICAPS	61	28	22	56	61	0	0	0	0	0	0	0	0
87	SIMAS	154	58	47	55	63	153	154	0	0	0	0	0	0
	ICAPS	65	32	27	56	65	0	0	0	0	0	0	0	0
88	SIMAS	154	64	52	55	64	153	154	0	0	0	0	0	0
	ICAPS	65	41	31	56	65	0	0	0	0	0	0	0	0
89	SIMAS	154	67	65	153	154	0	0	0	0	0	0	0	0
	ICAPS	65	47	37	56	65	0	0	0	0	0	0	0	0
90	SIMAS	154	69	67	153	154	0	0	0	0	0	0	0	0
	ICAPS	65	53	43	56	65	0	0	0	0	0	0	0	0
91	SIMAS	154	72	70	153	154	0	0	0	0	0	0	0	0
	ICAPS	65	60	50	56	65	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	154	76	74	153	154	0	0	0	0	0	0	0	0
	ICAPS	66	66	66	0	0	0	0	0	0	0	0	0	0
93	SIMAS	154	84	80	120	121	153	154	0	0	0	0	0	0
	ICAPS	67	67	67	0	0	0	0	0	0	0	0	0	0
94	SIMAS	154	90	86	120	121	153	154	0	0	0	0	0	0
	ICAPS	124	73	70	122	124	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 600

TOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
81	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
83	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	60	8	5	58	60	0	0	0	0	0	0	0	0
84	SIMAS	59	10	8	58	59	0	0	0	0	0	0	0	0
	ICAPS	60	10	5	54	55	58	60	0	0	0	0	0	0
85	SIMAS	59	11	8	56	59	0	0	0	0	0	0	0	0
	ICAPS	60	12	5	53	56	58	60	0	0	0	0	0	0
86	SIMAS	63	16	8	56	63	0	0	0	0	0	0	0	0
	ICAPS	60	13	5	53	60	0	0	0	0	0	0	0	0
87	SIMAS	63	17	9	56	63	0	0	0	0	0	0	0	0
	ICAPS	60	13	5	53	60	0	0	0	0	0	0	0	0
88	SIMAS	64	18	9	56	64	0	0	0	0	0	0	0	0
	ICAPS	61	15	6	53	61	0	0	0	0	0	0	0	0
89	SIMAS	64	18	9	56	64	0	0	0	0	0	0	0	0
	ICAPS	65	19	6	53	65	0	0	0	0	0	0	0	0
90	SIMAS	156	22	9	53	54	56	64	155	156	0	0	0	0
	ICAPS	65	20	7	53	65	0	0	0	0	0	0	0	0
91	SIMAS	156	22	9	53	54	56	64	155	156	0	0	0	0
	ICAPS	65	20	7	53	65	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	156	24	10	53	54	56	65	155	156	0	0	0	0
	ICAPS	65	20	7	53	65	0	0	0	0	0	0	0	0
93	SIMAS	156	24	10	53	54	56	65	155	156	0	0	0	0
	ICAPS	66	22	8	53	66	0	0	0	0	0	0	0	0
94	SIMAS	160	33	11	53	65	121	122	124	125	155	156	158	160
	ICAPS	66	22	8	53	66	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
81	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
83	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	60	8	5	58	60	0	0	0	0	0	0	0	0
84	SIMAS	59	10	8	58	59	0	0	0	0	0	0	0	0
	ICAPS	60	10	5	54	55	58	60	0	0	0	0	0	0
85	SIMAS	59	12	8	56	59	0	0	0	0	0	0	0	0
	ICAPS	60	12	5	53	56	58	60	0	0	0	0	0	0
86	SIMAS	63	16	8	56	63	0	0	0	0	0	0	0	0
	ICAPS	60	13	5	53	60	0	0	0	0	0	0	0	0
87	SIMAS	63	17	9	56	63	0	0	0	0	0	0	0	0
	ICAPS	60	13	5	53	60	0	0	0	0	0	0	0	0
88	SIMAS	64	18	9	56	64	0	0	0	0	0	0	0	0
	ICAPS	61	15	6	53	61	0	0	0	0	0	0	0	0
89	SIMAS	64	18	9	56	64	0	0	0	0	0	0	0	0
	ICAPS	65	19	6	53	65	0	0	0	0	0	0	0	0
90	SIMAS	156	22	9	53	54	56	64	155	156	0	0	0	0
	ICAPS	65	20	7	53	65	0	0	0	0	0	0	0	0
1	SIMAS	156	22	9	53	54	56	64	155	156	0	0	0	0
	ICAPS	65	20	7	53	65	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	156	24	10	53	54	56	65	155	156	0	0	0	0
	ICAPS	65	20	7	53	65	0	0	0	0	0	0	0	0
93	SIMAS	156	24	10	53	54	56	65	155	156	0	0	0	0
	ICAPS	66	22	8	53	66	0	0	0	0	0	0	0	0
94	SIMAS	160	33	11	53	65	121	122	124	125	155	156	158	160
	ICAPS	66	22	8	53	66	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	57	9	5	53	54	56	57	0	0	0	0	0	0
81	SIMAS	48	14	12	47	48	0	0	0	0	0	0	0	0
	ICAPS	107	15	7	50	51	53	54	56	57	106	107	0	0
82	SIMAS	58	18	12	47	49	56	58	0	0	0	0	0	0
	ICAPS	107	16	7	50	54	56	57	106	107	0	0	0	0
83	SIMAS	59	22	14	47	49	55	59	0	0	0	0	0	0
	ICAPS	107	19	7	50	54	56	58	103	104	106	107	0	0
84	SIMAS	61	25	15	47	49	55	61	0	0	0	0	0	0
	ICAPS	107	19	7	50	54	56	58	103	104	106	107	0	0
85	SIMAS	63	28	16	47	49	55	63	0	0	0	0	0	0
	ICAPS	110	26	7	49	61	103	104	106	107	109	110	0	0
86	SIMAS	63	32	17	47	49	51	53	55	63	0	0	0	0
	ICAPS	160	30	7	49	61	103	104	106	107	109	110	156	157
87	SIMAS	154	36	19	47	49	51	53	55	63	153	154	0	0
	ICAPS	160	31	7	49	61	103	104	106	107	109	110	156	160
88	SIMAS	154	45	20	46	53	55	69	153	154	0	0	0	0
	ICAPS	161	38	8	49	61	63	65	103	110	156	161	0	0
89	SIMAS	154	49	21	46	71	153	154	0	0	0	0	0	0
	ICAPS	161	41	8	49	65	103	111	155	161	0	0	0	0
90	SIMAS	154	57	22	45	72	122	126	153	154	0	0	0	0
	ICAPS	163	45	8	47	65	103	111	155	163	0	0	0	0
91	SIMAS	154	72	24	43	75	115	118	120	128	153	154	0	0
	ICAPS	164	47	8	47	65	103	111	154	164	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	154	80	26	43	77	115	131	153	154	0	0	0	0
	ICAPS	164	51	10	47	65	101	111	154	164	0	0	0	0
93	SIMAS	190	97	29	40	79	115	136	153	154	187	190	0	0
	ICAPS	165	54	10	47	65	100	112	154	165	0	0	0	0
94	SIMAS	200	123	81	113	138	153	154	184	195	199	200	0	0
	ICAPS	165	56	11	47	65	99	112	154	165	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 60
SENSOR 23 TARGET DEPTH 60

TIM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	154	0	0	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	154	0	0	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	154	0	0	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
74	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 60
SENSOR 23 TARGET DEPTH 60

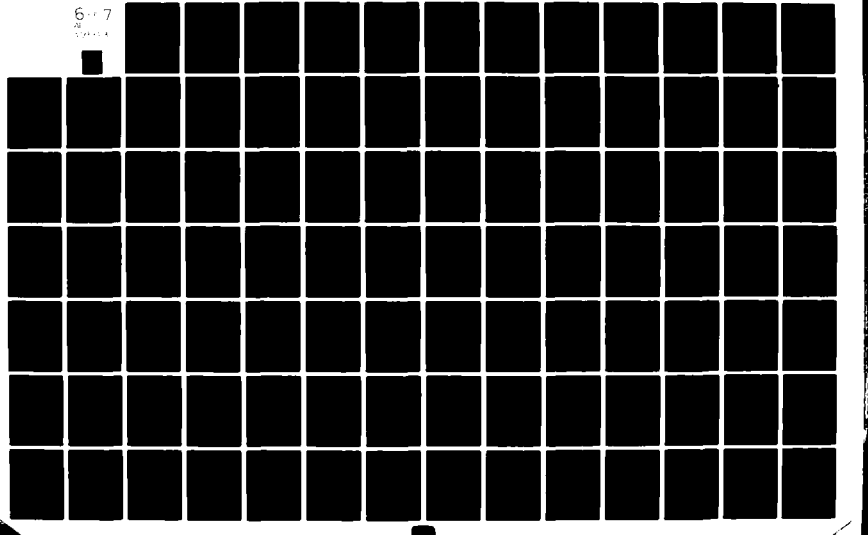
FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
79	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	57	7	5	56	57	0	0	0	0	0	0	0	0
80	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0
	ICAPS	58	10	7	56	58	0	0	0	0	0	0	0	0
81	SIMAS	22	22	22	0	0	0	0	0	0	0	0	0	0
	ICAPS	59	12	8	56	59	0	0	0	0	0	0	0	0
82	SIMAS	26	26	26	0	0	0	0	0	0	0	0	0	0
	ICAPS	59	14	10	56	59	0	0	0	0	0	0	0	0
83	SIMAS	56	31	29	55	56	0	0	0	0	0	0	0	0
	ICAPS	61	19	13	56	61	0	0	0	0	0	0	0	0
84	SIMAS	56	35	33	55	56	0	0	0	0	0	0	0	0
	ICAPS	61	21	15	56	61	0	0	0	0	0	0	0	0
85	SIMAS	154	42	38	55	56	153	154	0	0	0	0	0	0
	ICAPS	61	25	19	56	61	0	0	0	0	0	0	0	0
86	SIMAS	154	53	42	55	63	153	154	0	0	0	0	0	0
	ICAPS	61	28	22	56	61	0	0	0	0	0	0	0	0
87	SIMAS	154	58	47	55	63	153	154	0	0	0	0	0	0
	ICAPS	65	37	27	56	65	0	0	0	0	0	0	0	0
88	SIMAS	154	64	52	55	64	153	154	0	0	0	0	0	0
	ICAPS	65	41	31	56	65	0	0	0	0	0	0	0	0

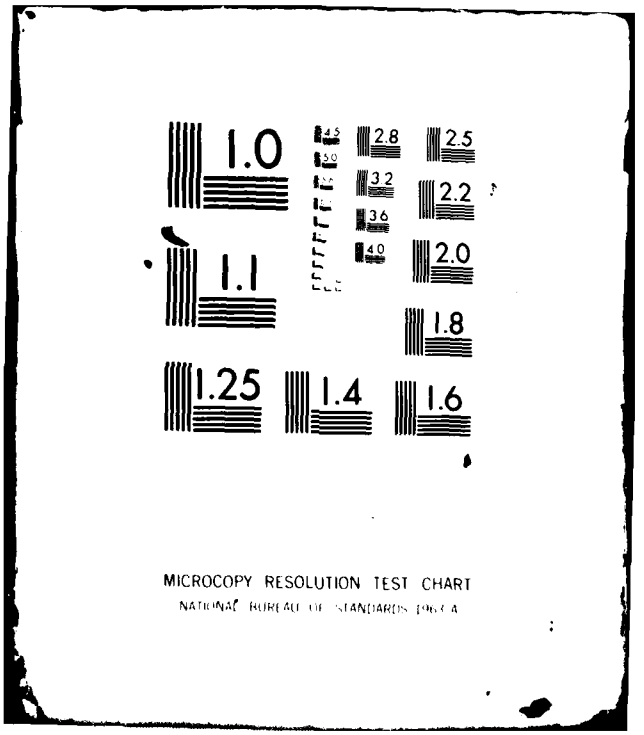
SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 60
SENSOR 23 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
72	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
76	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

AD-A098 932 NAVAL OCEAN RESEARCH AND DEVELOPMENT ACTIVITY NSTL S--ETC F/G 20/1
ACOUSTIC MODEL SENSITIVITY TO INPUT DATA DIFFERENCES: OBJECTIVE--ETC(U)
SEP 80 B A BRUNSON
UNCLASSIFIED NORDA-TN-73-VOL-2 NL




1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 60
SENSOR 23L TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
79	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
80	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
81	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
83	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	60	8	5	58	60	0	0	0	0	0	0	0	0
84	SIMAS	59	10	8	58	59	0	0	0	0	0	0	0	0
	ICAPS	60	10	5	54	55	58	60	0	0	0	0	0	0
85	SIMAS	59	12	8	56	59	0	0	0	0	0	0	0	0
	ICAPS	60	12	5	53	56	58	60	0	0	0	0	0	0
86	SIMAS	63	16	8	56	63	0	0	0	0	0	0	0	0
	ICAPS	60	13	5	53	60	0	0	0	0	0	0	0	0
87	SIMAS	63	17	9	56	63	0	0	0	0	0	0	0	0
	ICAPS	60	13	5	53	60	0	0	0	0	0	0	0	0
88	SIMAS	64	18	9	56	64	0	0	0	0	0	0	0	0
	ICAPS	61	15	6	53	61	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 300
SENSOR 23 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
76	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 300
SENSOR 23L TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
79	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
81	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	56	6	4	55	56	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
83	SIMAS	60	8	4	55	56	59	60	0	0	0	0	0	0
	ICAPS	60	8	4	57	60	0	0	0	0	0	0	0	0
84	SIMAS	61	11	5	55	56	58	61	0	0	0	0	0	0
	ICAPS	60	11	5	55	60	0	0	0	0	0	0	0	0
85	SIMAS	61	13	6	55	61	0	0	0	0	0	0	0	0
	ICAPS	63	16	6	54	63	0	0	0	0	0	0	0	0
86	SIMAS	61	13	6	55	61	0	0	0	0	0	0	0	0
	ICAPS	63	18	8	54	63	0	0	0	0	0	0	0	0
87	SIMAS	63	15	6	55	63	0	0	0	0	0	0	0	0
	ICAPS	64	19	8	54	64	0	0	0	0	0	0	0	0
88	SIMAS	155	19	8	55	63	154	155	0	0	0	0	0	0
	ICAPS	65	20	8	54	65	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 300
SENSOR 23 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
74	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 300
SENSOR 23 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
80	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
82	SIMAS	58	9	7	57	58	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
83	SIMAS	58	11	9	57	58	0	0	0	0	0	0	0	0
	ICAPS	59	11	6	52	53	57	59	0	0	0	0	0	0
84	SIMAS	60	17	10	51	52	56	60	0	0	0	0	0	0
	ICAPS	59	14	6	52	59	0	0	0	0	0	0	0	0
85	SIMAS	60	17	10	51	52	56	60	0	0	0	0	0	0
	ICAPS	59	14	6	52	59	0	0	0	0	0	0	0	0
86	SIMAS	63	20	10	51	53	56	60	62	63	0	0	0	0
	ICAPS	59	15	7	52	59	0	0	0	0	0	0	0	0
87	SIMAS	63	21	11	51	53	56	60	62	63	0	0	0	0
	ICAPS	64	21	8	52	64	0	0	0	0	0	0	0	0
88	SIMAS	64	24	11	50	53	56	64	0	0	0	0	0	0
	APS	65	22	8	52	65	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 60
SENSOR 23+1 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
71	SIMAS	8	8	3	6	8	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
72	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
73	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 60
SENSOR 23H TARGET DEPTH 60

TIM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
75	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	12	10	8	11	12	0	0	0	0	0	0	0	0
76	SIMAS	15	11	9	14	15	0	0	0	0	0	0	0	0
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0
77	SIMAS	16	15	9	11	16	0	0	0	0	0	0	0	0
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0
78	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	18	15	13	17	18	0	0	0	0	0	0	0	0
79	SIMAS	20	16	16	19	20	0	0	0	0	0	0	0	0
	ICAPS	19	17	14	17	19	0	0	0	0	0	0	0	0
80	SIMAS	21	20	17	19	21	0	0	0	0	0	0	0	0
	ICAPS	19	19	19	0	0	0	0	0	0	0	0	0	0
81	SIMAS	28	25	23	27	28	0	0	0	0	0	0	0	0
	ICAPS	24	21	19	23	24	0	0	0	0	0	0	0	0
82	SIMAS	28	26	23	26	28	0	0	0	0	0	0	0	0
	ICAPS	25	23	20	23	25	0	0	0	0	0	0	0	0
83	SIMAS	29	28	24	26	29	0	0	0	0	0	0	0	0
	ICAPS	25	24	20	22	25	0	0	0	0	0	0	0	0
84	SIMAS	59	33	24	26	29	34	36	58	59	0	0	0	0
	ICAPS	30	27	25	29	30	0	0	0	0	0	0	0	0
85	SIMAS	59	34	29	34	36	58	59	0	0	0	0	0	0
	ICAPS	31	30	26	28	31	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 60
SENSOR ESM TARGET DEPTH 600

...	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
...	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
64	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
65	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
69	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
70	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
71	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
72	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
73	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 60
SENSOR 23M TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
76	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
77	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
78	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
79	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
80	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
81	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
83	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
84	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
85	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 300
SENSOR 23m TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0

ENVIRONMENT 3 SONAR DEPTH 3
SENSOR 23H TARGET DEPTH 4

SENSOR PERFORMANCE CHART (CONT.)

