

FINAL REPORT

Site: New Bedford
Break: 46
Other: 48871



SDMS DocID 48871

for

MODELING OF THE TRANSPORT,
DISTRIBUTION, AND FATE OF PCBs AND
HEAVY METALS IN THE ACUSHNET RIVER/
NEW BEDFORD HARBOR/BUZZARDS BAY SYSTEM

APPENDIX VOLUME 3
Appendices G - M

Under Contract No. 4236-MOD-0019

to

EBASCO SERVICES, INC.
211 Congress Street
Boston, MA 02110

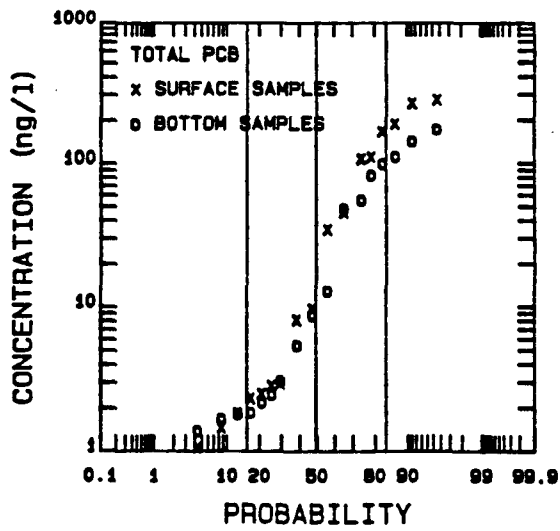
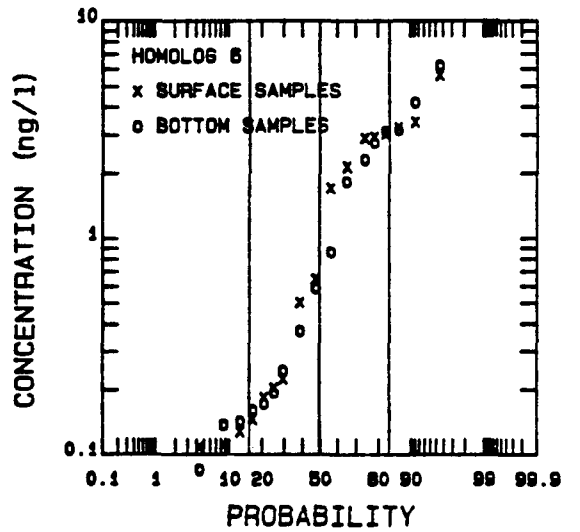
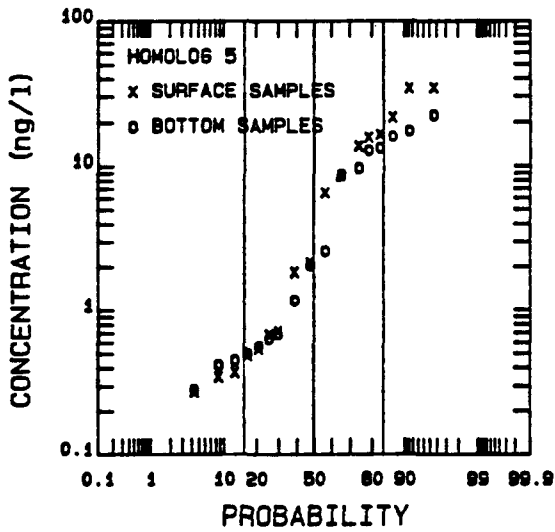
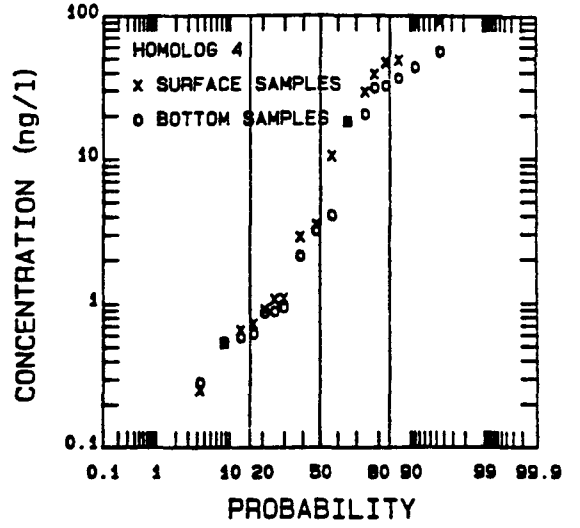
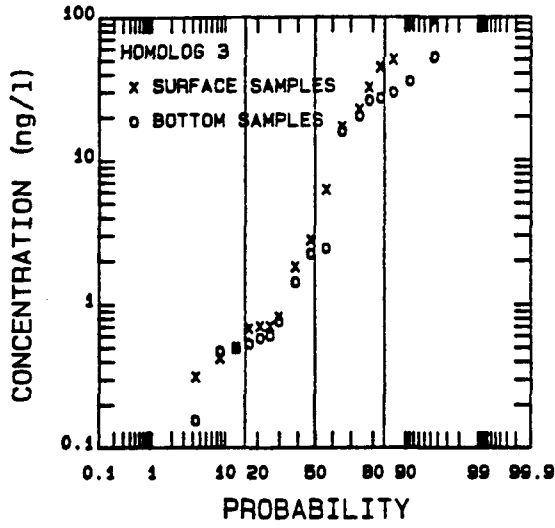
September 21, 1990

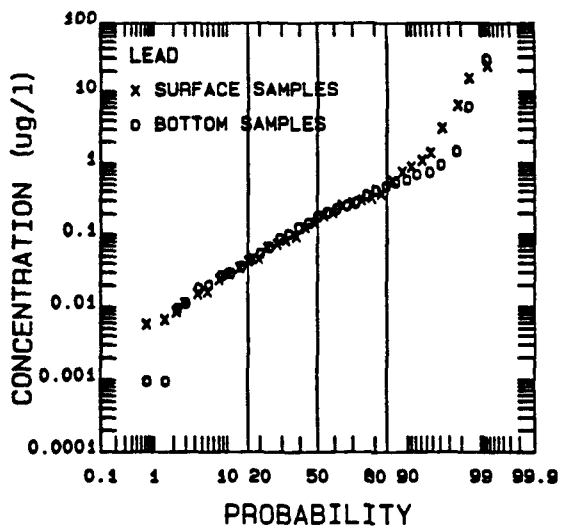
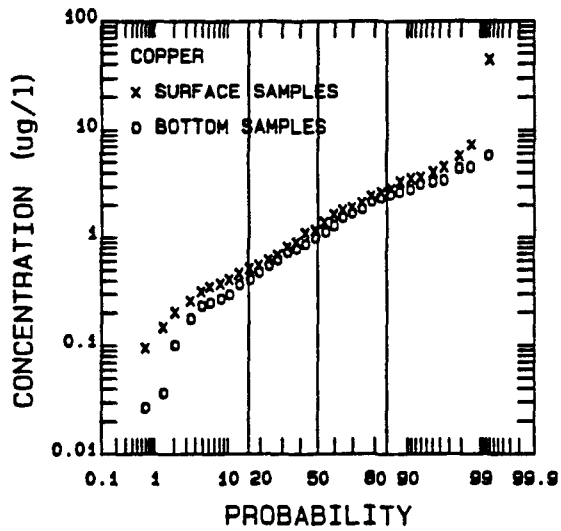
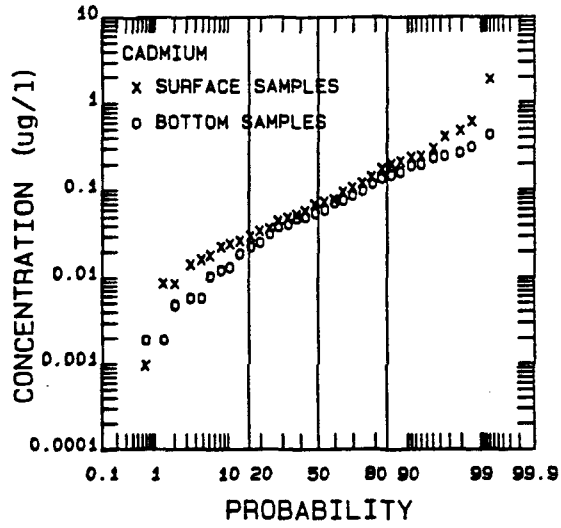
from

BATTELLE MEMORIAL INSTITUTE
Duxbury Operations
397 Washington Street
Duxbury, MA 02332

APPENDIX G

COMPARISON OF SURFACE AND BOTTOM SAMPLES





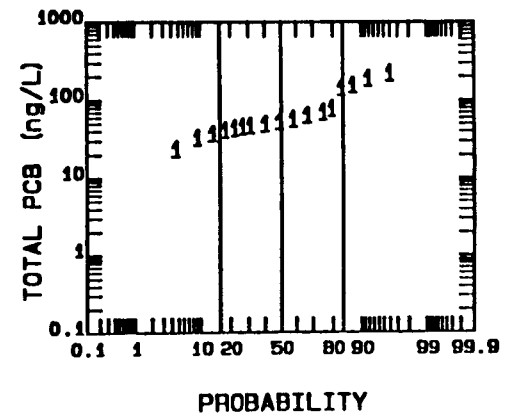
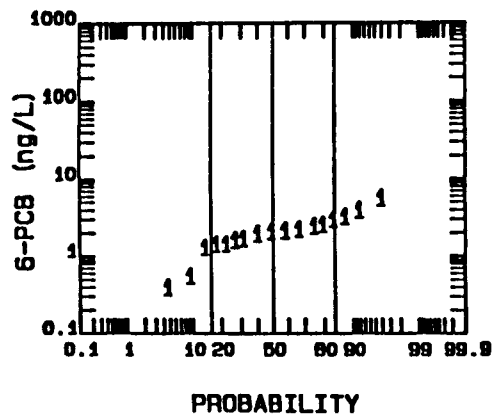
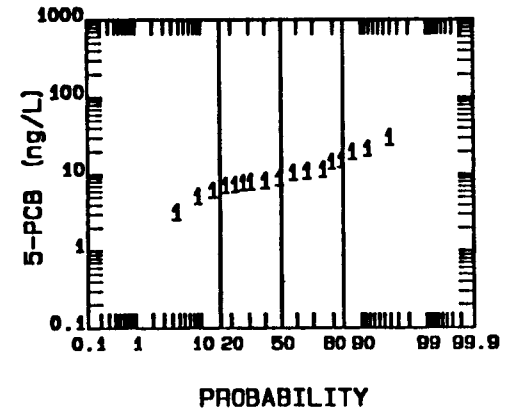
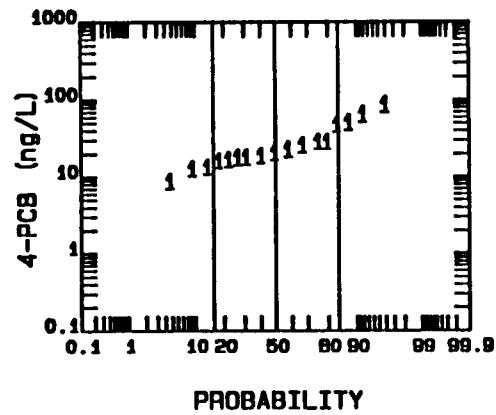
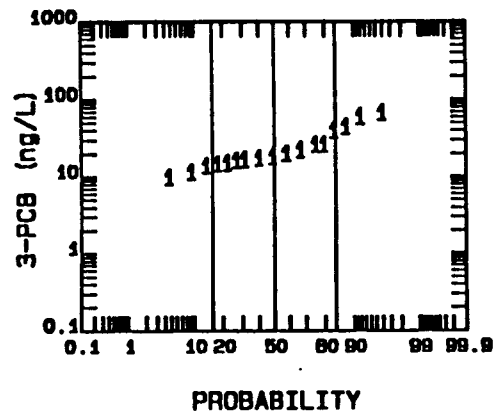
APPENDIX H

PROBABILITY PLOTS OF WATER COLUMN CONCENTRATIONS

AREA 1 WATER COLUMN DISSOLVED PCB

CRUISE 1

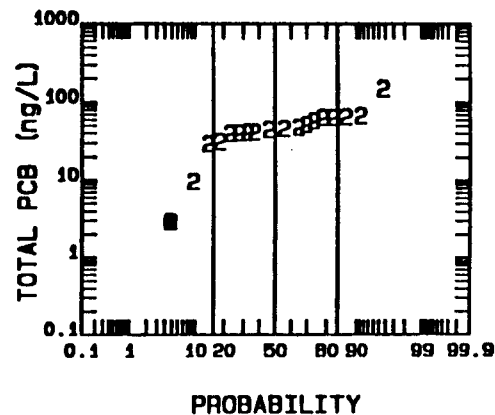
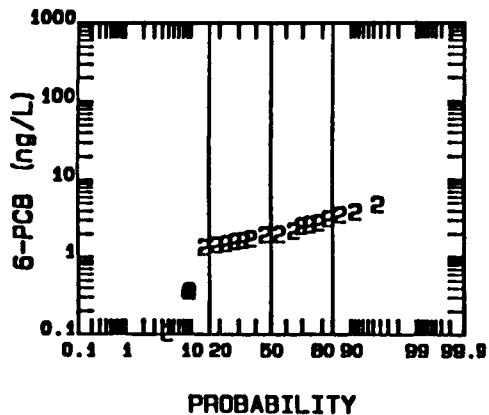
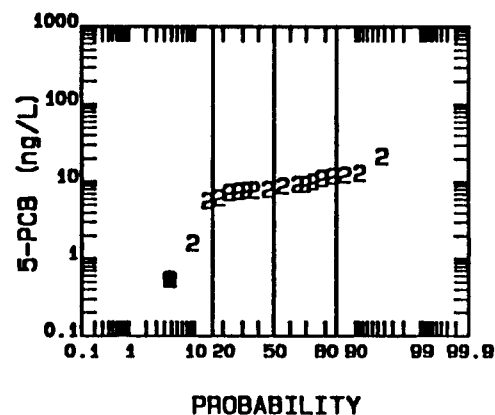
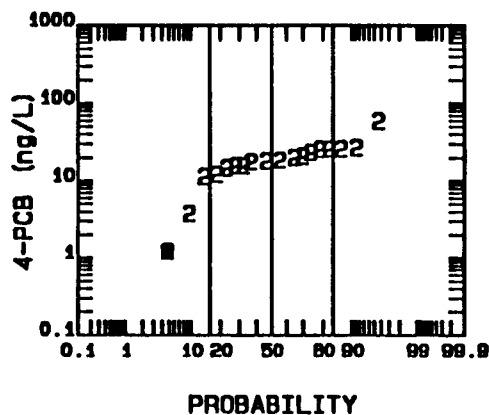
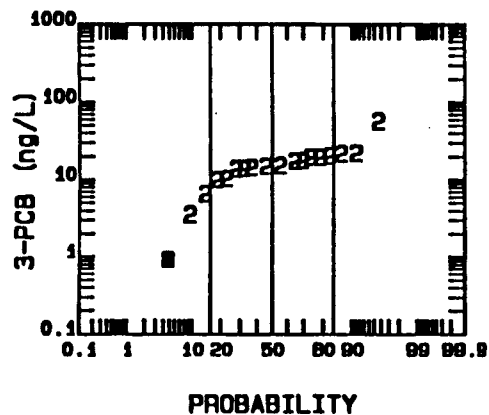
T-H



AREA 1 WATER COLUMN DISSOLVED PCB

CRUISE 2

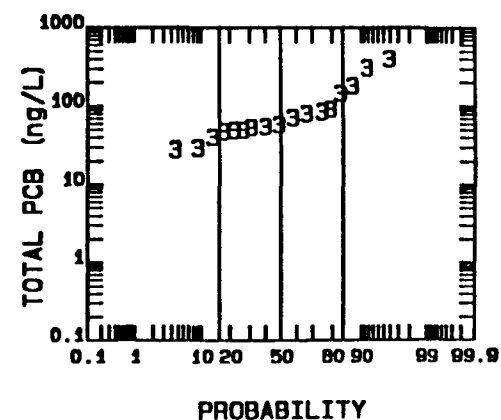
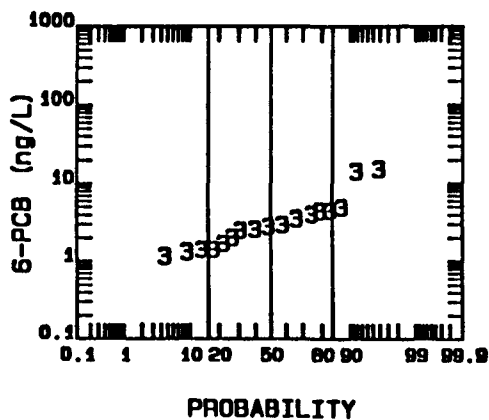
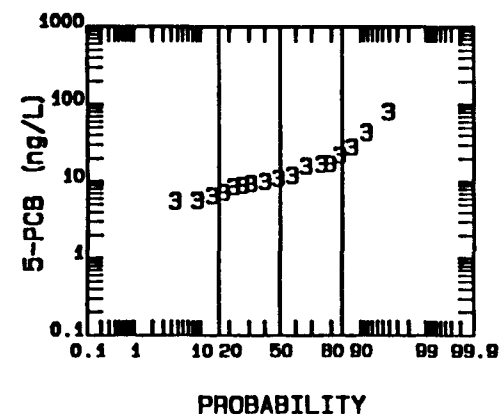
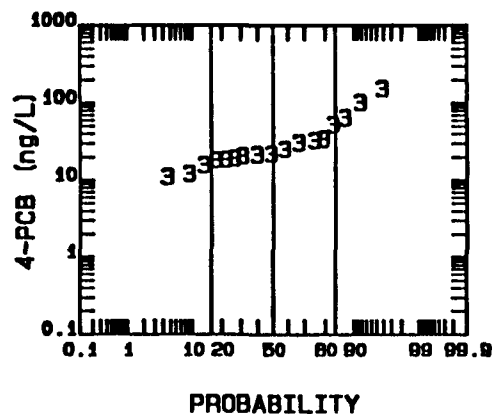
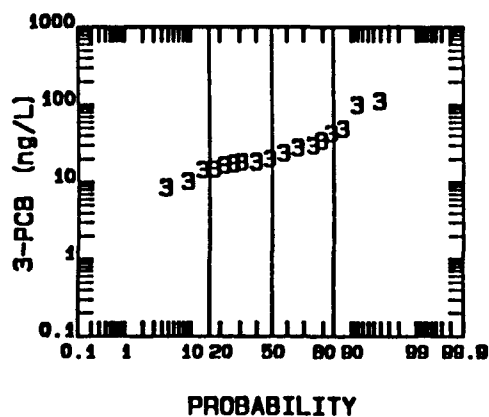
H-2



AREA 1 WATER COLUMN DISSOLVED PCB

CRUISE 3

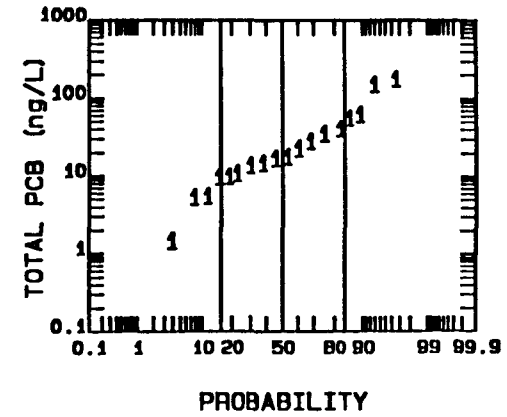
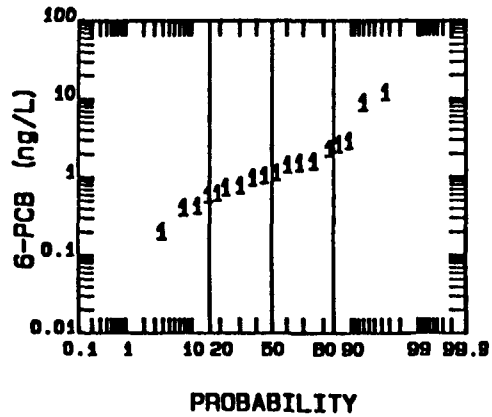
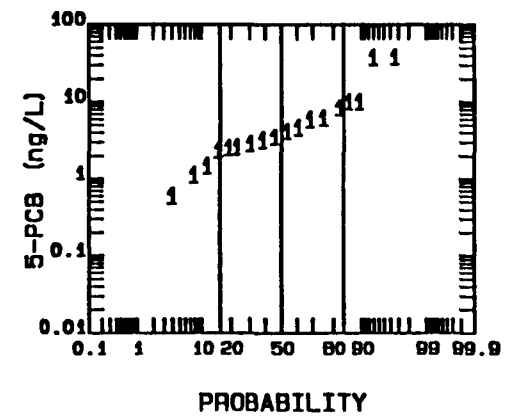
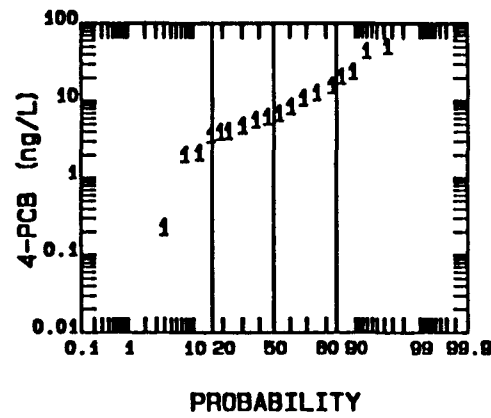
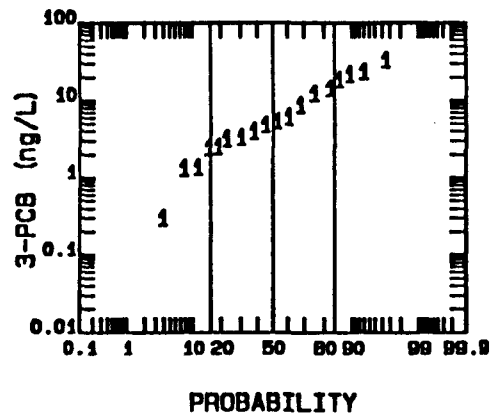
C-H



AREA 2 WATER COLUMN DISSOLVED PCB

CRUISE 1

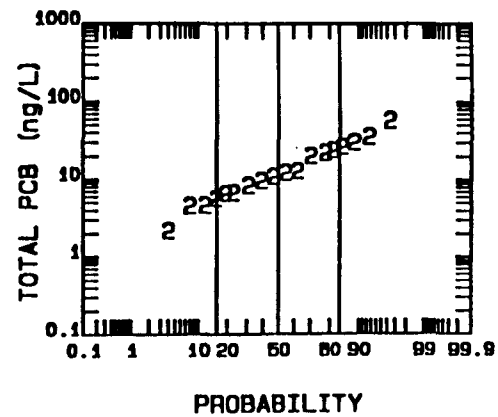
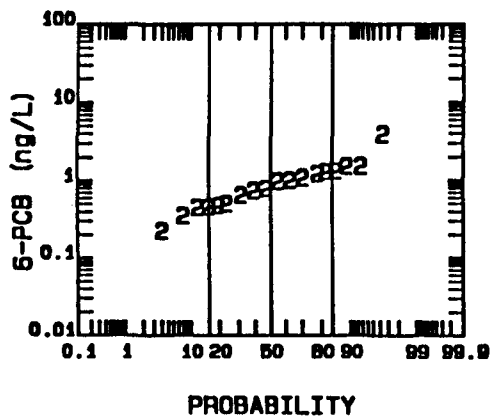
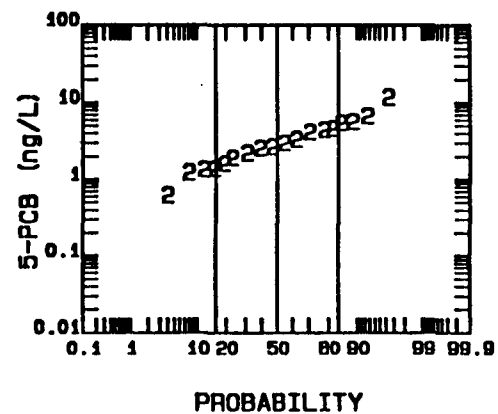
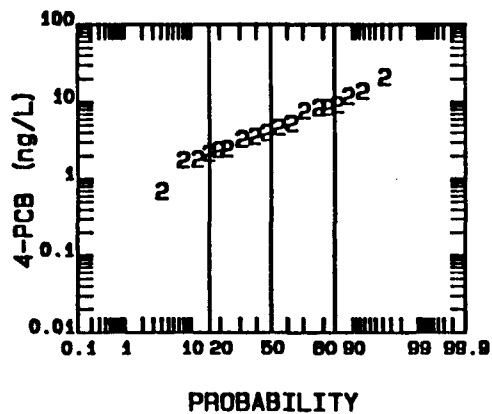
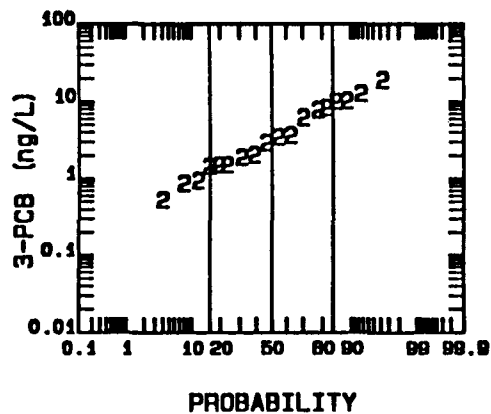
H-4



AREA 2 WATER COLUMN DISSOLVED PCB

CRUISE 2

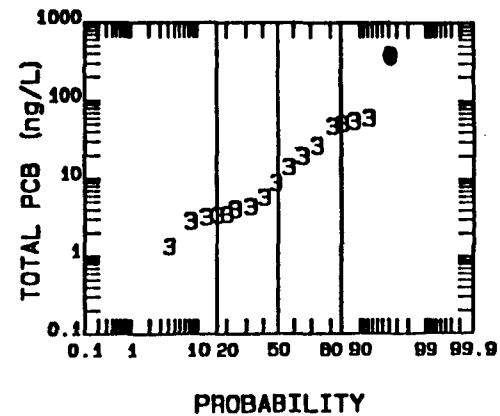
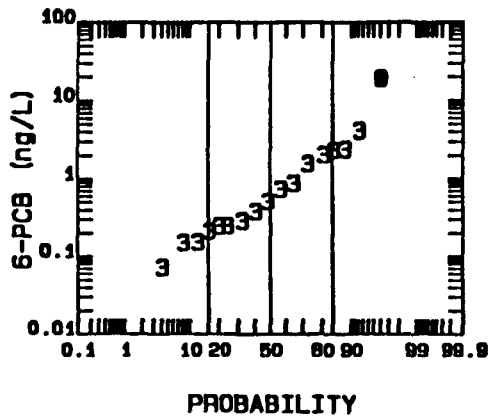
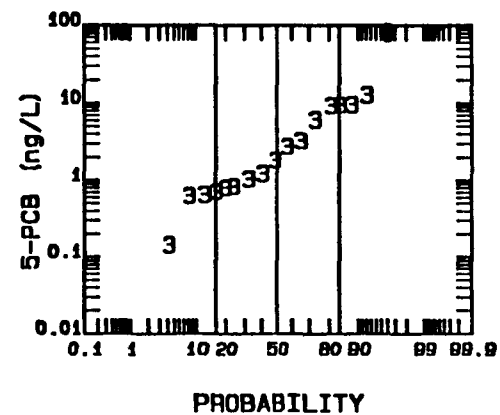
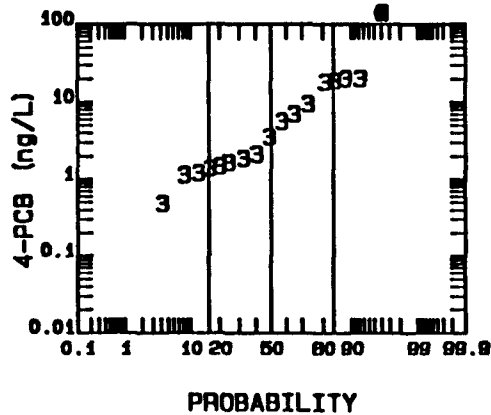
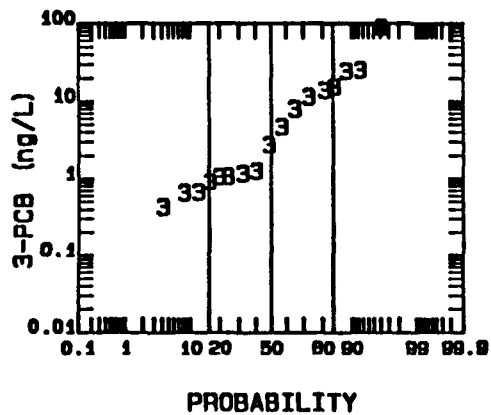
S-H



AREA 2 WATER COLUMN DISSOLVED PCB

CRUISE 3

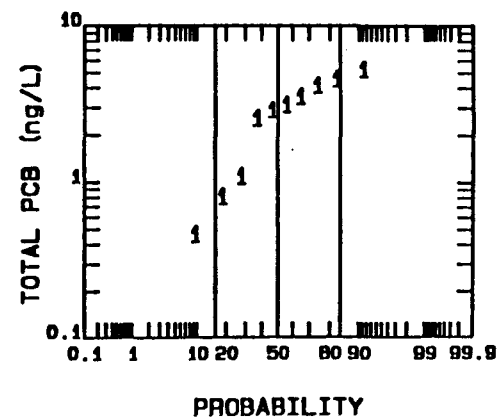
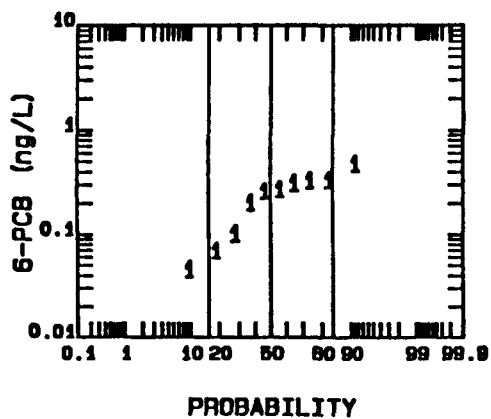
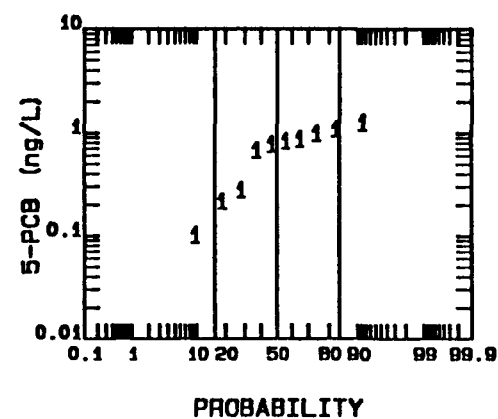
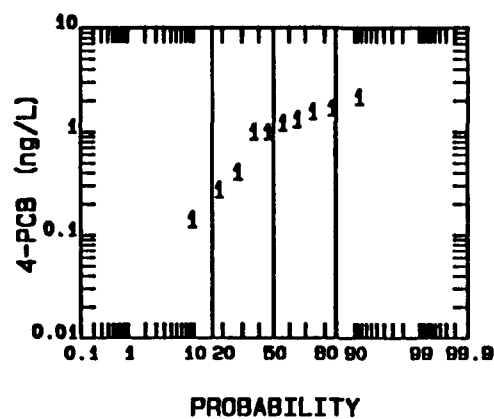
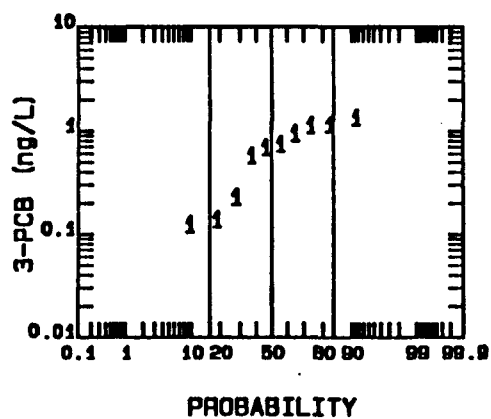
9-H



AREA 3 WATER COLUMN DISSOLVED PCB

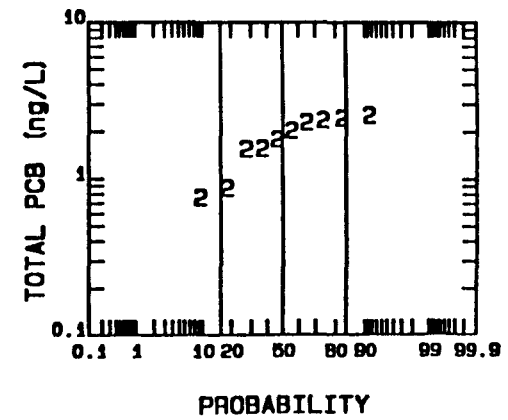
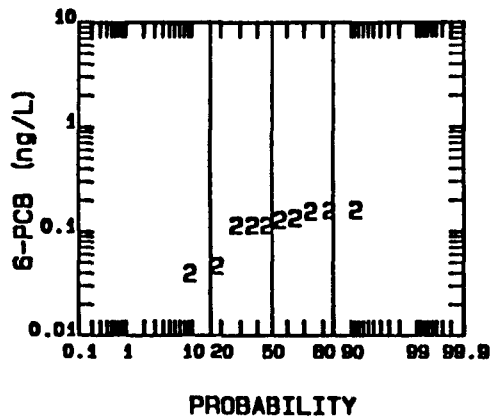
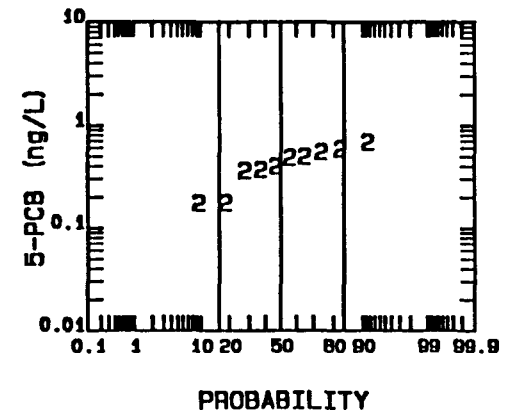
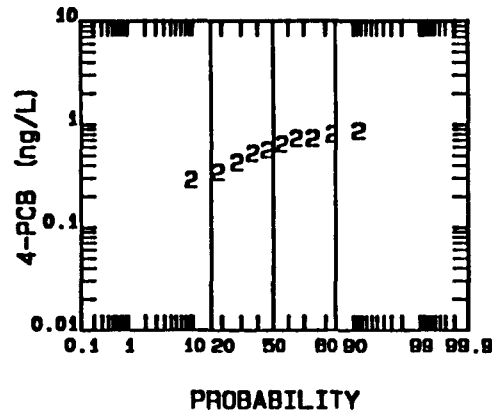
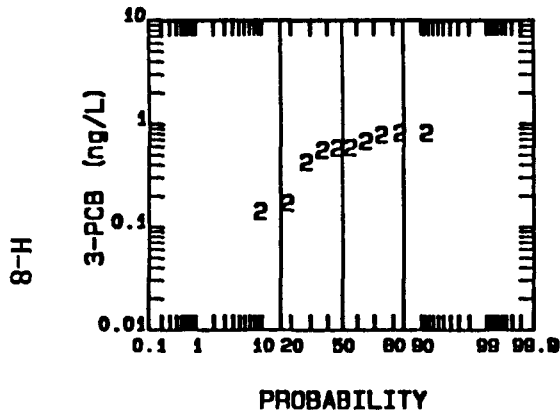
CRUISE 1

L-H



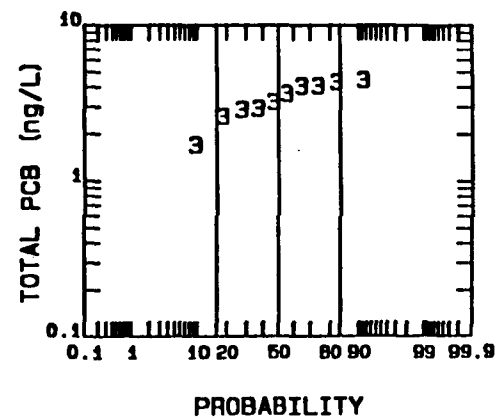
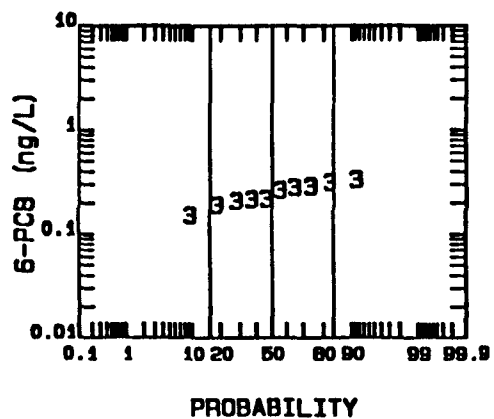
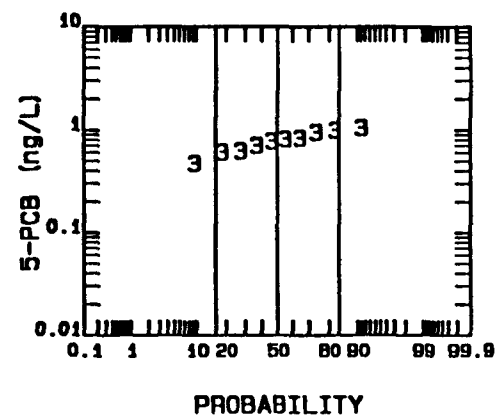
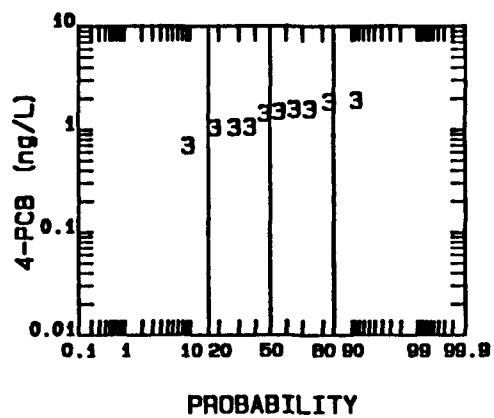
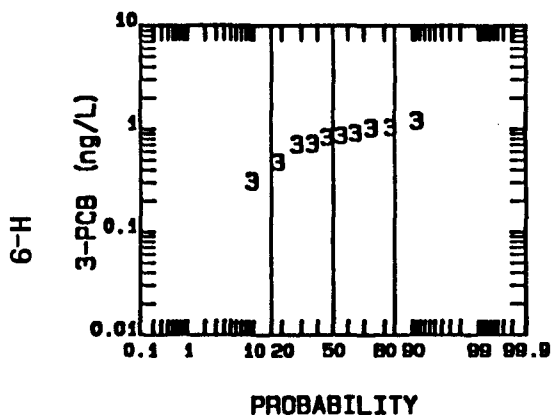
AREA 3 WATER COLUMN DISSOLVED PCB

CRUISE 2



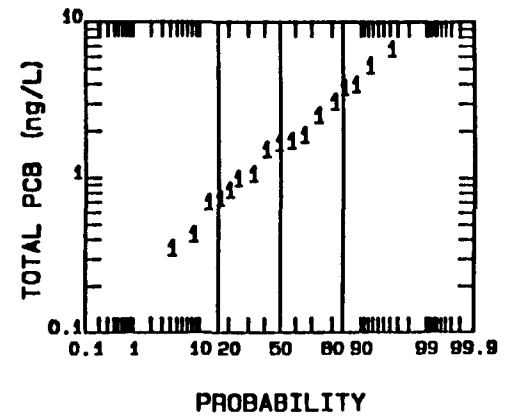
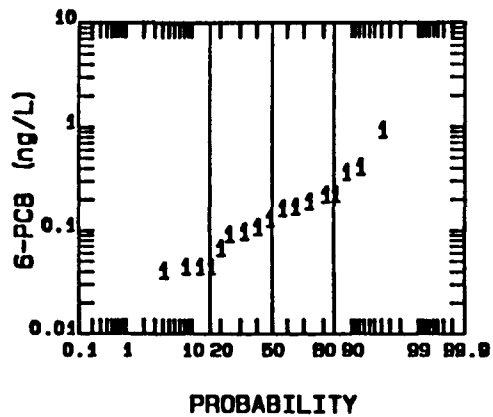
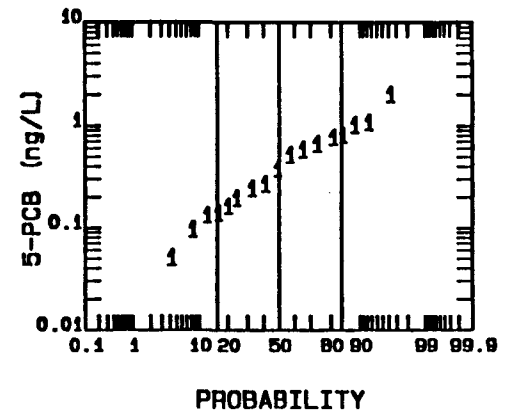
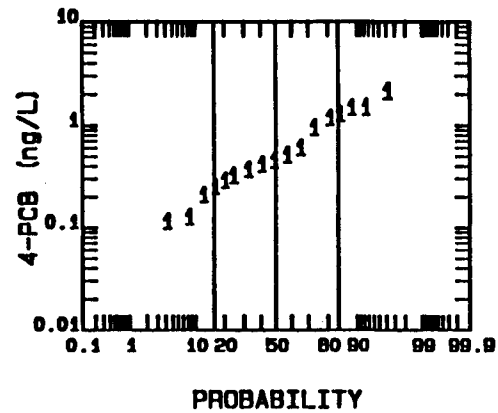
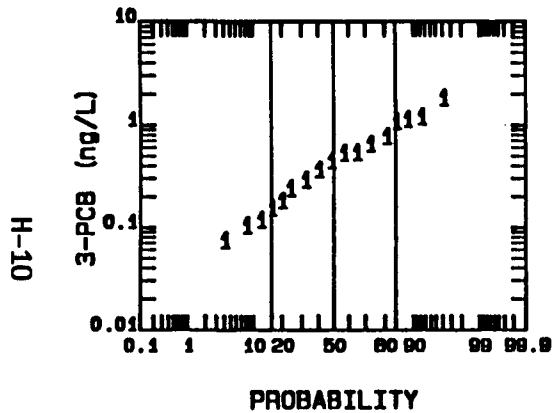
AREA 3 WATER COLUMN DISSOLVED PCB

CRUISE 3



AREA 4 WATER COLUMN DISSOLVED PCB

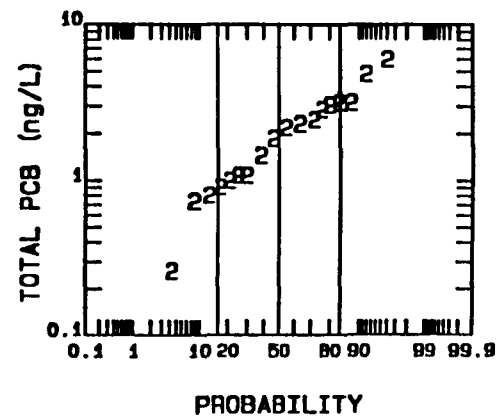
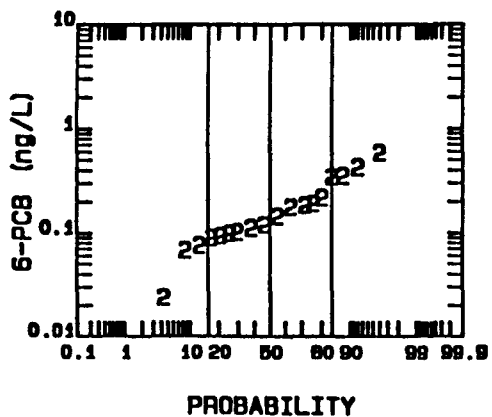
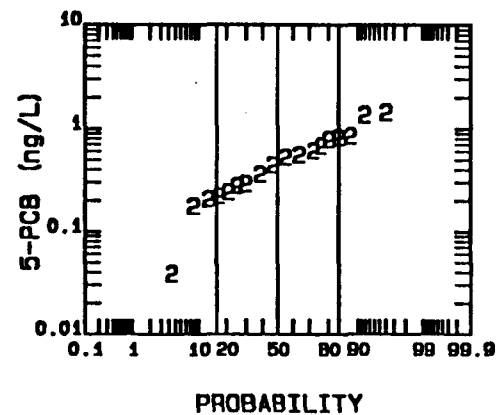
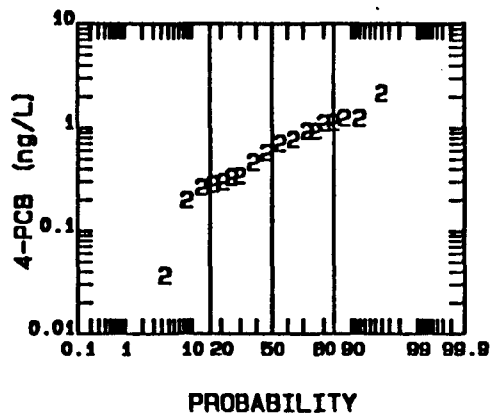
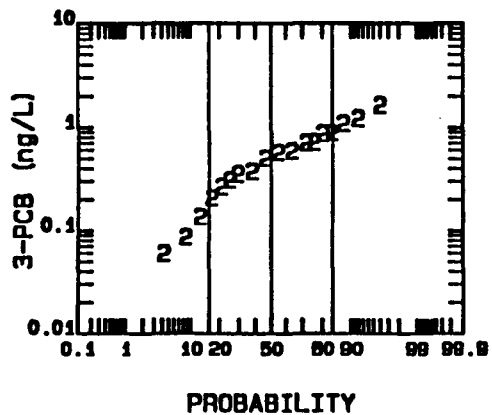
CRUISE 1



AREA 4 WATER COLUMN DISSOLVED PCB

CRUISE 2

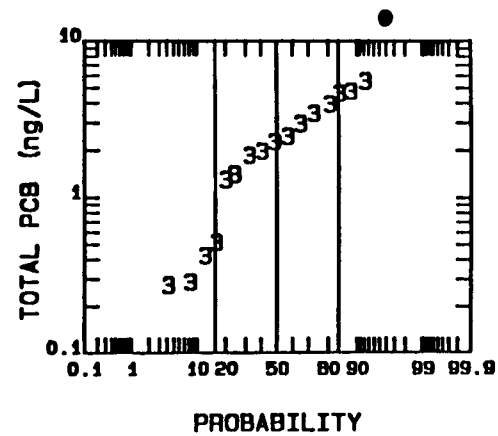
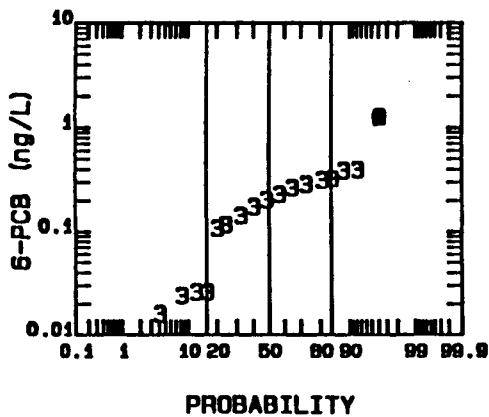
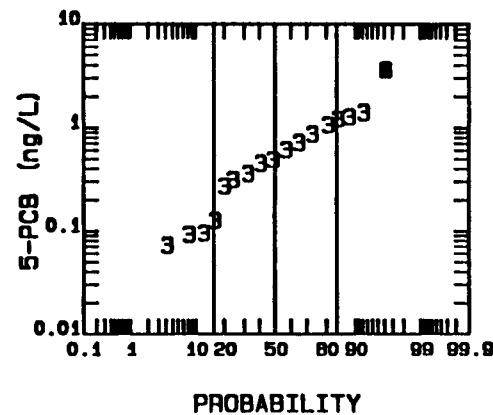
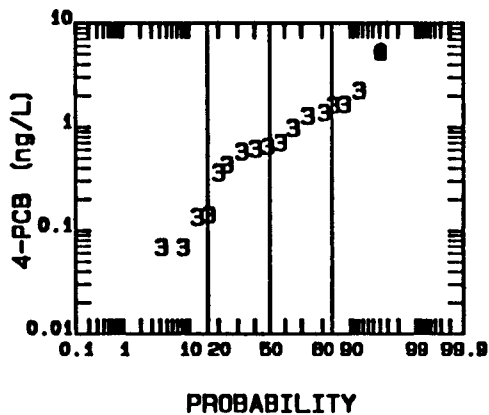
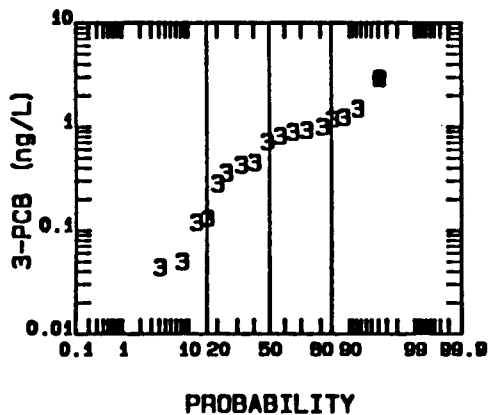
H-11



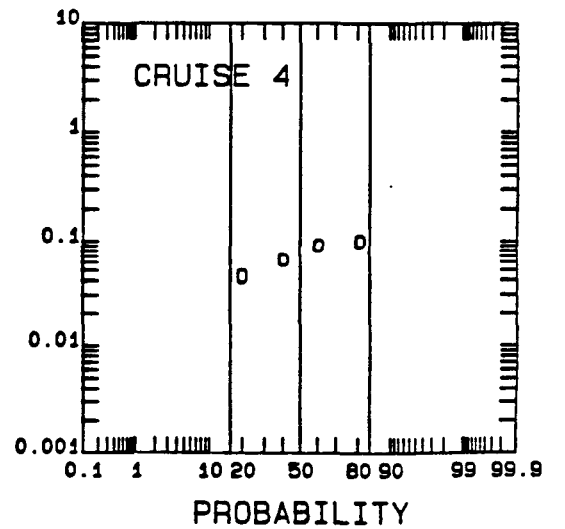
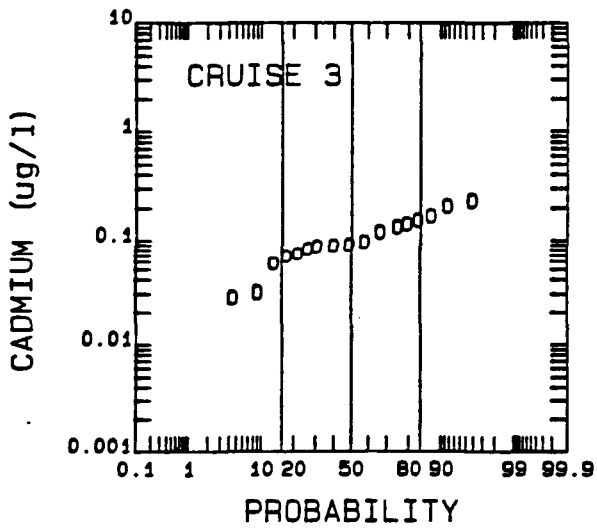
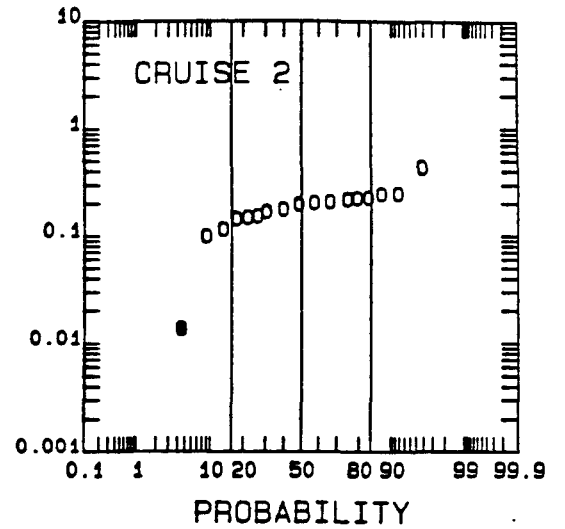
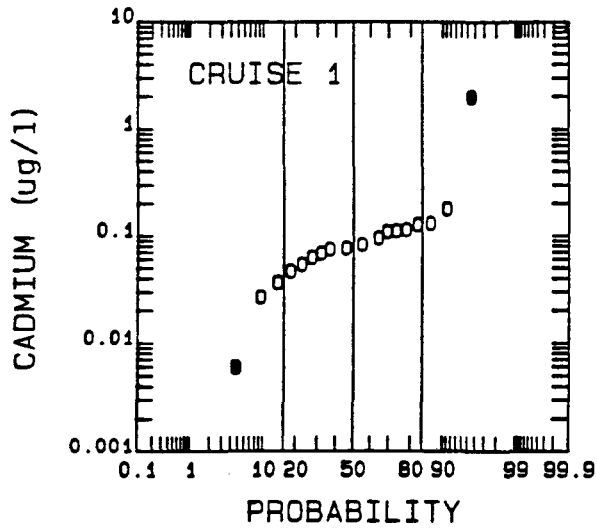
AREA 4 WATER COLUMN DISSOLVED PCB

CRUISE 3

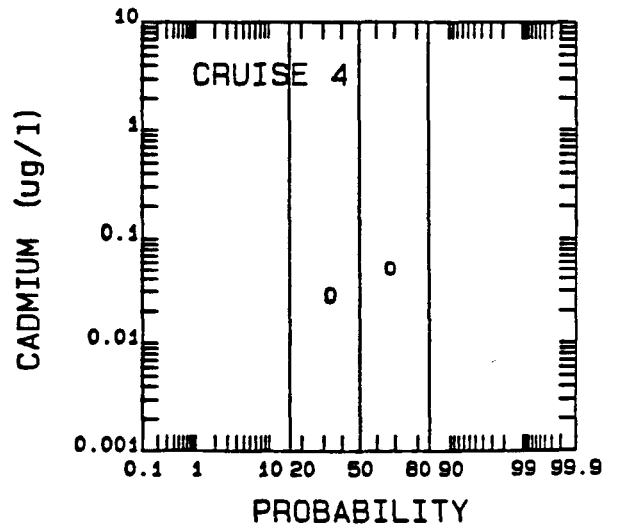
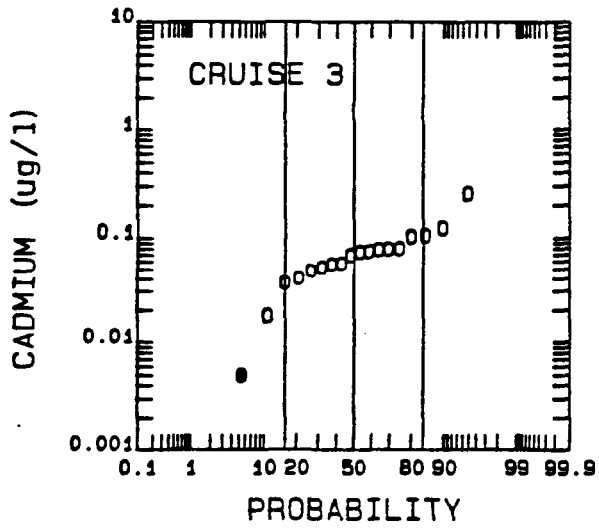
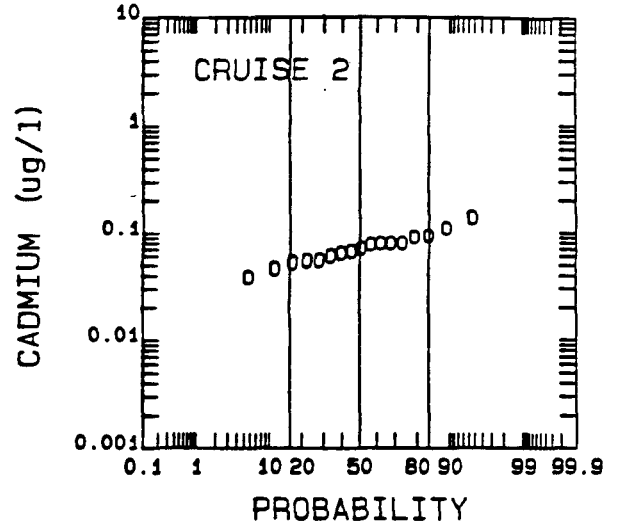
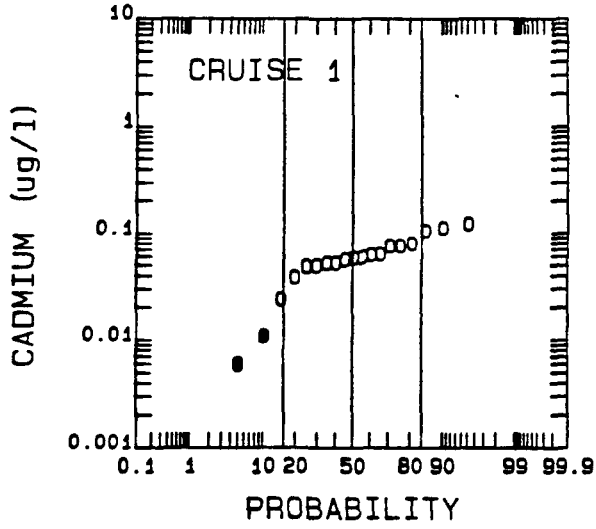
H-12



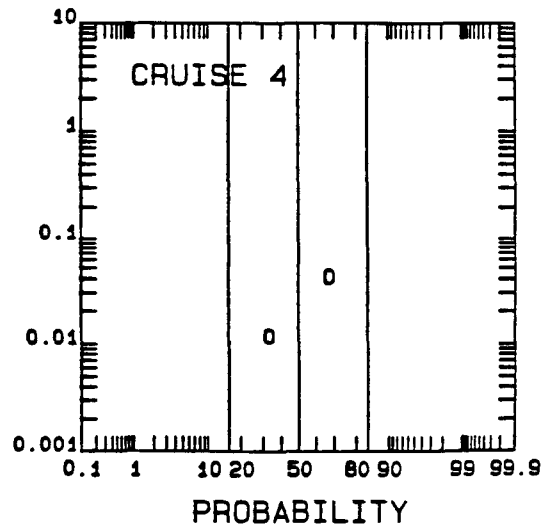
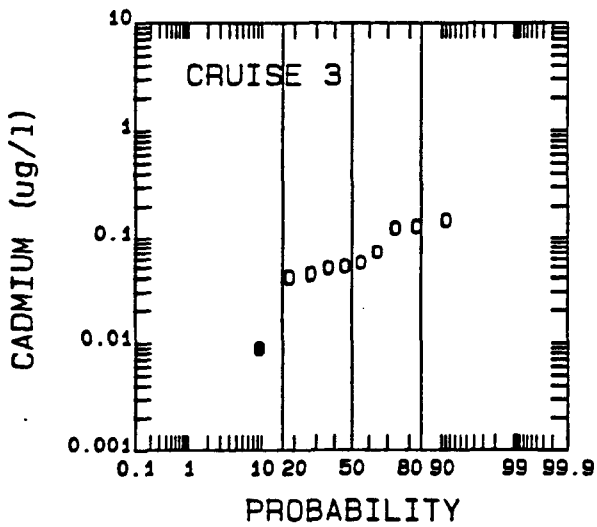
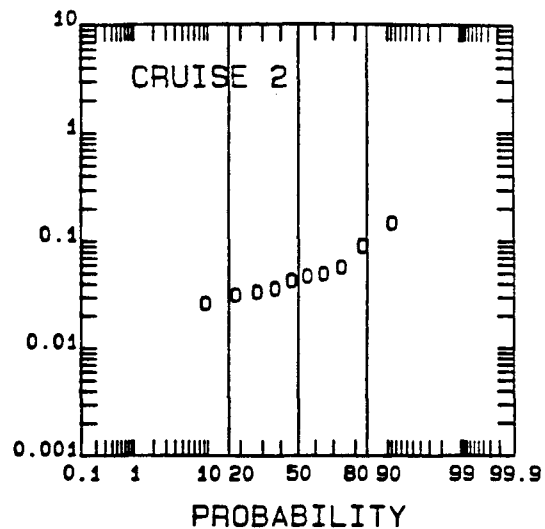
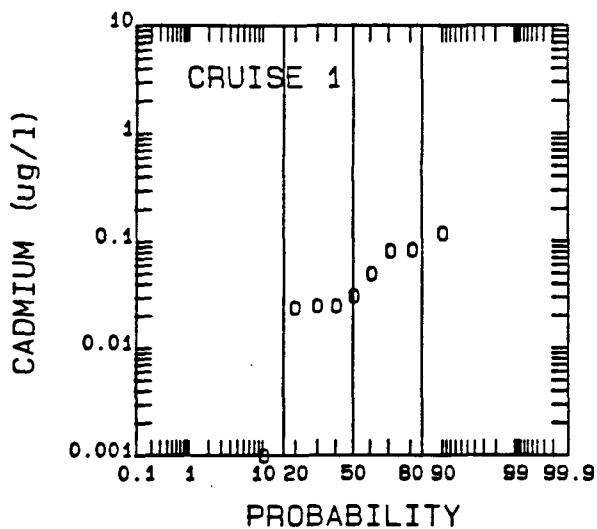
DISSOLVED CADMIUM CONC. - AREA 1



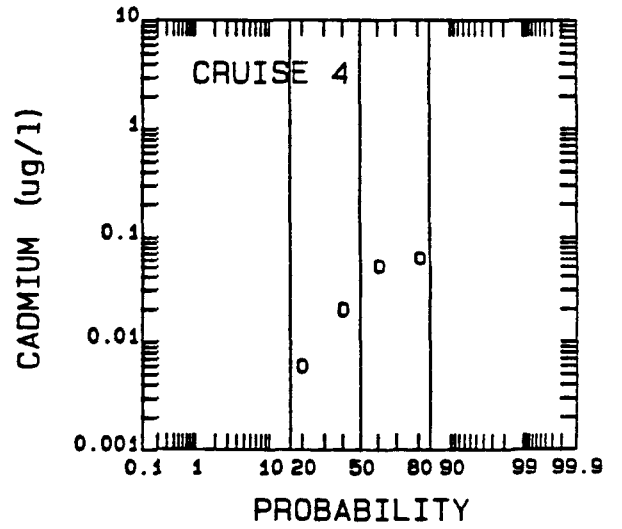
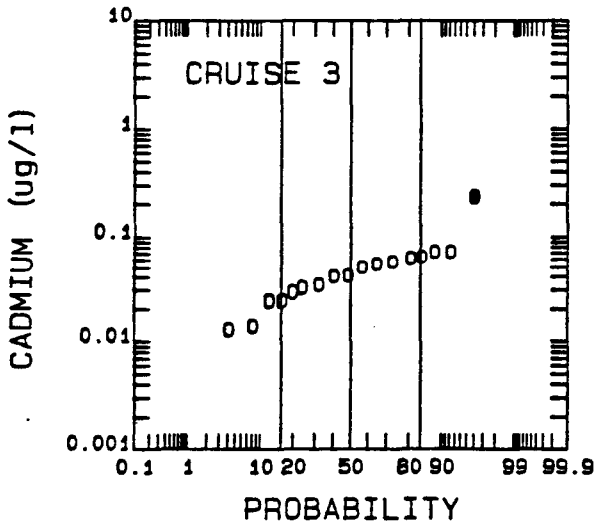
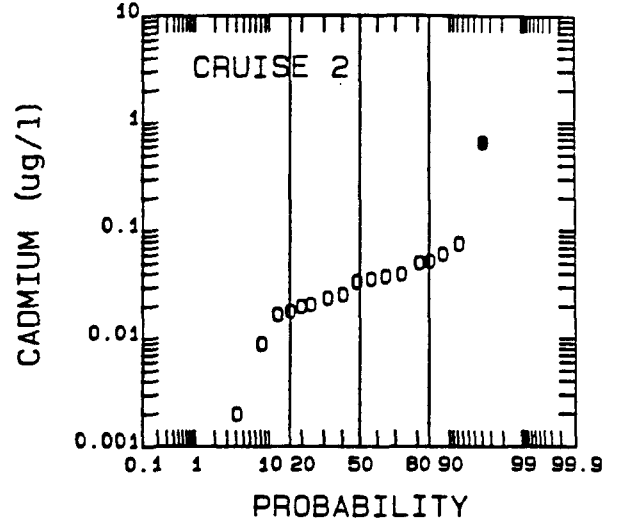
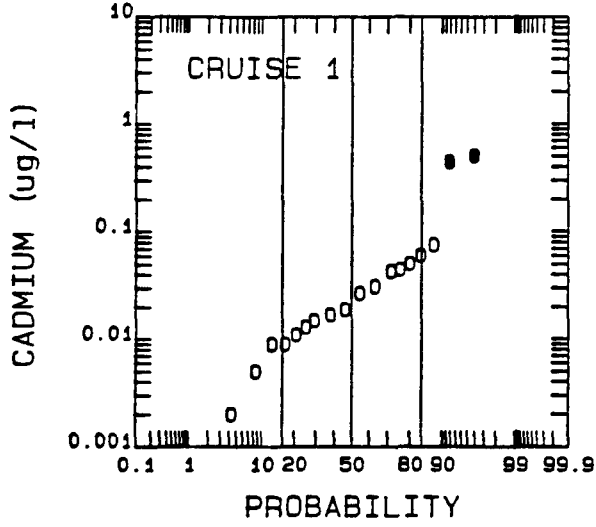
DISSOLVED CADMIUM CONC. - AREA 2



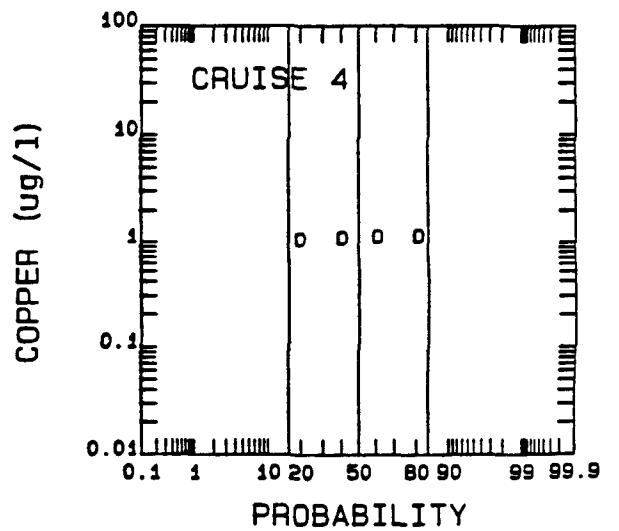
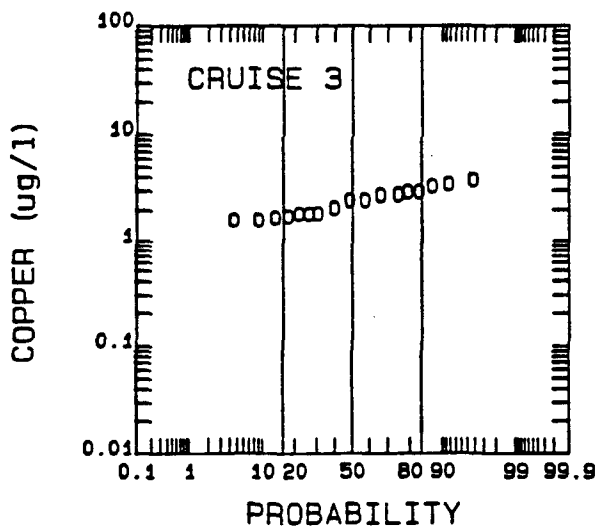
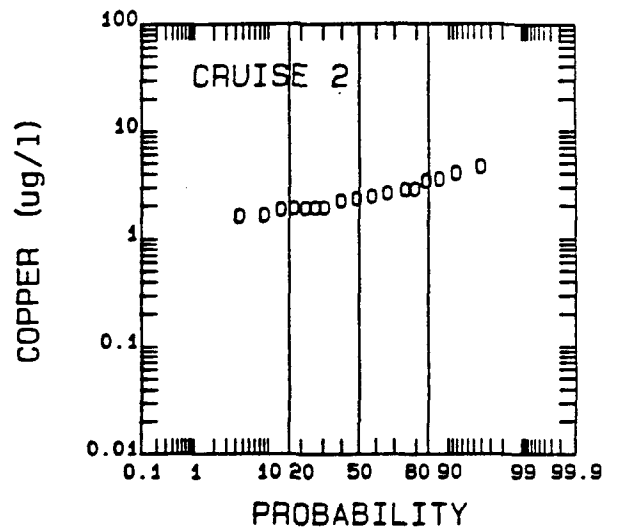
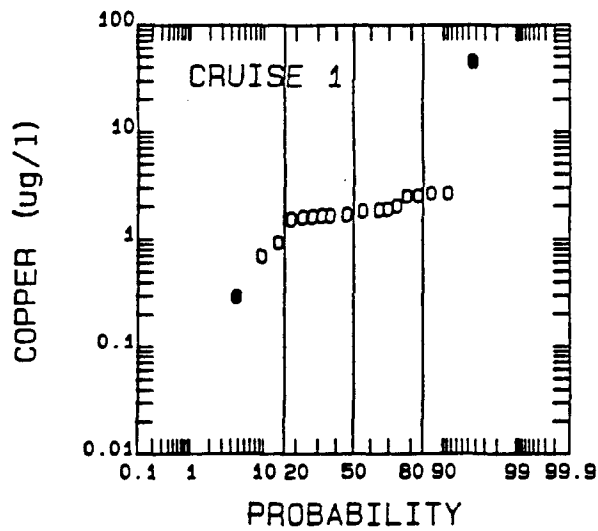
DISSOLVED CADMIUM CONC. - AREA 3



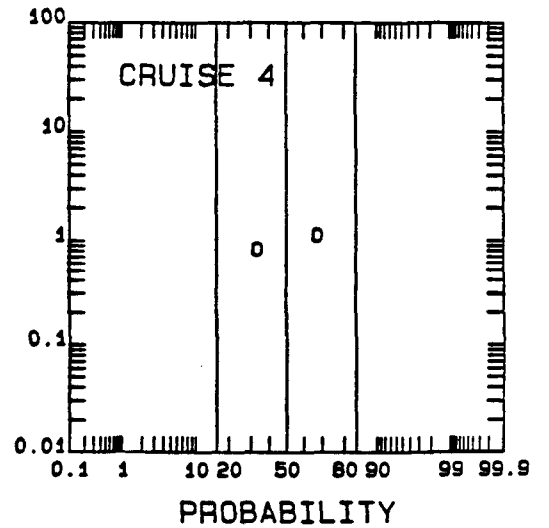
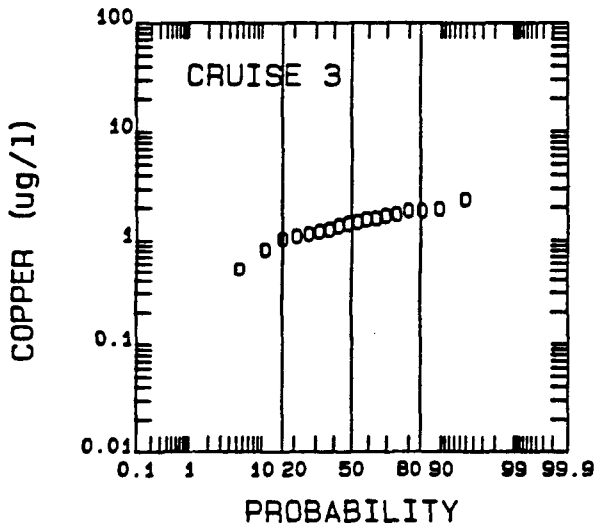
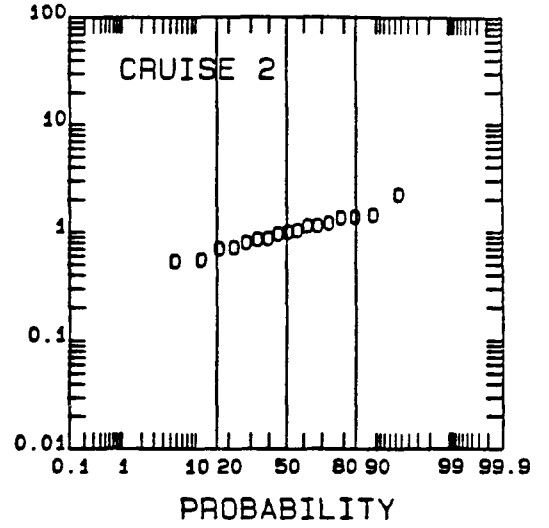
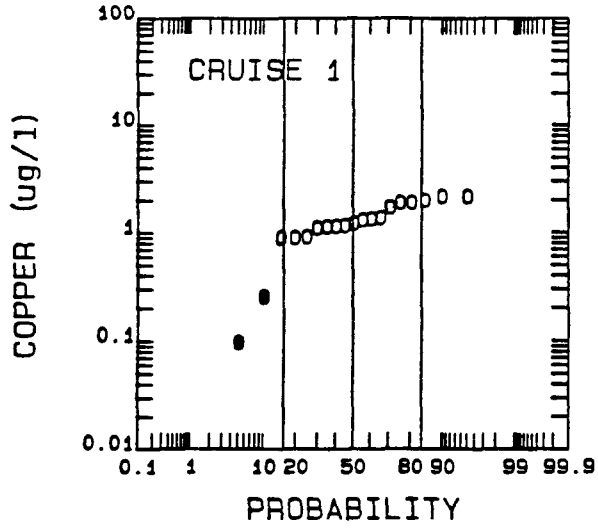
DISSOLVED CADMIUM CONC. - AREA 4



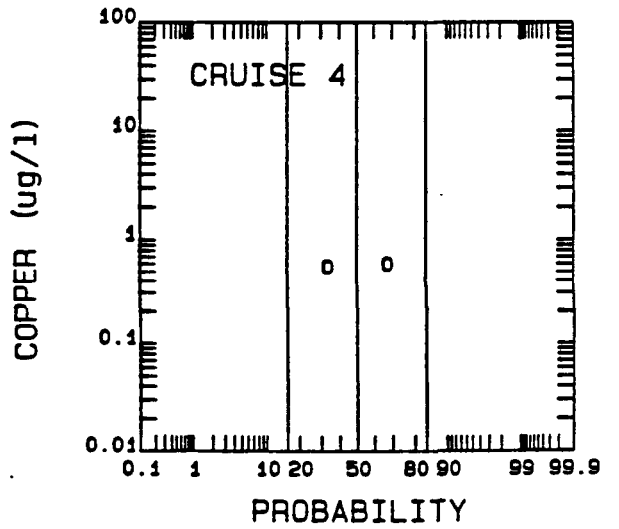
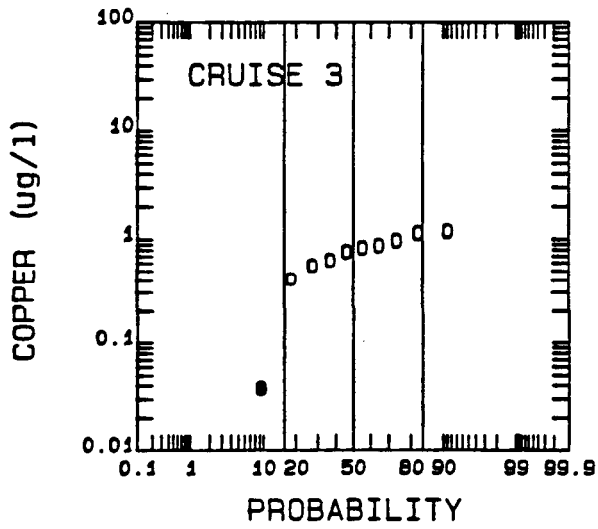
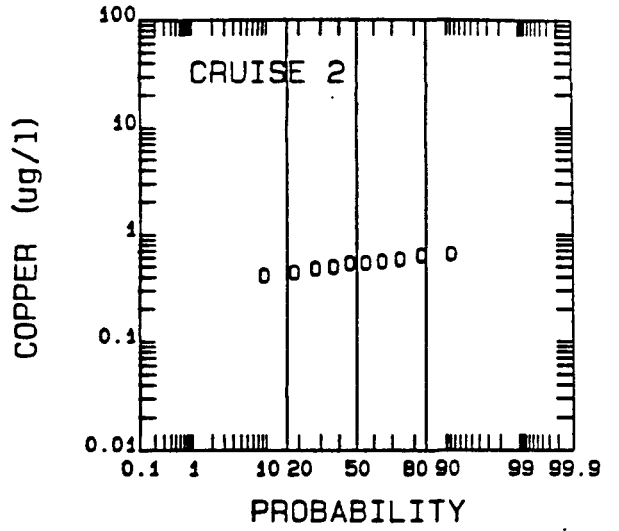
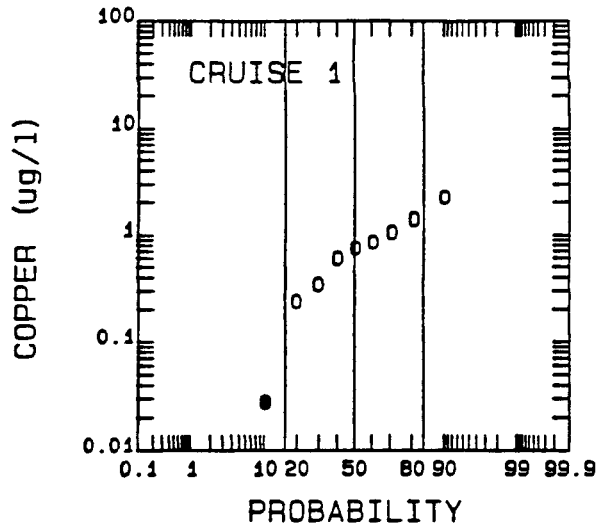
DISSOLVED COPPER CONC. - AREA 1