FOM	DATA	RMAX	RTOTAL	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	0	0	0	0	0	0	0	0	0	0
76	SIMAS	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	[illegible]	3	0	0	0	0	0	0	0	0	0	0
77	SIMAS	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0
79	SIMAS	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0
80	SIMAS	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0
81	SIMAS	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0
83	SIMAS	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	60	6	59	60	0	0	0	0	0	0	0	0
84	SIMAS	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	60	7	59	60	0	0	0	0	0	0	0	0
85	SIMAS	60	23	59	60	0	0	0	0	0	0	0	0
	[illegible]	[illegible]	8	59	60	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 300
SENSOR 23H TARGET DEPTH 300

TGM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

ENVIRONMENT 3
SONSOR 23H

SONAR DEPTH
TARGET DEPTH

SENSOR PERFORMANCE CHART (CONT.)

FOM	DATA	RMAX	RTOTAL	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	0	0	0	0	0	0	0	0	0	0
76	SIMAS	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	0	0	0	0	0	0	0	0	0	0
77	SIMAS	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	0	0	0	0	0	0	0	0	0	0
80	SIMAS	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	^	0	0	0	0	0	0	0	0	0
81	SIMAS	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	0	0	0	0	0	0	0	0	0	0
82	SIMAS	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	56	8	55	56	0	0	0	0	0	0	0	0
83	SIMAS	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	56	9	55	56	0	0	0	0	0	0	0	0
84	SIMAS	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	56	9	55	56	0	0	0	0	0	0	0	0
[illegible]	SIMAS	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	56	9	55	56	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
96	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
97	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
98	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
99	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
100	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
101	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
102	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	14	13	11	13	14	0	0	0	0	0	0	0	0
103	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	14	13	11	13	14	0	0	0	0	0	0	0	0
104	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	14	13	11	13	14	0	0	0	0	0	0	0	0
105	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	14	13	11	13	14	0	0	0	0	0	0	0	0
106	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	14	13	11	13	14	0	0	0	0	0	0	0	0
107	SIMAS	52	14	14	51	52	0	0	0	0	0	0	0	0
	ICAPS	14	13	11	13	14	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
108	SIMAS	52	16	14	51	52	0	0	0	0	0	0	0	0
	ICAPS	14	13	11	13	14	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
96	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
97	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
98	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
99	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
100	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
101	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
102	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
103	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
104	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
105	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
106	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
107	SIMAS	51	[illegible]	4	49	51	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0

ENVIRONMENT 4 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 600

SENSOR PERFORMANCE CHART (CONT.)

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
108	SIMAS	51	7	4	49	51	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 60

RUN	DATA	RMAX	RDET	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
94	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
95	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	8	7	9	10	0	0	0	0	0	0	0	0
96	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	8	7	9	10	0	0	0	0	0	0	0	0
97	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	8	7	9	10	0	0	0	0	0	0	0	0
98	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	8	7	9	10	0	0	0	0	0	0	0	0
99	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	8	7	9	10	0	0	0	0	0	0	0	0
100	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	8	7	9	10	0	0	0	0	0	0	0	0
101	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	8	7	9	10	0	0	0	0	0	0	0	0
102	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
103	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
104	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	IDAPS	11	11	11	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 600

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
94	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
95	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
96	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
97	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
98	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
99	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
100	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
101	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
102	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
103	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
104	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 600
UNDER 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
94	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
95	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
96	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
97	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
98	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
99	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
100	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
101	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
102	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
103	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
104	SIMAS	51	8	5	49	51	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RINIAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
10%	SIMAS	51	8	5	49	51	0	0	0	0	0	0	0	0
	TRAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 600