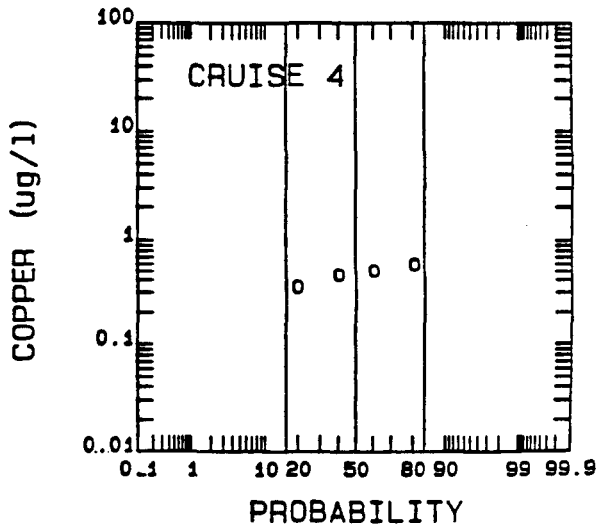
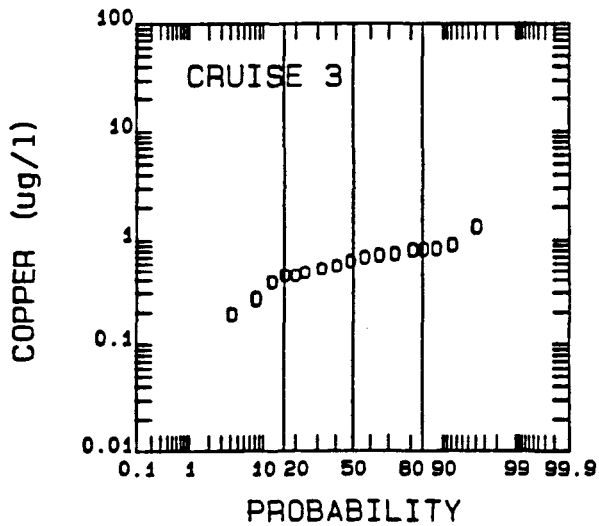
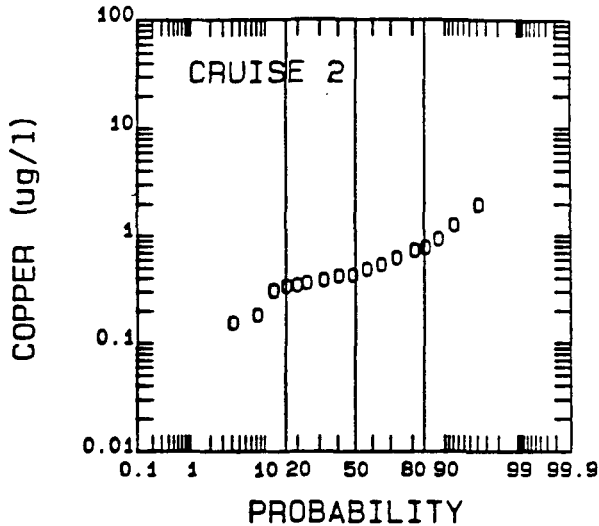
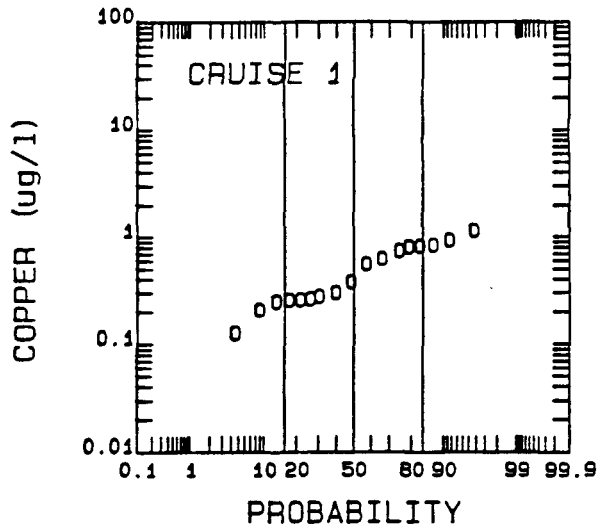
DISSOLVED COPPER CONC. - AREA 2



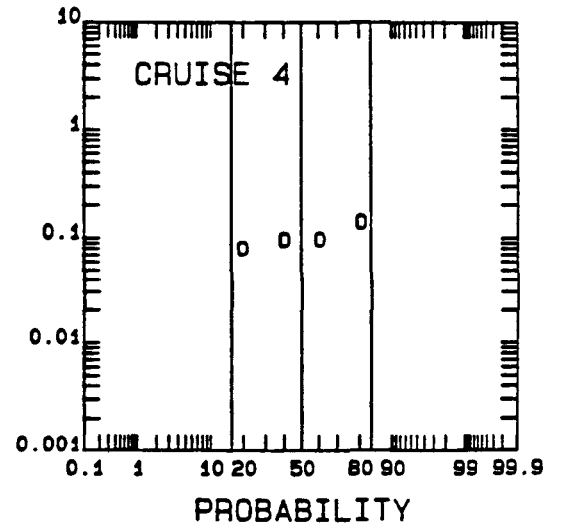
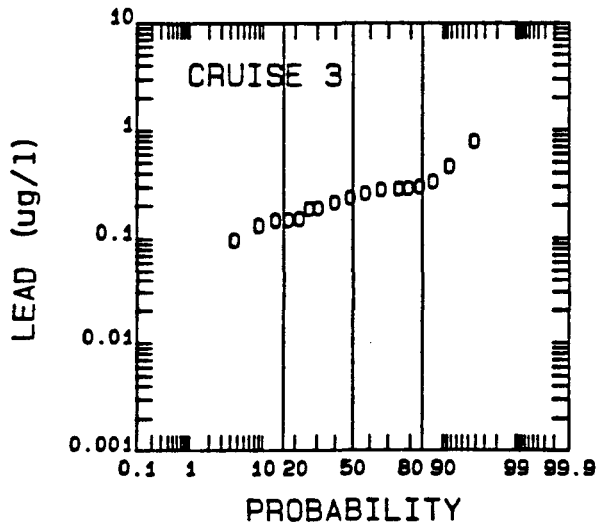
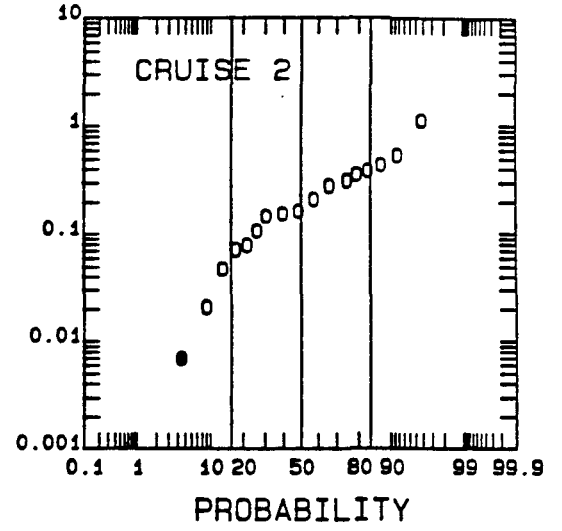
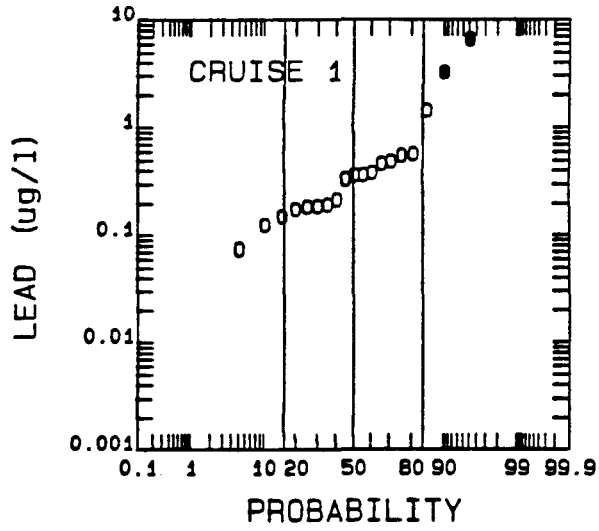
DISSOLVED COPPER CONC. - AREA 3



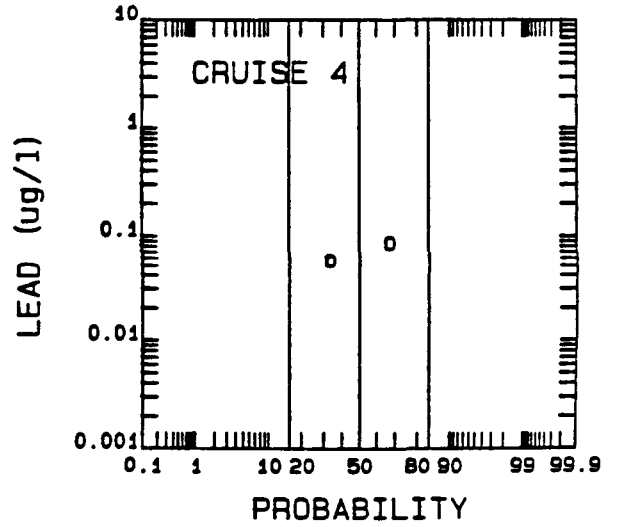
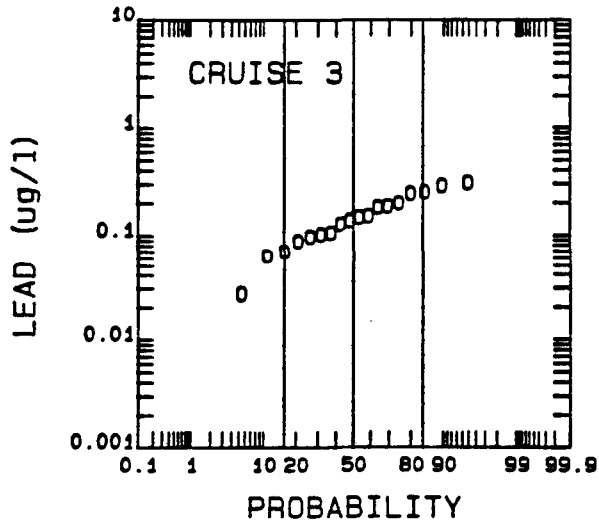
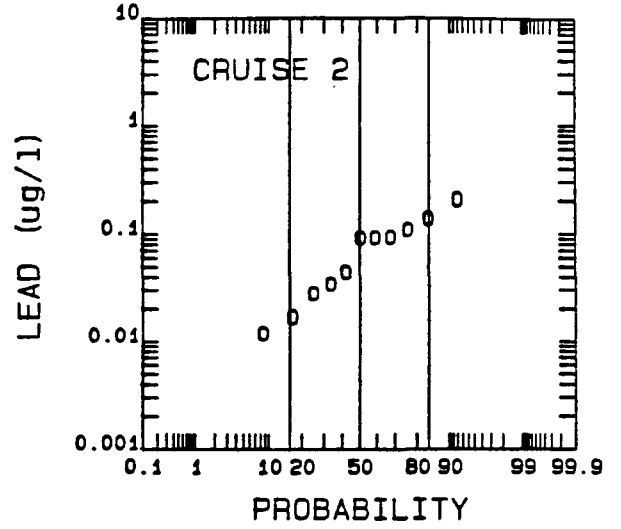
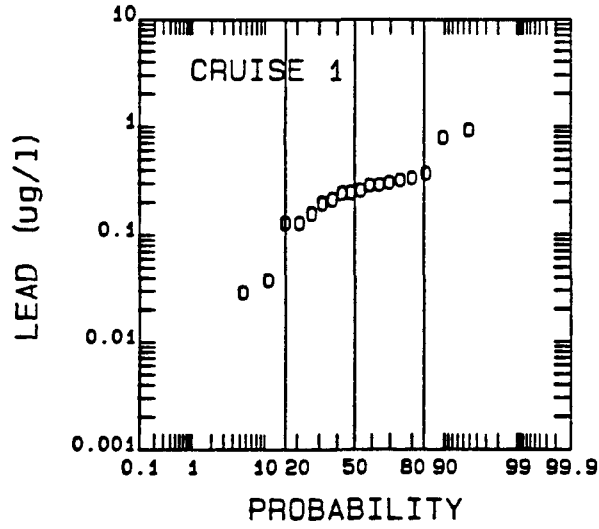
DISSOLVED COPPER CONC. - AREA 4



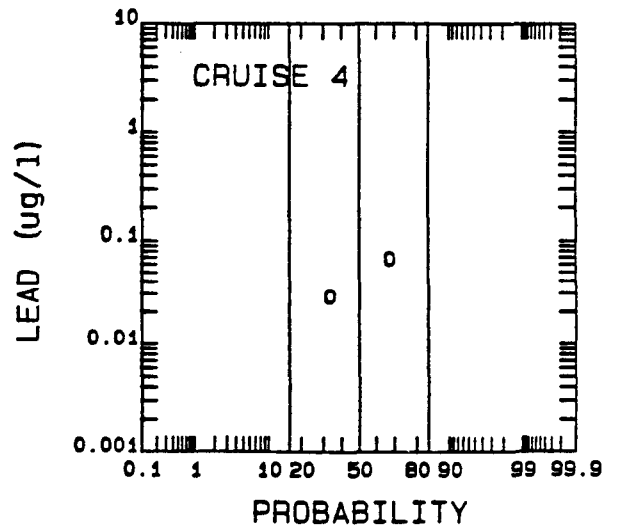
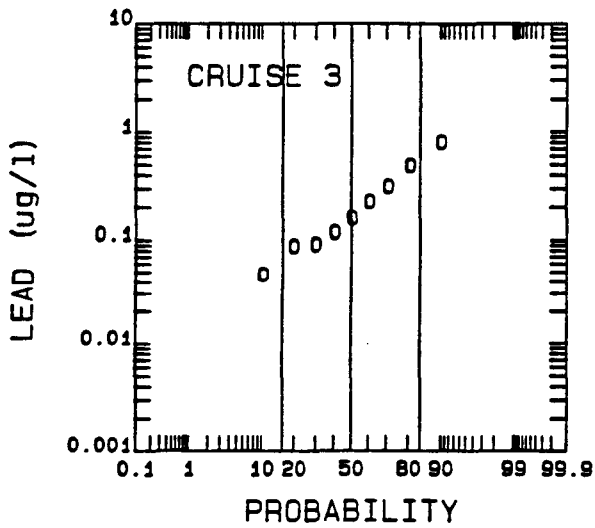
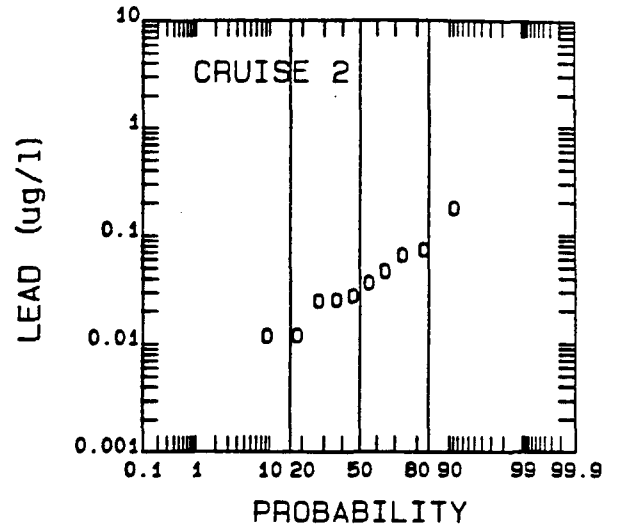
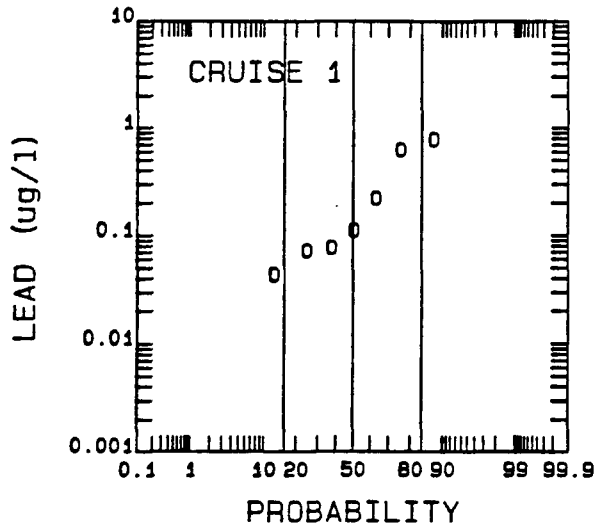
DISSOLVED LEAD CONC. - AREA 1



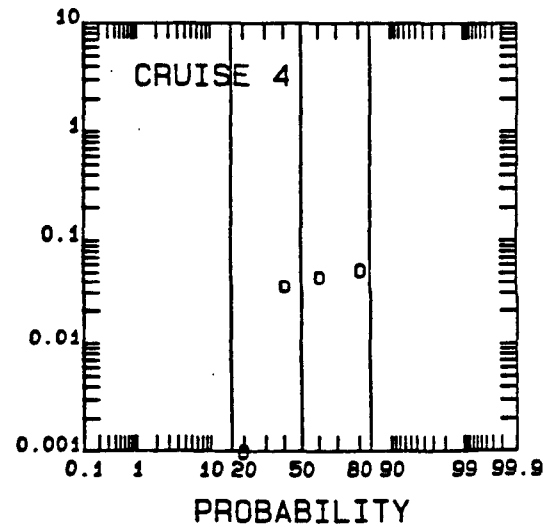
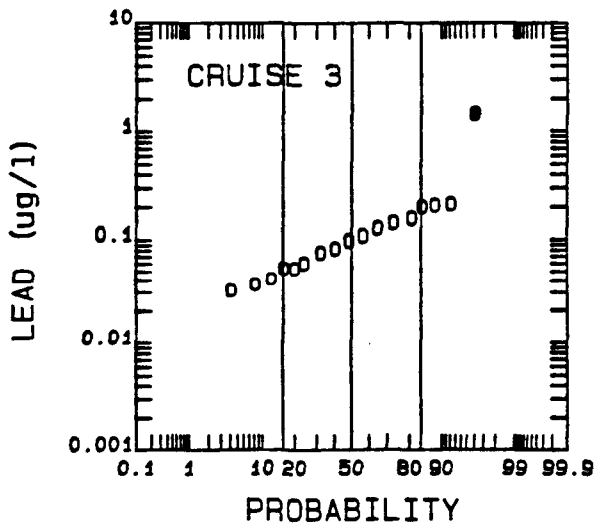
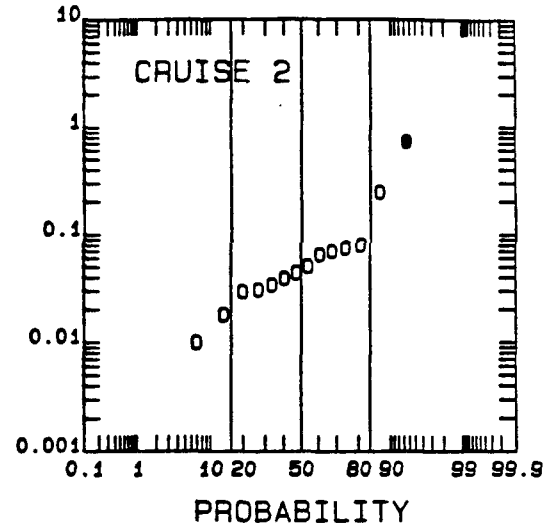
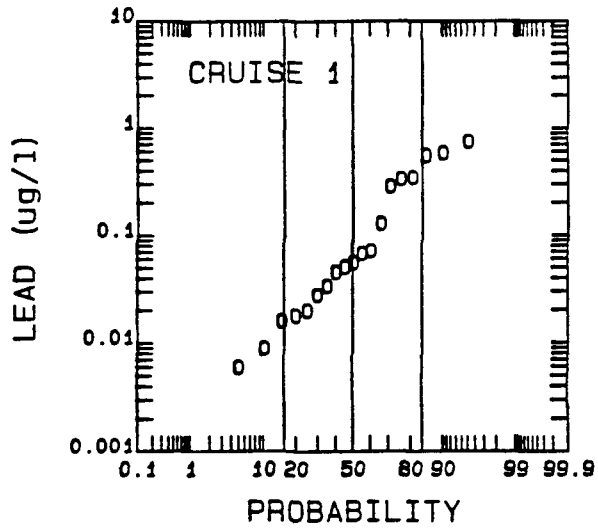
DISSOLVED LEAD CONC. - AREA 2



DISSOLVED LEAD CONC. - AREA 3



DISSOLVED LEAD CONC. - AREA 4

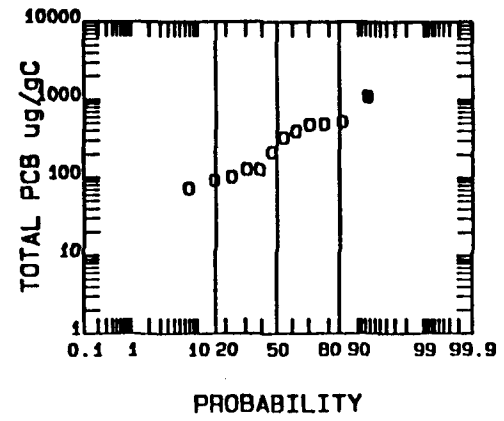
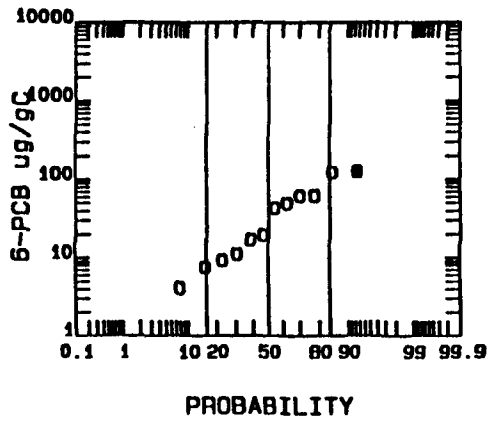
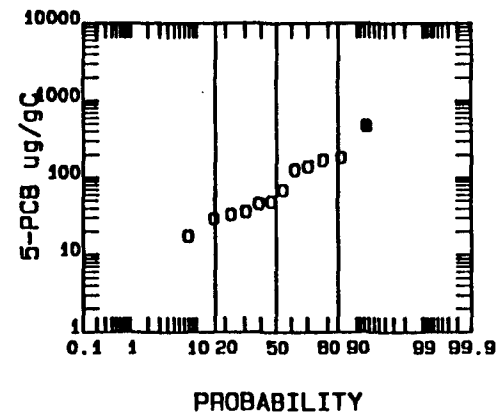
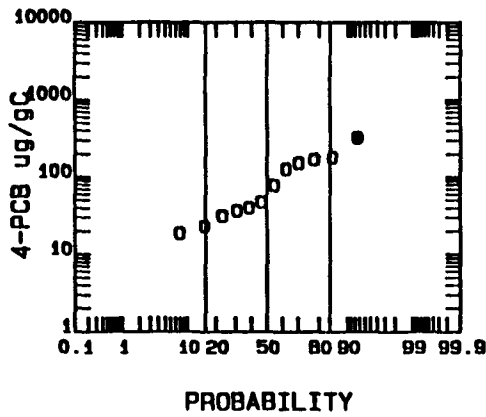
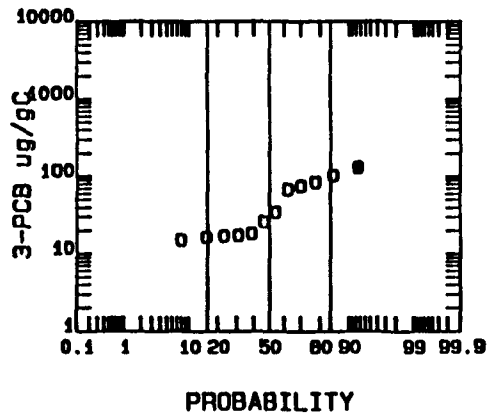


APPENDIX I

PROBABILITY PLOTS OF BULK SEDIMENT CONCENTRATIONS

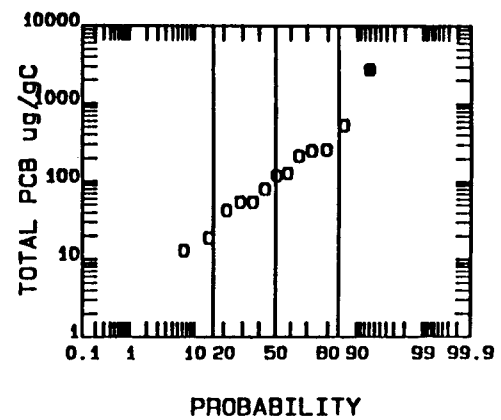
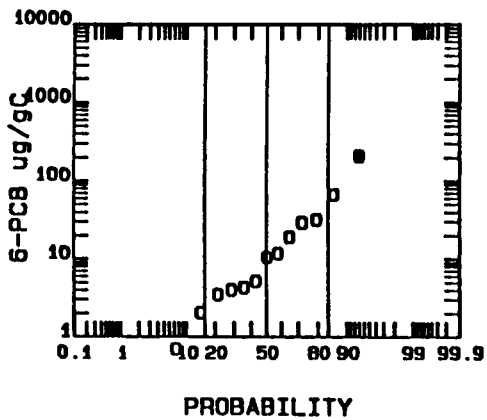
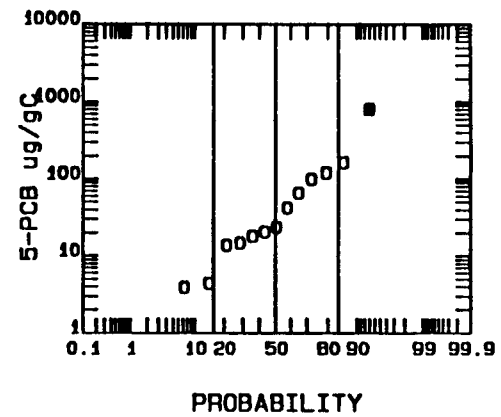
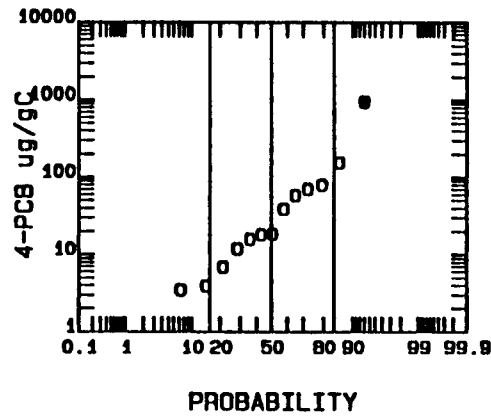
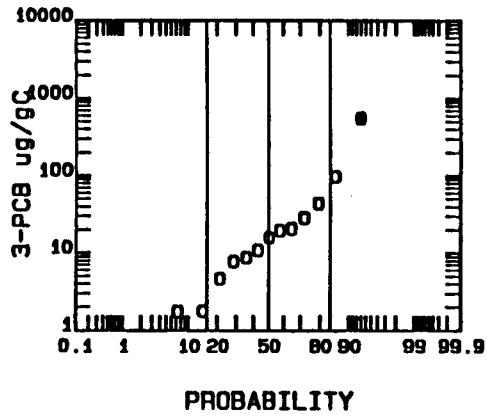
AREA 1 CARBON NORMALIZED SEDIMENT BULK PCB

I-1



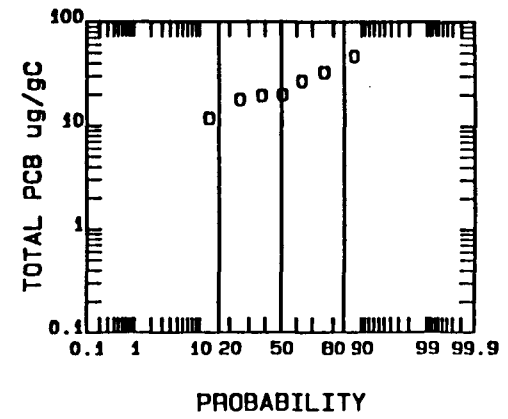
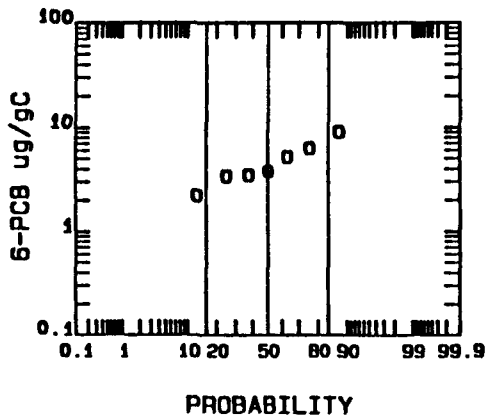
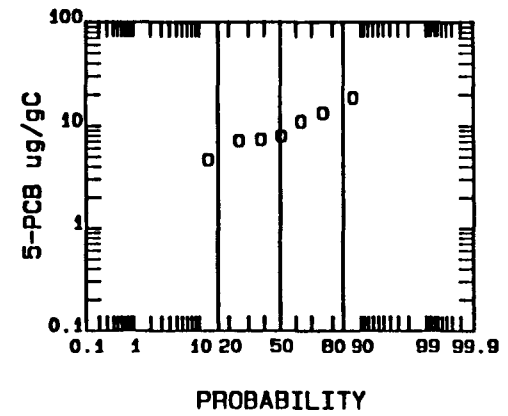
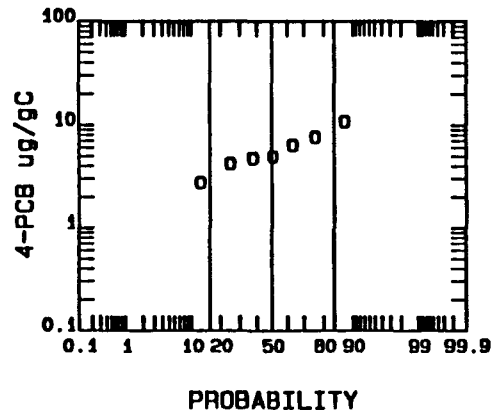
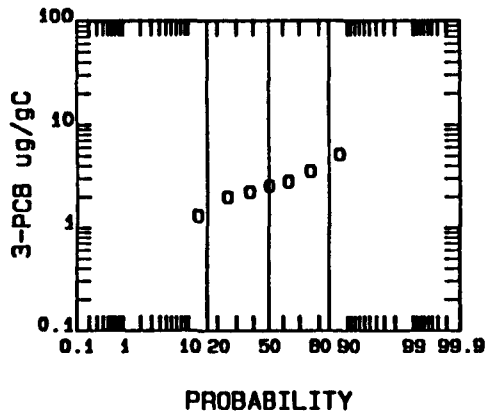
AREA 2 CARBON NORMALIZED SEDIMENT BULK PCB

I-2



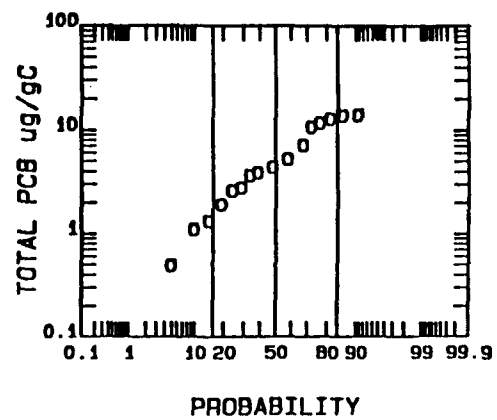
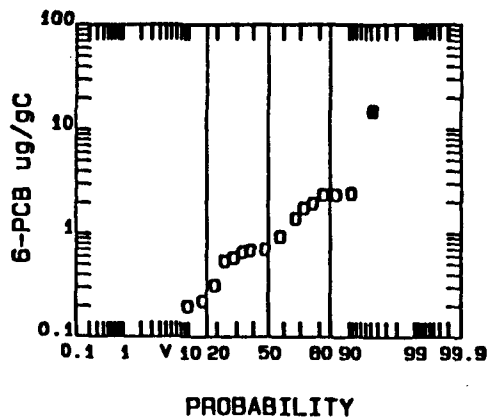
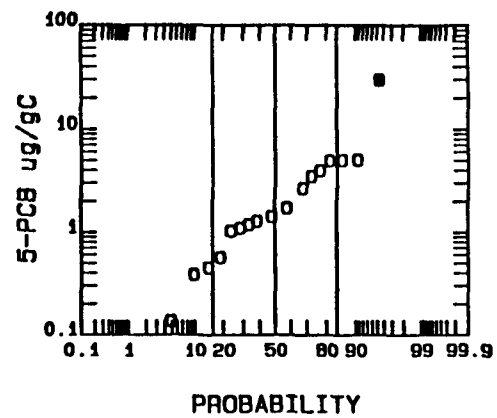
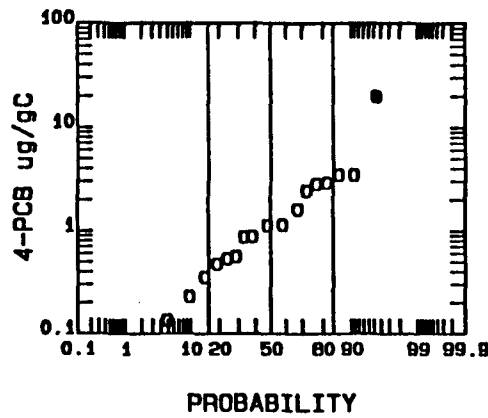
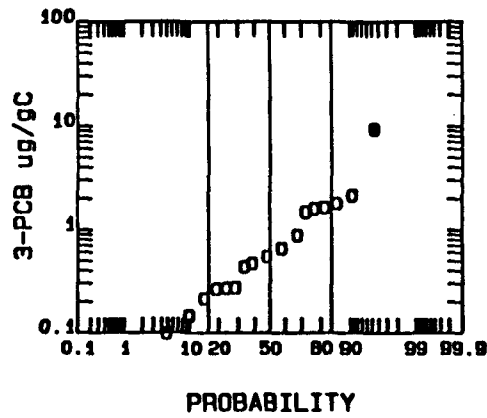
AREA 3 CARBON NORMALIZED SEDIMENT BULK PCB

ε-I

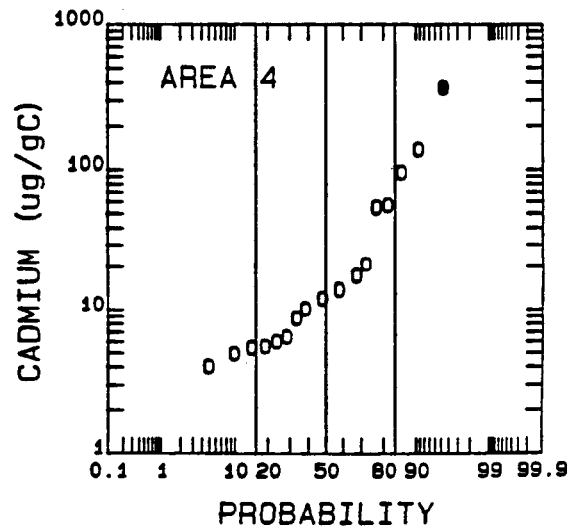
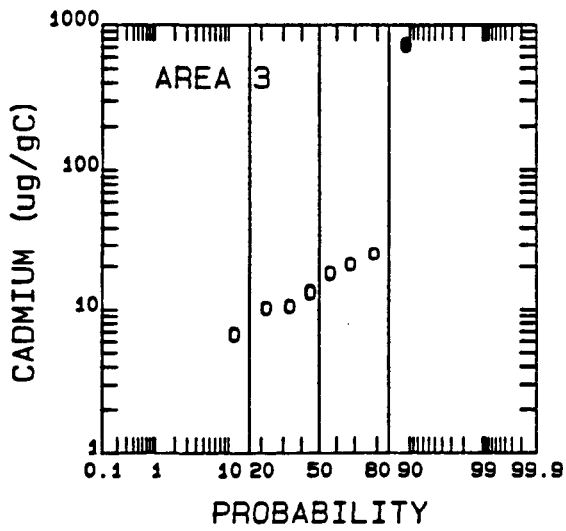
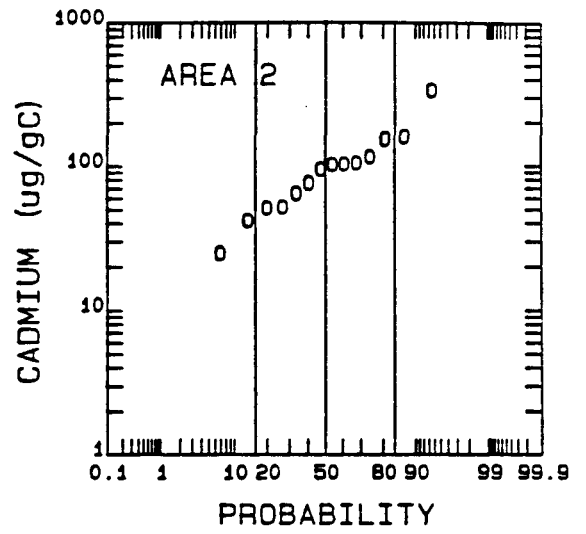
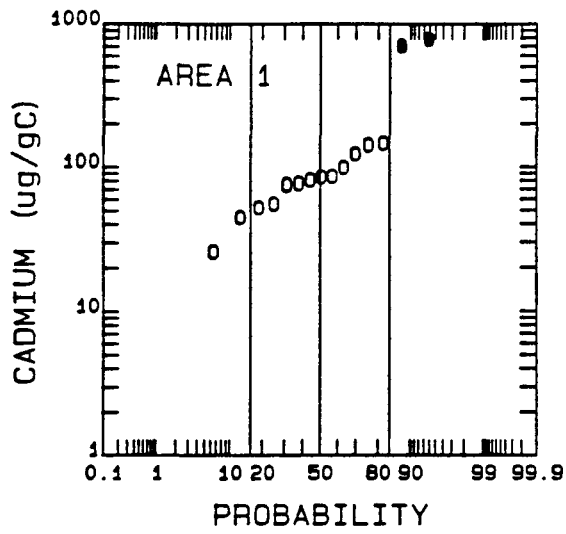