RUN	DATA	RMAX	TOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	51	11	6	47	51	0	0	0	0	0	0	0	0
	ICAPS	53	11	9	57	58	0	0	0	0	0	0	0	0
94	SIMAS	52	12	6	47	52	0	0	0	0	0	0	0	0
	ICAPS	59	14	11	57	59	0	0	0	0	0	0	0	0
95	SIMAS	52	12	6	47	52	0	0	0	0	0	0	0	0
	ICAPS	59	15	12	57	59	0	0	0	0	0	0	0	0
96	SIMAS	52	12	6	47	52	0	0	0	0	0	0	0	0
	ICAPS	60	17	13	57	60	0	0	0	0	0	0	0	0
97	SIMAS	52	12	6	47	52	0	0	0	0	0	0	0	0
	ICAPS	61	21	14	55	61	0	0	0	0	0	0	0	0
98	SIMAS	52	13	6	46	52	0	0	0	0	0	0	0	0
	ICAPS	61	22	15	55	61	0	0	0	0	0	0	0	0
99	SIMAS	52	13	6	46	52	0	0	0	0	0	0	0	0
	ICAPS	61	23	16	55	61	0	0	0	0	0	0	0	0
100	SIMAS	52	13	6	46	52	0	0	0	0	0	0	0	0
	ICAPS	61	24	17	55	61	0	0	0	0	0	0	0	0
101	SIMAS	52	13	6	46	52	0	0	0	0	0	0	0	0
	ICAPS	62	26	18	55	62	0	0	0	0	0	0	0	0
102	SIMAS	99	17	7	46	52	97	99	0	0	0	0	0	0
	ICAPS	62	26	18	55	62	0	0	0	0	0	0	0	0
103	SIMAS	99	13	7	45	52	97	99	0	0	0	0	0	0
	ICAPS	63	28	19	55	63	0	0	0	0	0	0	0	0
104	SIMAS	99	20	7	45	53	96	99	0	0	0	0	0	0
	ICAPS	63	29	20	55	63	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	99	20	7	45	53	96	99	0	0	0	0	0	0
	ICAPS	63	30	21	55	63	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 20
SENSOR 7 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
81	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	8	5	7	9	0	0	0	0	0	0	0	0
82	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	8	5	7	9	0	0	0	0	0	0	0	0
83	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	8	9	0	0	0	0	0	0	0	0	0	0
84	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	8	9	0	0	0	0	0	0	0	0	0	0
85	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	12	11	9	11	12	0	0	0	0	0	0	0	0
86	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	12	11	9	11	12	0	0	0	0	0	0	0	0
87	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	12	11	9	11	12	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 20
SENSOR 7 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
81	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
83	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
85	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
86	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
87	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 60
SENSOR 9 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	15	14	12	14	15	0	0	0	0	0	0	0	0
94	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	15	14	12	14	15	0	0	0	0	0	0	0	0
95	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	15	14	12	14	15	0	0	0	0	0	0	0	0
96	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	15	14	12	14	15	0	0	0	0	0	0	0	0
97	SIMAS	55	20	17	53	55	0	0	0	0	0	0	0	0
	ICAPS	15	14	12	14	15	0	0	0	0	0	0	0	0
98	SIMAS	55	21	18	53	55	0	0	0	0	0	0	0	0
	ICAPS	16	15	12	14	16	0	0	0	0	0	0	0	0
99	SIMAS	55	21	18	51	55	0	0	0	0	0	0	0	0
	ICAPS	16	15	12	14	16	0	0	0	0	0	0	0	0
100	SIMAS	55	21	18	51	55	0	0	0	0	0	0	0	0
	ICAPS	16	15	12	14	16	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 60
SENSOR 9 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	50	6	4	49	50	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
94	SIMAS	51	8	5	49	51	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
95	SIMAS	54	10	5	49	51	53	54	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
96	SIMAS	54	11	5	49	54	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
97	SIMAS	54	12	6	49	54	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
98	SIMAS	54	12	6	49	54	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
99	SIMAS	55	13	6	49	55	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
100	SIMAS	55	13	6	49	55	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 600
SENSOR 9 TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	51	5	5	49	51	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
94	SIMAS	54	10	5	49	51	53	54	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
95	SIMAS	54	11	5	49	54	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
96	SIMAS	54	12	6	49	54	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
97	SIMAS	54	12	6	49	54	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
98	SIMAS	55	13	6	49	55	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
99	SIMAS	55	13	6	49	55	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
100	SIMAS	56	14	6	49	56	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 600
SENSOR 9 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	100	20	7	45	53	97	100	0	0	0	0	0	0
	ICAPS	61	15	8	55	61	0	0	0	0	0	0	0	0
94	SIMAS	100	23	7	45	55	96	100	0	0	0	0	0	0
	ICAPS	116	21	10	55	62	114	116	0	0	0	0	0	0
95	SIMAS	101	24	7	45	55	96	101	0	0	0	0	0	0
	ICAPS	116	25	12	55	62	112	116	0	0	0	0	0	0
96	SIMAS	101	26	8	45	55	95	101	0	0	0	0	0	0
	ICAPS	117	29	15	55	62	112	117	0	0	0	0	0	0
97	SIMAS	102	28	8	44	55	95	102	0	0	0	0	0	0
	ICAPS	117	34	18	55	63	111	117	0	0	0	0	0	0
98	SIMAS	102	29	8	44	56	95	102	0	0	0	0	0	0
	ICAPS	11	39	21	54	64	111	117	0	0	0	0	0	0
99	SIMAS	148	32	8	44	56	95	102	146	148	0	0	0	0
	ICAPS	118	46	26	53	64	111	118	0	0	0	0	0	0
100	SIMAS	149	33	8	44	56	95	102	146	149	0	0	0	0
	ICAPS	120	53	31	53	64	111	120	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	10	6	8	11	0	0	0	0	0	0	0	0
75	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
76	SIMAS	16	15	13	15	16	0	0	0	0	0	0	0	0
	ICAPS	14	13	11	13	14	0	0	0	0	0	0	0	0
77	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAPS	16	16	16	0	0	0	0	0	0	0	0	0	0
78	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAPS	16	16	16	0	0	0	0	0	0	0	0	0	0
79	SIMAS	25	24	20	22	25	0	0	0	0	0	0	0	0
	ICAPS	[illegible]	19	19	0	0	0	0	0	0	0	0	0	0
80	SIMAS	25	25	25	0	0	0	0	0	0	0	0	0	0
	ICAPS	23	23	23	0	0	0	0	0	0	0	0	0	0
81	SIMAS	30	29	25	27	30	0	0	0	0	0	0	0	0
	ICAPS	28	26	23	26	28	0	0	0	0	0	0	0	0
82	SIMAS	30	29	25	27	30	0	0	0	0	0	0	0	0
	ICAPS	28	27	23	25	28	0	0	0	0	0	0	0	0
83	SIMAS	30	30	30	0	0	0	0	0	0	0	0	0	0
	ICAPS	33	31	28	31	33	0	0	0	0	0	0	0	0
84	SIMAS	52	36	30	32	37	51	52	0	0	0	0	0	0
	ICAPS	33	32	28	30	33	0	0	0	0	0	0	0	0
85	SIMAS	54	42	37	50	54	0	0	0	0	0	0	0	0
	ICAPS	38	36	28	30	33	35	38	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	54	42	37	50	54	0	0	0	0	0	0	0	0
	ICAPS	43	40	28	30	33	35	38	40	43	0	0	0	0
87	SIMAS	55	47	37	41	44	50	55	0	0	0	0	0	0
	ICAPS	60	43	33	35	38	40	43	59	60	0	0	0	0
88	SIMAS	55	50	44	50	55	0	0	0	0	0	0	0	0
	ICAPS	61	49	33	35	38	40	43	45	48	58	61	0	0
89	SIMAS	55	52	46	50	55	0	0	0	0	0	0	0	0
	ICAPS	61	53	39	40	43	45	48	58	61	0	0	0	0
90	SIMAS	56	55	46	48	56	0	0	0	0	0	0	0	0
	ICAPS	62	57	50	52	53	58	62	0	0	0	0	0	0
91	SIMAS	57	57	57	0	0	0	0	0	0	0	0	0	0
	ICAPS	63	61	50	52	55	57	63	0	0	0	0	0	0
92	SIMAS	103	60	57	101	103	0	0	0	0	0	0	0	0
	ICAPS	64	63	55	57	64	0	0	0	0	0	0	0	0
93	SIMAS	109	63	58	101	103	108	109	0	0	0	0	0	0
	ICAPS	121	66	55	57	65	120	121	0	0	0	0	0	0
94	SIMAS	109	68	62	101	104	108	109	0	0	0	0	0	0
	ICAPS	121	70	55	57	65	67	69	119	121	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
77	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
79	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
83	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
84	SIMAS	53	8	4	49	50	52	53	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
85	SIMAS	55	10	4	49	50	52	55	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	55	12	5	48	50	52	55	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
87	SIMAS	55	12	5	48	50	52	55	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
88	SIMAS	104	16	6	48	55	103	104	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
89	SIMAS	104	18	9	48	55	103	104	0	0	0	0	0	0
	ICAPS	58	7	5	57	58	0	0	0	0	0	0	0	0
90	SIMAS	105	28	13	48	56	99	101	103	105	0	0	0	0
	ICAPS	63	10	5	57	59	62	63	0	0	0	0	0	0
91	SIMAS	106	36	20	48	56	99	101	103	106	0	0	0	0
	ICAPS	63	12	7	57	59	62	63	0	0	0	0	0	0
92	SIMAS	155	47	26	48	56	99	101	103	109	154	155	0	0
	ICAPS	63	15	8	56	59	61	63	0	0	0	0	0	0
93	SIMAS	155	54	30	48	56	99	109	150	151	154	155	0	0
	ICAPS	64	17	8	56	64	0	0	0	0	0	0	0	0
94	SIMAS	156	61	34	47	56	99	109	150	152	154	156	0	0
	ICAPS	119	20	8	56	64	117	119	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
79	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
80	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
81	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
82	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
83	SIMAS	53	20	18	52	53	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	53	23	21	52	53	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
85	SIMAS	54	26	23	52	54	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	55	32	26	49	50	52	55	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
87	SIMAS	55	36	29	49	55	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
88	SIMAS	55	38	31	49	55	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
89	SIMAS	55	41	34	49	55	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
90	SIMAS	105	50	37	49	56	100	101	103	105	0	0	0	0
	ICAPS	59	6	4	59	59	0	0	0	0	0	0	0	0
91	SIMAS	105	53	40	49	56	100	101	103	105	0	0	0	0
	ICAPS	59	9	4	6	7	57	59	0	0	0	0	0	0
92	SIMAS	105	56	42	48	56	100	101	103	105	0	0	0	0
	ICAPS	63	12	4	6	7	57	59	61	63	0	0	0	0
93	SIMAS	152	66	46	48	56	100	101	103	109	151	152	0	0
	ICAPS	63	14	4	6	8	57	63	0	0	0	0	0	0
94	SIMAS	156	70	56	100	101	103	109	151	152	154	156	0	0
	ICAPS	119	17	8	57	63	118	119	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
78	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
79	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	58	8	5	57	58	0	0	0	0	0	0	0	0
80	SIMAS	52	6	4	51	52	0	0	0	0	0	0	0	0
	ICAPS	58	9	5	55	58	0	0	0	0	0	0	0	0
81	SIMAS	52	7	5	51	52	0	0	0	0	0	0	0	0
	ICAPS	58	9	5	55	58	0	0	0	0	0	0	0	0
82	SIMAS	52	8	5	50	52	0	0	0	0	0	0	0	0
	ICAPS	115	14	6	55	59	112	115	0	0	0	0	0	0
83	SIMAS	54	10	5	50	54	0	0	0	0	0	0	0	0
	ICAPS	115	15	6	55	59	112	115	0	0	0	0	0	0
84	SIMAS	54	11	6	50	54	0	0	0	0	0	0	0	0
	ICAPS	115	15	6	55	59	112	115	0	0	0	0	0	0
85	SIMAS	54	14	7	47	48	50	54	0	0	0	0	0	0
	ICAPS	172	20	6	55	60	112	115	169	172	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	103	17	7	47	48	50	54	101	103	0	0	0	0
	ICAPS	172	24	7	54	61	112	116	169	172	0	0	0	0
87	SIMAS	103	17	7	47	48	50	54	101	103	0	0	0	0
	ICAPS	172	24	7	54	61	112	116	169	172	0	0	0	0
88	SIMAS	103	22	10	47	48	50	54	98	99	101	103	0	0
	ICAPS	172	25	8	54	61	112	116	169	172	0	0	0	0
89	SIMAS	153	24	10	47	54	98	99	101	105	107	108	152	153
	ICAPS	172	28	8	54	62	111	117	169	172	0	0	0	0
90	SIMAS	153	35	15	47	54	98	99	101	105	107	109	152	153
	ICAPS	173	33	8	54	62	64	65	111	118	168	173	0	0
91	SIMAS	154	49	23	47	57	98	99	101	105	107	109	149	150
	ICAPS	174	39	8	53	65	111	121	168	174	0	0	0	0
92	SIMAS	154	56	28	46	57	98	99	101	105	107	110	149	150
	ICAPS	176	43	9	52	65	111	121	168	176	0	0	0	0
93	SIMAS	159	67	33	44	57	98	99	101	105	107	110	149	150
	ICAPS	177	45	9	52	65	111	122	168	177	0	0	0	0
94	SIMAS	159	73	36	44	58	98	110	149	150	152	154	156	159
	ICAPS	177	47	9	50	65	111	122	168	177	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	34	33	30	32	34	0	0	0	0	0	0	0	0
	ICAPS	27	25	23	26	27	0	0	0	0	0	0	0	0
81	SIMAS	37	36	34	36	37	0	0	0	0	0	0	0	0
	ICAPS	28	27	24	26	28	0	0	0	0	0	0	0	0
82	SIMAS	41	40	38	40	41	0	0	0	0	0	0	0	0
	ICAPS	29	29	29	0	0	0	0	0	0	0	0	0	0
83	SIMAS	52	44	38	40	41	44	45	51	52	0	0	0	0
	ICAPS	29	29	29	0	0	0	0	0	0	0	0	0	0
84	SIMAS	55	51	38	40	45	47	48	51	52	54	55	0	0
	ICAPS	32	31	29	31	32	0	0	0	0	0	0	0	0
85	SIMAS	55	52	45	47	48	51	55	0	0	0	0	0	0
	ICAPS	38	36	32	34	35	37	38	0	0	0	0	0	0
86	SIMAS	55	54	45	47	55	0	0	0	0	0	0	0	0
	ICAPS	44	42	38	40	41	43	44	0	0	0	0	0	0
87	SIMAS	59	57	45	47	56	58	59	0	0	0	0	0	0
	ICAPS	60	44	38	40	41	43	44	59	60	0	0	0	0
88	SIMAS	63	60	56	58	59	62	63	0	0	0	0	0	0
	ICAPS	61	47	44	59	61	0	0	0	0	0	0	0	0
89	SIMAS	63	60	56	58	59	62	63	0	0	0	0	0	0
	ICAPS	61	50	47	59	61	0	0	0	0	0	0	0	0
90	SIMAS	70	67	63	65	66	69	70	0	0	0	0	0	0
	ICAPS	61	53	47	54	55	58	61	0	0	0	0	0	0
91	SIMAS	74	71	67	69	70	73	74	0	0	0	0	0	0
	ICAPS	61	57	47	49	50	52	55	58	61	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	106	80	67	69	71	73	74	76	78	101	102	104	106
	ICAPS	61	57	47	49	50	52	55	58	61	0	0	0	0
93	SIMAS	109	87	74	76	78	80	81	101	102	104	109	0	0
	ICAPS	121	91	50	52	55	58	62	120	121	0	0	0	0
94	SIMAS	110	93	78	80	82	84	85	101	110	0	0	0	0
	ICAPS	121	92	55	58	62	120	121	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
83	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
84	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
85	SIMAS	53	8	4	49	50	52	53	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
86	SIMAS	53	10	5	49	53	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
87	SIMAS	55	12	5	49	55	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
88	SIMAS	55	13	6	49	55	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
89	SIMAS	56	17	8	49	56	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
90	SIMAS	104	24	13	48	56	103	104	0	0	0	0	0	0
	ICAPS	58	6	4	57	58	0	0	0	0	0	0	0	0
91	SIMAS	104	32	20	48	56	102	104	0	0	0	0	0	0
	ICAPS	63	10	5	57	59	62	63	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	107	43	26	48	56	99	104	106	107	0	0	0	0
	ICAPS	63	12	7	57	59	62	63	0	0	0	0	0	0
93	SIMAS	151	52	29	48	57	99	104	106	110	150	151	0	0
	ICAPS	63	13	7	57	59	61	63	0	0	0	0	0	0
94	SIMAS	151	56	33	48	57	99	104	106	110	150	151	0	0
	ICAPS	64	17	9	56	59	61	64	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
83	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
84	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
85	SIMAS	53	8	4	49	50	52	53	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
86	SIMAS	55	12	5	49	55	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
87	SIMAS	55	13	6	49	55	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
88	SIMAS	55	13	6	49	55	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
89	SIMAS	56	17	8	48	56	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
90	SIMAS	104	24	13	48	56	103	104	0	0	0	0	0	0
	ICAPS	58	6	4	57	58	0	0	0	0	0	0	0	0
91	SIMAS	104	32	20	48	56	102	104	0	0	0	0	0	0
	ICAPS	63	10	5	57	59	62	63	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	107	43	26	48	56	99	104	106	107	0	0	0	0
	ICAPS	63	12	7	57	59	62	63	0	0	0	0	0	0
93	SIMAS	151	53	30	48	57	99	104	106	110	150	151	0	0
	ICAPS	63	13	7	57	59	61	63	0	0	0	0	0	0
94	SIMAS	151	57	34	48	57	99	104	106	110	150	151	0	0
	ICAPS	64	17	9	56	59	61	64	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 OCEAN DEPTH 600
SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
79	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	8	5	55	57	0	0	0	0	0	0	0	0
81	SIMAS	48	11	9	47	48	0	0	0	0	0	0	0	0
	ICAPS	59	11	5	54	59	0	0	0	0	0	0	0	0
82	SIMAS	56	16	10	47	48	50	51	55	56	0	0	0	0
	ICAPS	114	14	6	54	59	113	114	0	0	0	0	0	0
83	SIMAS	56	20	11	46	51	54	56	0	0	0	0	0	0
	ICAPS	114	15	6	54	60	113	114	0	0	0	0	0	0
84	SIMAS	56	23	12	46	51	0	0	0	0	0	0	0	0
	ICAPS	171	20	6	54	60	112	116	170	171	0	0	0	0
85	SIMAS	106	27	14	46	56	105	106	0	0	0	0	0	0
	ICAPS	171	22	7	54	60	111	116	170	171	0	0	0	0
86	SIMAS	106	32	15	45	56	101	102	104	106	0	0	0	0
	ICAPS	171	23	7	54	61	111	116	170	171	0	0	0	0
87	SIMAS	107	37	16	44	56	98	99	101	102	104	107	0	0
	ICAPS	173	26	7	54	62	111	116	168	173	0	0	0	0
88	SIMAS	153	48	18	41	53	97	102	104	107	152	153	0	0
	ICAPS	173	29	7	54	62	111	117	168	173	0	0	0	0
89	SIMAS	153	54	19	36	58	97	102	104	107	152	153	0	0
	ICAPS	173	30	7	54	62	111	118	168	173	0	0	0	0
90	SIMAS	153	65	21	32	59	97	108	148	149	152	153	0	0
	ICAPS	173	34	9	54	62	111	120	168	173	0	0	0	0
91	SIMAS	156	79	24	28	60	96	109	148	153	155	156	0	0
	ICAPS	173	40	9	52	63	111	121	168	173	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	200	83	62	94	111	148	156	161	162	199	200	0	0
	ICAPS	177	45	9	52	66	111	121	168	177	0	0	0	0
93	SIMAS	200	89	62	89	111	148	156	160	162	199	200	0	0
	ICAPS	177	47	9	52	66	111	122	167	177	0	0	0	0
94	SIMAS	200	108	63	87	111	145	162	199	200	0	0	0	0
	ICAPS	177	49	10	52	66	110	122	167	177	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 60
SENSOR 23 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	4	3	1	3	4	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
66	SIMAS	4	3	1	3	4	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
67	SIMAS	4	3	1	3	4	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
68	SIMAS	8	6	4	7	8	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
69	SIMAS	8	6	4	7	8	0	0	0	0	0	0	0	0
	ICAPS	9	8	6	8	9	0	0	0	0	0	0	0	0
70	SIMAS	11	9	5	7	8	10	11	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
71	SIMAS	11	9	5	7	8	10	11	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
72	SIMAS	11	10	8	10	11	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
73	SIMAS	15	12	8	10	11	14	15	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
74	SIMAS	16	14	8	10	12	14	16	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0
75	SIMAS	19	18	8	10	19	0	0	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0
76	SIMAS	22	20	8	10	19	21	22	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 60
SENSOR 23 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	26	23	19	21	22	25	26	0	0	0	0	0	0
	ICAPS	18	17	15	17	18	0	0	0	0	0	0	0	0
78	SIMAS	26	25	19	21	26	0	0	0	0	0	0	0	0
	ICAPS	23	23	23	0	0	0	0	0	0	0	0	0	0
79	SIMAS	30	30	30	0	0	0	0	0	0	0	0	0	0
	ICAPS	23	23	23	0	0	0	0	0	0	0	0	0	0
80	SIMAS	34	33	30	32	34	0	0	0	0	0	0	0	0
	ICAPS	27	25	23	26	27	0	0	0	0	0	0	0	0
81	SIMAS	37	36	34	36	37	0	0	0	0	0	0	0	0
	ICAPS	28	27	24	26	28	0	0	0	0	0	0	0	0
82	SIMAS	41	40	38	40	41	0	0	0	0	0	0	0	0
	ICAPS	29	29	29	0	0	0	0	0	0	0	0	0	0
83	SIMAS	52	44	38	40	41	44	45	51	52	0	0	0	0
	ICAPS	29	29	29	0	0	0	0	0	0	0	0	0	0
84	SIMAS	55	50	38	40	45	47	48	51	52	54	55	0	0
	ICAPS	32	31	29	31	32	0	0	0	0	0	0	0	0
85	SIMAS	55	52	45	47	48	51	55	0	0	0	0	0	0
	ICAPS	38	36	32	34	35	37	38	0	0	0	0	0	0
86	SIMAS	55	54	45	47	55	0	0	0	0	0	0	0	0
	ICAPS	44	42	38	40	41	43	44	0	0	0	0	0	0
87	SIMAS	59	57	45	47	56	58	59	0	0	0	0	0	0
	ICAPS	60	44	38	40	41	43	44	59	60	0	0	0	0
88	SIMAS	63	60	56	58	59	62	63	0	0	0	0	0	0
	ICAPS	61	47	44	59	61	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 60
SENSOR 23 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 60
SENSOR 23 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RLONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
79	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
83	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
84	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
85	SIMAS	53	8	4	49	50	52	53	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
86	SIMAS	53	10	5	49	53	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
87	SIMAS	55	12	5	49	55	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
88	SIMAS	55	13	6	49	55	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 300
SENSOR 23 TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
69	SIMAS	6	5	3	5	6	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
70	SIMAS	6	5	3	5	6	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
71	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
72	SIMAS	9	8	6	8	9	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
73	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
74	SIMAS	16	14	10	12	13	15	16	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
75	SIMAS	16	15	13	15	16	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
76	SIMAS	17	16	13	15	17	0	0	0	0	0	0	0	0
	ICAPS	12	11	9	11	12	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 300
SENSOR 23 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	20	18	13	15	17	19	20	0	0	0	0	0	0
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0
78	SIMAS	20	19	17	19	20	0	0	0	0	0	0	0	0
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0
79	SIMAS	21	20	17	19	21	0	0	0	0	0	0	0	0
	ICAPS	17	16	13	15	17	0	0	0	0	0	0	0	0
80	SIMAS	23	22	17	19	23	0	0	0	0	0	0	0	0
	ICAPS	18	18	18	0	0	0	0	0	0	0	0	0	0
81	SIMAS	27	26	24	26	27	0	0	0	0	0	0	0	0
	ICAPS	22	21	18	20	22	0	0	0	0	0	0	0	0
82	SIMAS	31	28	24	26	27	30	31	0	0	0	0	0	0
	ICAPS	22	22	22	0	0	0	0	0	0	0	0	0	0
83	SIMAS	52	32	24	26	31	51	52	0	0	0	0	0	0
	ICAPS	27	26	23	25	27	0	0	0	0	0	0	0	0
84	SIMAS	52	34	31	50	52	0	0	0	0	0	0	0	0
	ICAPS	31	29	27	30	31	0	0	0	0	0	0	0	0
85	SIMAS	54	40	35	50	54	0	0	0	0	0	0	0	0
	ICAPS	32	32	32	0	0	0	0	0	0	0	0	0	0
86	SIMAS	55	41	35	50	55	0	0	0	0	0	0	0	0
	ICAPS	36	34	32	-	36	0	0	0	0	0	0	0	0
87	SIMAS	55	41	35	50	55	0	0	0	0	0	0	0	0
	ICAPS	60	41	37	.40	41	59	60	0	0	0	0	0	0
88	SIMAS	55	47	39	43	44	50	55	0	0	0	0	0	0
	ICAPS	61	43	37	39	41	59	61	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

L...TRANCE T 4 SONAR DEPTH 300
SENSOR 23 TARGET DEPTH 600

RUN	DATA	NMAX	NTOTAL	NCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	IDAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	IDAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	IDAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	IDAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	IDAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	IDAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	IDAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	IDAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	IDAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	IDAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	IDAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	IDAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

ENVIRONMENT 4 SIMAS DEPTH
SENSOR 23 TARGET DEPTH

FOM	DATA	MAX	TOTAL
77	SIMAS	3	3
	ICAPS	3	3
78	SIMAS	3	3
	ICAPS	3	3
79	SIMAS	3	3
	ICAPS	4	4
80	SIMAS	3	3
	ICAPS	4	4
81	SIMAS	3	3
	ICAPS	4	4
82	SIMAS	50	6
	ICAPS	4	4
83	SIMAS	50	6
	ICAPS	4	4
84	SIMAS	54	10
	ICAPS	5	5
85	SIMAS	54	11
	ICAPS	5	5
86	SIMAS	55	12
	ICAPS	5	5
87	SIMAS	55	13
	ICAPS	5	5
88	SIMAS	105	21
	ICAPS	5	5

SENSOR PERFORMANCE CHART (CONT.)