AREA 4 CARBON NORMALIZED SEDIMENT BULK PCB

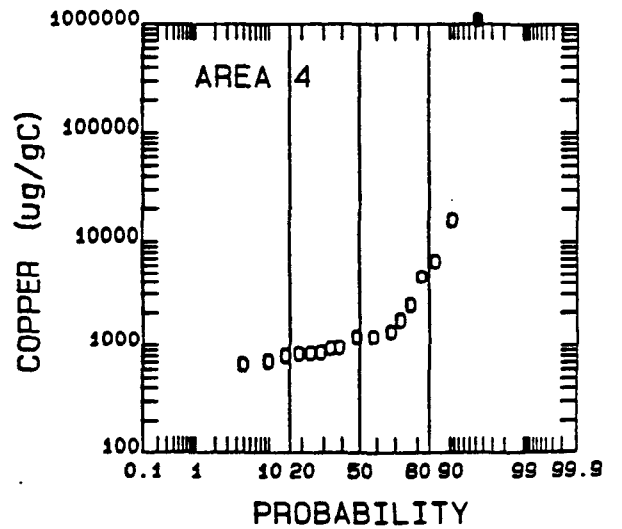
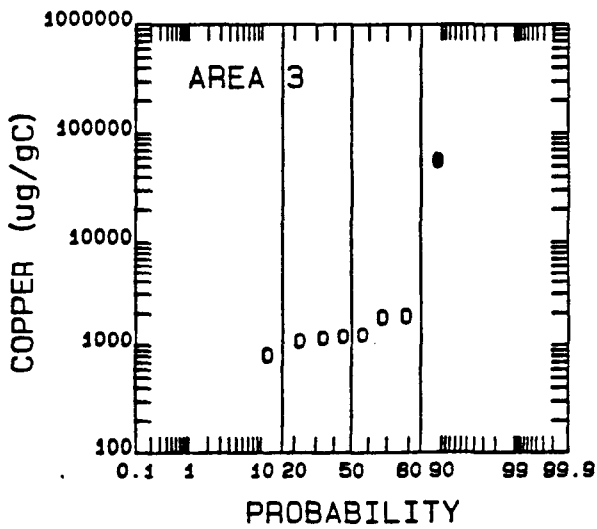
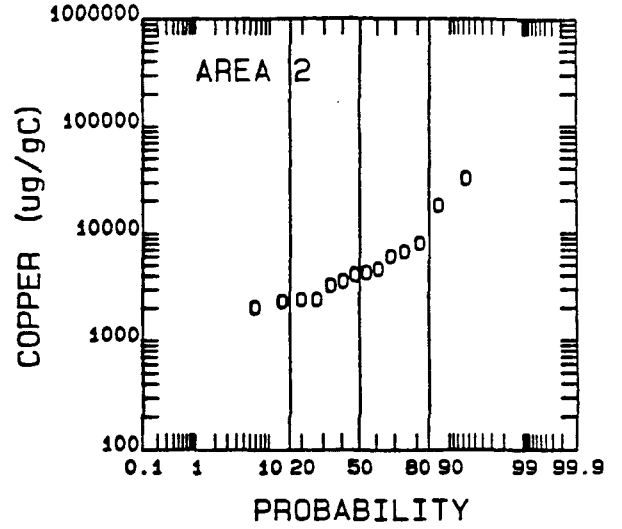
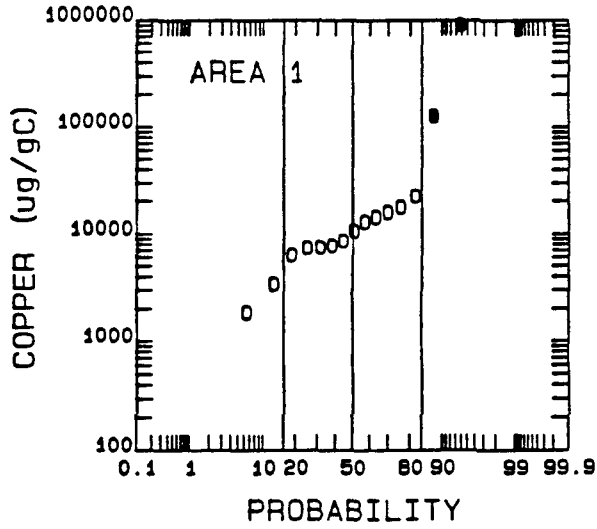
I-4



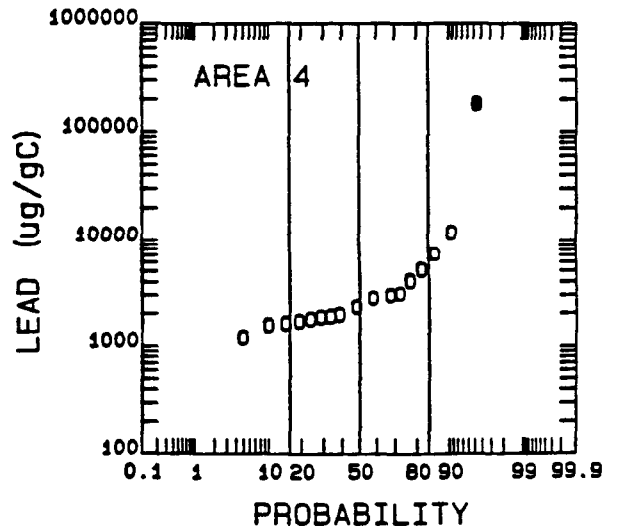
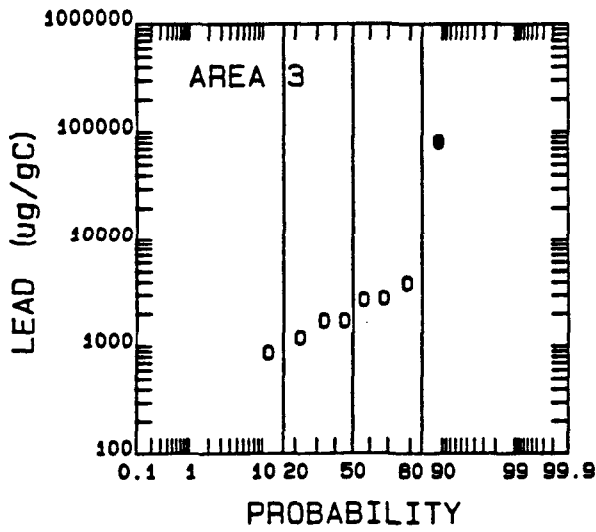
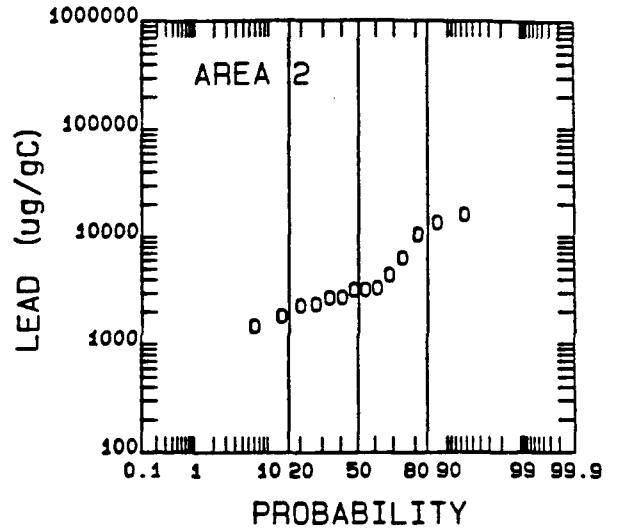
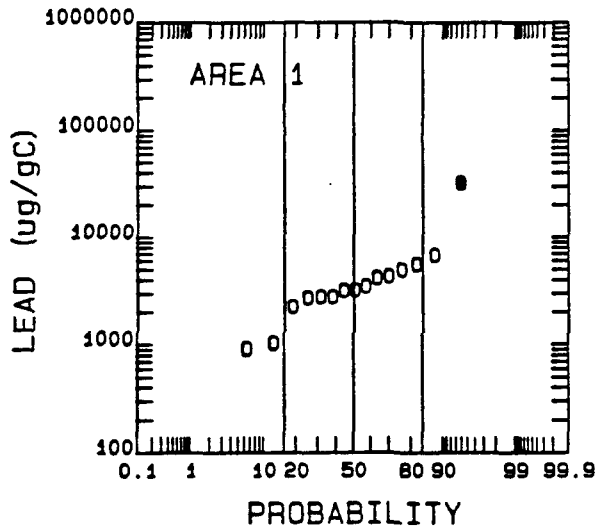
CARBON NORMALIZED BULK SEDIMENT - CADMIUM



CARBON NORMALIZED BULK SEDIMENT - COPPER



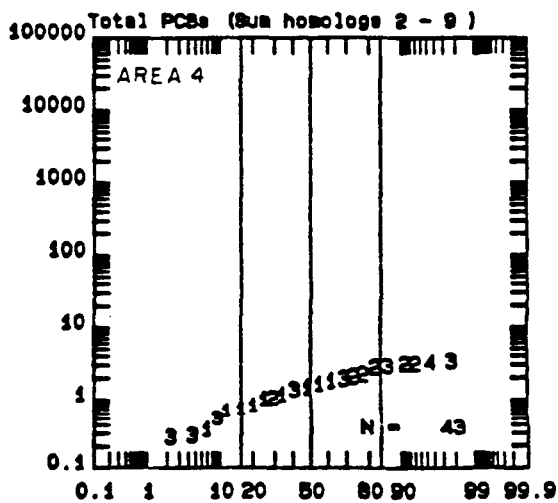
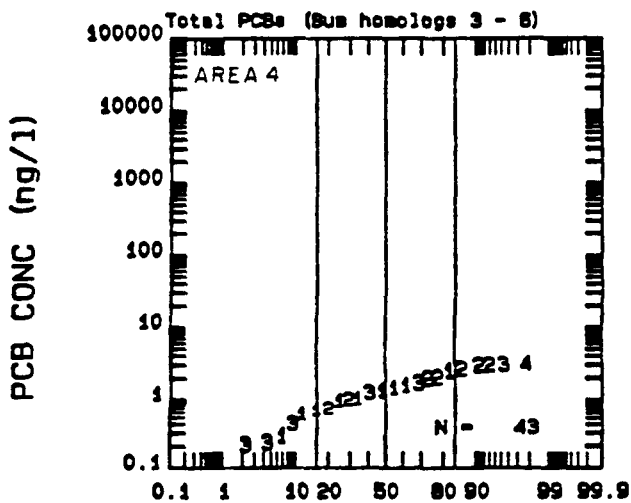
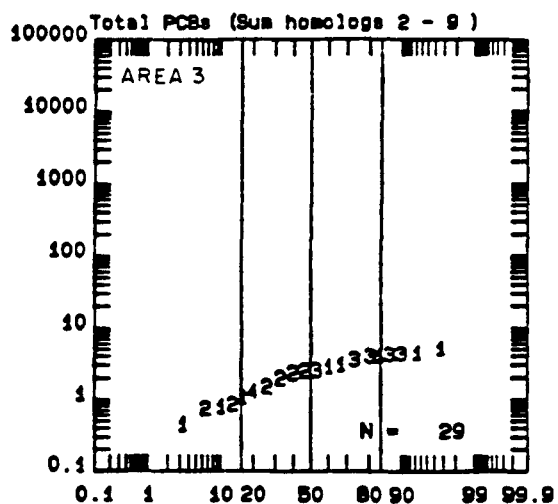
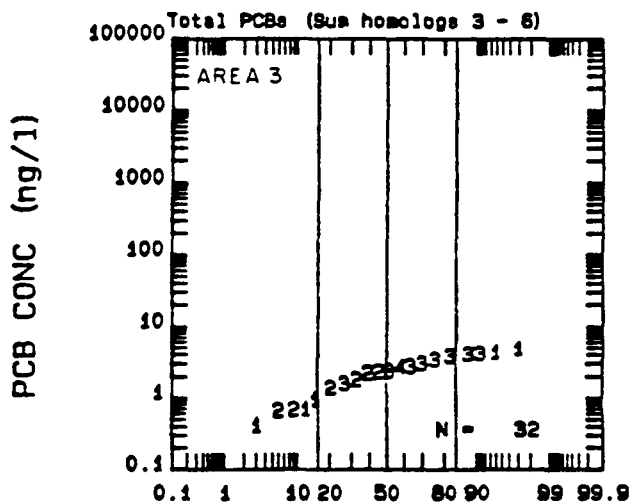
CARBON NORMALIZED BULK SEDIMENT - LEAD



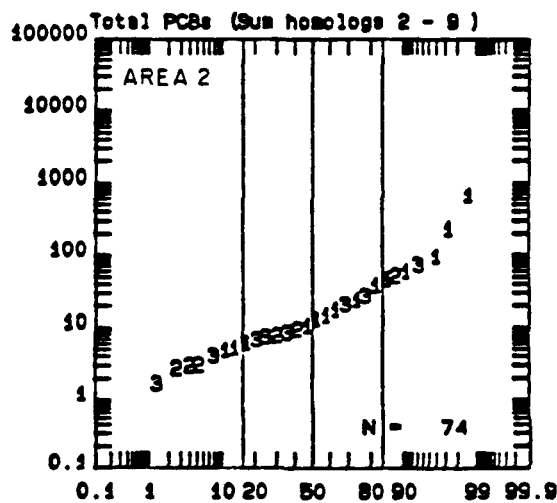
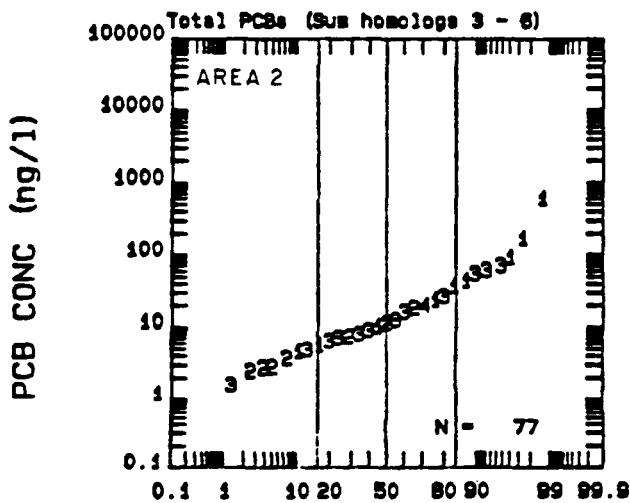
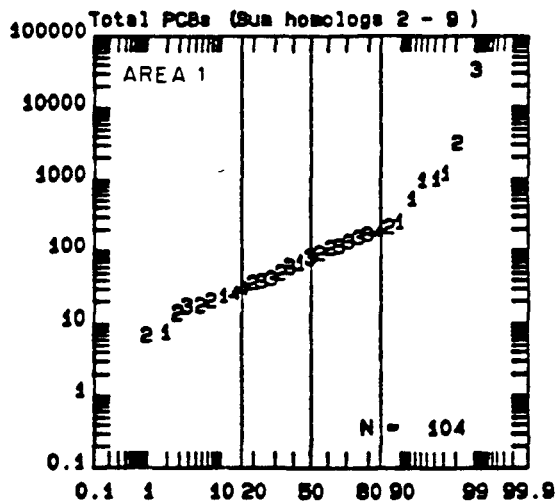
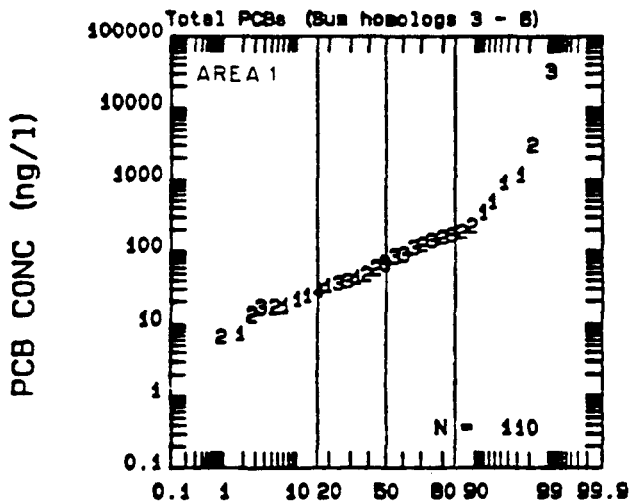
APPENDIX J

**DISSOLVED AND PARTICULATE WATER COLUMN DATA
AND SEDIMENT DATA**

DISSOLVED CONCENTRATION



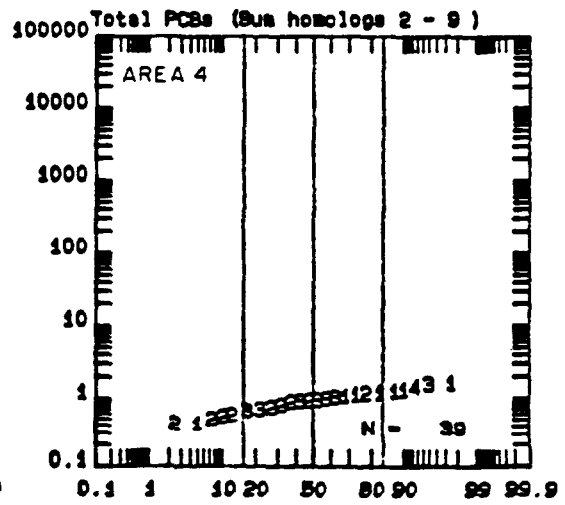
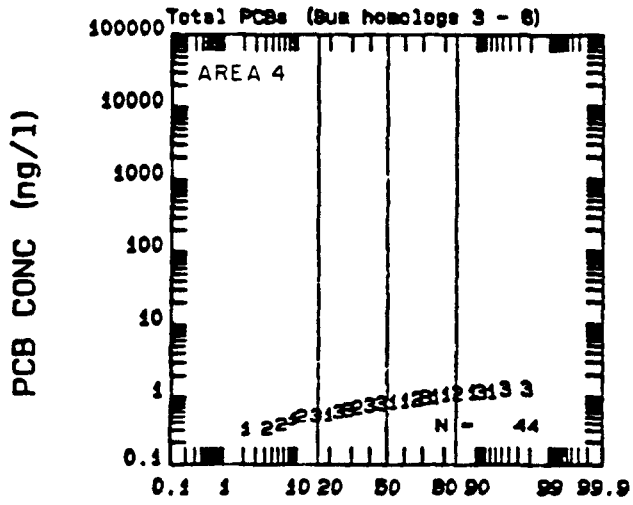
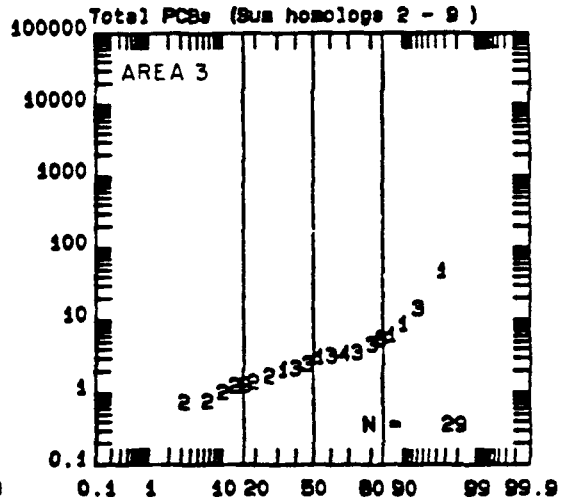
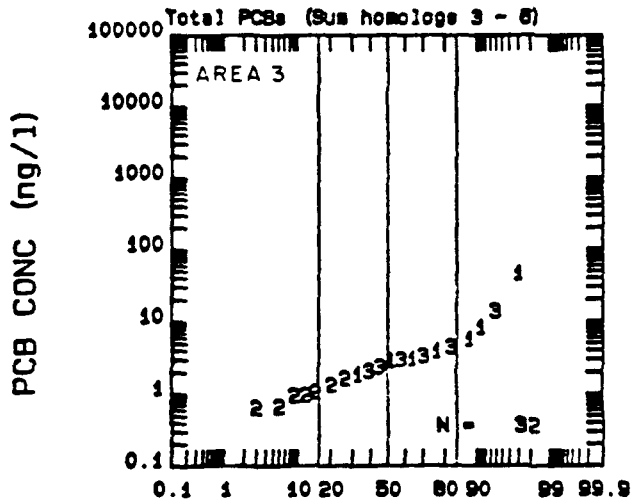
PARTICULATE CONCENTRATION



PROBABILITY

PROBABILITY

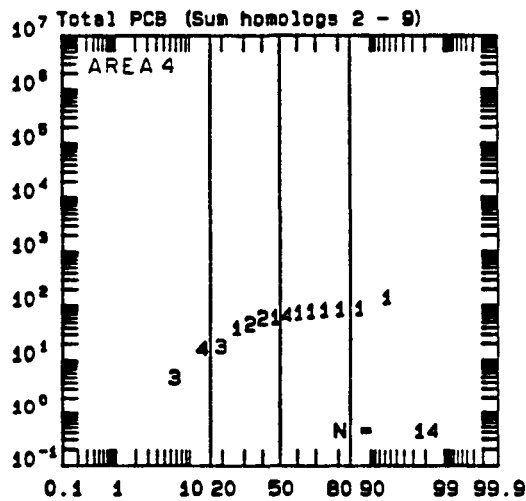
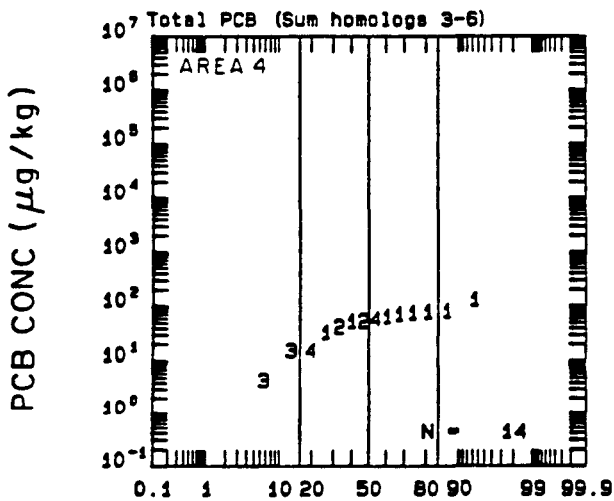
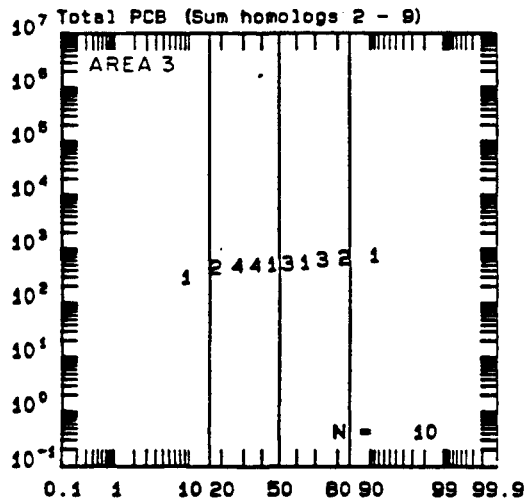
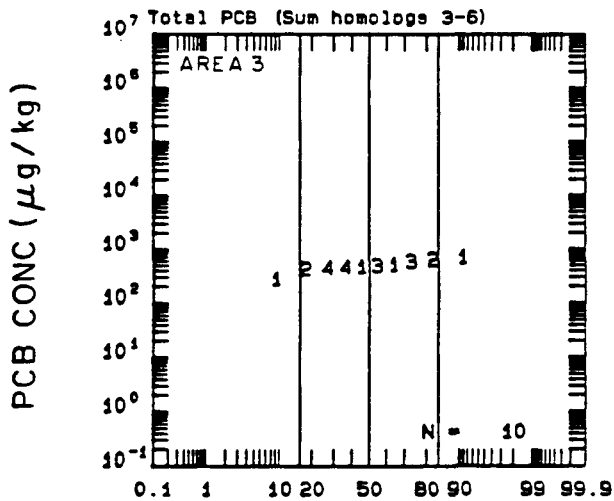
PARTICULATE CONCENTRATION



PROBABILITY

PROBABILITY

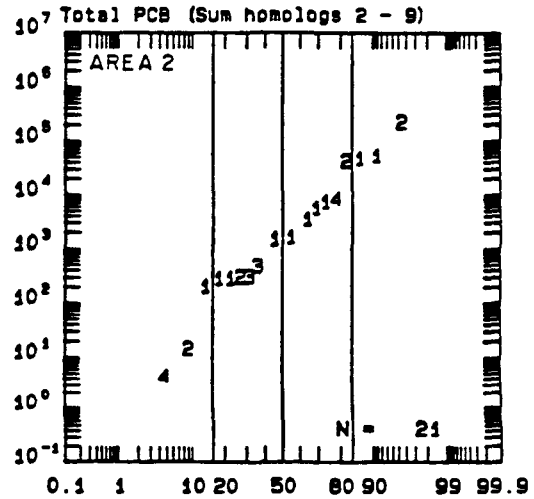
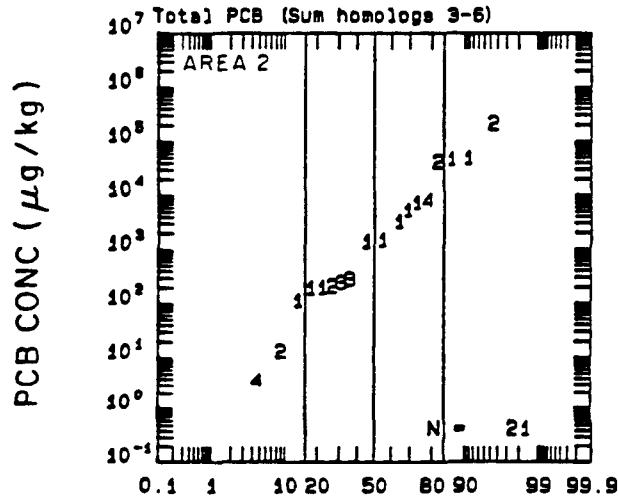
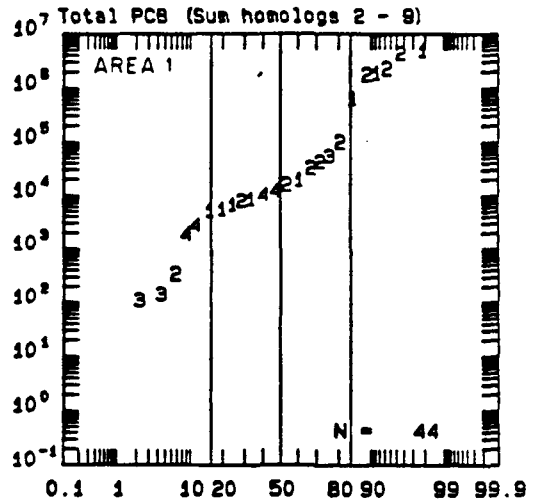
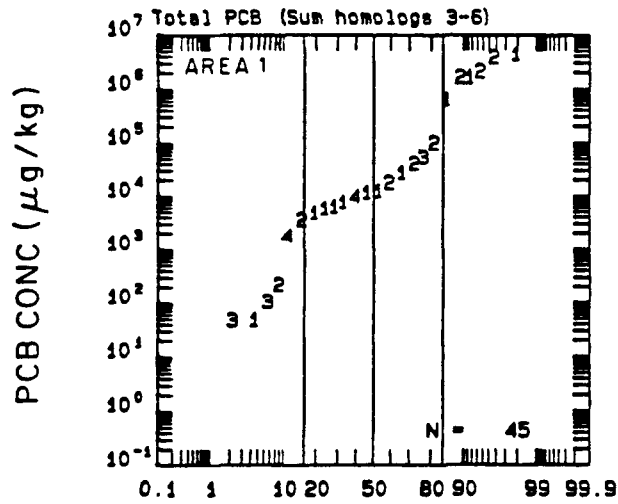
BULK SEDIMENT



PROBABILITY

PROBABILITY

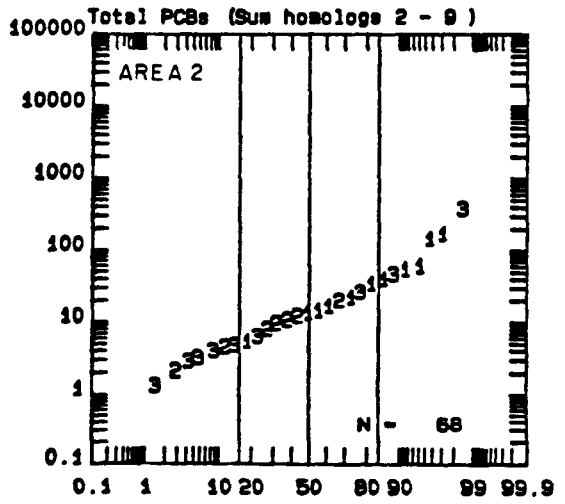
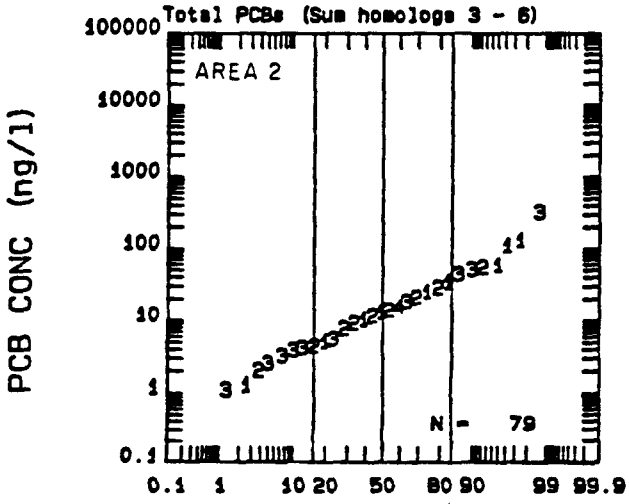
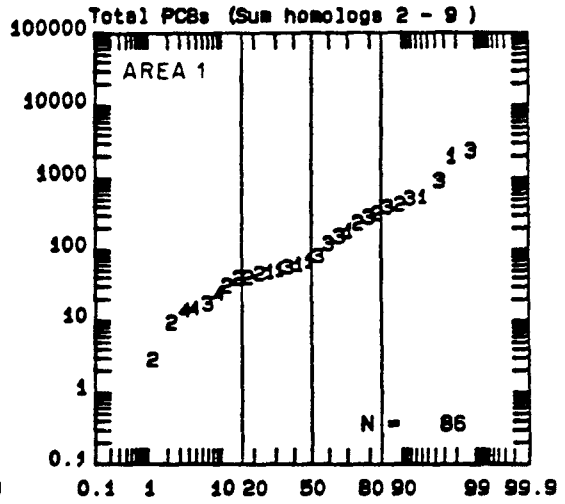
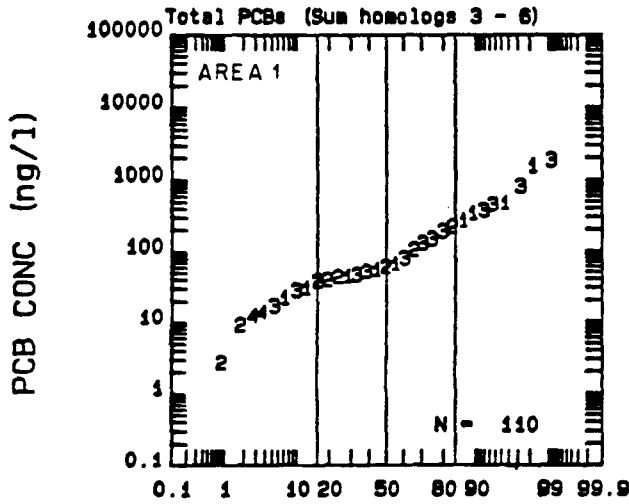
BULK SEDIMENT



PROBABILITY

PROBABILITY

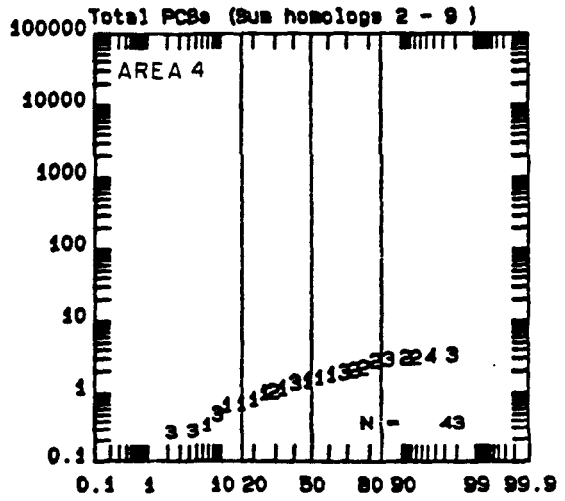
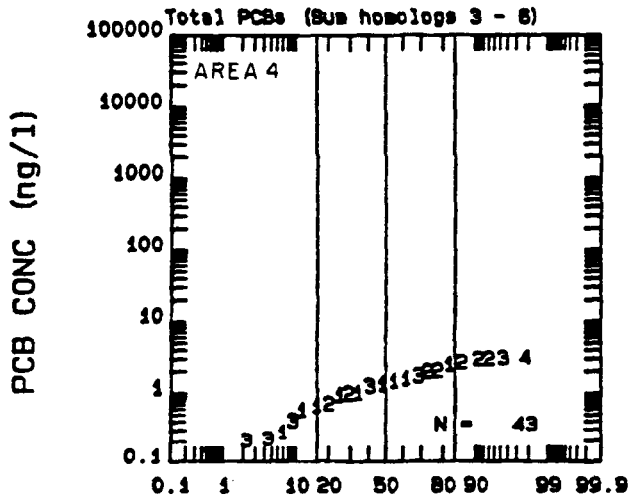
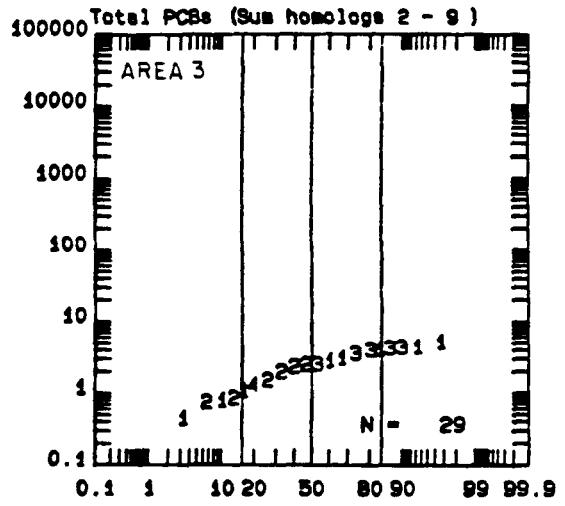
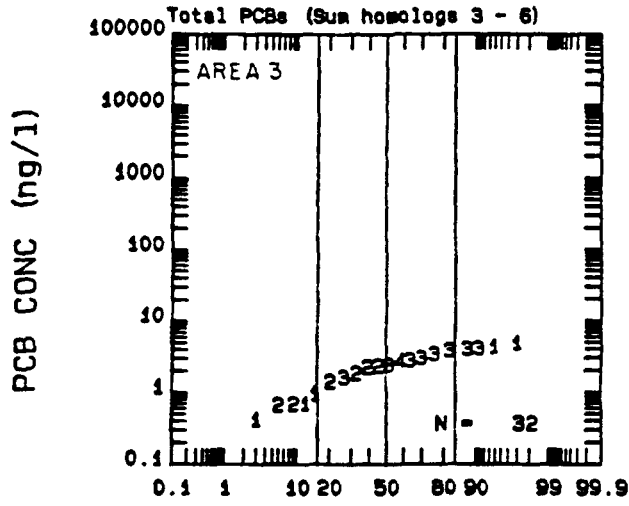
DISSOLVED CONCENTRATION



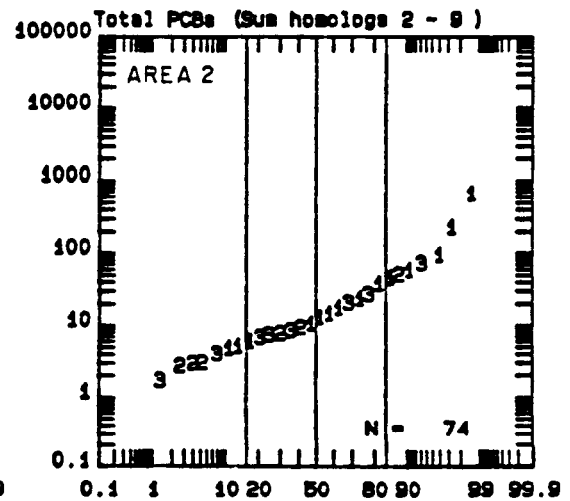
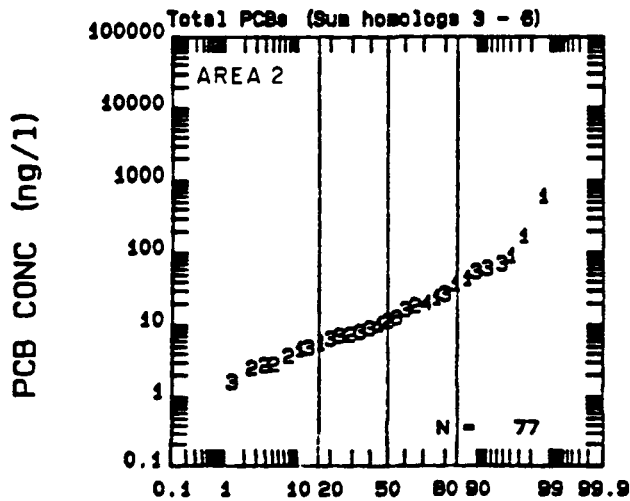
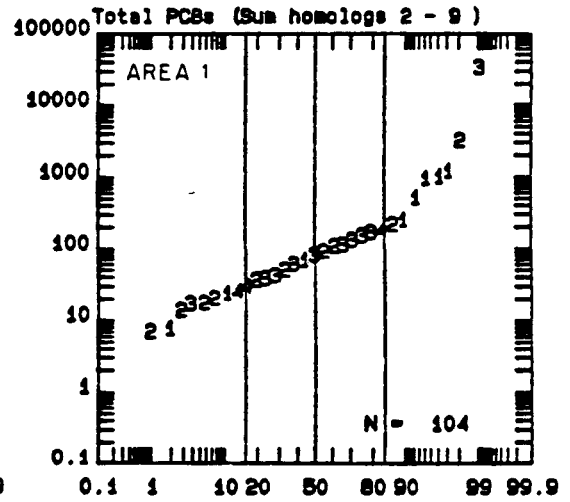
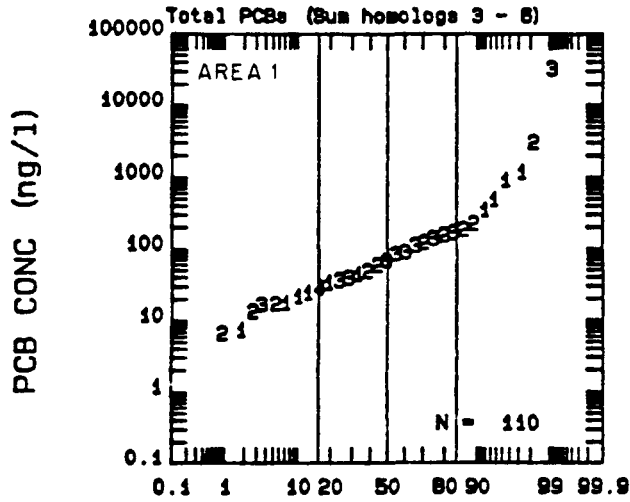
PROBABILITY

PROBABILITY

DISSOLVED CONCENTRATION



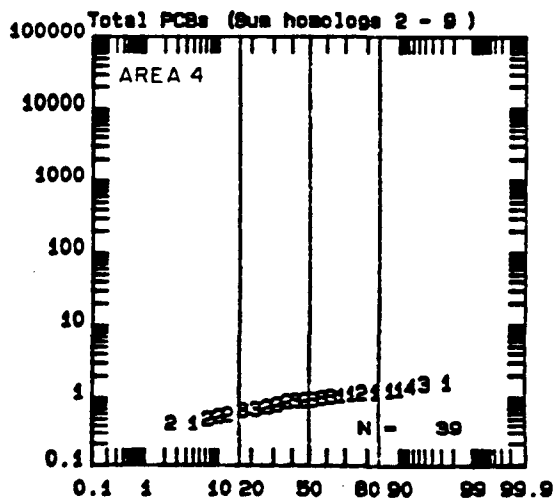
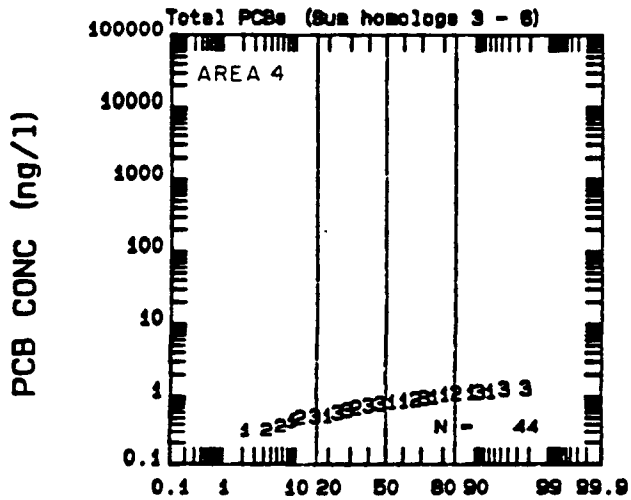
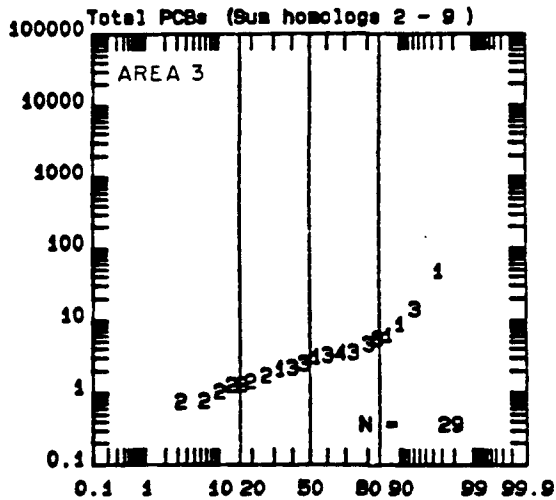
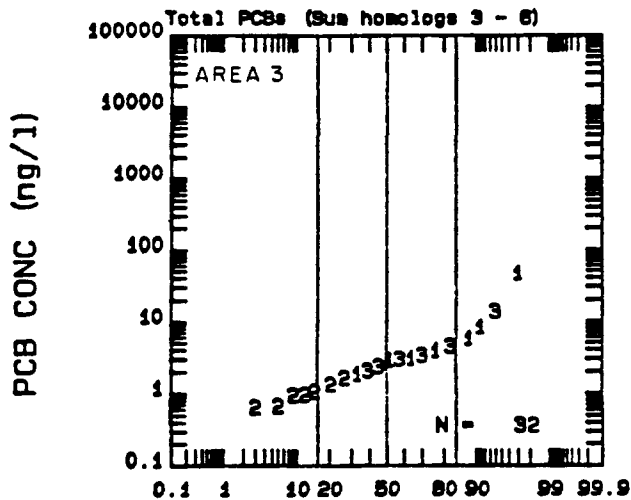
PARTICULATE CONCENTRATION



PROBABILITY

PROBABILITY

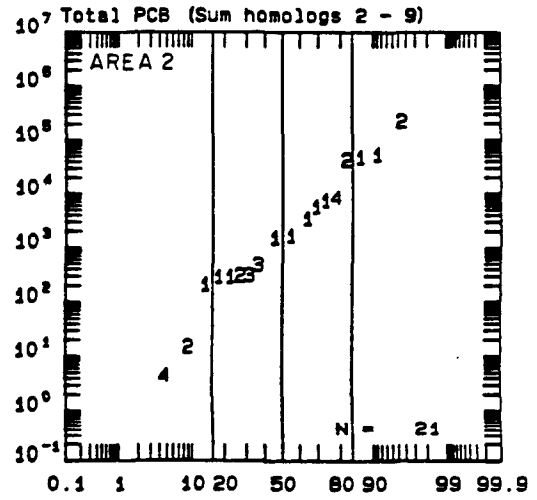
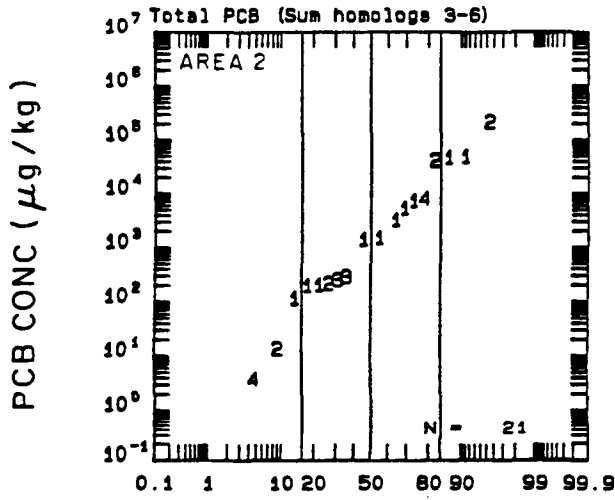
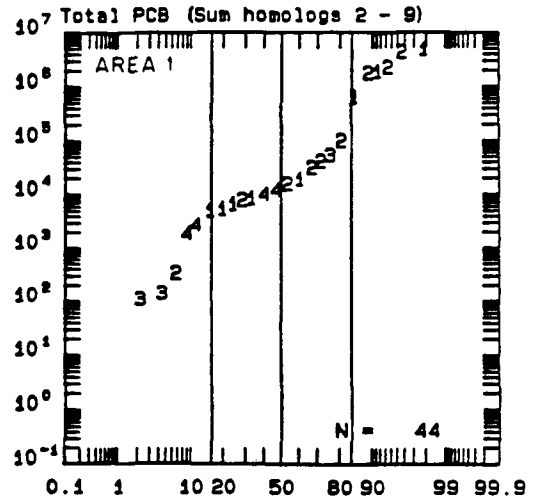
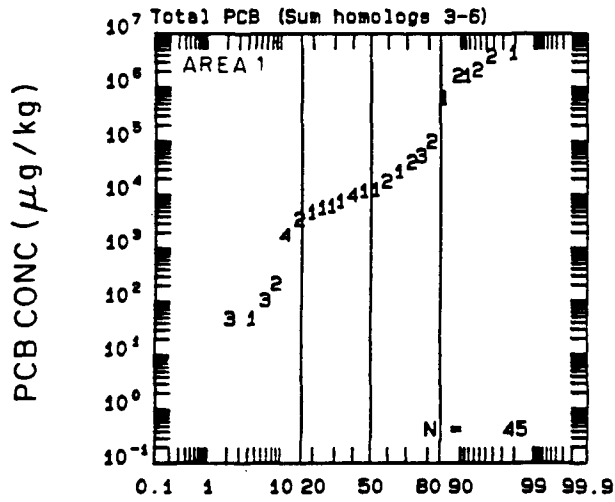
PARTICULATE CONCENTRATION



PROBABILITY

PROBABILITY

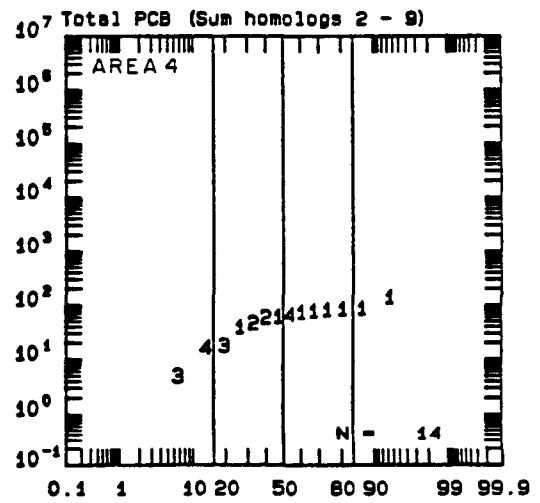
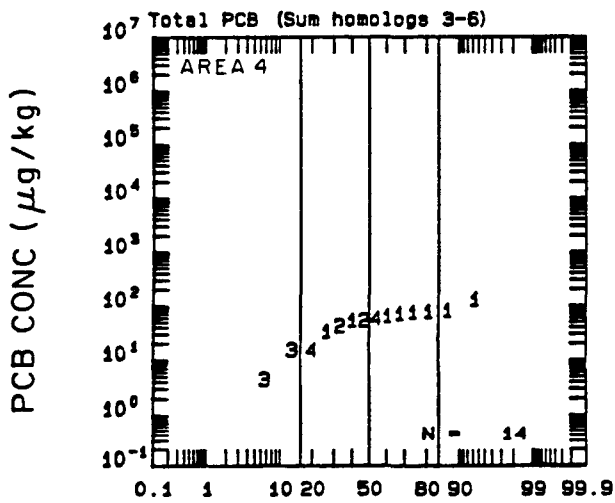
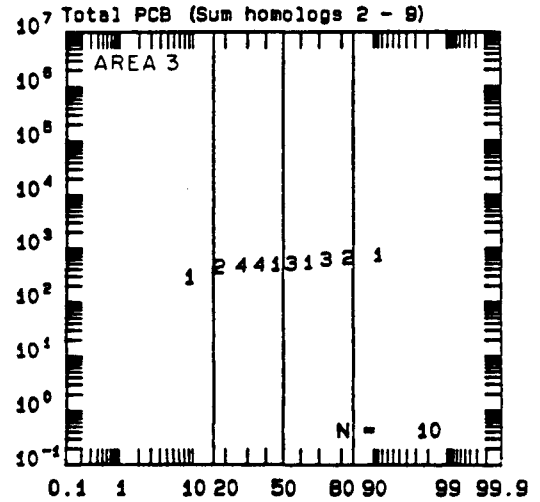
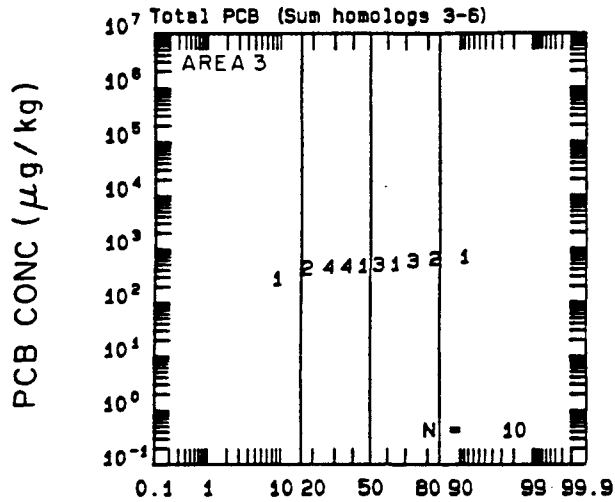
BULK SEDIMENT



PROBABILITY

PROBABILITY

BULK SEDIMENT



PROBABILITY

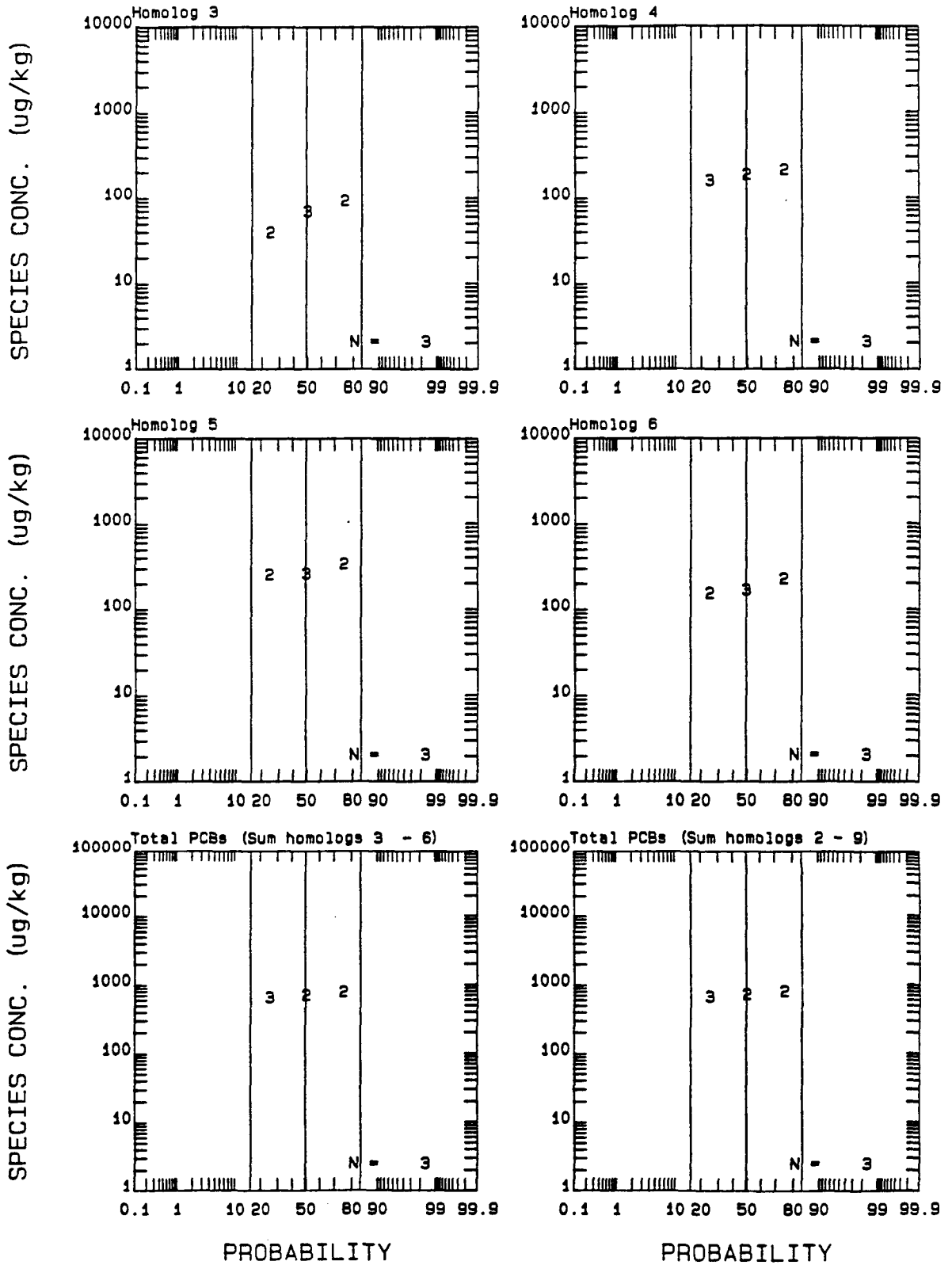
PROBABILITY

APPENDIX K
BIOTA PROBABILITY DISTRIBUTIONS

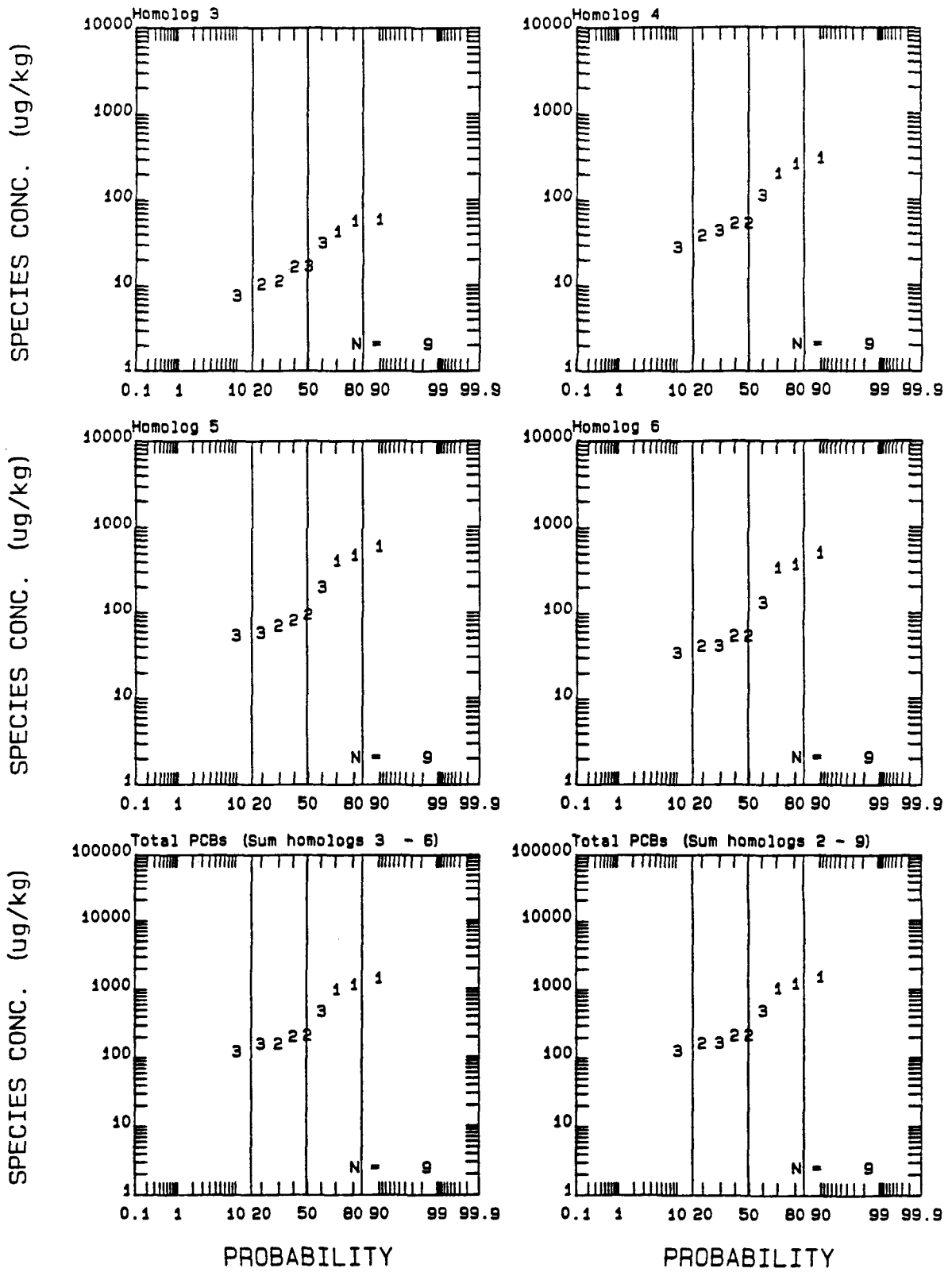
This appendix presents the probability distributions for each species by size (where applicable) and area. Plots are presented for homologs 3, 4, 5, 6, total PCB (the sum of homologs 2 through 9 and 3 through 6), cadmium, copper and lead concentrations in lobster, flounder, mussel, clam, green crab, spider crab and polychaetes. The data from all three cruises are plotted together with the plotting symbol being the cruise number. If no plot is presented for a species in an area, no data were reported for that area.