R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
49	50	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
49	50	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
48	50	52	54	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
48	50	52	54	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
48	50	52	55	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
48	50	52	55	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
48	56	100	101	103	105	0	0	0	0
0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 OCEAN DEPTH 60
SENSOR 23 TARGET DEPTH 60

ROW	DATA	NUM	TOTAL	FRONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMS	4	3	1	2	4	0	1	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
63	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
64	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
65	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
66	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
67	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
68	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	7	5	7	8	0	0	0	0	0	0	0	0
69	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
70	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
71	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
72	SIMAS	11	10	8	10	11	0	0	0	0	0	0	0	0
	ICAPS		9	9	0	0	0	0	0	0	0	0	0	0
73	SIMAS	11	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	10	10	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SCORE SET: 60
SENSOR 23M1 TARGET SET: 60

ROW	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	11	11	0	0	0	0	0	0	0	0	0	0
75	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
76	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0
77	SIMAS	17	16	14	16	17	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0
78	SIMAS	21	20	18	20	21	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0
79	SIMAS	21	20	18	20	21	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0
80	SIMAS	21	20	18	20	21	0	0	0	0	0	0	0	0
	ICAPS	22	19	17	21	22	0	0	0	0	0	0	0	0
81	SIMAS	21	21	21	0	0	0	0	0	0	0	0	0	0
	ICAPS	22	19	17	21	22	0	0	0	0	0	0	0	0
82	SIMAS	22	22	22	0	0	0	0	0	0	0	0	0	0
	ICAPS	22	21	17	19	22	0	0	0	0	0	0	0	0
83	SIMAS	25	24	22	24	25	0	0	0	0	0	0	0	0
	ICAPS	22	22	22	0	0	0	0	0	0	0	0	0	0
84	SIMAS	28	27	25	27	28	0	0	0	0	0	0	0	0
	ICAPS	25	25	25	0	0	0	0	0	0	0	0	0	0
85	SIMAS	28	27	25	27	28	0	0	0	0	0	0	0	0
	ICAPS	25	25	25	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 60
SENSOR 23-4 TARGET DEPTH 600

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 60
SENSOR 23: TARGET DEPTH 600

COM	DATA	RMAX	RATE	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
79	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
83	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
85	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 300
SENSOR 23:1 TARGET DEPTH 60

FOM	DAT	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
70	SIMAS	6	5	3	5	6	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
71	SIMAS	6	5	3	5	6	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
72	SIMAS	6	5	3	5	6	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	6	4	6	7	0	0	0	0	0	0	0	0

ENVIRONMENT 4 SONAR DEPTH
SENSOR 23,1 TARGET DEPTH

SENSOR PERFORMANCE CHART (CONT.)

FOM	DATA	RMAX	RTOTAL	21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	0	0	0	0	0	0	0	0	0	0
75	SIMAS	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	0	0	0	0	0	0	0	0	0	0
76	SIMAS	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	0	0	0	0	0	0	0	0	0	0
77	SIMAS	13	12	12	13	0	0	0	0	0	0	0	0
	ICAPS	9	9	0	0	0	0	0	0	0	0	0	0
78	SIMAS	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	0	0	0	0	0	0	0	0	0	0
79	SIMAS	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	14	13	13	14	0	0	0	0	0	0	0	0
80	SIMAS	17	16	15	17	0	0	0	0	0	0	0	0
	ICAPS	14	14	0	0	0	0	0	0	0	0	0	0
81	SIMAS	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	14	14	0	0	0	0	0	0	0	0	0	0
82	SIMAS	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	16	16	17	0	0	0	0	0	0	0	0
83	SIMAS	20	19	19	20	0	0	0	0	0	0	0	0
	ICAPS	17	17	0	0	0	0	0	0	0	0	0	0
84	SIMAS	20	20	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	17	0	0	0	0	0	0	0	0	0	0
85	SIMAS	24	23	23	24	0	0	0	0	0	0	0	0
	ICAPS	25	21	23	25	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SCAN LEN = 500
SENSOR 23M TARGET LEN = 600

FOM	DATA	KMAX	STATE	ICONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	.	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 OCEAN DEPTH 300
SENSOR 13M TARGET DEPTH 200

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
77	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
79	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
83	SIMAS	53	6	4	52	53	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
84	SIMAS	53	6	4	52	53	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
85	SIMAS	53	6	4	52	53	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
96	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
97	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
98	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0
99	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0
100	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0
101	SIMAS	66	6	3	64	66	0	0	0	0	0	0	0	0
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0
102	SIMAS	66	6	3	64	66	0	0	0	0	0	0	0	0
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0
103	SIMAS	66	6	3	64	66	0	0	0	0	0	0	0	0
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0
104	SIMAS	66	6	3	64	66	0	0	0	0	0	0	0	0
	ICAPS	67	7	3	64	67	0	0	0	0	0	0	0	0
105	SIMAS	66	7	3	63	66	0	0	0	0	0	0	0	0
	ICAPS	67	7	3	64	67	0	0	0	0	0	0	0	0
106	SIMAS	67	8	3	63	67	0	0	0	0	0	0	0	0
	ICAPS	67	7	3	64	67	0	0	0	0	0	0	0	0
107	SIMAS	67	8	3	63	67	0	0	0	0	0	0	0	0
	ICAPS	67	7	3	64	67	0	0	0	0	0	0	0	0

ENVIRONMENT 5 SONAR DEPTH
SENSOR 2 TARGET DEPTH

FOM	DATA	RMAX	RTOTAL
100	SIMAS	67	8
	ICAPS	67	7

SENSOR PERFORMANCE CHART (CONT.)

R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
63	67	0	0	0	0	0	0	0	0
64	67	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 600

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
96	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
97	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
98	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
99	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
100	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
101	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
102	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
103	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
104	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
105	SIMAS	66	8	5	64	66	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
106	SIMAS	66	10	5	62	66	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
107	SIMAS	66	10	5	62	66	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
108	SIMAS	66	10	5	62	66	0	0	0	0	0	0	0	0
	ICAPS	65	7	5	64	65	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENGAGEMENT 5 SONAR DEPTH 60
RUN 6 TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	IDAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
94	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	IDAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
95	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	IDAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
96	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	IDAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
97	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	IDAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
98	SIMAS	65	6	4	64	65	0	0	0	0	0	0	0	0
	IDAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
99	SIMAS	65	6	4	64	65	0	0	0	0	0	0	0	0
	IDAPS	66	5	3	65	66	0	0	0	0	0	0	0	0
100	SIMAS	65	7	4	63	65	0	0	0	0	0	0	0	0
	IDAPS	66	5	3	65	66	0	0	0	0	0	0	0	0
101	SIMAS	65	7	4	63	65	0	0	0	0	0	0	0	0
	IDAPS	66	6	4		66	0	0	0	0	0	0	0	0
102	SIMAS	65	7	4	63	65	0	0	0	0	0	0	0	0
	IDAPS	66	6	4	65	66	0	0	0	0	0	0	0	0
103	SIMAS	65	7	4	63	65	0	0	0	0	0	0	0	0
	IDAPS	66	6	4	65	66	0	0	0	0	0	0	0	0
104	SIMAS	65	7	4	63	65	0	0	0	0	0	0	0	0
	IDAPS	66	6	4	65	66	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	66	8	4	63	66	0	0	0	0	0	0	0	0
	ICAPS	66	6	4	65	66	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

SONAR DEPTH 60
TARGET DEPTH 600

	DATA	RMAX	RTOTAL	RCUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
V3	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
V4	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
V5	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
V6	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
V7	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
V8	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
V9	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
	SIMAS	63	6	4	62	63	0	0	0	0	0	0	0	0
V10	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
	SIMAS	63	6	4	62	63	0	0	0	0	0	0	0	0
V11	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
	SIMAS	63	6	4	62	63	0	0	0	0	0	0	0	0
V12	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
	SIMAS	63	6	4	62	63	0	0	0	0	0	0	0	0
V13	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
	SIMAS	63	6	4	62	63	0	0	0	0	0	0	0	0
V14	ICAPS	64	6	4	63	64	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 600

ITEM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
195	SIMS	63	6	4	62	63	0	0	0	0	0	0	0	0
	IDAPS	64	6	4	63	64	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
94	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
95	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
96	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
97	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
98	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
99	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
100	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
101	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
102	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
103	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
104	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
10%	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	IDAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 600

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	62	58	46	48	54	58	62	0	0	0	0	0	0
94	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	70	62	54	58	62	68	70	0	0	0	0	0	0
95	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	70	66	55	57	63	67	70	0	0	0	0	0	0
96	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	78	70	55	57	63	66	71	77	78	0	0	0	0
97	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	79	73	63	66	71	76	79	0	0	0	0	0	0
98	SIMAS	78	18	16	77	73	0	0	0	0	0	0	0	0
	ICAPS	79	76	71	75	79	0	0	0	0	0	0	0	0
99	SIMAS	78	21	17	74	75	77	78	0	0	0	0	0	0
	ICAPS	87	80	72	75	79	85	87	0	0	0	0	0	0
100	SIMAS	78	24	17	66	68	74	75	77	78	0	0	0	0
	ICAPS	88	85	80	84	88	0	0	0	0	0	0	0	0
101	SIMAS	78	26	17	64	68	74	75	77	78	0	0	0	0
	ICAPS	95	87	80	84	88	94	95	0	0	0	0	0	0
102	SIMAS	78	27	17	64	68	74	78	0	0	0	0	0	0
	ICAPS	96	91	81	83	88	93	96	0	0	0	0	0	0
103	SIMAS	80	35	17	62	70	72	80	0	0	0	0	0	0
	ICAPS	104	98	89	92	97	102	104	0	0	0	0	0	0
104	SIMAS	82	41	18	60	82	0	0	0	0	0	0	0	0
	ICAPS	105	99	89	92	97	102	105	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	83	42	18	60	83	0	0	0	0	0	0	0	0
	ICAPS	112	104	97	101	105	111	112	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 20
SENSOR 7 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
83	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
85	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
86	SIMAS	65	6	4	64	65	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
87	SIMAS	65	6	4	64	65	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 20
SENSOR 7 TARGET DEPTH 600

TOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
81	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
82	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
83	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
84	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
85	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
86	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
87	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 60
SENSOR 9 TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	66	9	5	63	66	0	0	0	0	0	0	0	0
	ICAPS	66	8	5	64	66	0	0	0	0	0	0	0	0
94	SIMAS	66	9	5	63	66	0	0	0	0	0	0	0	0
	ICAPS	66	8	5	64	66	0	0	0	0	0	0	0	0
95	SIMAS	66	9	5	63	66	0	0	0	0	0	0	0	0
	ICAPS	66	8	5	64	66	0	0	0	0	0	0	0	0
96	SIMAS	66	9	5	63	66	0	0	0	0	0	0	0	0
	ICAPS	67	9	5	64	67	0	0	0	0	0	0	0	0
97	SIMAS	66	9	5	63	66	0	0	0	0	0	0	0	0
	ICAPS	67	9	5	64	67	0	0	0	0	0	0	0	0
98	SIMAS	67	10	5	63	67	0	0	0	0	0	0	0	0
	ICAPS	67	9	5	64	67	0	0	0	0	0	0	0	0
99	SIMAS	67	10	5	63	67	0	0	0	0	0	0	0	0
	ICAPS	68	10	5	64	68	0	0	0	0	0	0	0	0
100	SIMAS	67	10	5	63	67	0	0	0	0	0	0	0	0
	ICAPS	68	10	5	64	68	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

SONAR DEPTH 600
TARGET DEPTH 60

			TOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
		[illegible]	65	8	4	62	63	0	0	0	0	0	0	0	0
		[illegible]	64	6	4	63	64	0	0	0	0	0	0	0	0
		SIMAS	64	8	5	62	64	0	0	0	0	0	0	0	0
		ICAPS	64	6	4	63	64	0	0	0	0	0	0	0	0
95		SIMAS	64	8	5	62	64	0	0	0	0	0	0	0	0
		ICAPS	64	6	4	63	64	0	0	0	0	0	0	0	0
		SIMAS	64	8	5	62	64	0	0	0	0	0	0	0	0
96		ICAPS	65	7	4	63	65	0	0	0	0	0	0	0	0
		SIMAS	64	8	5	62	64	0	0	0	0	0	0	0	0
97		ICAPS	65	7	4	63	65	0	0	0	0	0	0	0	0
		SIMAS	64	9	5	61	64	0	0	0	0	0	0	0	0
98		ICAPS	65	8	5	63	65	0	0	0	0	0	0	0	0
		SIMAS	64	9	5	61	64	0	0	0	0	0	0	0	0
99		ICAPS	67	10	5	63	67	0	0	0	0	0	0	0	0
		SIMAS	64	9	5	61	64	0	0	0	0	0	0	0	0
100		ICAPS	67	10	5	63	67	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 600
SENSOR 9 TARGET DEPTH 600

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	84	37	13	60	79	81	84	0	0	0	0	0	0
	ICAPS	98	98	98	0	0	0	0	0	0	0	0	0	0
94	SIMAS	84	41	16	60	84	0	0	0	0	0	0	0	0
	ICAPS	104	104	104	0	0	0	0	0	0	0	0	0	0
95	SIMAS	85	42	16	60	85	0	0	0	0	0	0	0	0
	ICAPS	110	110	110	0	0	0	0	0	0	0	0	0	0
96	SIMAS	85	43	16	59	85	0	0	0	0	0	0	0	0
	ICAPS	117	117	117	0	0	0	0	0	0	0	0	0	0
97	SIMAS	85	43	16	59	85	0	0	0	0	0	0	0	0
	ICAPS	135	128	122	127	130	134	135	0	0	0	0	0	0
98	SIMAS	86	45	17	59	86	0	0	0	0	0	0	0	0
	ICAPS	136	136	136	0	0	0	0	0	0	0	0	0	0
99	SIMAS	129	47	17	59	86	128	129	0	0	0	0	0	0
	ICAPS	142	142	142	0	0	0	0	0	0	0	0	0	0
100	SIMAS	129	49	17	59	86	125	126	128	129	0	0	0	0
	ICAPS	146	146	146	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	66	4	2	65	66	0	0	0	0	0	0	0	0
81	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0
82	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0
	ICAPS	66	5	3	[illegible]	66	0	0	0	0	0	0	0	0
83	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0
	ICAPS	66	5	3	[illegible]	66	0	0	0	0	0	0	0	0
84	SIMAS	65	6	3	63	65	0	0	0	0	0	0	0	0
	ICAPS	131	8	3	64	66	130	131	0	0	0	0	0	0
85	SIMAS	129	9	4	63	65	128	129	0	0	0	0	0	0
	ICAPS	131	9	4	64	66	130	131	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

SONAR FRONT 5 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
.65	SIMAS	129	10	4	63	66	128	129	0	0	0	0	0	0
	ICAPS	131	9	4	64	66	130	131	0	0	0	0	0	0
.67	SIMAS	129	10	4	63	66	128	129	0	0	0	0	0	0
	ICAPS	131	9	4	64	66	130	131	0	0	0	0	0	0
.68	SIMAS	130	11	4	63	66	128	130	0	0	0	0	0	0
	ICAPS	131	9	4	64	66	130	131	0	0	0	0	0	0
.69	SIMAS	130	13	4	6	7	63	66	128	130	0	0	0	0
	ICAPS	196	11	4	64	66	130	131	195	196	0	0	0	0
.70	SIMAS	193	23	4	6	8	13	19	63	66	128	130	192	193
	ICAPS	196	13	6	64	66	130	131	195	196	0	0	0	0
.71	SIMAS	194	41	30	62	66	128	130	192	194	0	0	0	0
	ICAPS	196	16	6	64	67	129	132	195	196	0	0	0	0
.72	SIMAS	194	52	38	62	66	127	132	192	194	0	0	0	0
	ICAPS	196	18	7	63	67	129	132	195	196	0	0	0	0
.73	SIMAS	195	58	43	62	66	127	132	192	195	0	0	0	0
	ICAPS	198	22	7	63	68	129	132	194	198	0	0	0	0
.74	SIMAS	196	64	48	62	66	127	132	192	196	0	0	0	0
	ICAPS	198	22	7	63	68	129	132	194	198	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 200
[illegible] 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
[illegible]	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
78	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
79	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
80	SIMAS	65	8	6	64	65	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
81	SIMAS	66	10	7	64	66	0	0	0	0	0	0	0	0
	ICAPS	67	7	5	66	67	0	0	0	0	0	0	0	0
82	SIMAS	66	13	7	61	66	0	0	0	0	0	0	0	0
	ICAPS	67	7	5	[illegible]	67	0	0	0	0	0	0	0	0
83	SIMAS	69	15	7	61	66	68	69	0	0	0	0	0	0
	ICAPS	67	9	5	63	64	66	67	0	0	0	0	0	0
84	SIMAS	69	17	8	61	69	0	0	0	0	0	0	0	0
	ICAPS	68	11	5	63	68	0	0	0	0	0	0	0	0
85	SIMAS	72	20	8	61	72	0	0	0	0	0	0	0	0
	ICAPS	71	15	6	63	71	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE [illegible] (CONT.)