BIOTA PCB PROBABILITY DISTRIBUTIONS

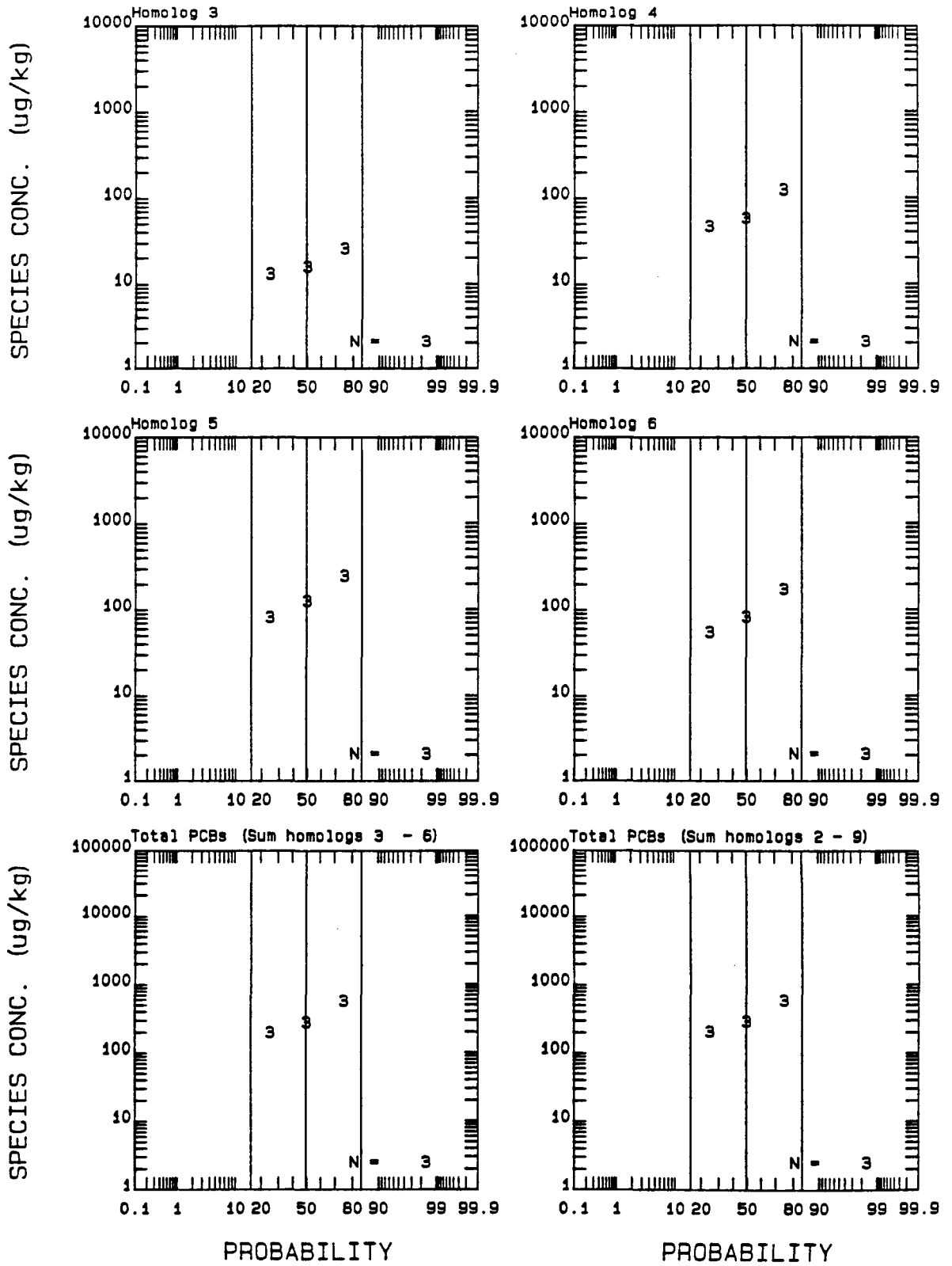
AREA 2, LOBSTER, SMALL



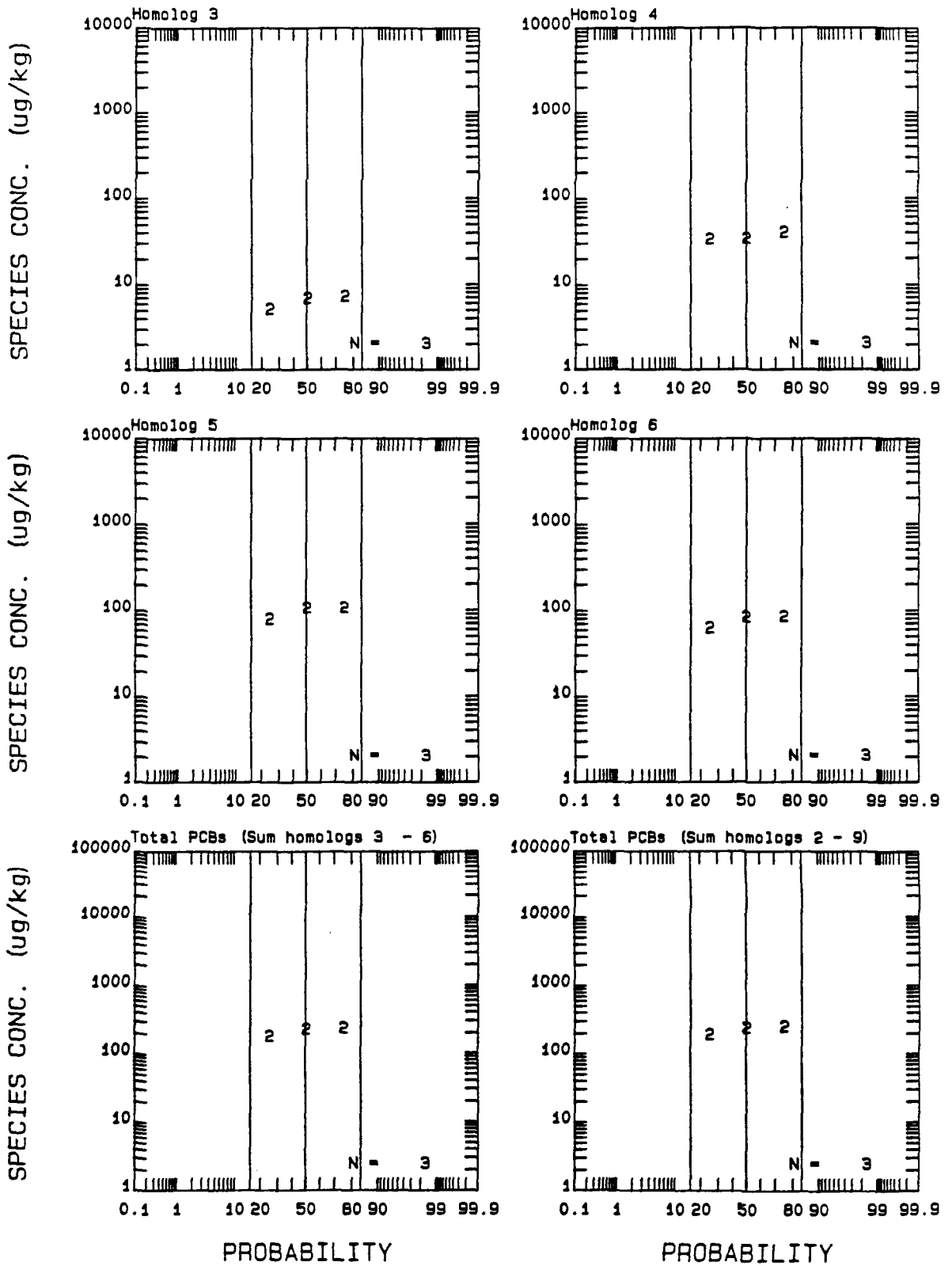
AREA 2, LOBSTER, MEDIUM



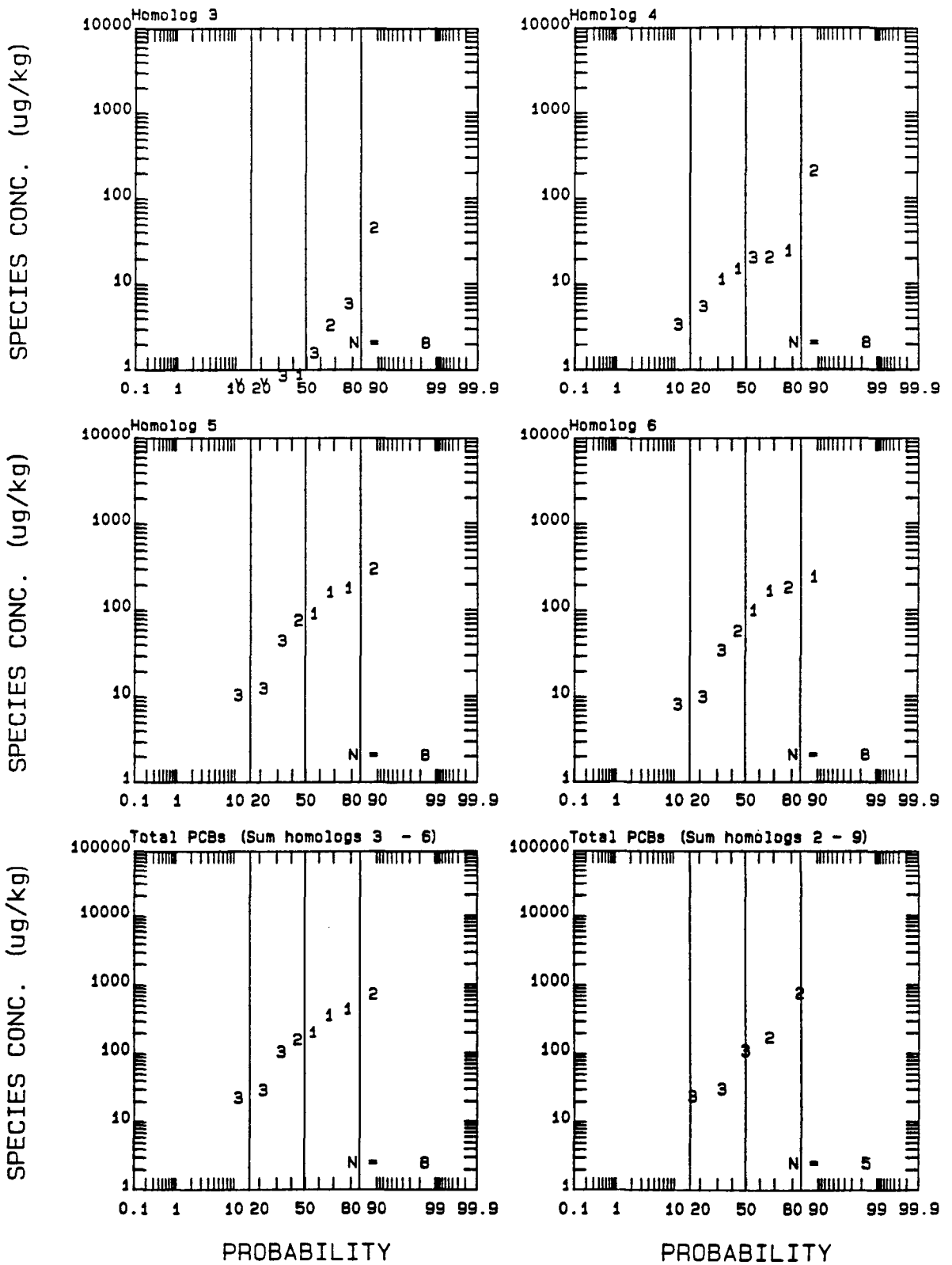
AREA 2, LOBSTER, LARGE



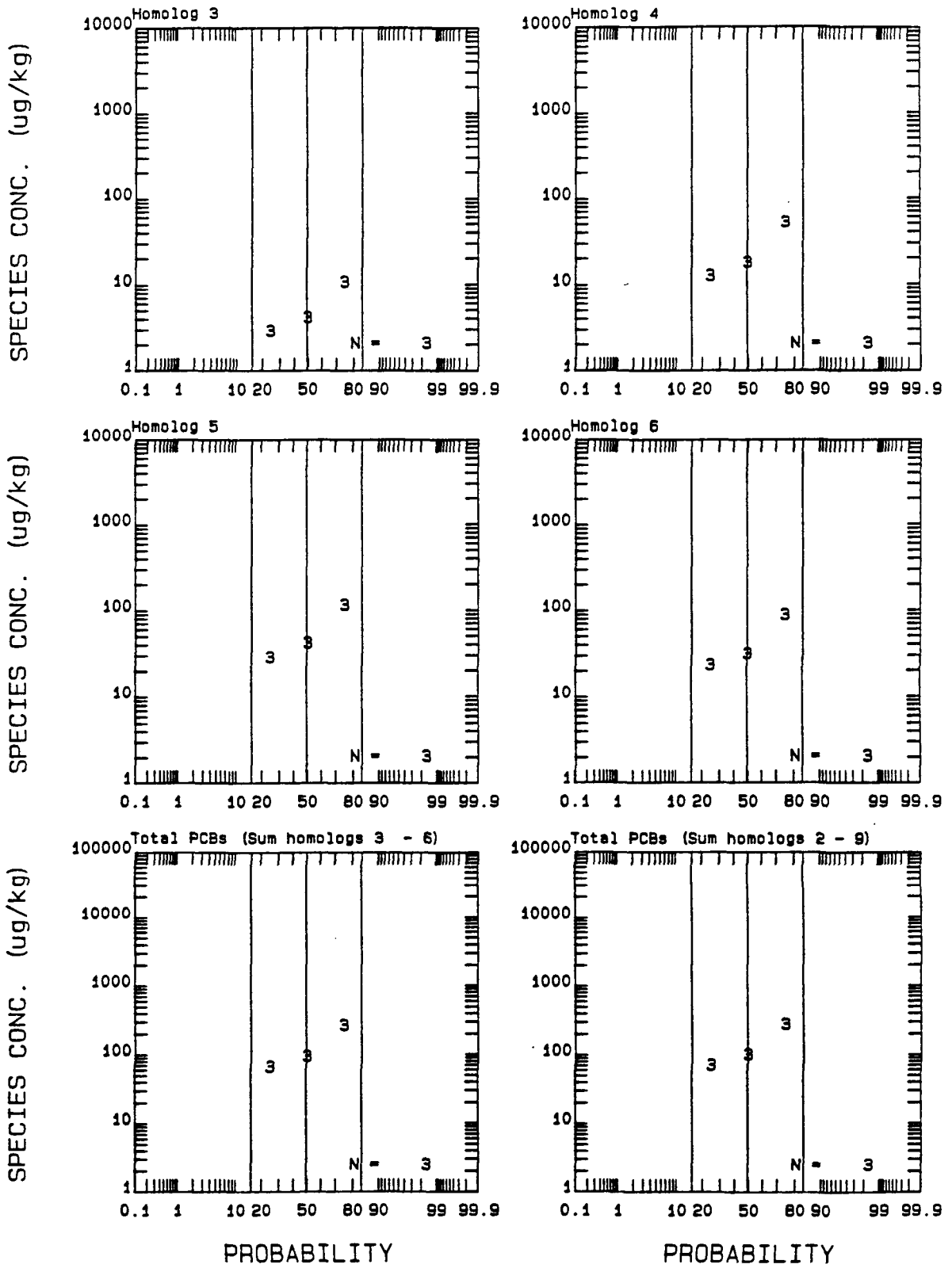
AREA 3, LOBSTER, SMALL



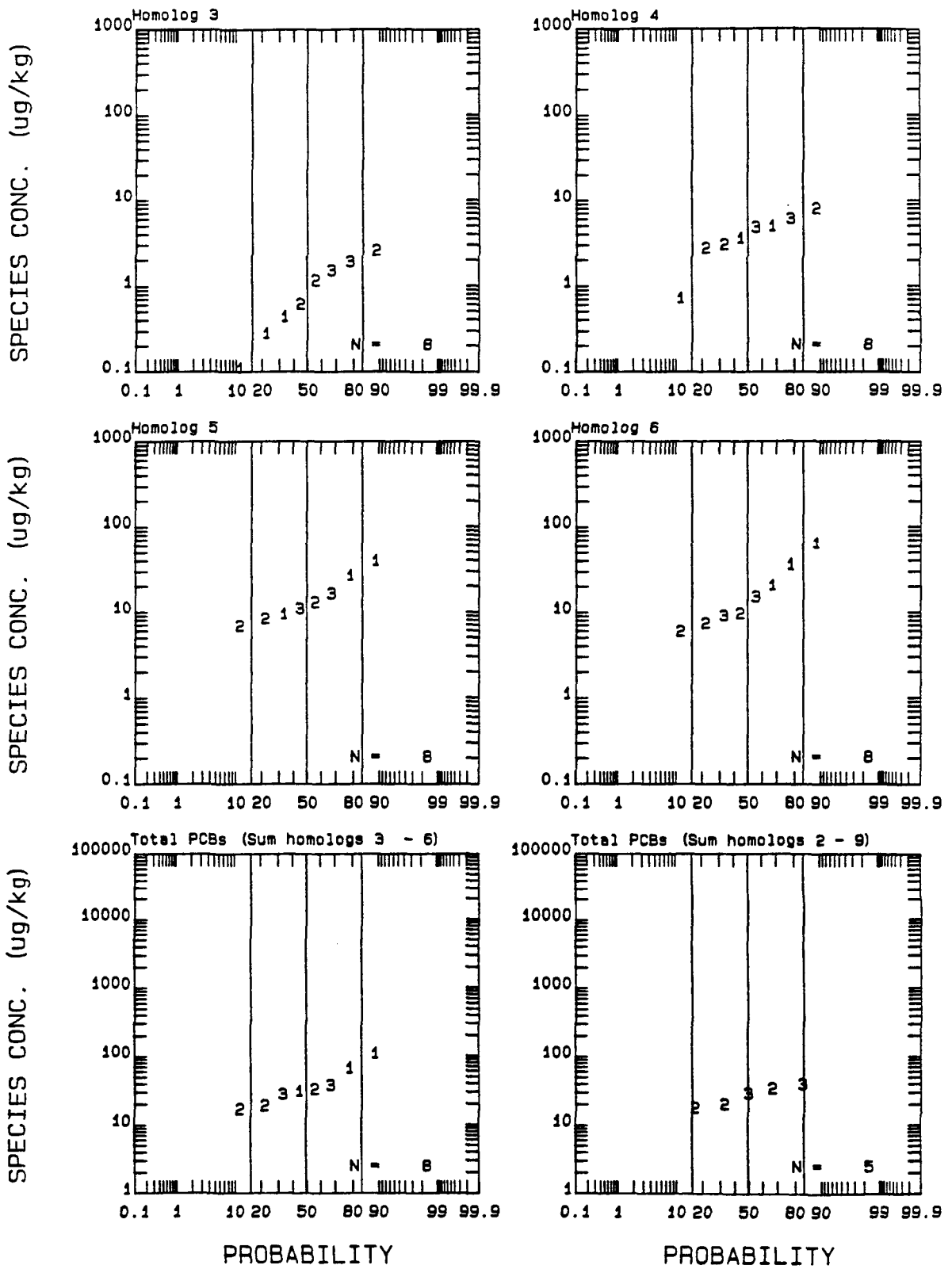
AREA 3, LOBSTER, MEDIUM



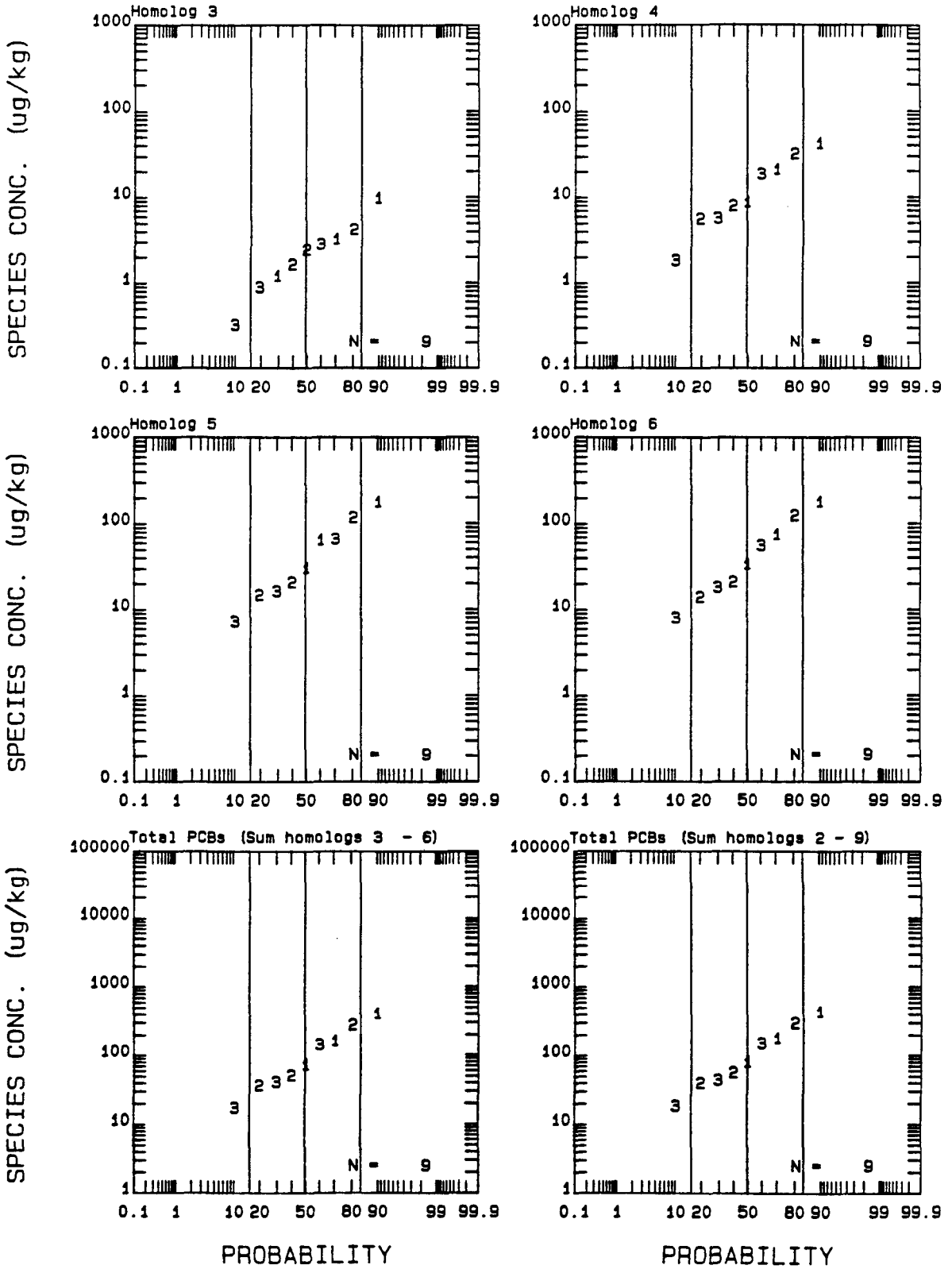
AREA 3, LOBSTER, LARGE



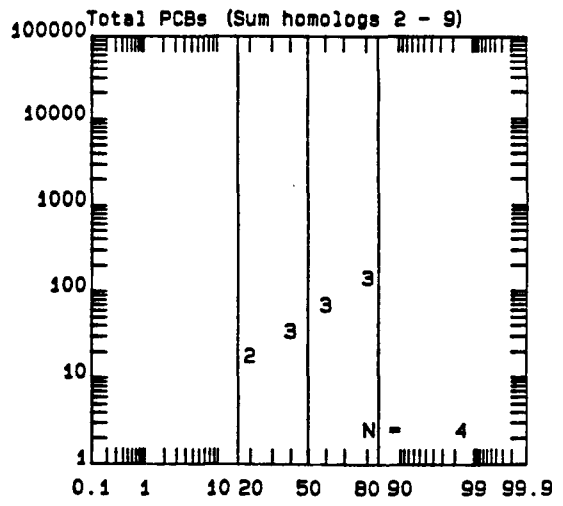
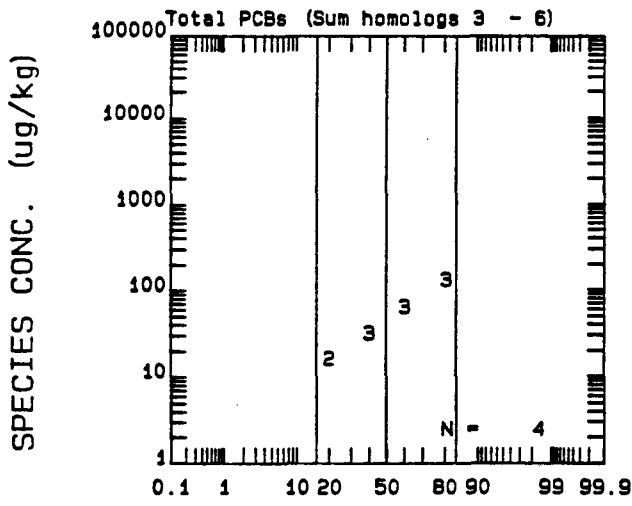
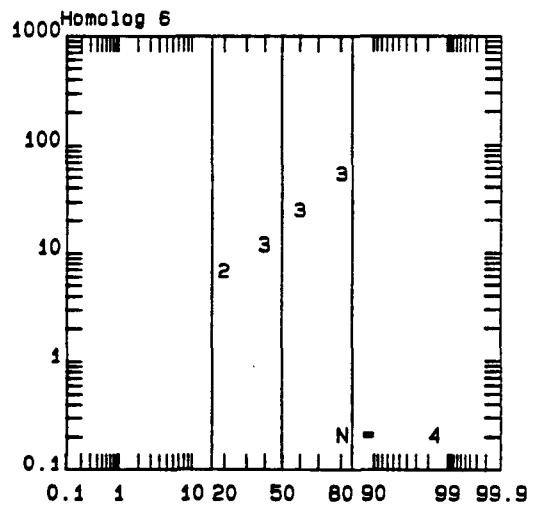
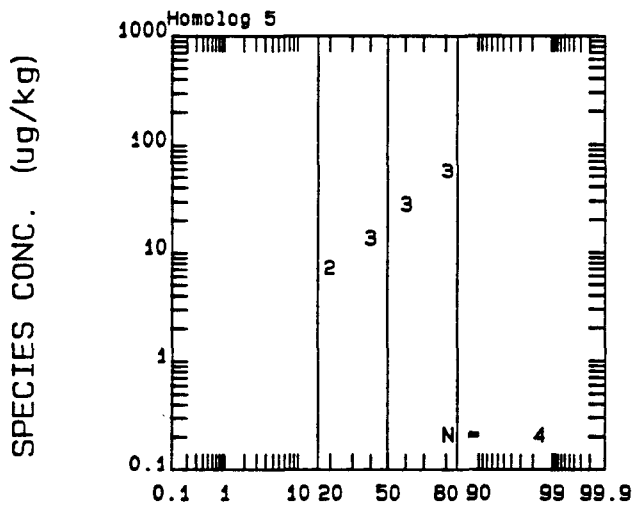
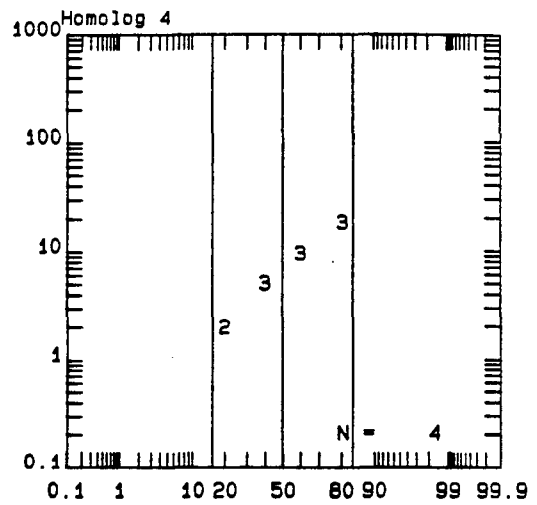
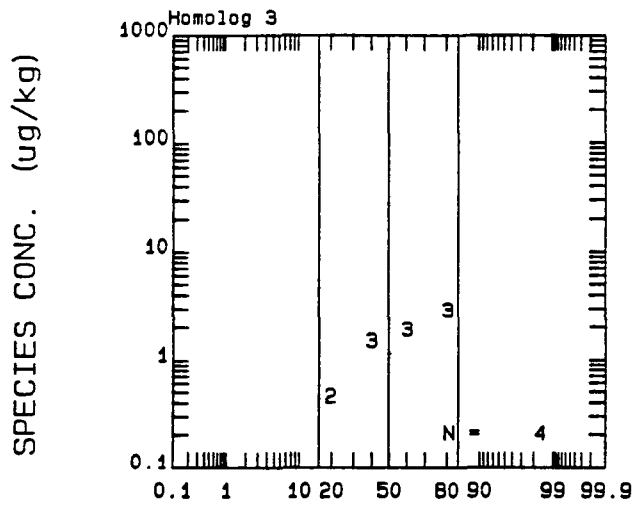
AREA 4, LOBSTER, SMALL



AREA 4, LOBSTER, MEDIUM



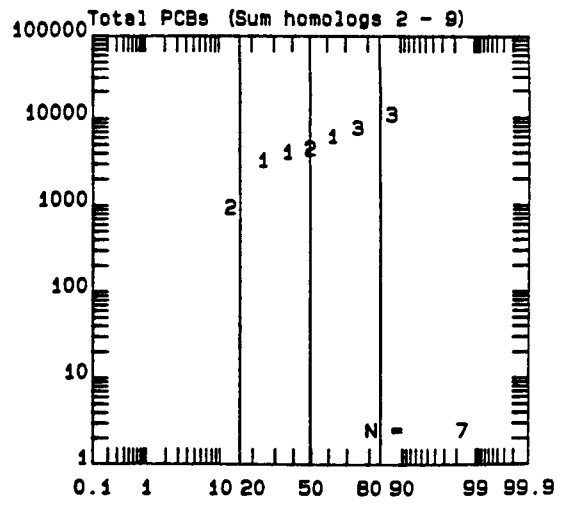
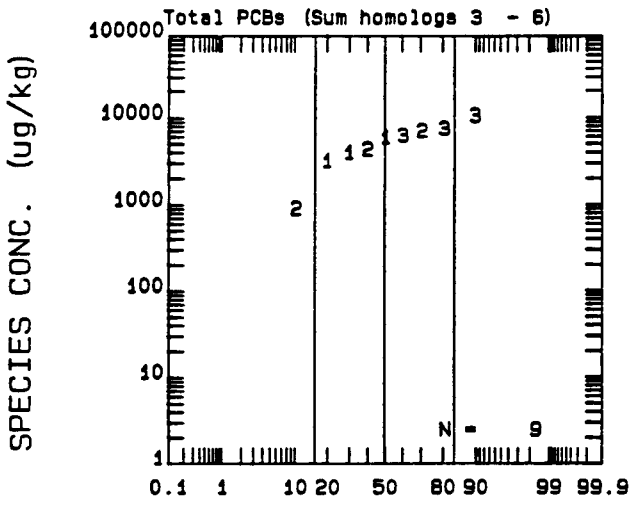
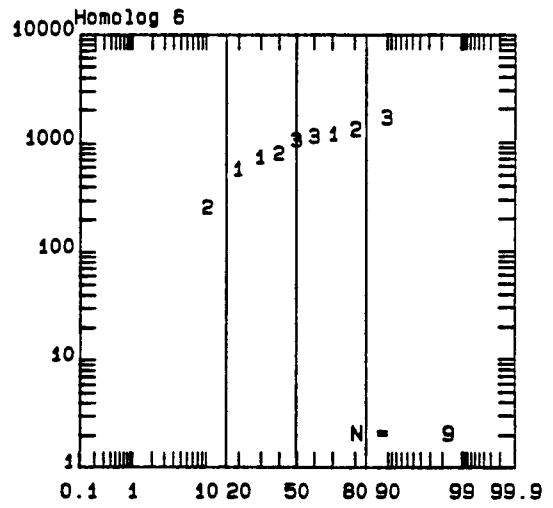
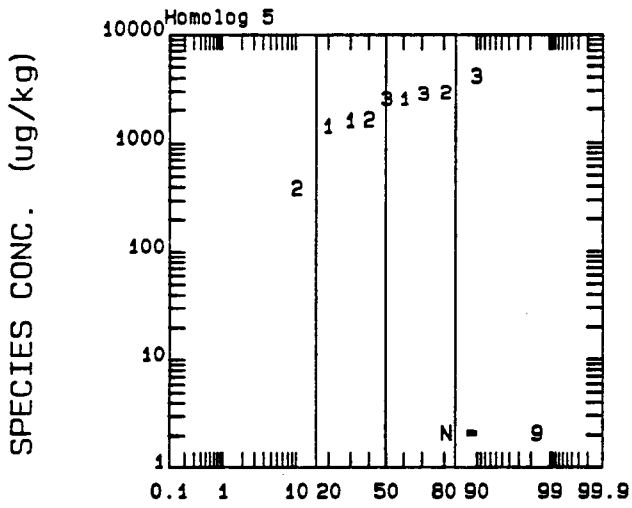
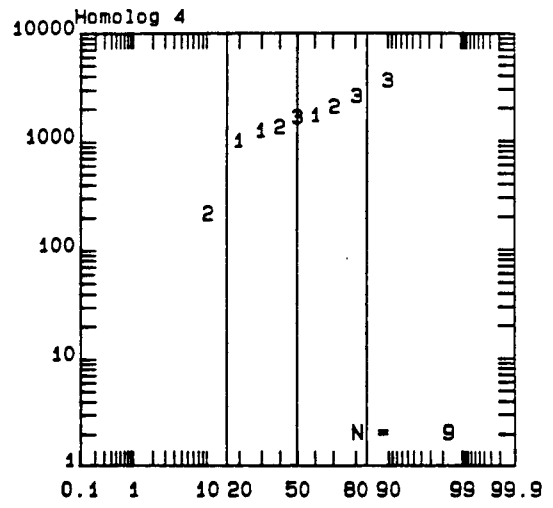
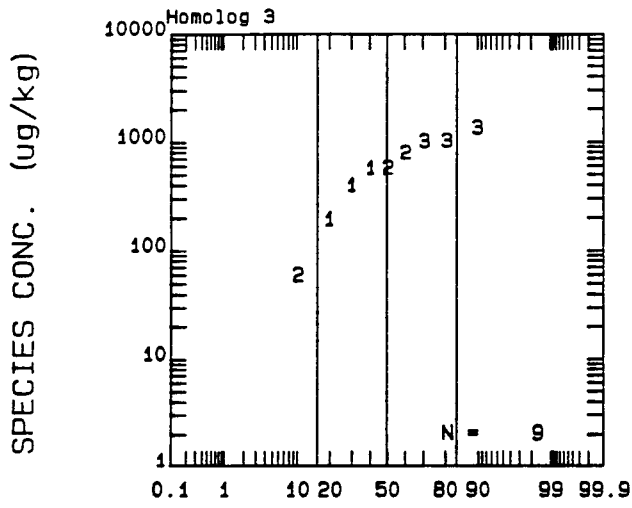
AREA 4, LOBSTER, LARGE



PROBABILITY

PROBABILITY

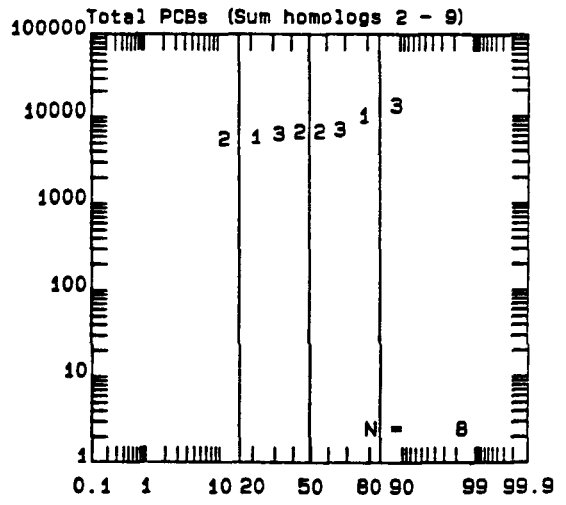
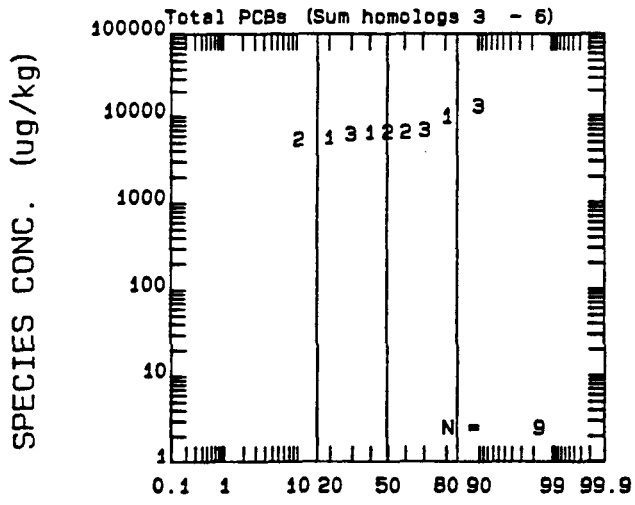
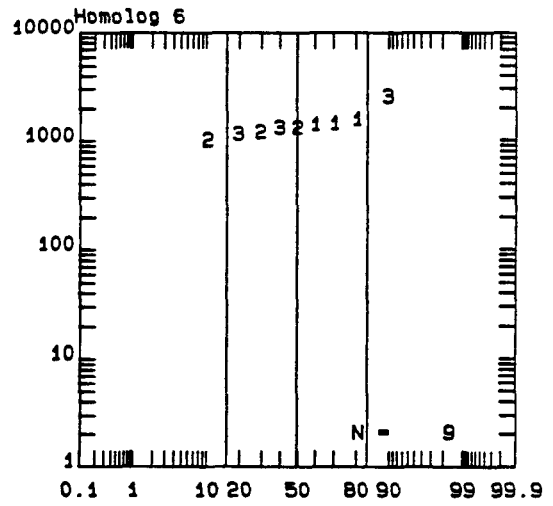
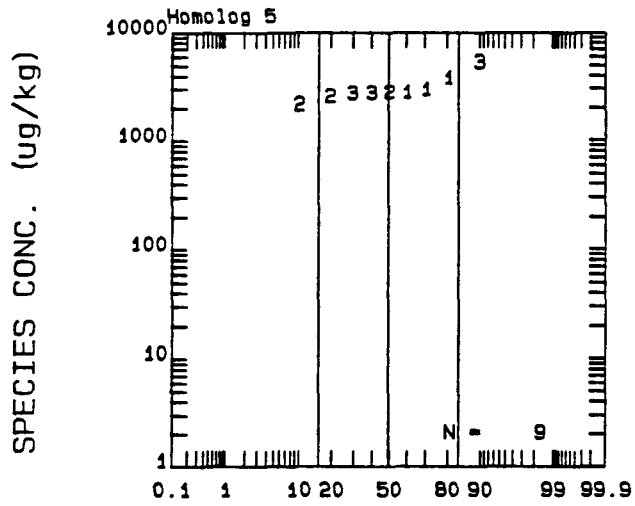
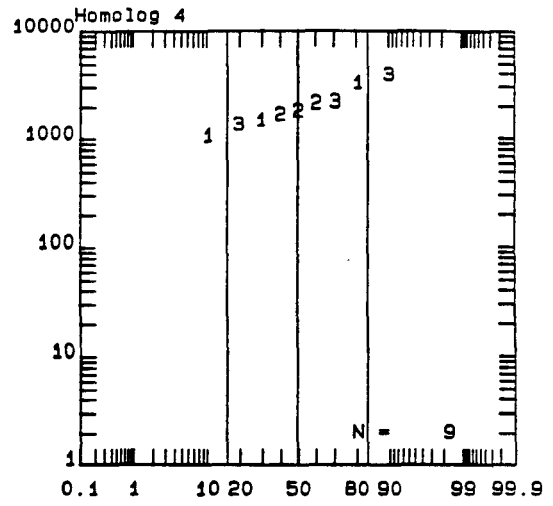
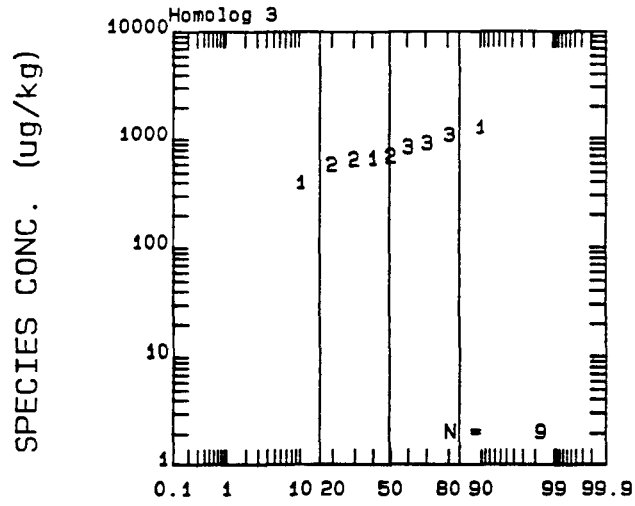
AREA 1, FLOUNDER, SMALL



PROBABILITY

PROBABILITY

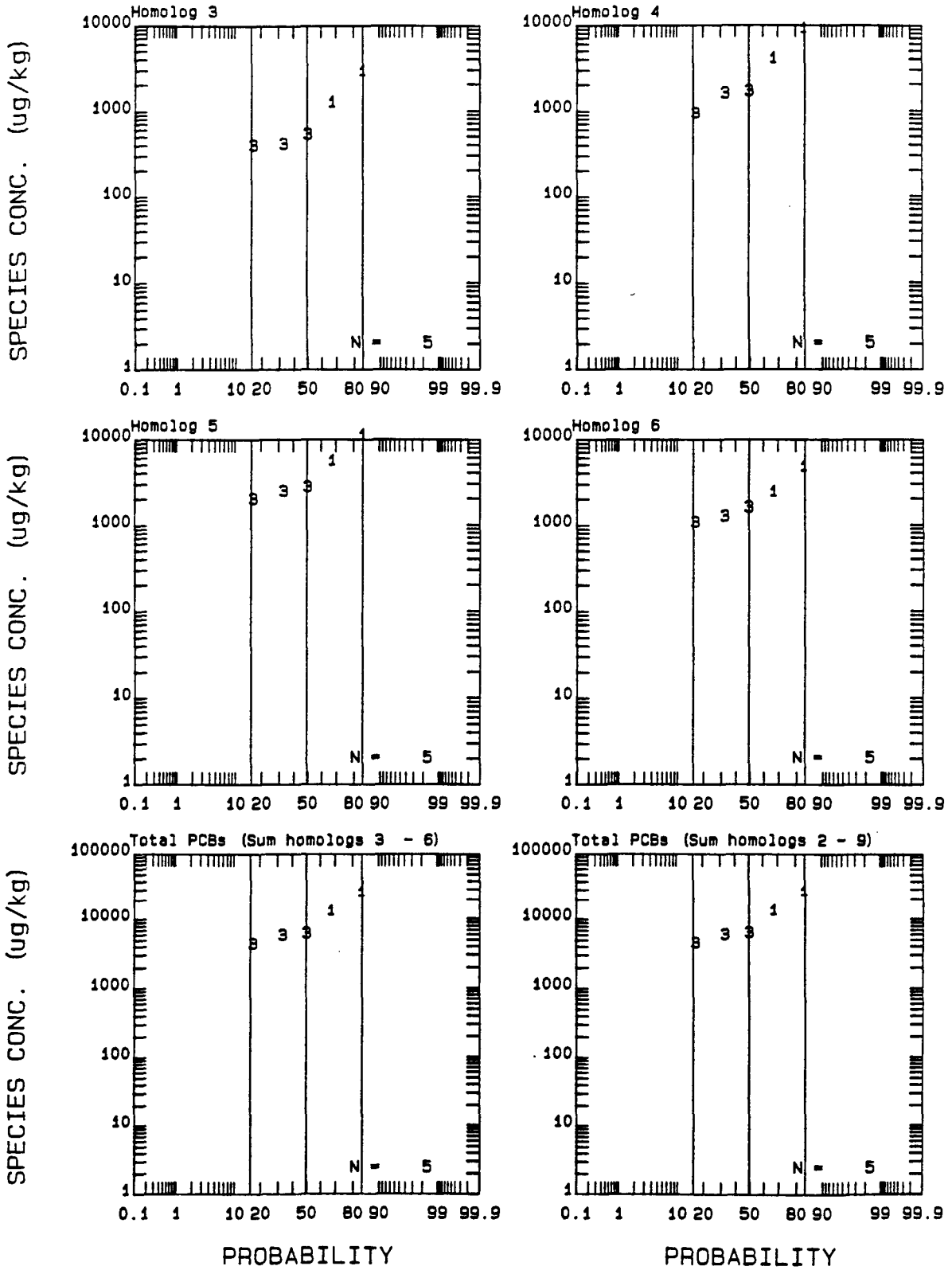
AREA 1, FLOUNDER, MEDIUM



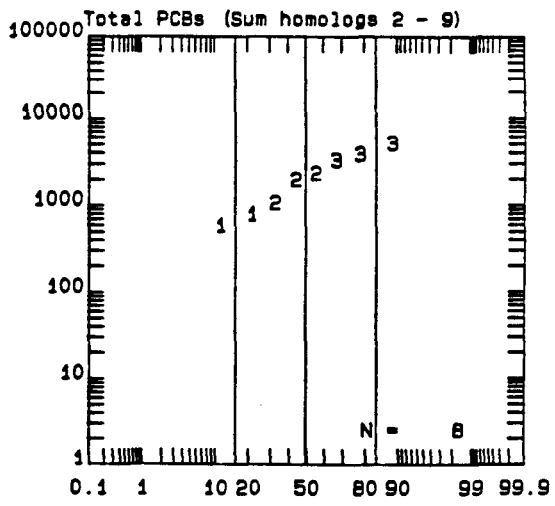
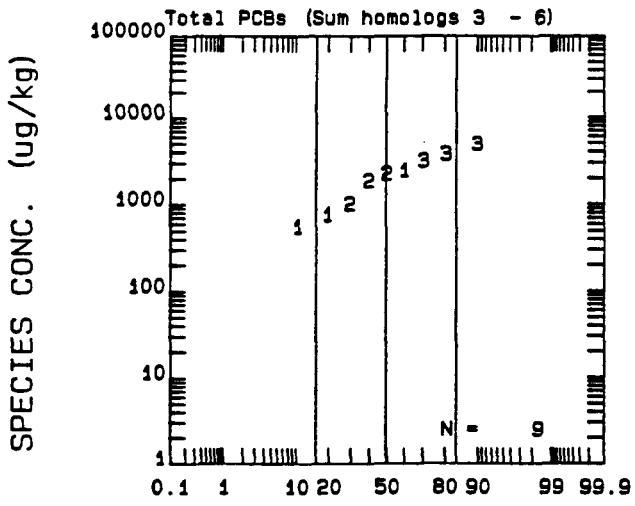
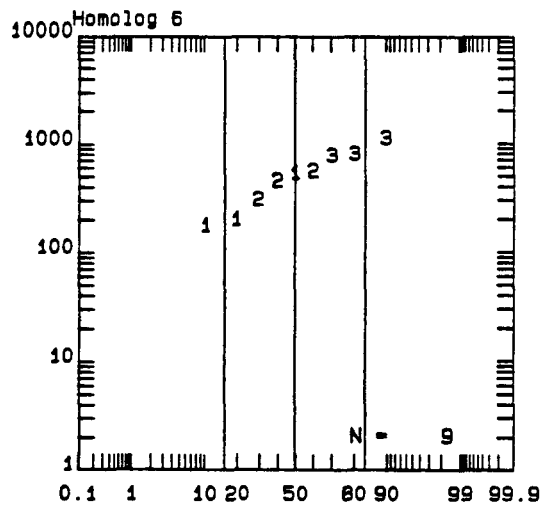
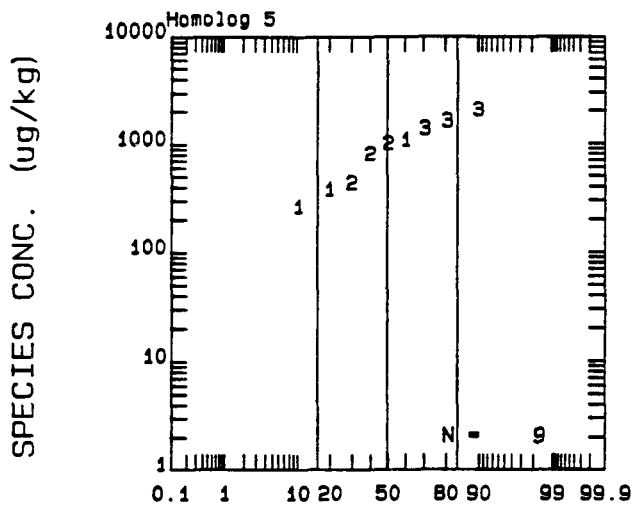
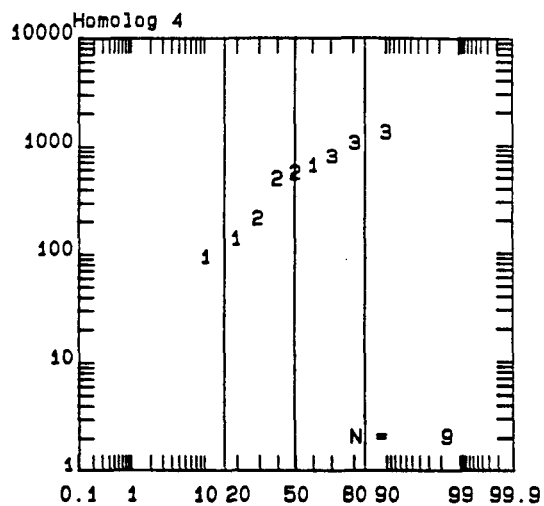
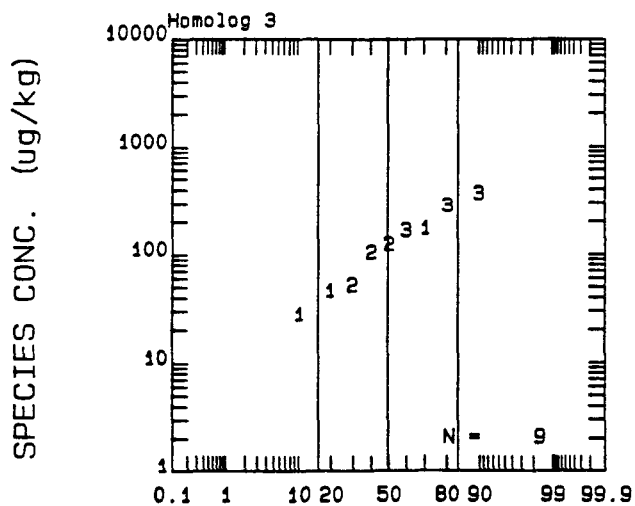
PROBABILITY

PROBABILITY

AREA 1, FLOUNDER, LARGE



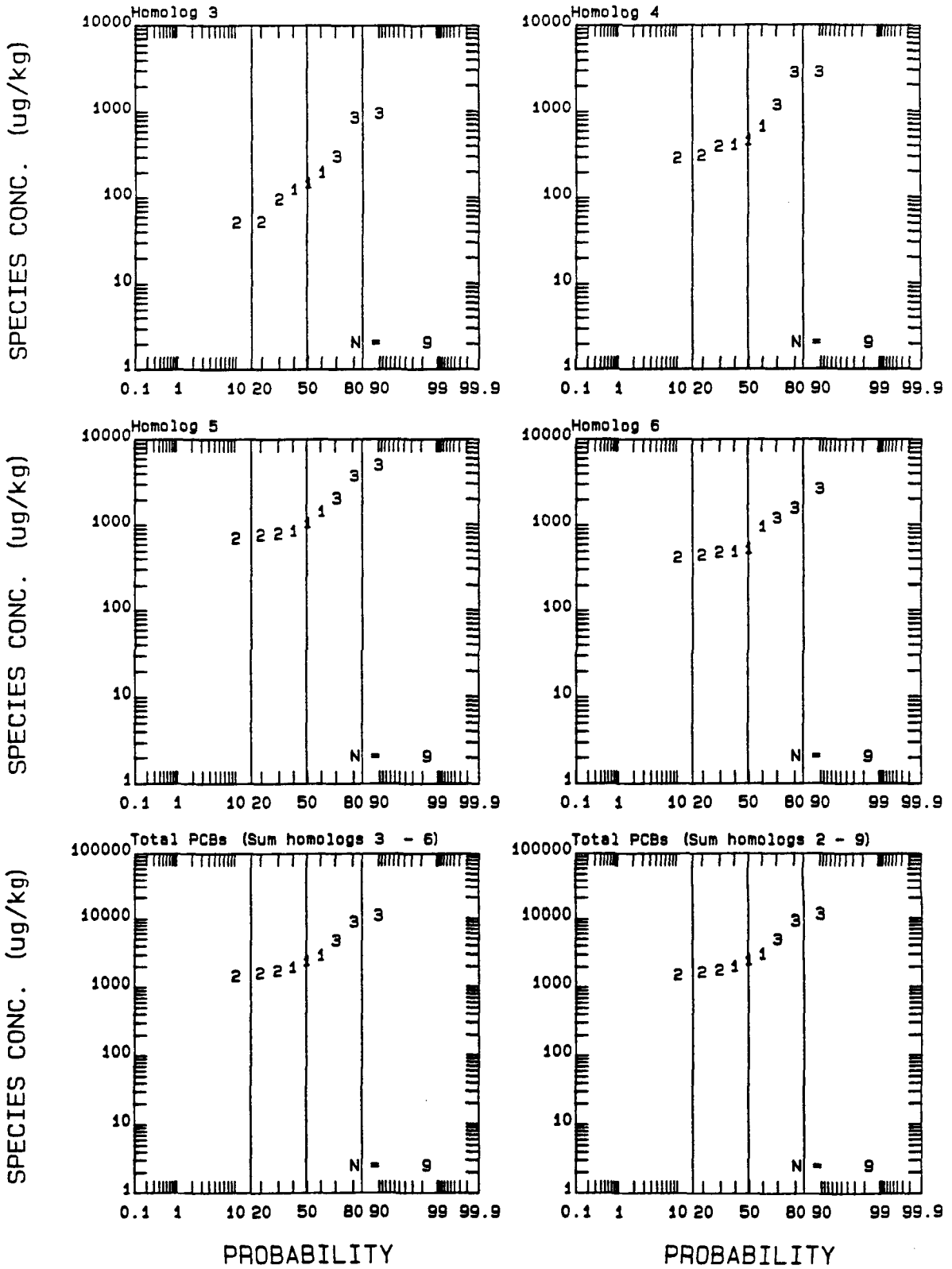
AREA 2, FLOUNDER, SMALL



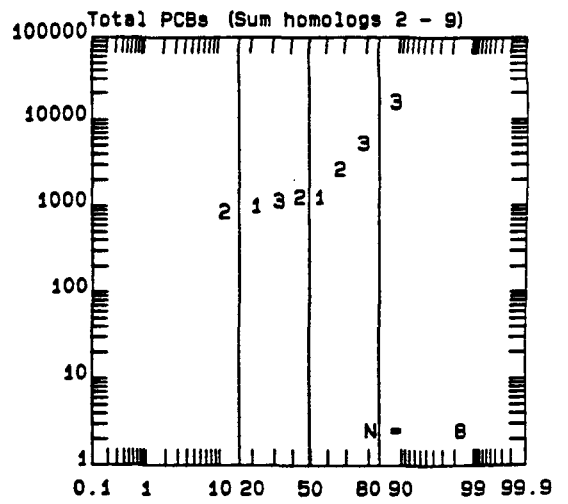
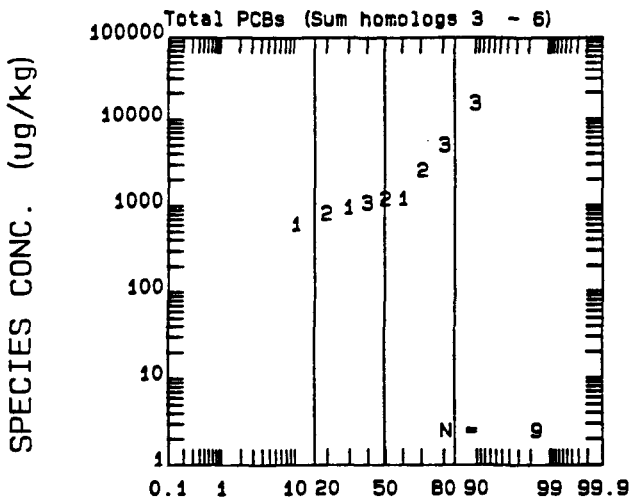
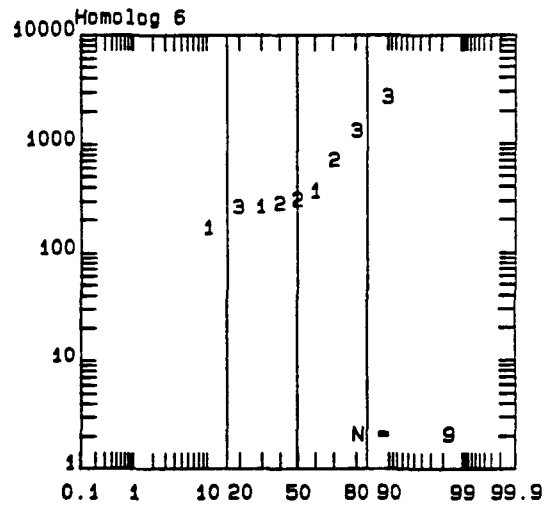
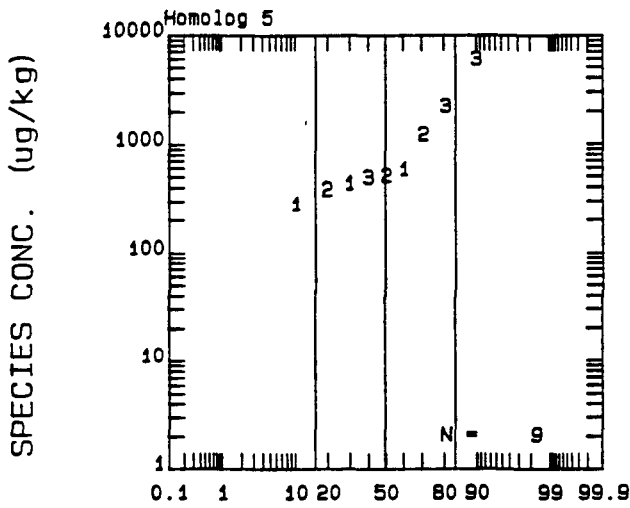
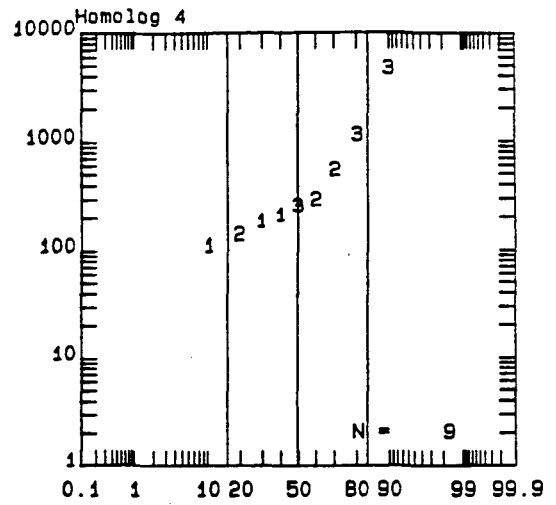
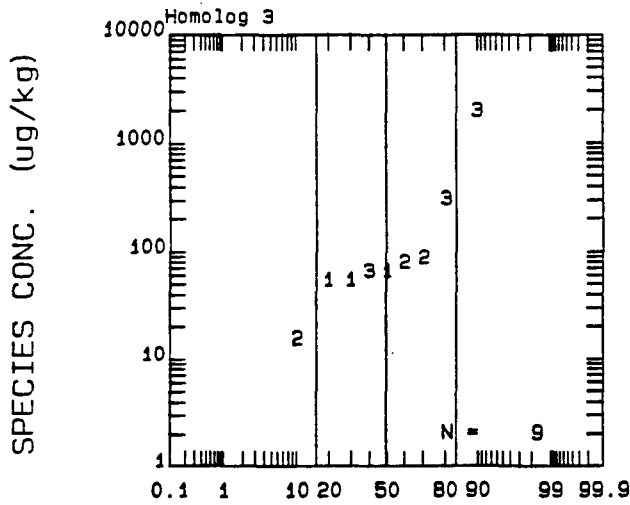
PROBABILITY