[illegible] 5 SONAR DEPTH [illegible]

DATA	[illegible]	[illegible]	[illegible]	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
[illegible]	12	[illegible]	1	61	75	126	120	[illegible]	[illegible]	0	0	0	0
[illegible]	[illegible]	[illegible]	9	63	80	0	0	0	[illegible]	0	0	0	0
[illegible]	[illegible]	[illegible]	[illegible]	61	73	75	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	130	[illegible]	0	[illegible]	0	0	0	0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	123	[illegible]	[illegible]	[illegible]	[illegible]	133	189	190
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	123	[illegible]	[illegible]	[illegible]	[illegible]	191	[illegible]	0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	128	[illegible]	[illegible]	[illegible]	0	0	[illegible]	0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	123	[illegible]	[illegible]	[illegible]	[illegible]	144	[illegible]	191
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	195	[illegible]	0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	127	[illegible]	[illegible]	[illegible]	[illegible]	145	[illegible]	193
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	141	[illegible]	154
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	53	188	196
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	154	193	195
[illegible]	[illegible]	[illegible]	46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	153	[illegible]	197
[illegible]	[illegible]	69	9	[illegible]	85	127	147	146	149	152	156	140	161
[illegible]	[illegible]	115	[illegible]	64	86	123	[illegible]	[illegible]	154	186	90	0	0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	84	127	149	[illegible]	[illegible]	159	162	191	200

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
79	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
82	SIMAS	66	6	4	65	66	0	0	0	0	0	0	0	0
	ICAPS	3	3	3		0	0	0	0	0	0	0	0	0
83	SIMAS	66	6	4	65	66	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	66	6	4	65	66	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
85	SIMAS	66	6	4	65	66	0	0	0	0	0	0	0	0
	ICAPS	66	6	3	64	66	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 500
[illegible] 15 TARGET DEPTH 60

[illegible]	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
	SIMAS	66	6	4	65	66	0	0	0	0	0	0	0	0
	[illegible]	66	9	5	63	66	0	0	0	0	0	0	0	0
	[illegible]	66	9	5	63	66	0	0	0	0	0	0	0	0
	[illegible]	66	9	5	63	66	0	0	0	0	0	0	0	0
	SIMAS	69	12	7	62	66	0	0	0	0	0	0	0	0
	[illegible]	132	11	5	63	66	131	132	0	0	0	0	0	0
	SIMAS	131	16	7	62	66	127	128	130	131	0	0	0	0
	[illegible]	132	12	5	63	67	131	132	0	0	0	0	0	0
	[illegible]	132	28	9	13	19	61	66	127	132	0	0	0	0
	[illegible]	132	14	5	63	67	129	132	0	0	0	0	0	0
	[illegible]	132	42	30	61	66	127	132	0	0	0	0	0	0
	[illegible]	195	19	7	63	68	129	132	194	195	0	0	0	0
	[illegible]	195	54	38	61	66	127	132	191	192	194	195	0	0
	[illegible]	197	22	7	63	68	128	132	194	195	197	198	0	0
	SIMAS	195	58	43	61	66	127	132	191	192	194	195	0	0
	[illegible]	198	22	7	63	68	128	132	194	195	197	198	0	0
	SIMAS	195	68	48	61	66	127	133	191	195	0	0	0	0
	[illegible]	198	24	8	63	69	128	132	194	195	197	198	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 600

RANGE	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
4	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
20	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
24	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
28	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
32	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
36	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
40	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
44	SIMAS	32	14	10	62	65	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
48	SIMAS	65	15	11	62	65	0	0	0	0	0	0	0	0
	ICAPS	8	8	8		0	0	0	0	0	0	0	0	0
52	SIMAS	68	18	11	62	68	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
56	SIMAS	68	21	14	62	68	0	0	0	0	0	0	0	0
	ICAPS	65	12	9	63	65	0	0	0	0	0	0	0	0
60	SIMAS	75	29	14	60	69	71	75	0	0	0	0	0	0
	ICAPS	69	17	9	62	69	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	128	34	15	60	76	127	128	0	0	0	0	0	0
	ICAPS	69	17	9	62	69	0	0	0	0	0	0	0	0
87	SIMAS	129	40	17	60	77	125	129	0	0	0	0	0	0
	ICAPS	133	23	9	62	72	131	133	0	0	0	0	0	0
88	SIMAS	131	49	19	60	81	124	131	0	0	0	0	0	0
	ICAPS	133	27	9	62	74	128	129	131	133	0	0	0	0
89	SIMAS	141	55	21	60	82	124	132	140	141	0	0	0	0
	ICAPS	133	31	9	62	77	128	133	0	0	0	0	0	0
90	SIMAS	193	69	24	60	83	124	135	140	141	187	193	0	0
	ICAPS	196	39	9	62	80	82	83	127	133	195	196	0	0
91	SIMAS	193	88	32	59	84	86	87	124	136	139	142	146	149
	ICAPS	196	54	9	62	86	90	92	97	100	127	133	135	136
92	SIMAS	197	119	40	59	89	124	137	139	142	145	150	155	157
	ICAPS	196	78	10	62	113	127	133	135	137	190	191	193	196
93	SIMAS	198	125	44	59	91	122	142	144	151	153	159	187	198
	ICAPS	199	88	10	61	117	126	133	135	138	190	196	198	199
94	SIMAS	200	136	48	59	92	122	161	187	200	0	0	0	0
	ICAPS	200	89	12	61	118	126	143	190	200	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 60

TOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	65	6	4	64	65	0	0	0	0	0	0	0	0
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0
81	SIMAS	129	9	4	64	66	128	129	0	0	0	0	0	0
	ICAPS	131	7	3	65	66	130	131	0	0	0	0	0	0
82	SIMAS	129	10	4	63	66	128	129	0	0	0	0	0	0
	ICAPS	131	10	4	64	67	130	131	0	0	0	0	0	0
83	SIMAS	129	10	4	63	66	128	129	0	0	0	0	0	0
	ICAPS	131	10	4	64	67	130	131	0	0	0	0	0	0
84	SIMAS	130	11	4	63	66	128	130	0	0	0	0	0	0
	ICAPS	131	11	5	64	67	130	131	0	0	0	0	0	0
85	SIMAS	131	15	6	63	67	128	131	0	0	0	0	0	0
	ICAPS	196	14	5	64	68	130	131	195	196	0	0	0	0
86	SIMAS	194	19	7	63	67	128	131	192	194	0	0	0	0
	ICAPS	196	16	6	64	68	130	132	195	196	0	0	0	0
87	SIMAS	194	20	7	62	67	128	131	192	194	0	0	0	0
	ICAPS	196	18	6	63	68	129	132	195	196	0	0	0	0
88	SIMAS	195	22	8	62	67	128	131	192	195	0	0	0	0
	ICAPS	197	21	6	7	69	129	133	195	197	0	0	0	0
89	SIMAS	195	23	8	62	67	127	131	192	195	0	0	0	0
	ICAPS	197	24	8	63	70	129	133	195	197	0	0	0	0
90	SIMAS	195	35	8	12	22	62	67	127	132	192	195	0	0
	ICAPS	197	25	8	63	70	129	134	195	197	0	0	0	0
91	SIMAS	195	53	36	62	68	127	132	192	195	0	0	0	0
	ICAPS	197	27	8	61	70	129	134	195	197	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	198	63	42	61	68	127	132	192	198	0	0	0	0
	ICAPS	197	29	8	61	71	129	135	195	197	0	0	0	0
93	SIMAS	198	71	48	57	58	61	68	127	132	192	198	0	0
	ICAPS	197	30	8	60	71	129	135	195	197	0	0	0	0
94	SIMAS	198	75	51	57	58	60	68	127	132	192	198	0	0
	ICAPS	199	35	8	60	72	129	136	194	199	0	0	0	0

ENVIRONMENT 5 SONAR DEPTH
SENSOR 19 TARGET DEPTH

SENSOR PERFORMANCE CHART

FOM	DATA	RMAX	RTOTAL	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0
83	SIMAS	67	5	66	67	0	0	0	0	0	0	0	0
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0
84	SIMAS	67	6	66	67	0	0	0	0	0	0	0	0
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0
85	SIMAS	67	8	63	64	66	67	0	0	0	0	0	0
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0
86	SIMAS	67	10	62	64	66	67	0	0	0	0	0	0
	ICAPS	65	7	63	65	0	0	0	0	0	0	0	0
87	SIMAS	67	11	62	64	66	67	0	0	0	0	0	0
	ICAPS	67	9	63	67	0	0	0	0	0	0	0	0
88	SIMAS	67	12	62	67	0	0	0	0	0	0	0	0
	ICAPS	67	9	[illegible]	67	0	0	0	0	0	0	0	0
89	SIMAS	131	16	62	67	130	131	0	0	0	0	0	0
	ICAPS	67	11	63	67	0	0	0	0	0	0	0	0
90	SIMAS	131	25	13	19	61	67	130	131	0	0	0	0
	ICAPS	129	14	63	68	128	129	0	0	0	0	0	0
91	SIMAS	131	42	61	67	127	128	130	131	0	0	0	0
	ICAPS	129	14	63	68	128	129	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	131	50	38	61	68	127	128	130	131	0	0	0	0
	ICAPS	197	21	6	62	68	128	129	132	133	194	197	0	0
93	SIMAS	195	62	43	61	68	126	131	191	195	0	0	0	0
	ICAPS	197	22	7	62	68	128	129	132	133	194	197	0	0
94	SIMAS	195	68	48	61	68	126	132	191	195	0	0	0	0
	ICAPS	197	25	8	62	69	128	129	132	133	193	197	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 600
TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
83	SIMAS	67	5	3	66	67	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
84	SIMAS	67	5	4	66	67	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
85	SIMAS	67	5	4	66	67	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
86	SIMAS	67	10	5	62	64	66	67	0	0	0	0	0	0
	ICAPS	65	7	4	63	65	0	0	0	0	0	0	0	0
87	SIMAS	67	11	6	62	64	66	67	0	0	0	0	0	0
	ICAPS	67	9	4	63	67	0	0	0	0	0	0	0	0
88	SIMAS	67	12	6	62	67	0	0	0	0	0	0	0	0
	ICAPS	67	9	4	63	67	0	0	0	0	0	0	0	0
89	SIMAS	131	16	8	62	67	130	131	0	0	0	0	0	0
	ICAPS	67	11	6	63	67	0	0	0	0	0	0	0	0
90	SIMAS	131	25	9	13	19	61	67	130	131	0	0	0	0
	ICAPS	129	14	6	63	68	128	129	0	0	0	0	0	0
91	SIMAS	131	41	30	61	67	127	128	130	131	0	0	0	0
	ICAPS	129	14	6	63	68	128	129	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
	SIMAS	131	50	38	61	68	127	128	130	131	0	0	0	0
	ICAPS	197	21	6	62	68	128	129	132	133	194	197	0	0
	SIMAS	135	62	43	61	68	126	131	191	195	0	0	0	0
23	ICAPS	197	22	7	62	68	128	129	132	133	194	197	0	0
	SIMAS	195	68	48	61	68	126	132	191	195	0	0	0	0
24	ICAPS	197	25	8	62	69	128	129	132	133	193	197	0	0

SENSOR PERFORMANCE CHART

ENV	COMPONENT S SENSOR 19	PATH	SONAR DEPTH TARGET DEPTH RMAX	RTOTAL	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
57		SIMAS	10	10	0	0	0	0	0	0	0	0	0	0
		ICAPS	9	9	0	0	0	0	0	0	0	0	0	0
61		SIMAS	11	11	0	0	0	0	0	0	0	0	0	0
		ICAPS	9	9	0	0	0	0	0	0	0	0	0	0
62		SIMAS	67	15	63	64	66	67	0	0	0	0	0	0
		ICAPS	66	11	65	66	0	0	0	0	0	0	0	0
63		SIMAS	76	23	60	68	75	76	0	0	0	0	0	0
		ICAPS	66	12	64	66	0	0	0	0	0	0	0	0
64		SIMAS	76	32	60	69	71	79	0	0	0	0	0	0
		ICAPS	66	13	64	66	0	0	0	0	0	0	0	0
65		SIMAS	81	36	60	81	0	0	0	0	0	0	0	0
		ICAPS	67	16	64	69	0	0	0	0	0	0	0	0
66		SIMAS	128	40	60	83	127	128	0	0	0	0	0	0
		ICAPS	69	18	62	69	0	0	0	0	0	0	0	0
67		SIMAS	131	43	60	83	127	128	130	131	0	0	0	0
		ICAPS	133	23	62	72	132	133	0	0	0	0	0	0
68		SIMAS	157	52	59	84	127	131	155	157	0	0	0	0
		ICAPS	133	29	62	76	128	129	132	133	0	0	0	0
69		SIMAS	189	68	59	86	127	132	148	149	152	159	188	189
		ICAPS	134	32	62	78	128	129	132	134	0	0	0	0
70		SIMAS	193	90	59	87	125	132	134	136	140	141	147	161
		ICAPS	134	39	62	78	82	84	126	130	132	134	0	0
71		SIMAS	194	104	59	88	125	136	139	141	146	162	187	194
		ICAPS	193	61	61	86	90	93	97	99	126	138	192	193

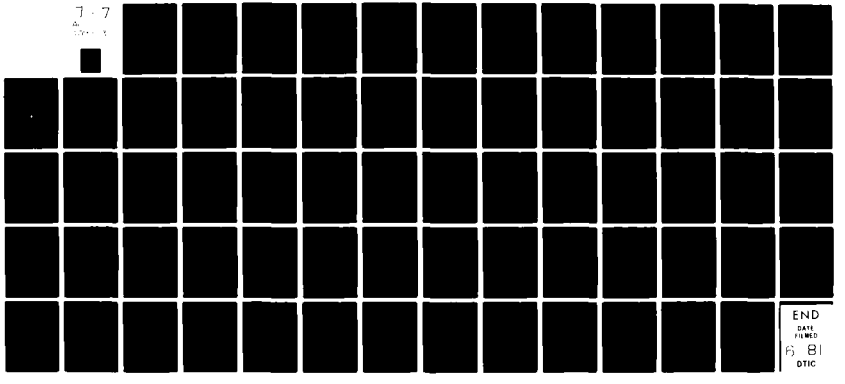
SENSOR PERFORMANCE CHART (CONT.)

SONAR DEPTH 600
TARGET DEPTH 600

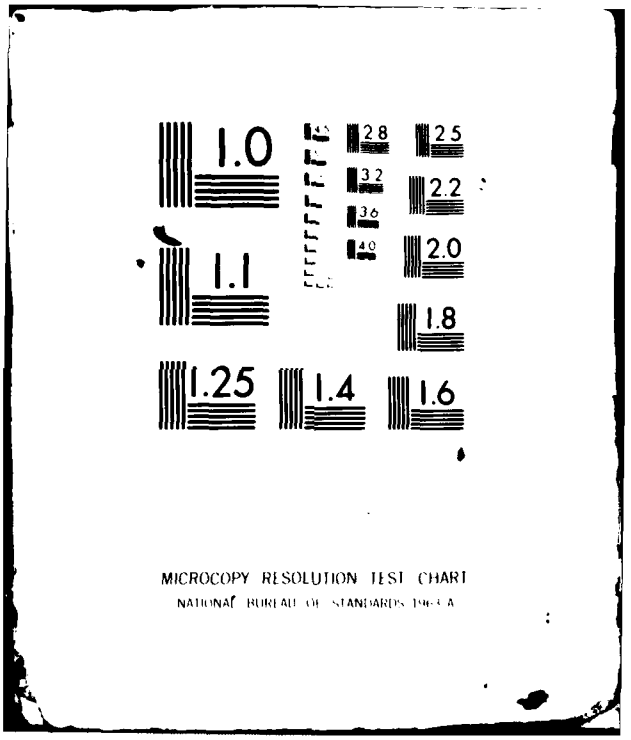
[illegible]	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
[illegible]	SIMAS	197	117	39	59	89	124	136	139	142	145	163	187	197
	ICAPS	197	85	13	61	112	114	115	126	139	192	193	196	197
75	SIMAS	198	131	44	59	90	124	143	145	164	184	198	0	0
	ICAPS	198	93	13	61	112	114	119	126	141	192	194	196	198
74	SIMAS	200	141	49	59	91	124	165	184	200	0	0	0	0
	ICAPS	200	100	13	61	119	126	141	143	145	192	200	0	0

AD-A098 932 NAVAL OCEAN RESEARCH AND DEVELOPMENT ACTIVITY NSTL S--ETC F/G 20/1
ACOUSTIC MODEL SENSITIVITY TO INPUT DATA DIFFERENCES: OBJECTIVE--ETC(U)
SEP 80 B A BRUNSON

UNCLASSIFIED NORDA-TN-73-VOL-2 NL



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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 60
SENSOR 23 TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	S	66	4	2	65	66	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 60
SENSOR 23 TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	65	4	2	64	65	0	0	0	0	0	0	0	0
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0
78	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0
79	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0
80	SIMAS	65	6	4	64	65	0	0	0	0	0	0	0	0
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0
81	SIMAS	129	9	4	64	66	128	129	0	0	0	0	0	0
	ICAPS	131	7	3	65	66	130	131	0	0	0	0	0	0
82	SIMAS	129	10	4	63	66	128	129	0	0	0	0	0	0
	ICAPS	131	10	4	64	67	130	131	0	0	0	0	0	0
83	SIMAS	129	10	4	63	66	128	129	0	0	0	0	0	0
	ICAPS	131	10	4	64	67	130	131	0	0	0	0	0	0
84	SIMAS	130	11	4	63	66	128	130	0	0	0	0	0	0
	ICAPS	131	11	5	64	67	130	131	0	0	0	0	0	0
85	SIMAS	131	15	6	63	67	128	131	0	0	0	0	0	0
	ICAPS	196	14	5	64	68	130	131	195	196	0	0	0	0
86	SIMAS	194	19	7	63	67	128	131	192	194	0	0	0	0
	ICAPS	196	16	6	64	68	130	132	195	196	0	0	0	0
87	SIMAS	194	20	7	62	67	128	131	192	194	0	0	0	0
	ICAPS	196	18	6	63	68	129	132	195	196	0	0	0	0
88	SIMAS	195	22	8	62	67	128	131	192	195	0	0	0	0
	ICAPS	197	21	6	63	69	129	133	195	197	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 60
SENSOR 23 TARGET DEPTH 600

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 60
SENSOR 13 TARGET DEPTH 600

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
76	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
83	SIMAS	67	5	3	66	67	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
84	SIMAS	67	6	4	66	67	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
85	SIMAS	67	8	4	63	64	66	67	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
	SIMAS	67	10	5	62	64	66	67	0	0	0	0	0	0
	ICAPS	65	7	4	63	65	0	0	0	0	0	0	0	0
87	SIMAS	67	11	6	62	64	66	67	0	0	0	0	0	0
	ICAPS	67	9	4	63	67	0	0	0	0	0	0	0	0
	SIMAS	67	12	6	62	67	0	0	0	0	0	0	0	0
	ICAPS	67	9	4	63	67	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 300
SENSOR 23 TARGET DEPTH 60

RUN	DATA	KMAX	TOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 300
SENSOR 23 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
81	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0
82	SIMAS	65	6	3	63	65	0	0	0	0	0	0	0	0
	ICAPS	66	6	3	64	66	0	0	0	0	0	0	0	0
83	SIMAS	65	6	3	63	65	0	0	0	0	0	0	0	0
	ICAPS	66	6	3	64	66	0	0	0	0	0	0	0	0
84	SIMAS	65	7	4	63	65	0	0	0	0	0	0	0	0
	ICAPS	131	8	3	64	66	130	131	0	0	0	0	0	0
85	SIMAS	66	8	4	63	66	0	0	0	0	0	0	0	0
	ICAPS	131	8	3	64	66	130	131	0	0	0	0	0	0
86	SIMAS	129	10	4	63	66	128	129	0	0	0	0	0	0
	ICAPS	131	10	4	64	67	130	131	0	0	0	0	0	0
87	SIMAS	130	12	5	63	66	128	130	0	0	0	0	0	0
	ICAPS	131	10	4	64	67	130	131	0	0	0	0	0	0
[illegible]	SIMAS	130	13	5	63	66	127	130	0	0	0	0	0	0
	ICAPS	131	11	5	64	67	130	131	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 300
SENSOR 23L TARGET DEPTH 600

TOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
71	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
72	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
73	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
74	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
76	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 300
SENSOR 23 TARGET DEPTH 600

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
80	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
81	SIMAS	66	12	7	62	66	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
82	SIMAS	66	13	8	62	66	0	0	0	0	0	0	0	0
	ICAPS	67	10	7	65	67	0	0	0	0	0	0	0	0
83	SIMAS	68	16	9	62	68	0	0	0	0	0	0	0	0
	ICAPS	67	12	7	63	67	0	0	0	0	0	0	0	0
84	SIMAS	71	20	9	61	71	0	0	0	0	0	0	0	0
	ICAPS	68	13	7	63	68	0	0	0	0	0	0	0	0
85	SIMAS	71	20	9	61	71	0	0	0	0	0	0	0	0
	ICAPS	68	13	7	63	68	0	0	0	0	0	0	0	0
86	SIMAS	129	27	11	61	74	128	129	0	0	0	0	0	0
	ICAPS	131	18	7	63	71	130	131	0	0	0	0	0	0
87	SIMAS	129	32	12	60	75	126	129	0	0	0	0	0	0
	ICAPS	131	23	8	63	71	73	76	130	131	0	0	0	0
88	SIMAS	131	38	12	60	79	126	131	0	0	0	0	0	0
	ICAPS	131	32	8	62	82	129	131	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 60
SENSOR 23H TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	4	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	129	0	0	0	0	0	0	0	0	0	0	0	0
63	SIMAS	4	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1		0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 60
SENSOR 231 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
81	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0
82	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0
83	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0
84	SIMAS	129	9	3	63	66	128	129	0	0	0	0	0	0
	ICAPS	131	8	4	65	66	130	131	0	0	0	0	0	0
[illegible]	SIMAS	129	10	4	63	66	128	129	0	0	0	0	0	0
	ICAPS	131	10	4	64	67	130	131	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 60
SENSOR 23H TARGET DEPTH 600

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
		2	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 60
CONTOUR 23 TARGET DEPTH 600

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
24	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
25	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
26	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
27	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
28	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
29	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
30	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
31	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
32	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3		0	0	0	0	0	0	0	0	0
33	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
34	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
35	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	64	3	3	63	64	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 300
SENSOR 23H TARGET DEPTH 60

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	0	0	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 300
SENSOR 23(1) TARGET DEPTH 60

TGM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
83	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

ENVIRONMENT 5 SONAR DEPTH 30
SENSOR 23H TARGET DEPTH 60

SENSOR PERFORMANCE CHART

RUN	DATA	RMAX	RTOTAL	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
64	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
65	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	0	0	0	0	0	0	0	0	0	0
70	SIMAS	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0
71	SIMAS	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0
72	SIMAS	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0
73	SIMAS	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 300
SPEED 23 KT TARGET DEPTH 600

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
80	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
81	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
82	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
83	SIMAS	65	12	8	62	65	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
84	SIMAS	67	16	9	61	67	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
85	SIMAS	69	18	9	61	69	0	0	0	0	0	0	0	0
	ICAPS	67	11	7	64	67	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R11	R22	R31	R32	R41	R42	R51	R52	R61	R62
96	SIMAS	47	7	3	44	47	0	0	0	0	0	0	0	0
	ICAPS	47	9	4	43	47	0	0	0	0	0	0	0	0
97	SIMAS	47	7	3	44	47	0	0	0	0	0	0	0	0
	ICAPS	47	10	4	42	47	0	0	0	0	0	0	0	0
98	SIMAS	48	8	3	44	48	0	0	0	0	0	0	0	0
	ICAPS	47	10	4	42	47	0	0	0	0	0	0	0	0
99	SIMAS	48	9	3	43	48	0	0	0	0	0	0	0	0
	ICAPS	48	11	4	42	48	0	0	0	0	0	0	0	0
100	SIMAS	49	10	3	43	49	0	0	0	0	0	0	0	0
	ICAPS	48	11	4	42	48	0	0	0	0	0	0	0	0
101	SIMAS	49	11	4	43	49	0	0	0	0	0	0	0	0
	ICAPS	50	13	4	42	50	0	0	0	0	0	0	0	0
102	SIMAS	50	12	4	43	50	0	0	0	0	0	0	0	0
	ICAPS	50	13	4	42	50	0	0	0	0	0	0	0	0
103	SIMAS	50	13	4	42	50	0	0	0	0	0	0	0	0
	ICAPS	50	13	4	42	50	0	0	0	0	0	0	0	0
104	SIMAS	50	13	4	42	50	0	0	0	0	0	0	0	0
	ICAPS	51	14	4	42	51	0	0	0	0	0	0	0	0
105	SIMAS	50	13	4	42	50	0	0	0	0	0	0	0	0
	ICAPS	51	15	4	41	51	0	0	0	0	0	0	0	0
106	SIMAS	50	14	4	41	50	0	0	0	0	0	0	0	0
	ICAPS	51	15	4	41	51	0	0	0	0	0	0	0	0
107	SIMAS	50	14	4	41	50	0	0	0	0	0	0	0	0
	ICAPS	52	16	4	41	52	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
108	SIMAS	50	14	4	41	50	0	0	0	0	0	0	0	0
	ICAPS	52	16	4	41	52	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
96	SIMAS	44	5	3	43	44	0	0	0	0	0	0	0	0
	ICAPS	44	6	4	43	44	0	0	0	0	0	0	0	0
97	SIMAS	44	6	4	43	44	0	0	0	0	0	0	0	0
	ICAPS	44	7	4	42	44	0	0	0	0	0	0	0	0
98	SIMAS	44	6	4	43	44	0	0	0	0	0	0	0	0
	ICAPS	44	7	4	42	44	0	0	0	0	0	0	0	0
99	SIMAS	47	9	4	43	47	0	0	0	0	0	0	0	0
	ICAPS	45	8	4	43	45	0	0	0	0	0	0	0	0
100	SIMAS	47	9	4	43	47	0	0	0	0	0	0	0	0
	ICAPS	46	9	4	42	46	0	0	0	0	0	0	0	0
101	SIMAS	48	10	4	43	48	0	0	0	0	0	0	0	0
	ICAPS	46	10	5	42	46	0	0	0	0	0	0	0	0
102	SIMAS	48	10	4	43	48	0	0	0	0	0	0	0	0
	ICAPS	47	11	5	42	47	0	0	0	0	0	0	0	0
103	SIMAS	49	12	4	42	49	0	0	0	0	0	0	0	0
	ICAPS	47	12	5	41	47	0	0	0	0	0	0	0	0
104	SIMAS	49	12	4	42	49	0	0	0	0	0	0	0	0
	ICAPS	50	15	5	41	50	0	0	0	0	0	0	0	0
105	SIMAS	49	12	4	42	49	0	0	0	0	0	0	0	0
	ICAPS	51	16	5	41	51	0	0	0	0	0	0	0	0
106	SIMAS	49	12	4	42	49	0	0	0	0	0	0	0	0
	ICAPS	51	16	5	41	51	0	0	0	0	0	0	0	0
107	SIMAS	50	14	5	42	50	0	0	0	0	0	0	0	0
	ICAPS	51	16	5	41	51	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 20
SENSOR 2 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
108	SIMAS	50	14	5	42	50	0	0	0	0	0	0	0	0
	ICAPS	51	16	5	41	51	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	44	6	3	42	44	0	0	0	0	0	0	0	0
	ICAPS	43	5	2	41	43	0	0	0	0	0	0	0	0
94	SIMAS	44	6	3	42	44	0	0	0	0	0	0	0	0
	ICAPS	43	5	2	41	43	0	0	0	0	0	0	0	0
95	SIMAS	44	6	3	42	44	0	0	0	0	0	0	0	0
	ICAPS	43	5	2	41	43	0	0	0	0	0	0	0	0
96	SIMAS	45	7	3	42	45	0	0	0	0	0	0	0	0
	ICAPS	45	9	4	41	45	0	0	0	0	0	0	0	0
97	SIMAS	45	8	3	42	45	0	0	0	0	0	0	0	0
	ICAPS	45	9	4	41	45	0	0	0	0	0	0	0	0
98	SIMAS	46	8	3	42	46	0	0	0	0	0	0	0	0
	ICAPS	45	9	4	41	45	0	0	0	0	0	0	0	0
99	SIMAS	46	8	3	42	46	0	0	0	0	0	0	0	0
	ICAPS	46	10	4	41	46	0	0	0	0	0	0	0	0
100	SIMAS	46	8	3	42	46	0	0	0	0	0	0	0	0
	ICAPS	46	10	4	41	46	0	0	0	0	0	0	0	0
101	SIMAS	46	8	3	42	46	0	0	0	0	0	0	0	0
	ICAPS	46	10	4	41	46	0	0	0	0	0	0	0	0
102	SIMAS	46	8	3	42	46	0	0	0	0	0	0	0	0
	ICAPS	46	10	4	41	46	0	0	0	0	0	0	0	0
103	SIMAS	46	8	3	42	46	0	0	0	0	0	0	0	0
	ICAPS	46	10	4	41	46	0	0	0	0	0	0	0	0
104	SIMAS	46	8	3	42	46	0	0	0	0	0	0	0	0
	ICAPS	46	10	4	41	46	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	48	11	4	42	48	0	0	0	0	0	0	0	0
	ICAPS	48	15	6	40	48	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
94	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
95	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
96	SIMAS	43	6	4	42	43	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
97	SIMAS	44	7	4	42	44	0	0	0	0	0	0	0	0
	ICAPS	43	6	3	41	43	0	0	0	0	0	0	0	0
98	SIMAS	44	7	4	42	44	0	0	0	0	0	0	0	0
	ICAPS	44	7	3	41	44	0	0	0	0	0	0	0	0
99	SIMAS	45	8	4	42	45	0	0	0	0	0	0	0	0
	ICAPS	44	7	3	41	44	0	0	0	0	0	0	0	0
100	SIMAS	45	8	4	42	45	0	0	0	0	0	0	0	0
	ICAPS	44	7	3	41	44	0	0	0	0	0	0	0	0
101	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
102	SIMAS	46	10	4	42	46	0	0	0	0	0	0	0	0
	ICAPS	45	9	4	41	45	0	0	0	0	0	0	0	0
103	SIMAS	47	11	5	42	47	0	0	0	0	0	0	0	0
	ICAPS	46	10	4	41	46	0	0	0	0	0	0	0	0
104	SIMAS	47	11	5	41	47	0	0	0	0	0	0	0	0
	ICAPS	46	12	5	40	46	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	47	11	4	41	47	0	0	0	0	0	0	0	0
	ICAPS	47	13	5	40	47	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
94	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
95	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
96	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
97	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
98	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
99	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
100	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
101	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
102	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
103	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
104	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCORR	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	39	23	6	9	11	23	25	28	32	34	39	0	0
	ICAPS	55	52	42	46	55	0	0	0	0	0	0	0	0
94	SIMAS	43	27	6	9	11	22	25	28	39	42	43	0	0
	ICAPS	67	60	[illegible]	64	67	0	0	0	0	0	0	0	0
95	SIMAS	59	32	6	9	11	22	25	28	40	42	44	57	59
	ICAPS	68	61	54	64	68	0	0	0	0	0	0	0	0
96	SIMAS	59	33	[illegible]	9	11	22	25	28	40	42	45	57	59
	ICAPS	68	67	58	60	68	0	0	0	0	0	0	0	0
97	SIMAS	59	38	[illegible]	9	11	22	25	27	46	52	53	57	59
	ICAPS	80	70	[illegible]	79	80	0	0	0	0	0	0	0	0
98	SIMAS	65	43	[illegible]	9	12	22	25	27	46	52	55	57	59
	ICAPS	81	76	[illegible]	75	81	0	0	0	0	0	0	0	0
99	SIMAS	67	51	[illegible]	9	12	21	25	27	47	51	55	57	60
	ICAPS	81	78	[illegible]	74	81	0	0	0	0	0	0	0	0
100	SIMAS	69	54	[illegible]	9	12	20	25	27	47	51	55	57	60
	ICAPS	81	80	[illegible]	72	81	0	0	0	0	0	0	0	0
101	SIMAS	70	55	[illegible]	9	12	20	25	27	47	51	55	57	60
	ICAPS	93	86	[illegible]	79	82	88	90	92	93	0	0	0	0
102	SIMAS	71	59	[illegible]	9	12	20	25	27	47	49	55	57	71
	ICAPS	93	88	[illegible]	88	93	0	0	0	0	0	0	0	0
103	SIMAS	90	62	[illegible]	9	12	20	25	27	55	57	71	89	90
	ICAPS	103	93	[illegible]	85	93	102	103	0	0	0	0	0	0
104	SIMAS	90	62		9	12	20	25	27	55	57	71	89	90
	ICAPS	106	98		85	95	102	106	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 600
SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	90	64	6	9	12	20	25	27	55	57	71	73	74
	ICAPS	106	98	82	85	95	102	106	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 20
SENSOR 7 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
81	SIMAS	47	7	3	44	47	0	0	0	0	0	0	0	0
	ICAPS	47	7	3	44	47	0	0	0	0	0	0	0	0
82	SIMAS	47	7	3	44	47	0	0	0	0	0	0	0	0
	ICAPS	47	7	3	44	47	0	0	0	0	0	0	0	0
83	SIMAS	91	12	4	44	49	89	91	0	0	0	0	0	0
	ICAPS	49	9	3	44	49	0	0	0	0	0	0	0	0
84	SIMAS	91	14	4	44	50	89	91	0	0	0	0	0	0
	ICAPS	51	13	4	43	51	0	0	0	0	0	0	0	0
85	SIMAS	91	16	5	43	50	89	91	0	0	0	0	0	0
	ICAPS	51	13	4	43	51	0	0	0	0	0	0	0	0
86	SIMAS	91	16	5	43	50	89	91	0	0	0	0	0	0
	ICAPS	89	15	4	43	51	88	89	0	0	0	0	0	0
87	SIMAS	135	20	5	43	50	89	93	134	135	0	0	0	0
	ICAPS	89	17	6	43	51	88	89	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 20
SENSOR 7 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
81	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
82	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
83	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
84	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
85	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
86	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
87	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