PROBABILITY

AREA 2, FLOUNDER, MEDIUM



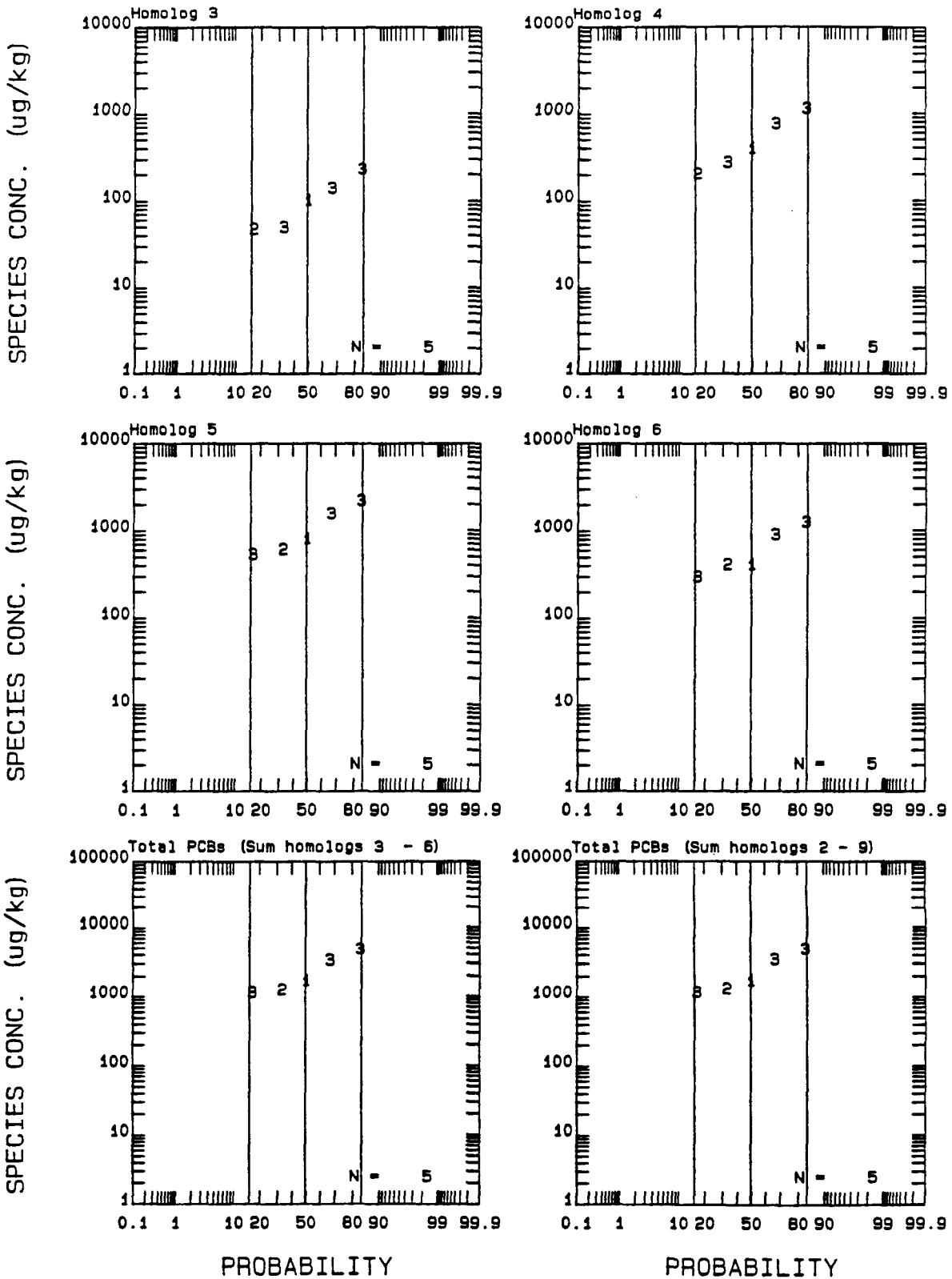
AREA 2, FLOUNDER, LARGE



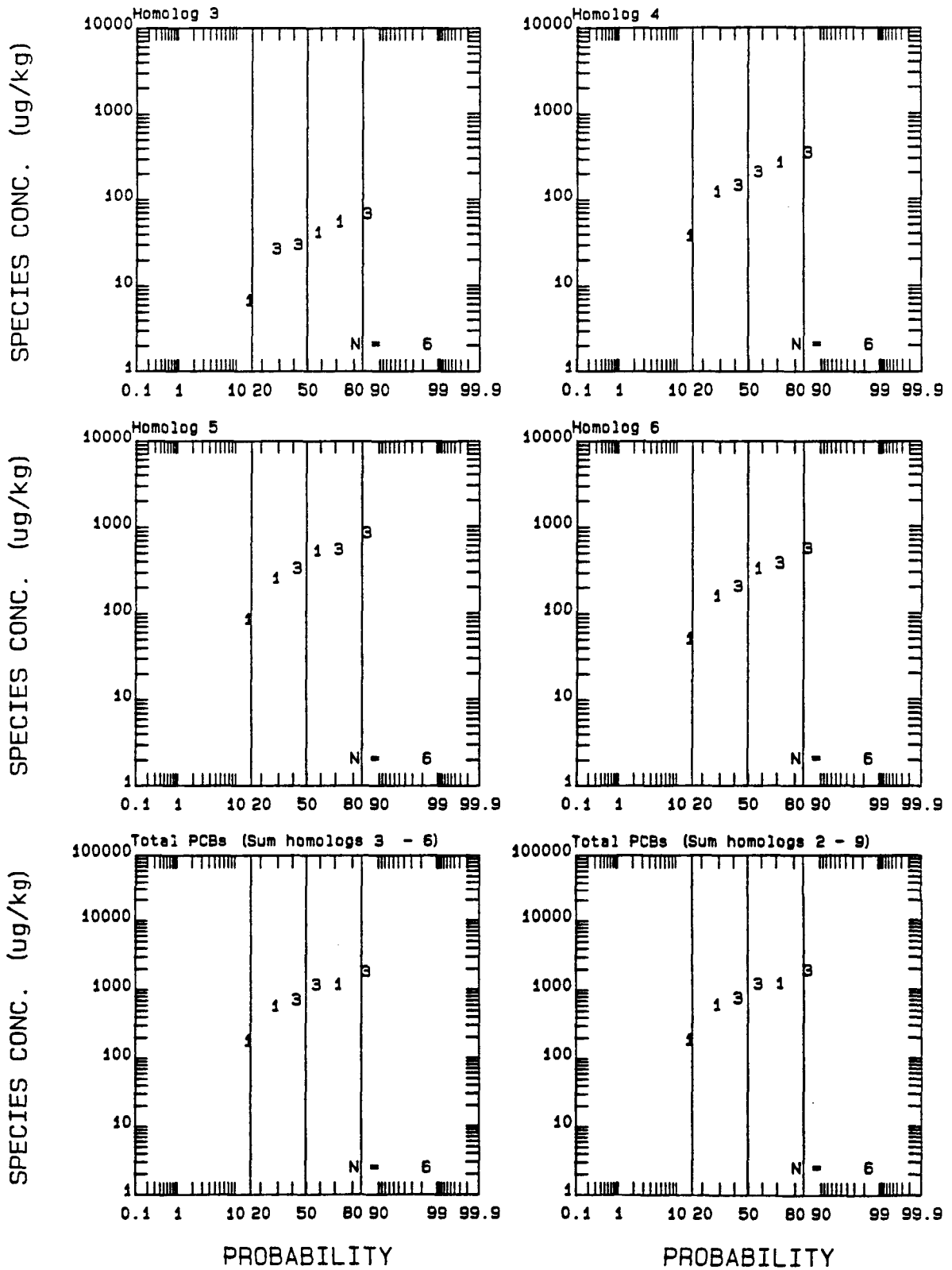
PROBABILITY

PROBABILITY

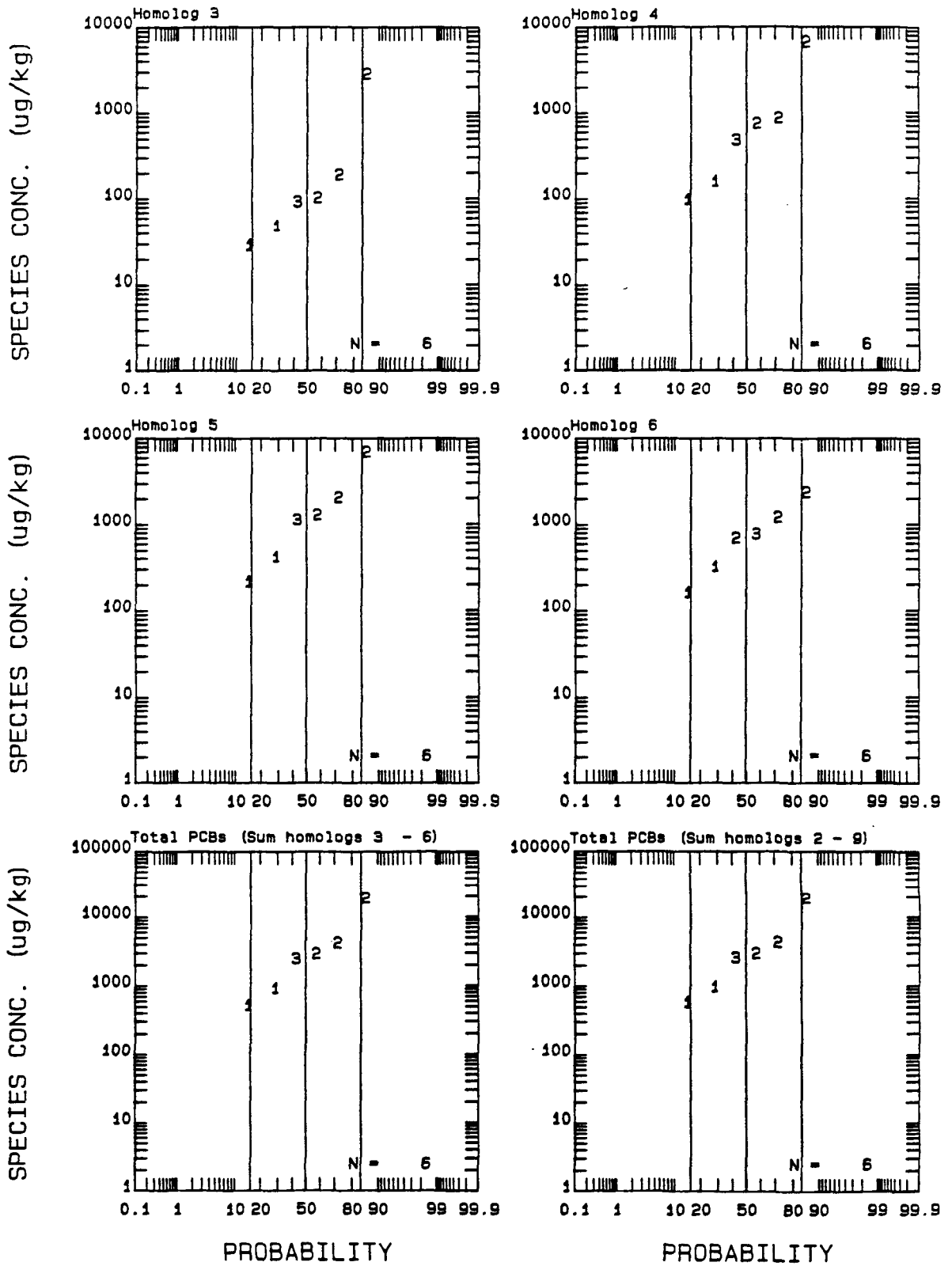
AREA 3, FLOUNDER, SMALL



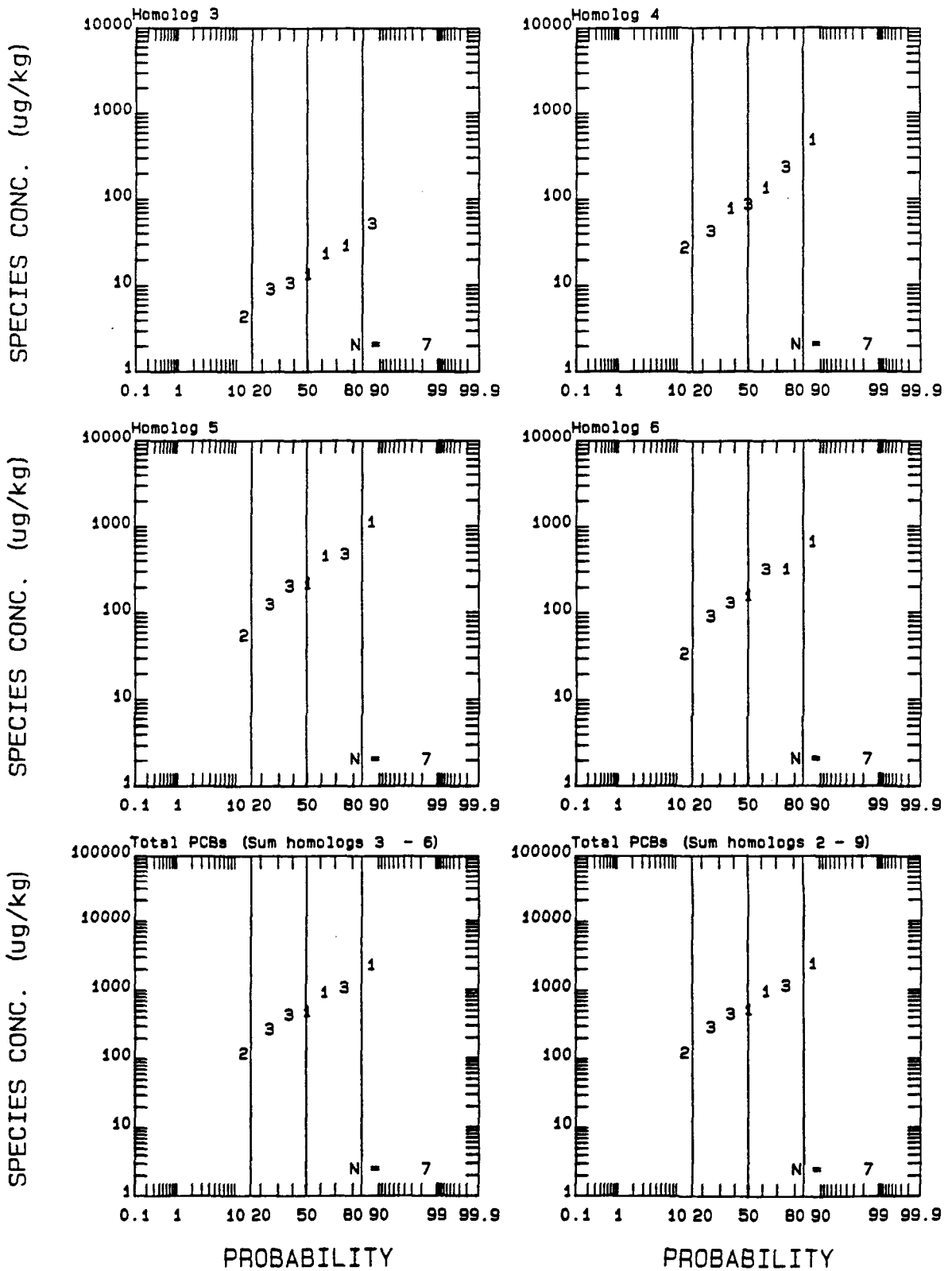
AREA 3, FLOUNDER, MEDIUM



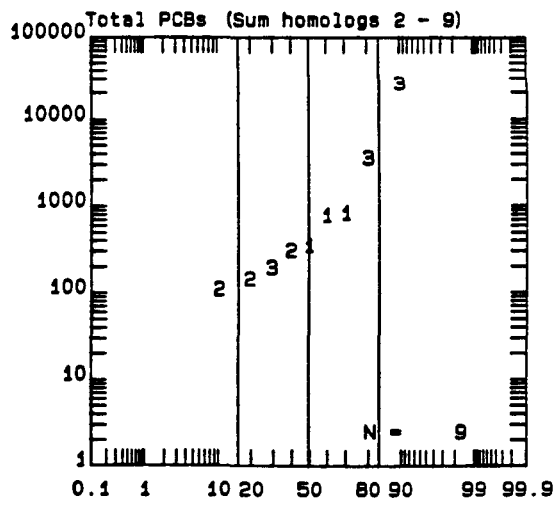
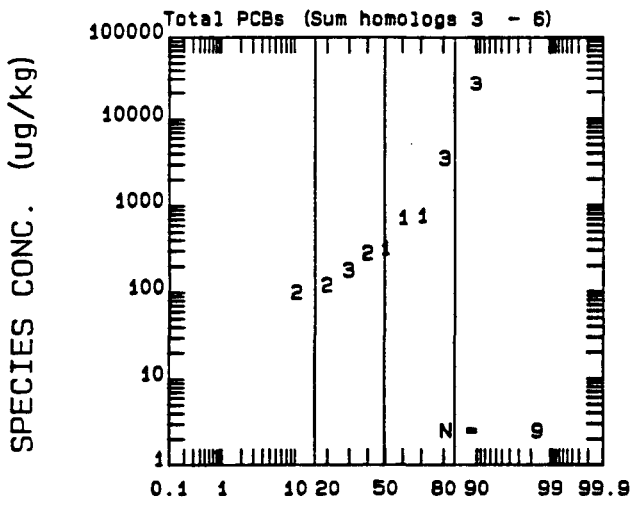
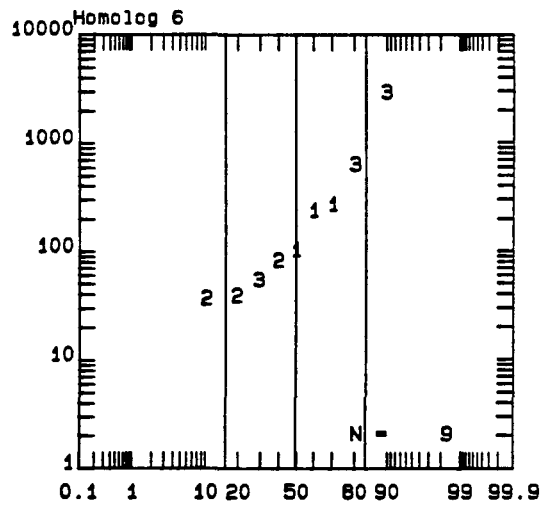
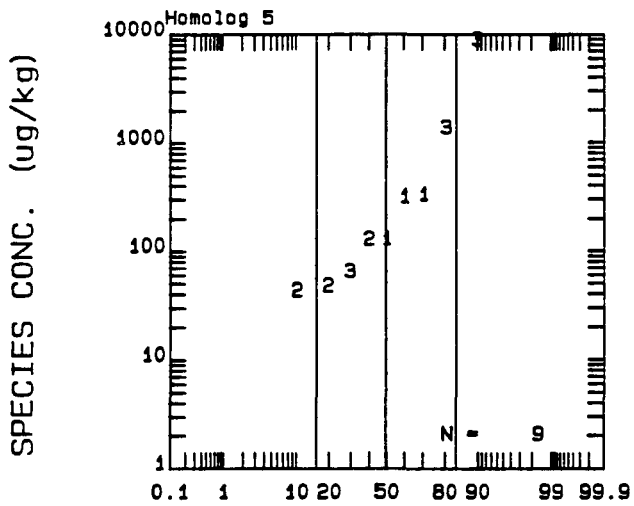
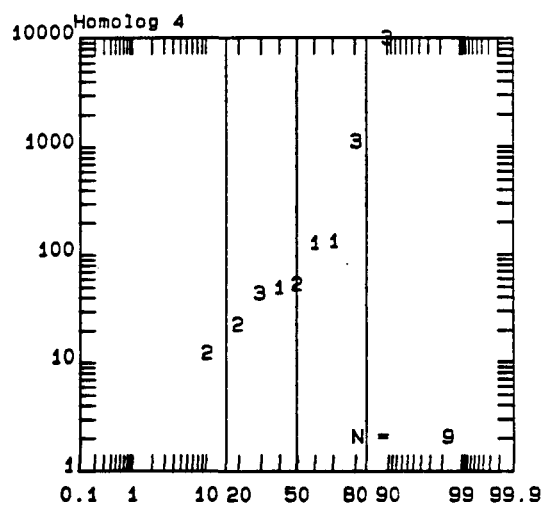
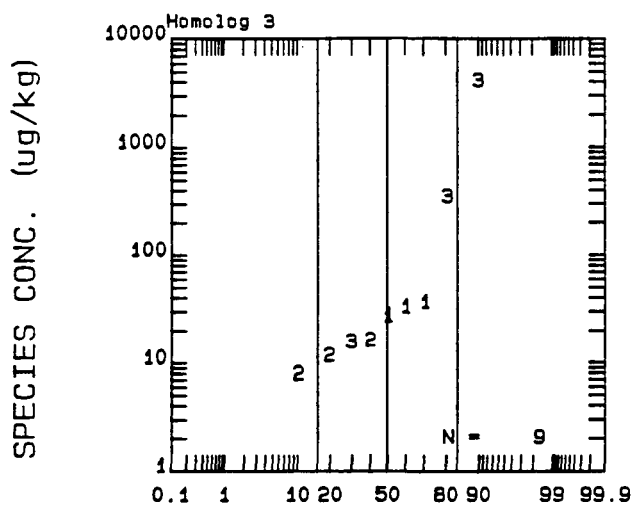
AREA 3, FLOUNDER, LARGE



AREA 4, FLOUNDER, SMALL



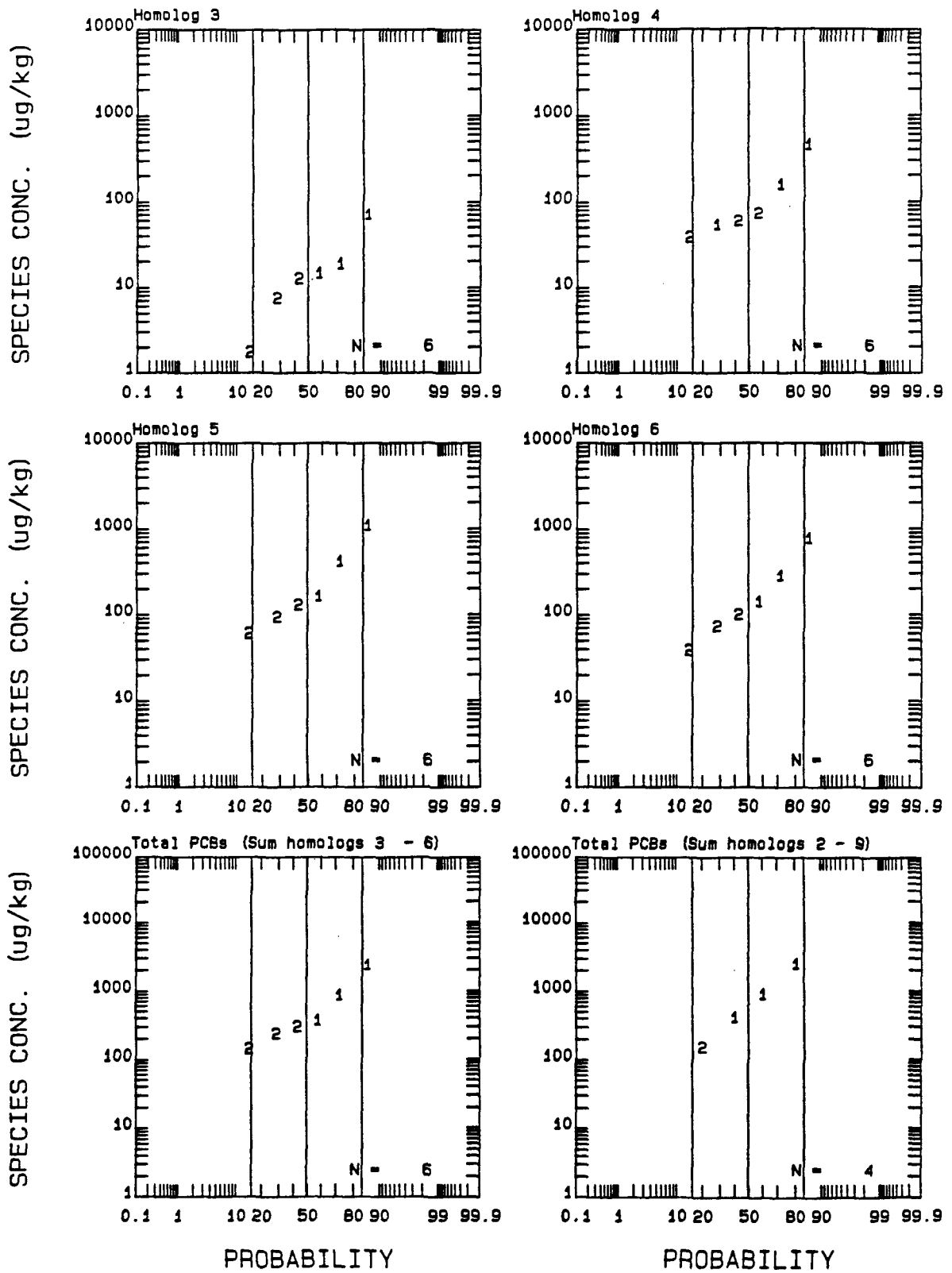
AREA 4, FLOUNDER, MEDIUM



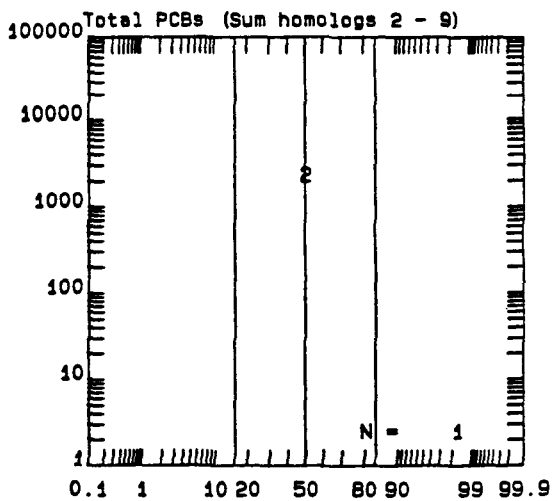
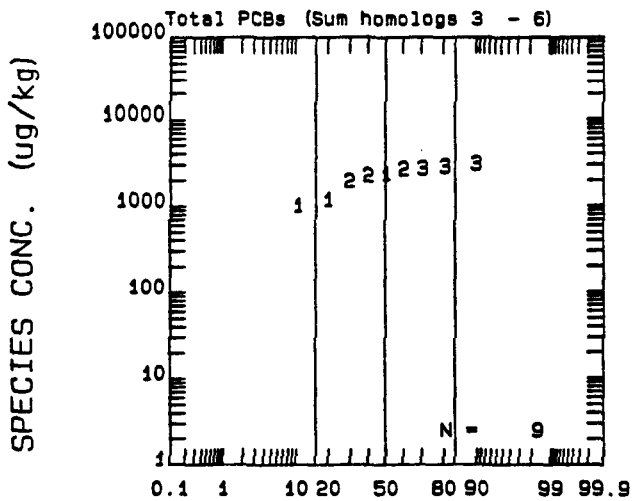
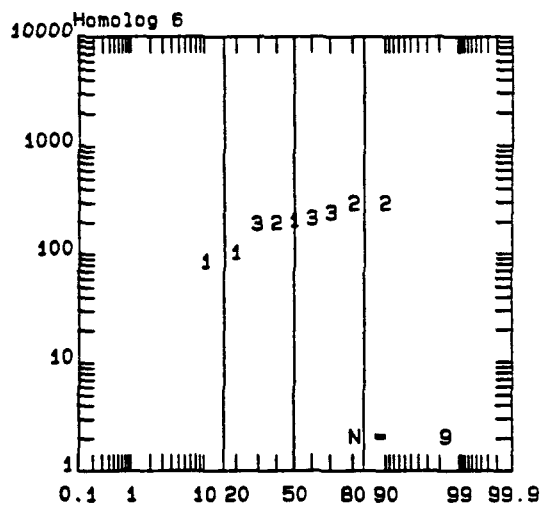
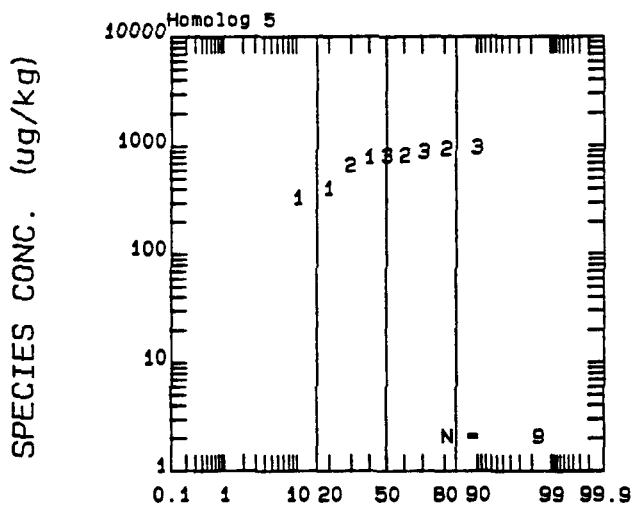
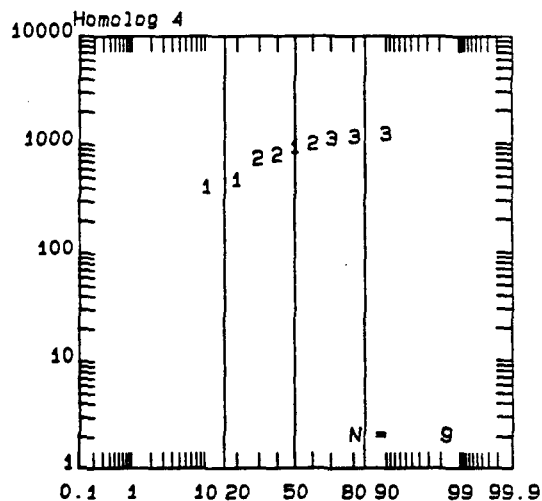
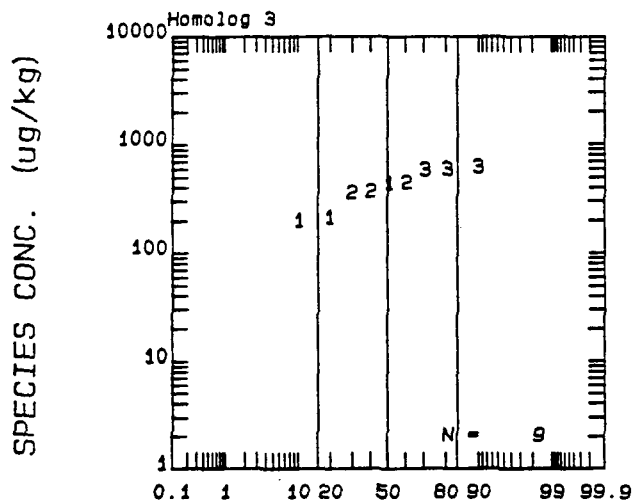
PROBABILITY