ENVIRONMENT 6 SONAR DEPTH
SENSOR 9 TARGET DEPTH

SENSOR PERFORMANCE CHART

FOM	DATA	RMAX	RTOTAL	R1	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	50	17	41	50	0	0	0	0	0	0	0	0
	ICAPS	51	15	41	51	0	0	0	0	0	0	0	0
94	SIMAS	50	17	41	50	0	0	[illegible]	0	0	0	0	0
	ICAPS	51	15	41	51	0	0	0	0	0	0	0	0
95	SIMAS	89	19	41	50	88	89	0	0	0	0	0	0
	ICAPS	52	17	41	52	0	0	0	0	0	0	0	0
96	SIMAS	87	20	40	50	86	87	0	0	0	0	0	0
	ICAPS	52	17	41	52	0	0	0	0	0	0	0	0
97	SIMAS	89	20	40	50	88	89	0	0	0	0	0	0
	ICAPS	86	19	41	52	84	85	0	0	0	0	0	0
98	SIMAS	90	22	40	11	90	91	85	90	0	0	0	0
	ICAPS	85	22	39	52	84	85	0	0	0	0	0	0
[illegible]	SIMAS	73	30	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	0
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0
100	SIMAS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0
	ICAPS	89	24	39	52	84	85	88	89	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 60
SENSOR 9 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	49	12	4	42	49	0	0	0	0	0	0	0	0
	ICAPS	49	12	4	42	49	0	0	0	0	0	0	0	0
94	SIMAS	49	13	5	42	49	0	0	0	0	0	0	0	0
	ICAPS	50	14	4	41	50	0	0	0	0	0	0	0	0
95	SIMAS	50	14	5	42	50	0	0	0	0	0	0	0	0
	ICAPS	51	15	4	41	51	0	0	0	0	0	0	0	0
96	SIMAS	50	14	5	42	50	0	0	0	0	0	0	0	0
	ICAPS	51	15	4	41	51	0	0	0	0	0	0	0	0
97	SIMAS	50	15	5	41	50	0	0	0	0	0	0	0	0
	ICAPS	51	16	4	40	51	0	0	0	0	0	0	0	0
98	SIMAS	51	16	5	41	51	0	0	0	0	0	0	0	0
	ICAPS	51	17	5	40	51	0	0	0	0	0	0	0	0
99	SIMAS	51	17	5	41	51	0	0	0	0	0	0	0	0
	ICAPS	52	17	5	40	52	0	0	0	0	0	0	0	0
100	SIMAS	51	16	5	40	51	0	0	0	0	0	0	0	0
	ICAPS	52	16	5	40	52	0	0	0	0	0	0	0	0

ENVIRONMENT 6 SONAR DEPTH 60
SENSOR 9 TARGET DEPTH 60

SENSOR PERFORMANCE CHART

FOM	DATA	RMAX	RTOTAL	1	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	48	10	43	48	0	0	0	0	0	0	0	0
	ICAPS	46	9	42	46	0	0	0	0	0	0	0	0
94	SIMAS	49	12	42	49	0	0	0	0	0	0	0	0
	ICAPS	47	10	42	47	0	0	0	0	0	0	0	0
95	SIMAS	49	13	42	49	0	0	0	0	0	0	0	0
	ICAPS	47	12	41	47	0	0	0	0	0	0	0	0
96	SIMAS	49	13	42	49	0	0	0	0	0	0	0	0
	ICAPS	50	14	41	50	0	0	0	0	0	0	0	0
97	SIMAS	50	14	42	50	0	0	0	0	0	0	0	0
	ICAPS	51	13	41	51	0	0	0	0	0	0	0	0
98	SIMAS	50	11	42	50	0	0	0	0	0	0	0	0
	ICAPS	51	15	41	51	0	0	0	0	0	0	0	0
99	SIMAS	50	13	41	50	0	0	0	0	0	0	0	0
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	0	0
	ICAPS	51	17	41	51	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 600
SENSOR 9 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	77	63	7	9	11	22	48	54	73	85	88	96	97
	ICAPS	105	100	82	84	94	99	105	0	0	0	0	0	0
94	SIMAS	92	69	7	9	11	22	52	54	73	85	88	90	91
	ICAPS	117	107	82	84	94	97	106	114	117	0	0	0	0
95	SIMAS	113	81	7	9	13	22	75	85	88	90	91	95	97
	ICAPS	128	116	82	84	95	97	109	111	112	114	117	126	128
96	SIMAS	123	85	7	9	13	22	75	85	88	90	91	95	99
	ICAPS	129	123	82	84	95	97	121	126	129	0	0	0	0
97	SIMAS	123	86	7	9	13	22	75	85	91	95	99	101	104
	ICAPS	141	132	121	123	131	140	141	0	0	0	0	0	0
98	SIMAS	123	93	7	9	13	22	75	79	80	85	92	94	97
	ICAPS	141	136	121	123	132	135	136	139	141	0	0	0	0
99	SIMAS	123	99	7	9	13	22	75	79	83	85	92	94	104
	ICAPS	157	144	121	123	133	135	137	139	142	153	157	0	0
100	SIMAS	123	104	7	9	13	22	76	78	104	113	116	118	123
	ICAPS	166	154	133	135	145	149	150	152	157	165	166	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
74	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
75	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
76	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
77	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
78	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
79	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
	SIMAS	2	2	2	0	1	0	1	0	0	0	0	0	0
	[illegible]	2	1	1	1	1	1	1	1	1	0	0	0	0
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	0
80	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	0
	[illegible]	2	1	1	1	1	1	1	1	1	0	0	0	0
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	0
	[illegible]	2	2	1	1	1	1	1	1	1	0	0	0	0
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	0
81	ICAPS	46	4	2	45	44	0	0	0	0	0	0	0	0
	SIMAS	49	10	4	44	39	0	0	0	0	0	0	0	0
	S	40	[illegible]	[illegible]	[illegible]	42	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	50	10	3	44	50	0	0	0	0	0	0	0	0
87	SIMAS	50	12	5	44	50	0	0	0	0	0	0	0	0
	ICAPS	51	11	3	44	51	0	0	0	0	0	0	0	0
88	SIMAS	91	15	7	44	50	90	91	0	0	0	0	0	0
	ICAPS	51	12	4	44	51	0	0	0	0	0	0	0	0
89	SIMAS	92	23	12	44	50	89	92	0	0	0	0	0	0
	ICAPS	51	14	5	43	51	0	0	0	0	0	0	0	0
90	SIMAS	93	31	18	42	50	89	93	0	0	0	0	0	0
	ICAPS	51	18	6	43	51	0	0	0	0	0	0	0	0
91	SIMAS	94	31	24	43	51	89	94	0	0	0	0	0	0
	ICAPS	51	14	7	43	51	0	0	0	0	0	0	0	0
92	SIMAS	136	47	23	43	50	89	97	131	131	0	0	0	0
	ICAPS	52	17	7	43	52	0	0	0	0	0	0	0	0
94														
	ICAPS	140	34	8	43	57	90	100	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 200
SCENARIO 15 TARGET DEPTH 600

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	29	7	5	28	29	0	0	0	0	0	0	0	0
78	SIMAS	35	5	3	34	35	0	0	0	0	0	0	0	0
	ICAPS	29	10	5	23	25	28	29	0	0	0	0	0	0
79	SIMAS	35	7	3	30	31	34	35	0	0	0	0	0	0
	ICAPS	29	12	6	23	25	27	29	0	0	0	0	0	0
80	SIMAS	36	8	3	30	31	34	36	0	0	0	0	0	0
	ICAPS	32	14	6	23	25	27	29	31	32	0	0	0	0
81	SIMAS	38	12	3	30	38	0	0	0	0	0	0	0	0
	ICAPS	34	19	6	22	34	0	0	0	0	0	0	0	0
82	SIMAS	38	14	4	29	38	0	0	0	0	0	0	0	0
	ICAPS	49	22	7	22	34	48	49	0	0	0	0	0	0
83	SIMAS	68	20	4	29	39	62	63	66	68	0	0	0	0
	ICAPS	50	29	7	20	37	47	50	0	0	0	0	0	0
84	SIMAS	68	22	5	29	40	62	63	66	68	0	0	0	0
	ICAPS	55	37	7	20	39	46	55	0	0	0	0	0	0
85	SIMAS	99	28	5	29	41	62	69	98	99	0	0	0	0
	ICAPS	81	48	7	19	40	44	57	73	74	79	81	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	100	38	6	28	43	62	69	71	73	94	95	98	100
	ICAPS	93	62	8	19	58	60	61	63	64	72	75	78	81
87	SIMAS	131	50	6	27	48	61	73	94	95	97	101	130	131
	ICAPS	122	80	8	18	64	69	75	78	82	89	90	92	93
88	SIMAS	167	70	8	27	49	61	75	93	95	97	104	106	108
	ICAPS	152	107	8	18	76	78	82	84	85	88	102	104	105
89	SIMAS	167	82	9	26	49	61	76	92	104	106	108	124	127
	ICAPS	153	120	8	18	82	84	85	87	105	107	108	113	115
90	SIMAS	196	106	14	24	50	59	77	79	80	91	108	124	127
	ICAPS	179	140	8	12	13	17	82	84	85	87	108	112	125
91	SIMAS	200	129	19	23	50	59	82	89	108	123	138	141	143
	ICAPS	184	166	9	11	14	17	108	110	134	139	156	159	162
92	SIMAS	200	151	51	59	84	88	110	119	138	141	143	155	164
	ICAPS	195	188	9	11	14	17	136	138	156	158	169	171	191
93	SIMAS	200	165	51	59	86	88	113	119	144	152	153	155	171
	ICAPS	200	196	169	171	195	199	200	0	0	0	0	0	0
94	SIMAS	200	190	51	57	116	118	178	182	183	185	200	0	0
	ICAPS	200	198	196	199	200	0	0	0	0	0	0	0	0

ENVIRONMENT 6 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
76	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
78	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
81	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
82	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
83	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	49	10	4	44	49	0	0	0	0	0	0	0	0
	ICAPS	48	3	3	44	48	0	0	0	0	0	0	0	0
87	SIMAS	50	12	5	44	50	0	0	0	0	0	0	0	0
	ICAPS	51	11	3	44	51	0	0	0	0	0	0	0	0
88	SIMAS	50	15	7	43	50	0	0	0	0	0	0	0	0
	ICAPS	51	13	4	43	51	0	0	0	0	0	0	0	0
89	SIMAS	92	22	12	43	50	91	92	0	0	0	0	0	0
	ICAPS	51	14	5	43	51	0	0	0	0	0	0	0	0
90	SIMAS	92	31	18	43	51	89	92	0	0	0	0	0	0
	ICAPS	52	16	6	43	52	0	0	0	0	0	0	0	0
91	SIMAS	93	39	23	42	51	83	93	0	0	0	0	0	0
	ICAPS	52	17	7	43	52	0	0	0	0	0	0	0	0
92	SIMAS	71		37	42	51	69	71	0	0	0	0	0	0
	ICAPS	51		7	43	51	0	0	0	0	0	0	0	0
93	SIMAS	137		52	42	51	94	99	136	137	0	0	0	0
	ICAPS	97	25	9	43	52	92	97	0	0	0	0	0	0
									37	37	0	0	0	0
									1		0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
77	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	27	7	5	24	27	0	0	0	0	0	0	0	0
78	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	27	9	6	25	27	0	0	0	0	0	0	0	0
79	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	30	14	6	22	27	29	30	0	0	0	0	0	0
80	SIMAS	40	14	9	36	40	0	0	0	0	0	0	0	0
	ICAPS	30	15	7	22	27	29	30	0	0	0	0	0	0
81	SIMAS	43	18	10	35	40	42	43	0	0	0	0	0	0
	ICAPS	33	21	8	21	33	0	0	0	0	0	0	0	0
82	SIMAS	43	20	11	35	43	0	0	0	0	0	0	0	0
	ICAPS	52	26	8	20	33	49	52	0	0	0	0	0	0
83	SIMAS	43	22	11	33	43	0	0	0	0	0	0	0	0
	ICAPS	77	38	9	19	37	46	52	75	77	0	0	0	0
84	SIMAS	94	26	11	33	44	92	94	0	0	0	0	0	0
	ICAPS	77	48	9	18	41	45	52	58	59	73	77	0	0
85	SIMAS	94	38	11	33	49	54	55	63	64	88	90	92	94
	ICAPS	80	63	9	17	59	61	62	72	80	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	98	44	12	33	49	54	55	60	61	63	64	88	90
	ICAPS	120	77	10	16	59	61	62	65	66	72	80	82	83
87	SIMAS	123	58	14	32	49	54	55	59	61	63	65	84	90
	ICAPS	127	98	10	16	80	82	84	86	88	90	98	100	102
88	SIMAS	153	70	14	32	50	54	55	59	61	63	65	84	101
	ICAPS	153	126	11	15	84	86	108	110	111	116	117	119	128
89	SIMAS	153	82	14	32	50	53	55	59	61	63	65	79	80
	ICAPS	157	140	11	15	108	110	132	141	142	144	147	149	150
90	SIMAS	183	96	14	32	55	59	61	63	65	79	80	84	106
	ICAPS	190	162	11	14	132	134	139	141	150	152	153	155	159
91	SIMAS	192	124	19	32	56	59	61	63	65	78	108	120	136
	ICAPS	193	177	12	14	159	162	168	174	181	189	190	192	193
92	SIMAS	197	147	23	32	56	59	61	63	65	77	108	120	155
	ICAPS	199	185	12	14	160	162	168	172	181	185	187	189	190
93	SIMAS	198	159	26	32	61	63	65	77	108	120	158	166	167
	ICAPS	200	197	187	189	190	192	196	198	200	0	0	0	0
94	SIMAS	198	164	29	32	61	63	65	77	108	120	158	166	167
	ICAPS	200	199	190	192	200	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	46	4	2	45	46	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
81	SIMAS	47	5	3	45	47	0	0	0	0	0	0	0	0
	ICAPS	47	5	2	45	47	0	0	0	0	0	0	0	0
82	SIMAS	49	9	3	44	49	0	0	0	0	0	0	0	0
	ICAPS	48	7	3	45	48	0	0	0	0	0	0	0	0
83	SIMAS	49	9	3	44	49	0	0	0	0	0	0	0	0
	ICAPS	49	9	3	44	49	0	0	0	0	0	0	0	0
84	SIMAS	91	11	3	44	49	90	91	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
85	SIMAS	9[illegible]	14	5	44	50	90	91	0	0	0	0	0	0
	ICAPS	51	12	4	44	51	0	0	0	0	0	0	0	0
86	SIMAS	91	16	6	44	50	89	91	0	0	0	0	0	0
	ICAPS	51	13	5	44	51	0	0	0	0	0	0	0	0
87	SIMAS	94	22	8	43	50	89	94	0	0	0	0	0	0
	ICAPS	51	14	5	43	51	0	0	0	0	0	0	0	0
88	SIMAS	94	25	11	43	50	89	94	0	0	0	0	0	0
	ICAPS	51	15	6	43	51	0	0	0	0	0	0	0	0
89	SIMAS	136	37	16	43	51	89	97	134	136	0	0	0	0
	ICAPS	51	16	7	43	51	0	0	0	0	0	0	0	0
90	SIMAS	138	46	22	42	51	89	97	134	138	0	0	0	0
	ICAPS	94	22	7	42	52	91	94	0	0	0	0	0	0
91	SIMAS	138	60	32	42	51	88	100	134	138	0	0	0	0
	S	98	27	8	42	52	91	98	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	181	73	37	39	51	88	100	133	139	179	181	0	0
	ICAPS	102	35	9	41	52	88	89	91	102	0	0	0	0
93	SIMAS	181	78	51	87	100	133	142	179	181	0	0	0	0
	ICAPS	103	39	10	40	52	87	89	91	103	0	0	0	0
94	SIMAS	184	84	52	87	101	133	143	178	181	183	184	0	0
	ICAPS	103	45	10	36	53	87	103	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 600

PGM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
83	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	48	[illegible]	4	46	48	0	0	0	0	0	0	0	0
	ICAPS	47	5	3	46	47	0	0	0	0	0	0	0	0
85	SIMAS	48	[illegible]	4	44	48	0	0	0	0	0	0	0	0
	ICAPS	48	[illegible]	3	46	48	0	0	0	0	0	0	0	0
86	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
87	SIMAS	[illegible]									0	0	0	0
	ICAPS	[illegible]									0	0	0	0
88	SIMAS	50	11	7	43	50	0	0	0	0	0	0	0	0
	ICAPS	[illegible]		[illegible]	[illegible]	[illegible]					0	0	0	0
[illegible]	[illegible]										[illegible]	0	0	0
[illegible]	[illegible]	[illegible]									0	[illegible]	0	0
[illegible]	SIMAS	50	5	12	43	50	[illegible]	[illegible]	[illegible]	0	0	0	0	0
[illegible]	[illegible]	[illegible]									[illegible]	[illegible]	[illegible]	0
[illegible]	[illegible]	[illegible]									[illegible]	0	0	0
[illegible]	[illegible]	[illegible]									0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	96	47	28	42	51	83	96	0	0	0	0	0	0
	ICAPS	52	19	8	42	52	0	0	0	0	0	0	0	0
93	SIMAS	137	57	32	41	51	88	99	136	137	0	0	0	0
	ICAPS	97	25	8	42	52	92	97	0	0	0	0	0	0
94	SIMAS	137	65	36	41	52	88	100	133	134	136	137	0	0
	ICAPS	99	30	9	41	52	91	99	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
83	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	47	6	4	46	47	0	0	0	0	0	0	0	0
	ICAPS	47	5	3	46	47	0	0	0	0	0	0	0	0
85	SIMAS	48	9	4	44	48	0	0	0	0	0	0	0	0
	ICAPS	48	6	3	46	48	0	0	0	0	0	0	0	0
86	SIMAS	49	10	4	44	47	0	0	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
87	SIMAS	50	12	4	46	50	0	0	0	0	0	0	0	0
	ICAPS	50	12	4	47	50	0	0	0	0	0	0	0	0
88	SIMAS	50	15	7	43	50	0	0	0	0	0	0	0	0
	ICAPS	51	13	4	48	51	0	0	0	0	0	0	0	0
[illegible]	SIMAS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	0	0
	ICAPS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	0	0
90	SIMAS	92	28	10	46	51	51	92	0	0	0	0	0	0
	ICAPS	50	14	4	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	0	0	0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	96	46	27	42	51	89	96	0	0	0	0	0	0
	ICAPS	52	19	8	42	52	0	0	0	0	0	0	0	0
93	SIMAS	137	57	32	41	51	88	99	136	137	0	0	0	0
	ICAPS	97	25	8	42	52	92	97	0	0	0	0	0	0
94	SIMAS	137	65	36	41	52	88	100	133	134	136	137	0	0
	ICAPS	99	30	9	41	52	91	99	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 600

TOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	37	18	9	24	25	29	32	35	37	0	0	0	0
	ICAPS	35	21	8	23	35	0	0	0	0	0	0	0	0
81	SIMAS	66	21	9	24	25	29	32	34	37	65	66	0	0
	ICAPS	51	26	8	20	35	50	51	0	0	0	0	0	0
82	SIMAS	68	29	11	24	25	29	32	34	39	59	60	65	68
	ICAPS	52	28	9	20	35	50	52	0	0	0	0	0	0
83	SIMAS	90	34	11	24	25	29	32	34	39	54	55	58	60
	ICAPS	52	36	9	17	35	45	52	0	0	0	0	0	0
84	SIMAS	93	43	11	24	25	29	32	34	40	42	45	54	55
	ICAPS	81	54	10	16	43	45	52	56	59	71	72	80	81
85	SIMAS	98	54	11	23	25	27	32	34	40	42	45	54	55
	ICAPS	82	62	10	16	52	54	59	61	62	71	72	76	77
86	SIMAS	98	66	11	13	15	23	25	27	46	54	55	57	73
	ICAPS	103	74	10	15	59	61	62	67	68	70	72	76	77
87	SIMAS	148	85	11	13	16	23	25	27	49	54	55	57	74
	ICAPS	152	99	11	15	63	67	72	76	78	80	82	84	85
88	SIMAS	166	96	11	13	16	23	50	54	55	57	74	76	77
	ICAPS	161	117	11	15	73	75	82	84	85	87	88	90	103
89	SIMAS	177	118	11	13	16	19	21	23	50	52	55	57	74
	ICAPS	188	141	11	14	73	75	82	84	88	90	109	111	125
90	SIMAS	186	136	16	19	55	57	77	81	95	97	98	100	102
	ICAPS	188	159	11	14	109	111	125	127	135	141	156	160	162
91	SIMAS	200	164	78	80	104	108	125	131	135	138	144	146	157
	ICAPS	196	178	12	14	156	159	162	165	166	168	169	171	179

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	200	184	78	80	104	108	125	127	129	131	136	138	144
	ICAPS	196	184	12	14	157	159	166	168	179	182	185	187	183
93	SIMAS	200	195	106	108	125	127	163	165	174	176	193	195	200
	ICAPS	200	196	12	14	157	159	185	187	188	190	200	0	0
94	SIMAS	200	198	106	108	163	165	200	0	0	0	0	0	0
	ICAPS	200	197	157	159	185	187	188	190	200	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 60
SENSOR 23L TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	200	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	94	0	0	0	0	0	0	0	0	0	0	0	0
66	SIMAS	200	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	94	0	0	0	0	0	0	0	0	0	0	0	0
67	SIMAS	200	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	94	0	0	0	0	0	0	0	0	0	0	0	0
68	SIMAS	200	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	200	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
74	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
75	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
76	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 60
SENSOR 23 L TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
78	SIMAS	46	4	2	45	46	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	46	4	2	45	46	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	46	4	2	45	46	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
81	SIMAS	47	6	3	45	47	0	0	0	0	0	0	0	0
	ICAPS	47	5	2	45	47	0	0	0	0	0	0	0	0
82	SIMAS	49	9	3	44	49	0	0	0	0	0	0	0	0
	ICAPS	48	7	3	45	48	0	0	0	0	0	0	0	0
83	SIMAS	49	9	3	44	49	0	0	v	0	0	0	0	0
	ICAPS	49	9	3	44	49	0	0	v	v	0	0	0	0
84	SIMAS	91	11	3	44	49	90	91	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
85	SIMAS	91	14	5	44	50	90	91	0	0	0	0	0	0
	ICAPS	51	12	4	44	51	0	0	0	0	0	0	0	0
86	SIMAS	91	16	6	44	50	89	91	0	0	0	0	0	0
	ICAPS	51	13	5	44	51	0	0	0	0	0	0	0	0
87	SIMAS	94	22	8	43	50	89	94	0	0	0	0	0	0
	ICAPS	51	14	5	43	51	0	0	0	0	0	0	0	0
88	SIMAS	94	25	11	43	50	89	94	0	0	0	0	0	0
	ICAPS	51	15	6	43	51	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 60
SENSOR 23 L TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
74	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
75	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 60
SENSOR 23 L TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
83	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	48	7	4	46	48	0	0	0	0	0	0	0	0
	ICAPS	47	5	3	46	47	0	0	0	0	0	0	0	0
85	SIMAS	48	9	4	44	48	0	0	0	0	0	0	0	0
	ICAPS	48	6	3	46	48	0	0	0	0	0	0	0	0
86	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
87	SIMAS	50	12	4	43	50	0	0	[illegible]	0	0	0	0	0
	ICAPS	50	12	4	43	50	0	0	0	0	0	0	0	0
88	SIMAS	50	15	7	43	50	0	0	[illegible]	0	0	0	0	0
	ICAPS	51	14	5	43	51	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 300
SENSOR 23 L TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
74	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
75	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
?	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	?	1	1	1	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 300
SENSOR 23L TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
81	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
82	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
83	SIMAS	47	6	3	45	47	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	47	6	3	45	47	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
85	SIMAS	48	8	3	44	48	0	0	0	0	0	0	0	0
	ICAPS	46	7	3	45	46	0	0	0	0	0	0	0	0
86	SIMAS	[illegible]	10	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	0	0	0	0	0
	ICAPS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	0	0	0	0
87	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	0
									0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 300
SENSOR 23L TARGET DEPTH 600

FLM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
70	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 300
SENSOR 23L TARGET DEPTH 600

TIM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	29	7	5	28	29	0	0	0	0	0	0	0	0
78	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	29	7	5	28	29	0	0	0	0	0	0	0	0
79	SIMAS	32	8	4	27	28	31	32	0	0	0	0	0	0
	ICAPS	29	12	6	24	29	0	0	0	0	0	0	0	0
80	SIMAS	34	11	4	27	28	30	34	0	0	0	0	0	0
	ICAPS	31	15	6	23	31	0	0	0	0	0	0	0	0
81	SIMAS	34	14	4	6	8	27	28	30	34	0	0	0	0
	ICAPS	34	19	6	22	34	0	0	0	0	0	0	0	0
82	SIMAS	34	15	4	6	8	26	28	30	34	0	0	0	0
	ICAPS	49	23	7	21	34	48	49	0	0	0	0	0	0
83	SIMAS	62	21	9	26	28	30	34	38	39	61	62	0	0
	ICAPS	50	26	7	21	35	47	50	0	0	0	0	0	0
84	SIMAS	62	29	10	25	28	30	36	38	40	56	57	60	62
	ICAPS	79	45	7	20	39	45	56	73	75	77	79	0	0
85	SIMAS	86	35	10	25	40	56	57	60	64	85	86	0	0
	ICAPS	79	51	8	19	40	45	59	73	75	77	79	0	0
86	SIMAS	116	47	10	25	43	55	64	85	87	90	92	115	116
	ICAPS	99	64	8	18	61	72	79	82	83	98	99	0	0
87	SIMAS	116	55	10	24	43	45	48	55	66	85	88	90	92
	ICAPS	124	82	8	18	64	70	80	82	83	88	90	92	93
88	SIMAS	116	69	10	22	48	54	70	72	73	83	93	115	116
	ICAPS	125	92	8	17	64	66	80	82	83	88	94	97	100

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 60
SENSOR 23H TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	125	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	50	0	0	0	0	0	0	0	0	0	0	0	0
63	SIMAS	125	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	50	0	0	0	0	0	0	0	0	0	0	0	0
64	SIMAS	125	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	50	0	0	0	0	0	0	0	0	0	0	0	0
65	SIMAS	125	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	125	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS										0	0	0	0
72	SIMAS										0	0	0	0
	ICAPS		1	1	0	0	0	0	0	0	0	0	0	0
	SIMAS									0	0	0	0	0
									0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 60
SENSOR 23M TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
75	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	46	4	2	45	46	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	47	5	2	45	47	0	0	0	0	0	0	0	0
	ICAPS	46	5	3	45	46	0	0	0	0	0	0	0	0
81	SIMAS	47	7	3	44	47	0	0	0	0	0	0	0	0
	ICAPS	46	5	3	45	46	0	0	0	0	0	0	0	0
82	SIMAS	47	7	3	44	47	0	0	0	0	0	0	0	0
	ICAPS	46	6	3	44	46	0	0	0	0	0	0	0	0
83	SIMAS	48	8	3	44	48	0	0	0	0	0	0	0	0
	ICAPS	48	8	3	44	48	0	0	0	0	0	0	0	0
84	SIMAS	48	9	4	44	48	0	0	0	0	0	0	0	0
	ICAPS	48	8	3	44	48	0	0	0	0	0	0	0	0
85	SIMAS	50	12	5	44	50	0	0	[illegible]	0	0	0	0	0
	ICAPS	51	12	3	43	51	0	0	[illegible]	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 60
SENSOR 23H TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	2	2	2	0	0	0	0	[illegible]	0	0	0	0	0
	AP	1	1	1	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 60
SENSOR 23H TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
81	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
83	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	47	5	3	46	47	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
85	SIMAS	48	6	3	46	48	0	0	0	0	0	0	0	0
	ICAPS	47	7	3	44	47	0	0	0	0	0	0	0	0

SONICA PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 300
SENSOR 23H TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	47	0	0	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	47	0	0	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	47	0	0	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	47	0	0	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 300
SENSOR 231 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
75	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
76	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
78	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
79	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
81	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
82	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
83	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
84	SIMAS	46	4	2	45	46	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
85	SIMAS	47	6	2	44	47	0	0	0	0	0	0	0	0
	ICAPS	47	6	3	45	47	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 300
SENSOR 231 TARGET DEPTH 600

RUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
64	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
65	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
67	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
68	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
70	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3		0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 300
SENSOR 231 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	●
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
76	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
77	SIMAS	5	5	5	0	0	0	0	0	0	●	●	0	0
	ICAPS	28	11	9	27	28	0	0	0	0	0	0	0	0
78	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	●
	ICAPS	30	15	9	22	23	27	30	0	0	0	0	0	0
79	SIMAS	28	7	5	27	28	0	0	0	0	0	0	0	0
	ICAPS	30	23	10	18	30	0	0	0	0	0	0	0	0
80	SIMAS	33	11	5	26	28	31	33	0	0	0	0	0	0
	ICAPS	34	29	11	17	34	0	0	0	0	0	0	0	0
81	SIMAS	34	12	5	26	28	31	34	0	0	0	0	0	0
	ICAPS	34	31	11	15	34	0	0	0	0	0	0	0	0
82	SIMAS	34	12	5	26	28	31	34	0	0	0	0	0	0
	ICAPS	54	45	36	43	48	52	54	0	0	0	0	0	0
83	SIMAS	37	17	7	26	28	30	34	36	37	0	0	0	0
	ICAPS	59	55	37	42	59	0	0	0	0	0	0	0	0
84	SIMAS	39	20	7	26	28	30	39	0	0	0	0	0	0
	ICAPS	69	61	59	68	69	0	0	0	0	0	0	0	0
[illegible]	SIMAS	62	25	7	25	40	61	62	[illegible]	0	0	0	0	0
	[illegible]	85	[illegible]	62	68	75	79	80	[illegible]	83	0	0	0	0

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This volume of the Acoustic Model Sensitivity to Input Data Differences report contains the printed and graphical outputs of the objective analysis scheme employed in the determination of the acoustic model sensitivity to input data differences observed in a comparison of the SIMAS and ICAPS data bases. These outputs serve to substantiate the observations and conclusions contained in Volume I of this report. The sensor ID codes provided on each plot or printout allow the reader to determine the sensor configuration used in each analysis case. The key is provided in Table D1 of Volume I.

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