PROBABILITY

AREA 4, FLOUNDER, LARGE



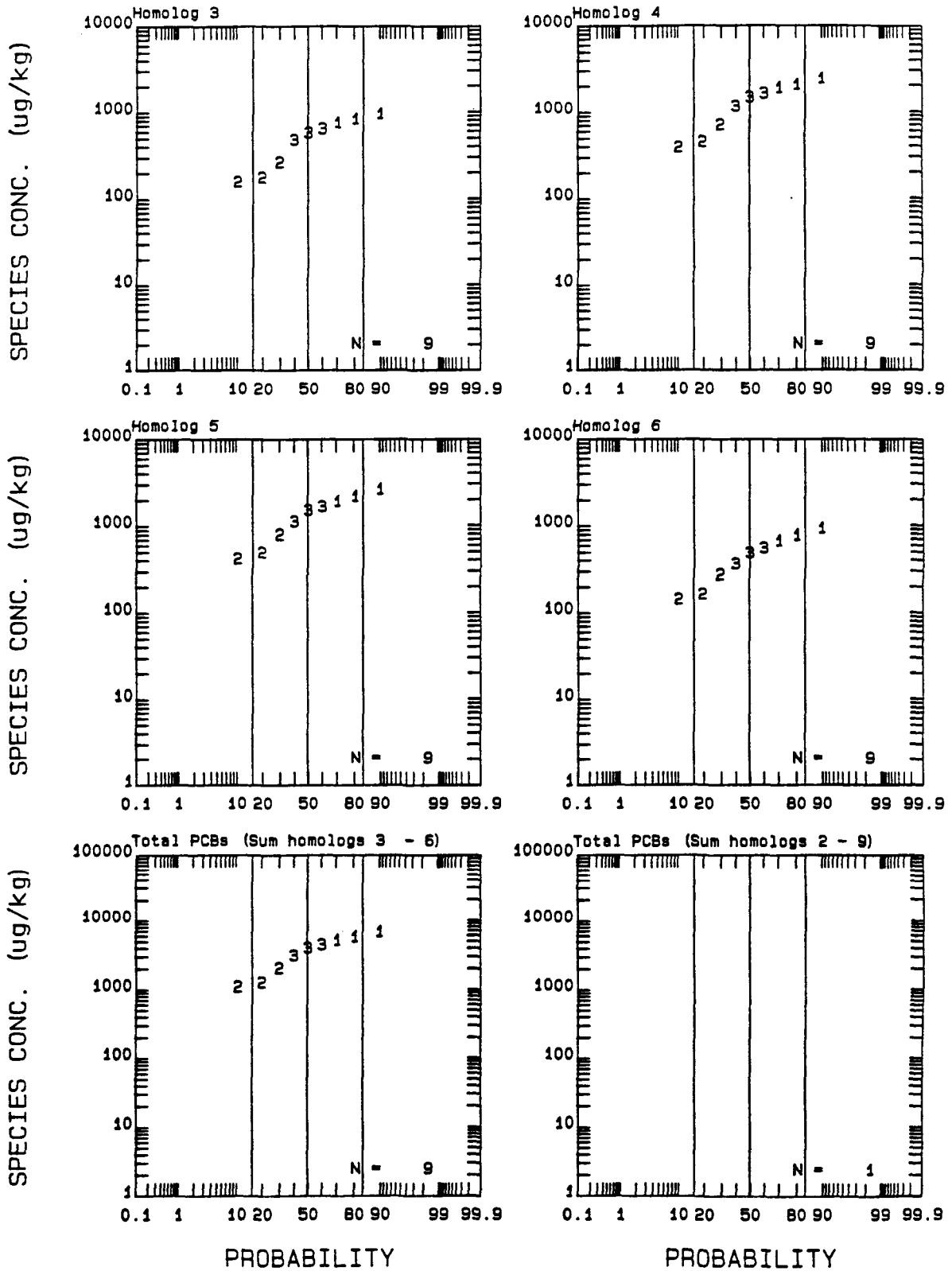
AREA 1, MUSSEL



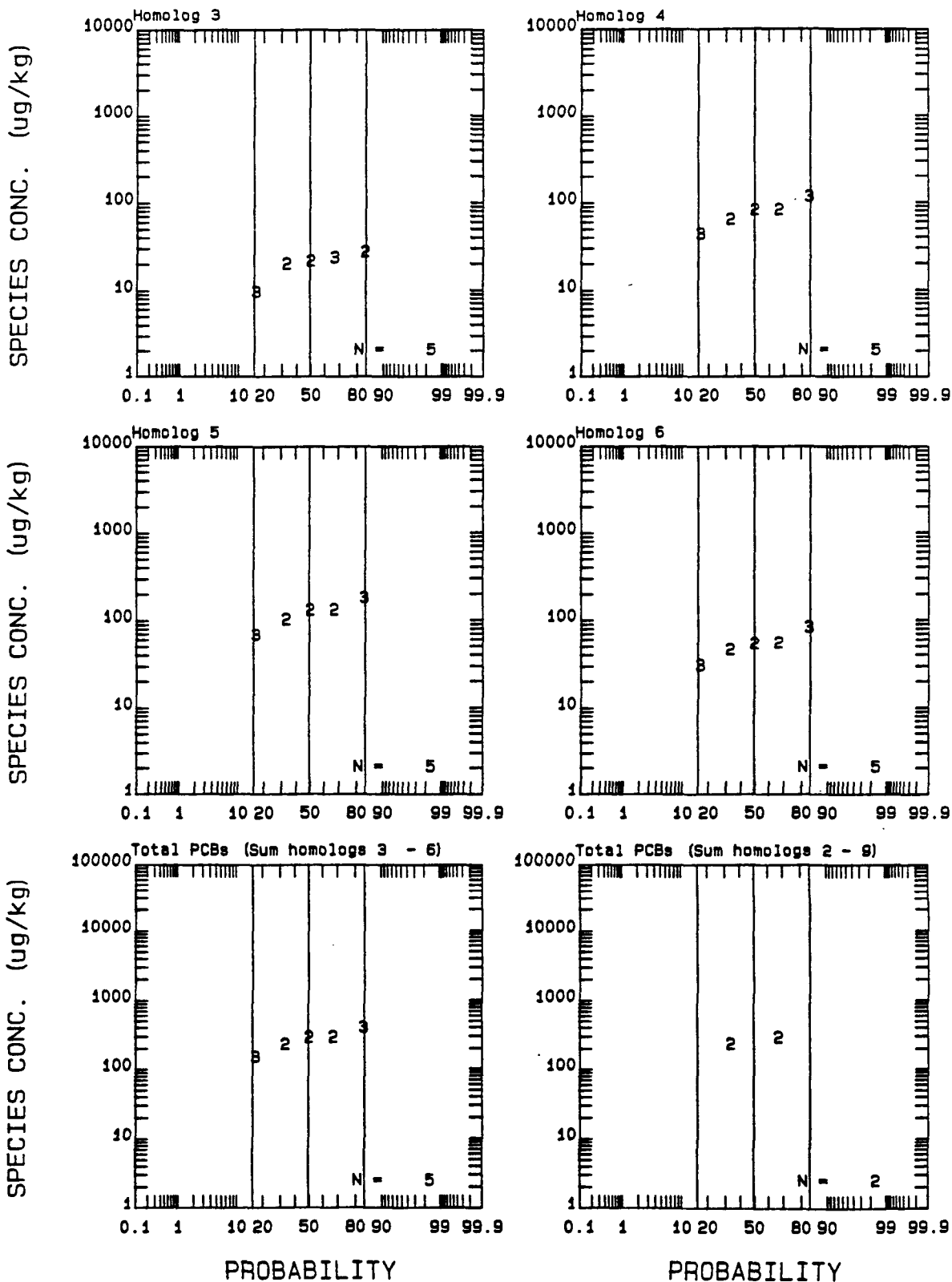
PROBABILITY

PROBABILITY

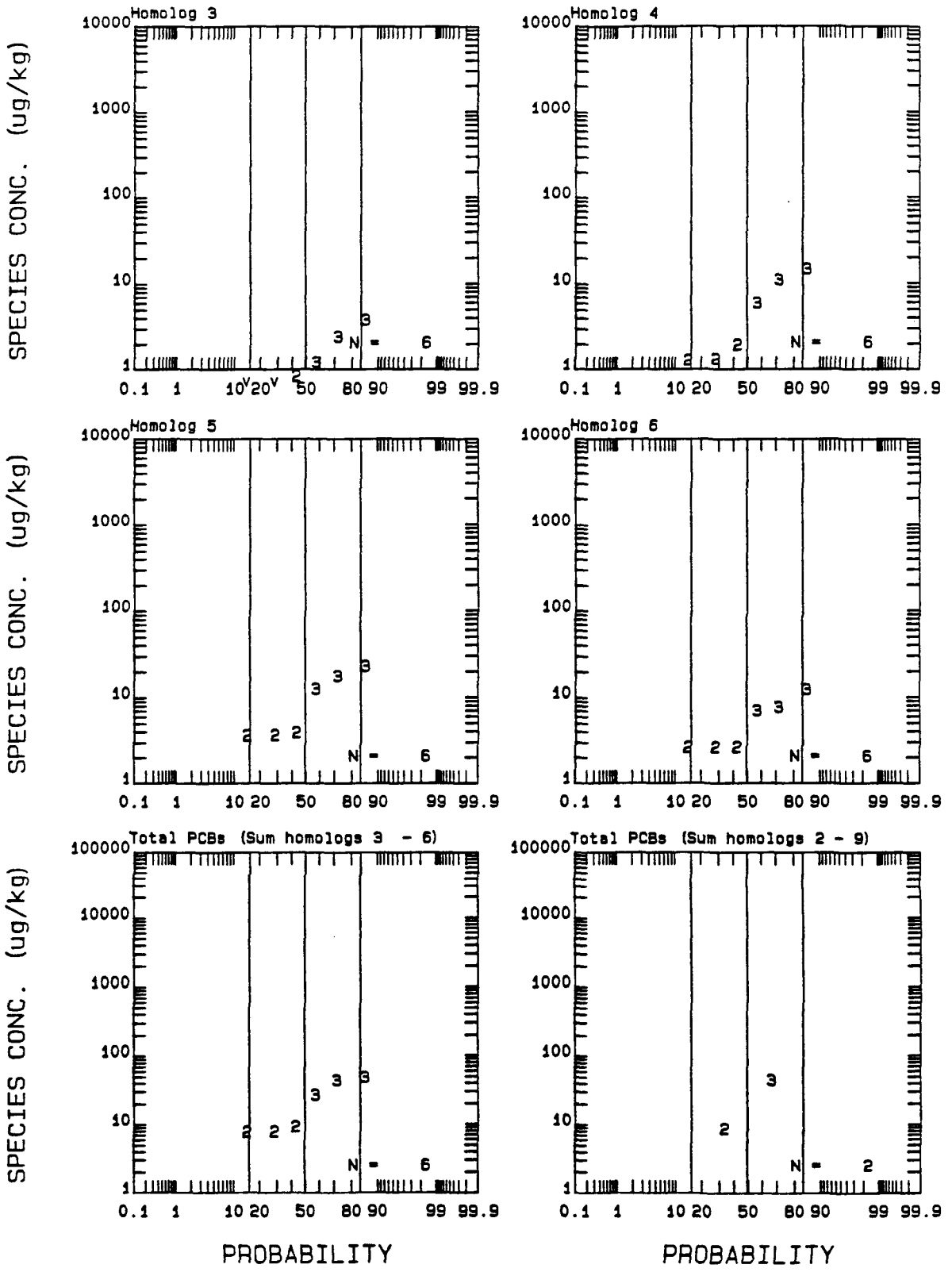
AREA 2, MUSSEL



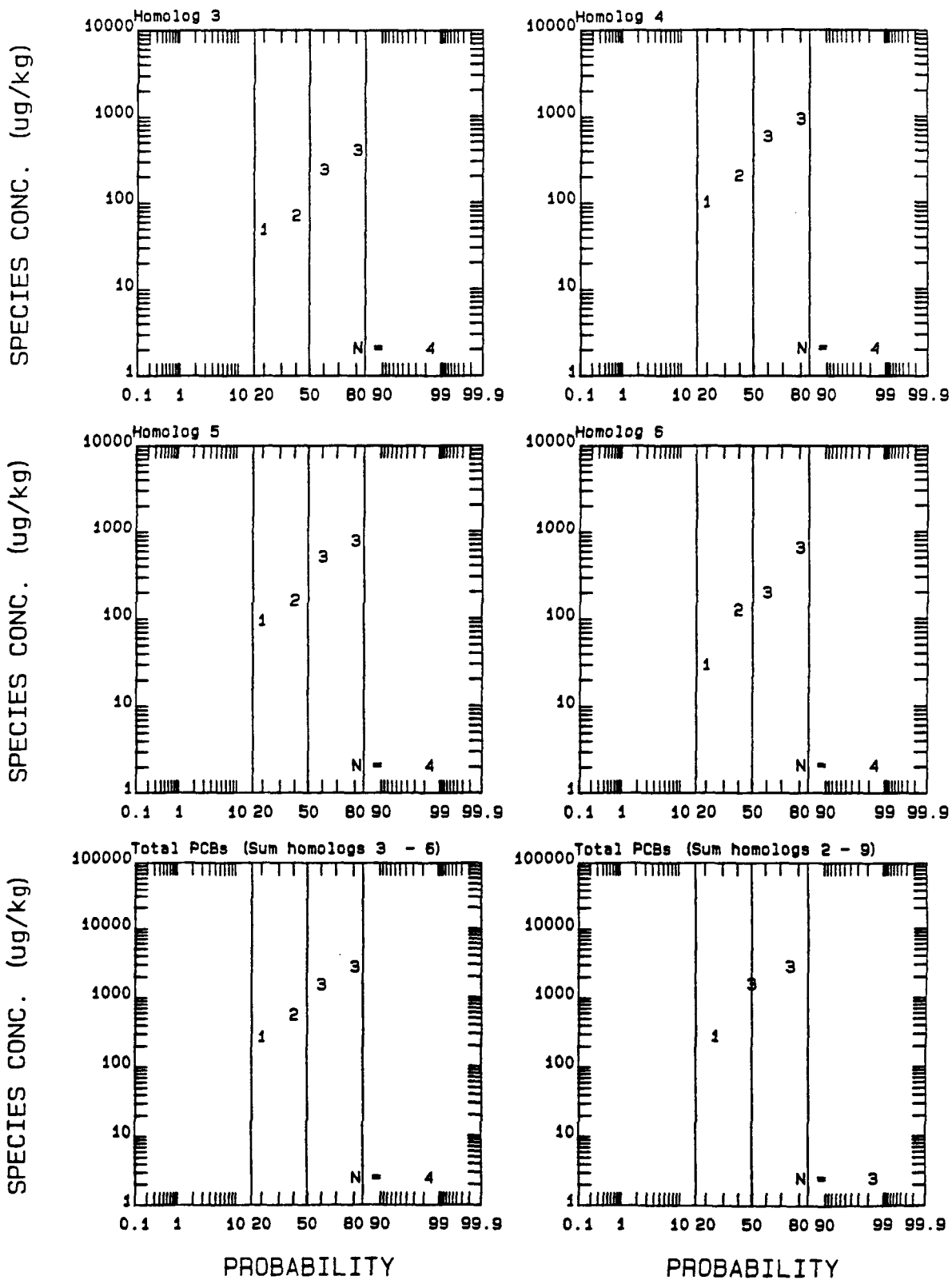
AREA 3, MUSSEL



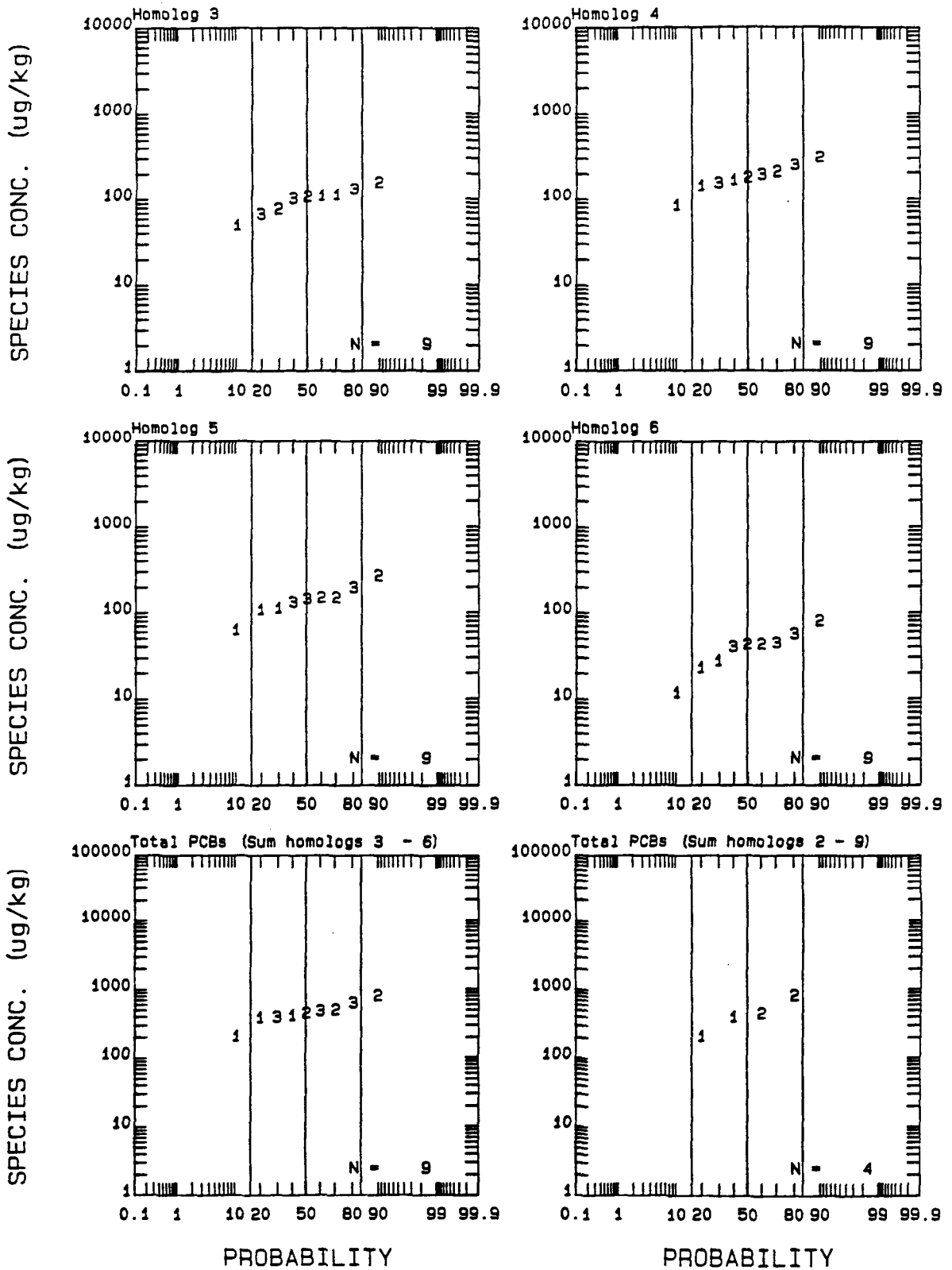
AREA 4, MUSSEL



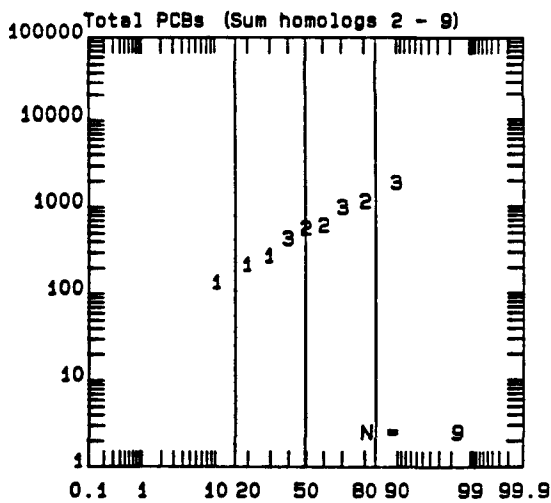
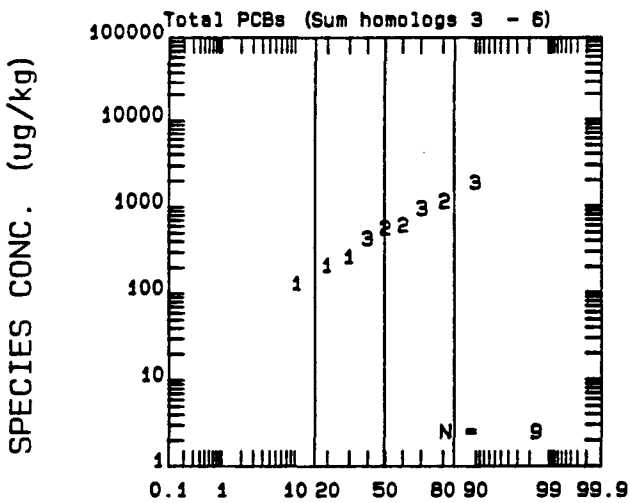
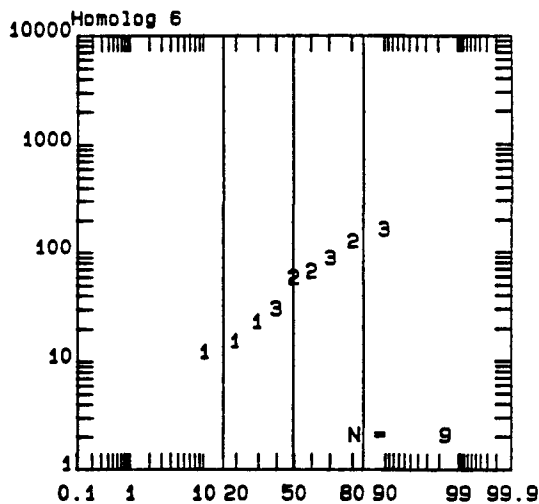
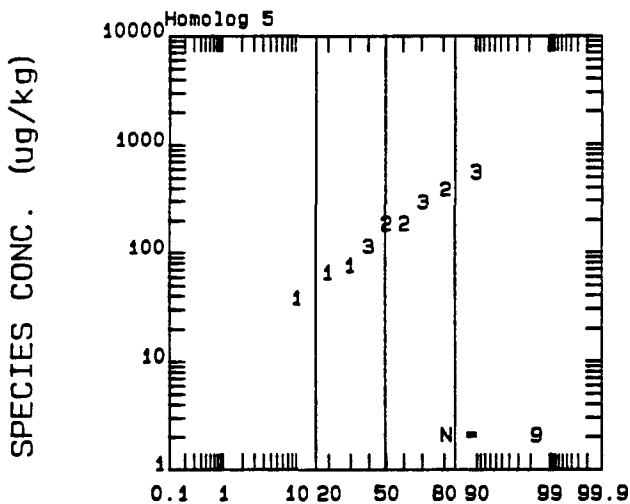
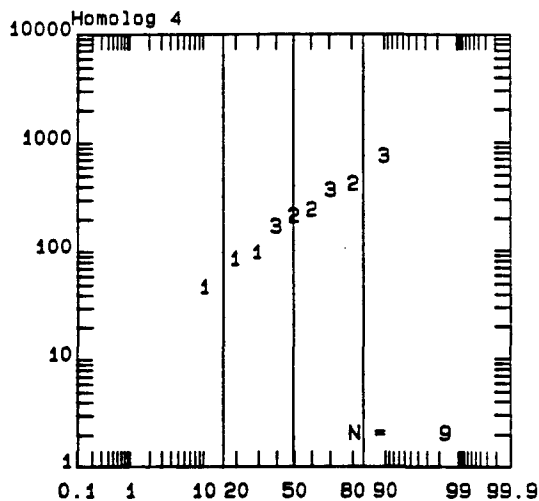
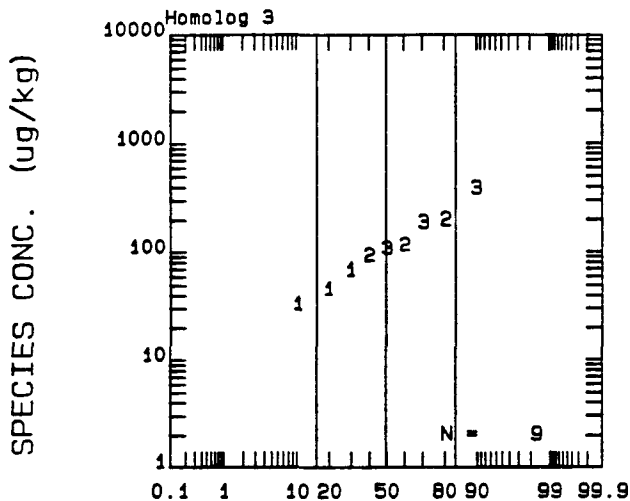
AREA 1, CLAM, SMALL



AREA 1, CLAM, MEDIUM



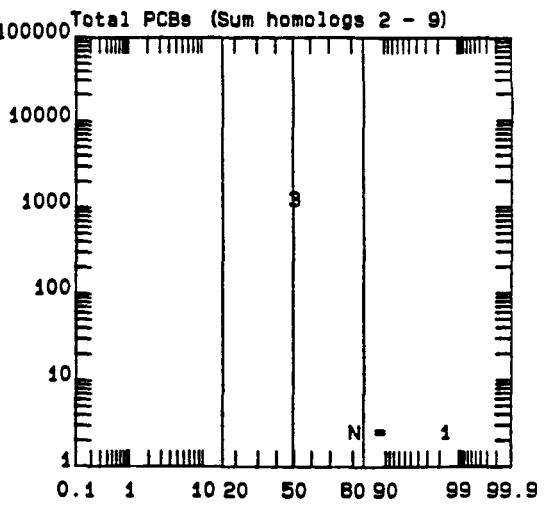
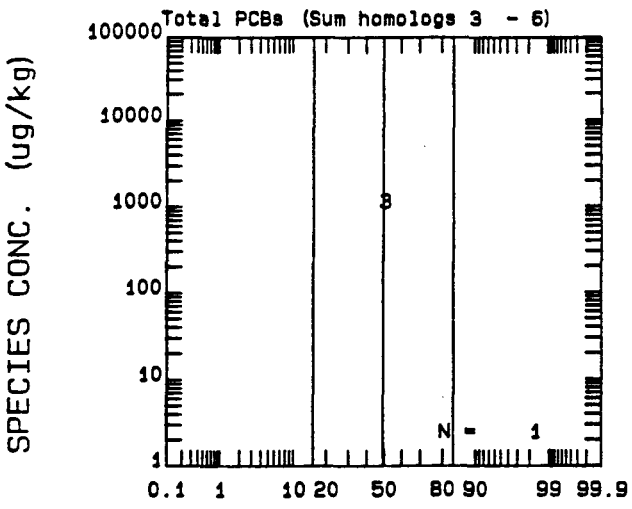
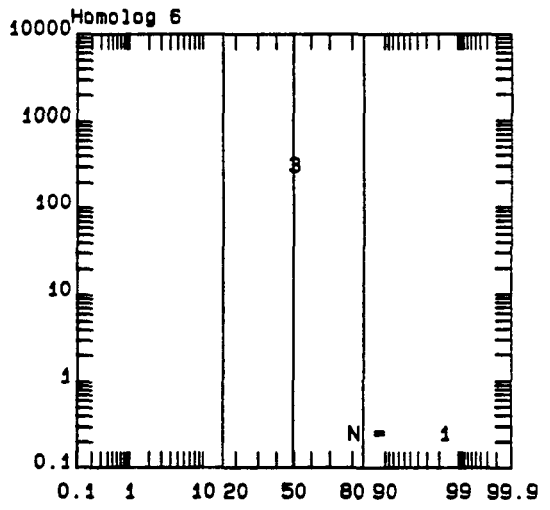
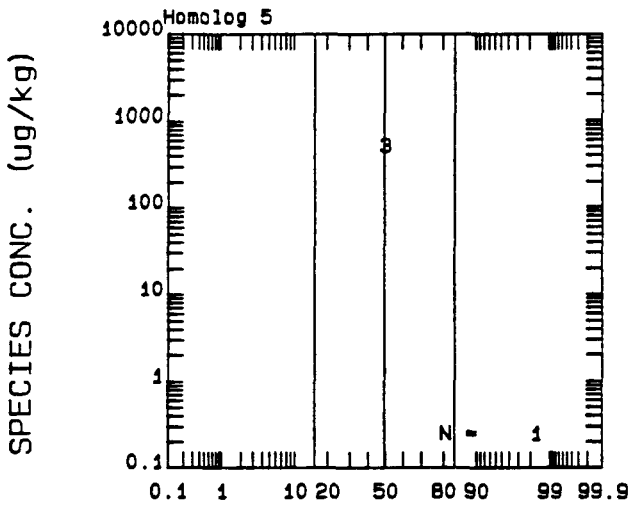
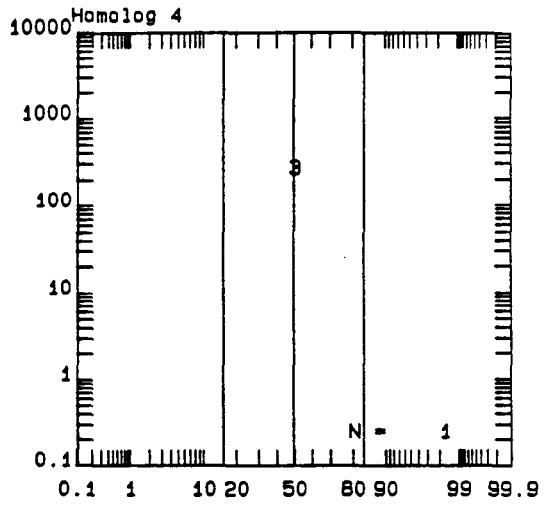
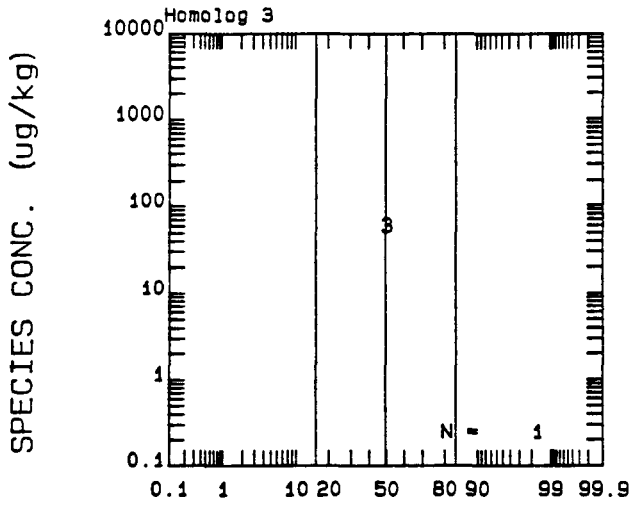
AREA 1, CLAM, LARGE



PROBABILITY

PROBABILITY

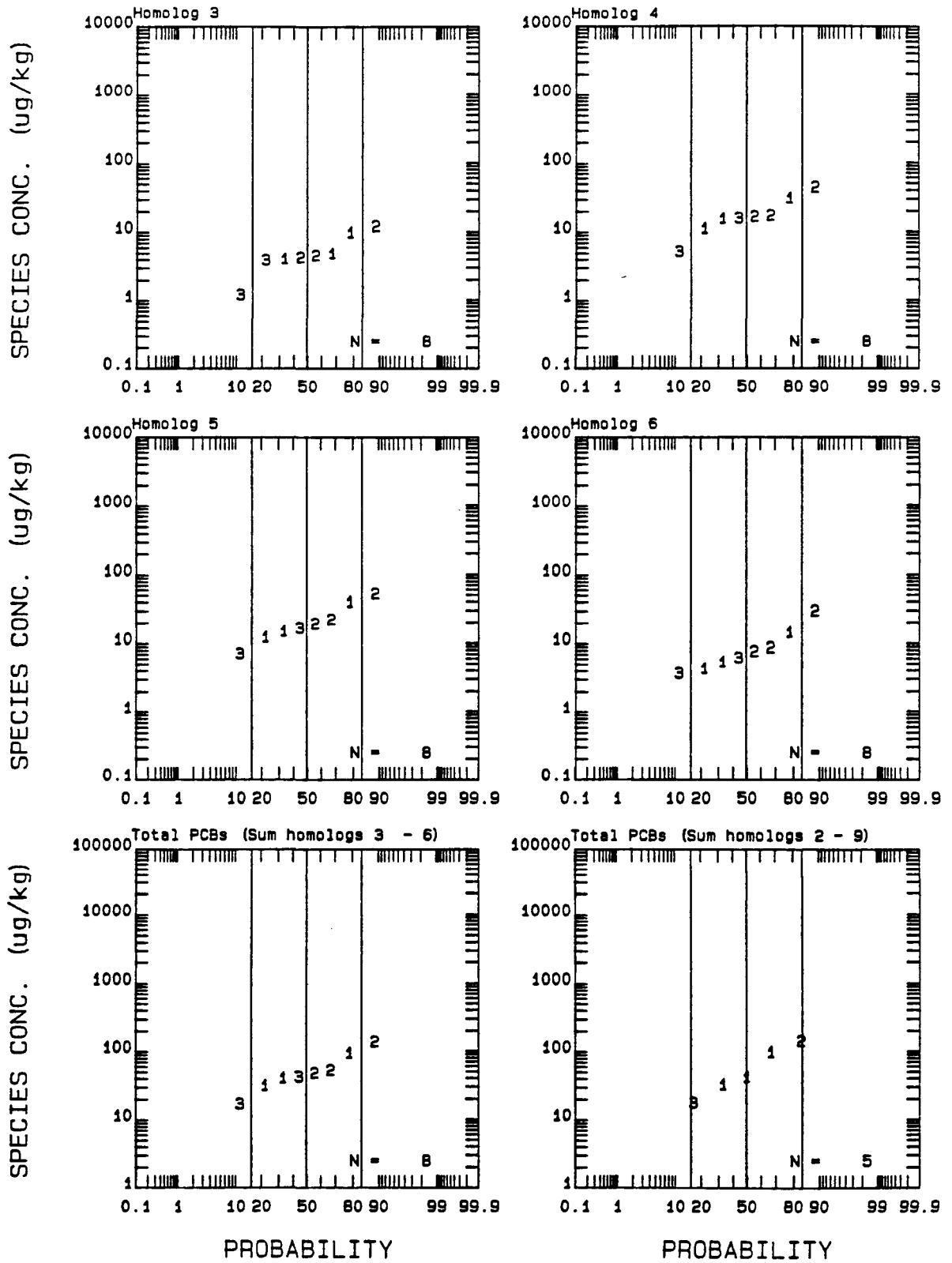
AREA 2, CLAM, SMALL



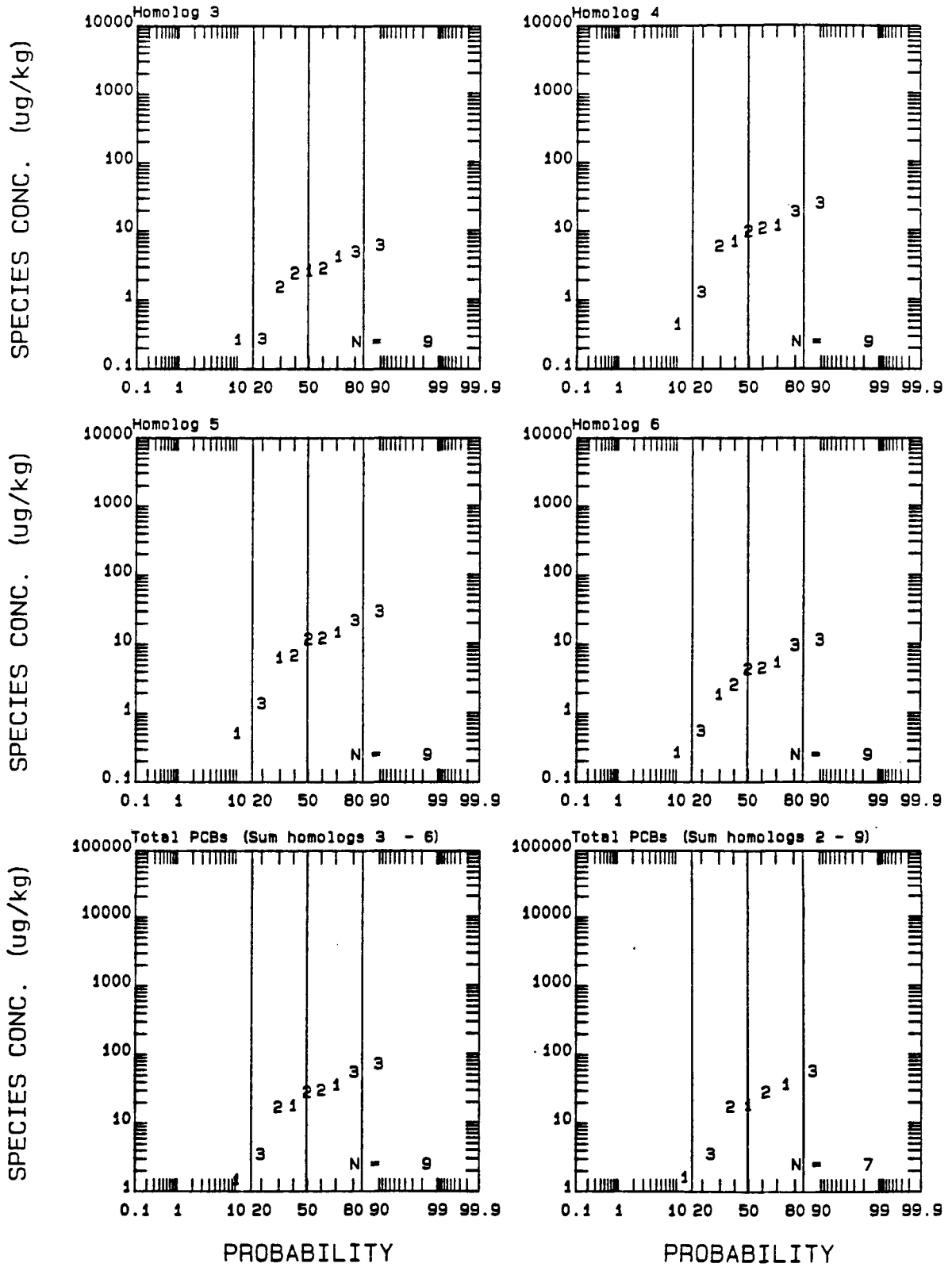
PROBABILITY

PROBABILITY

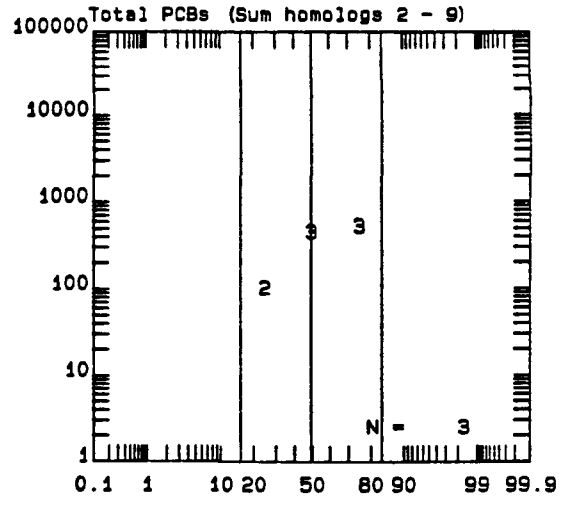
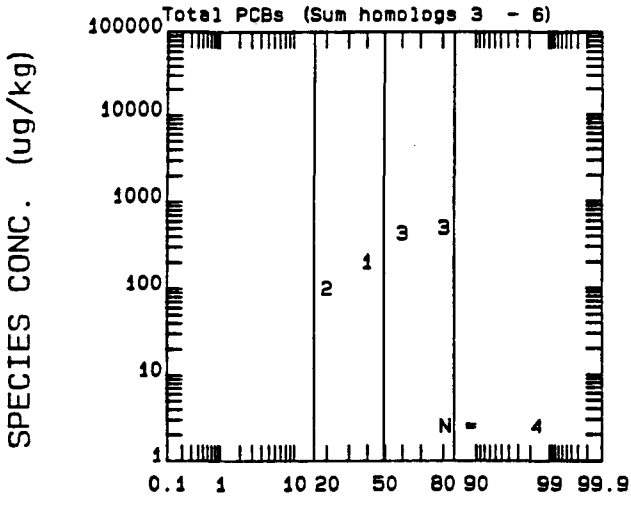
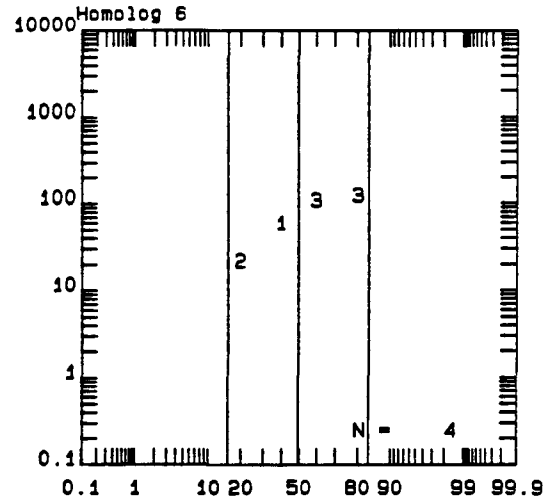
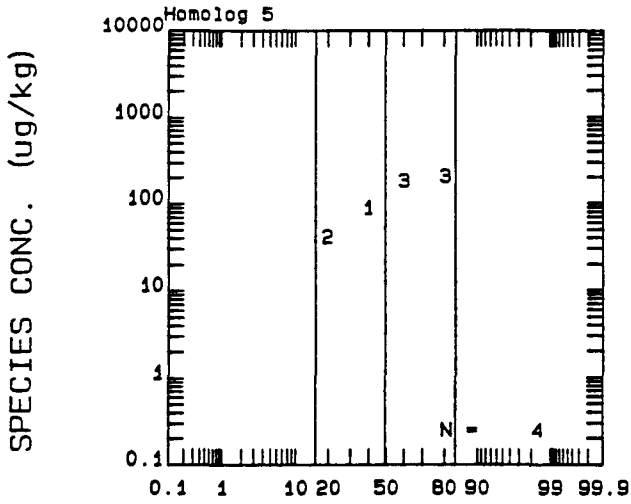
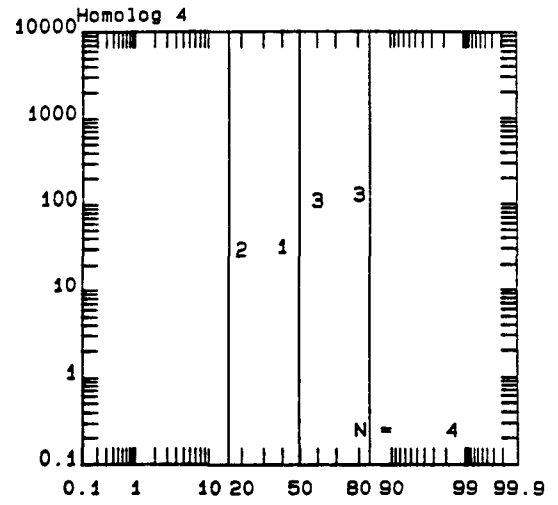
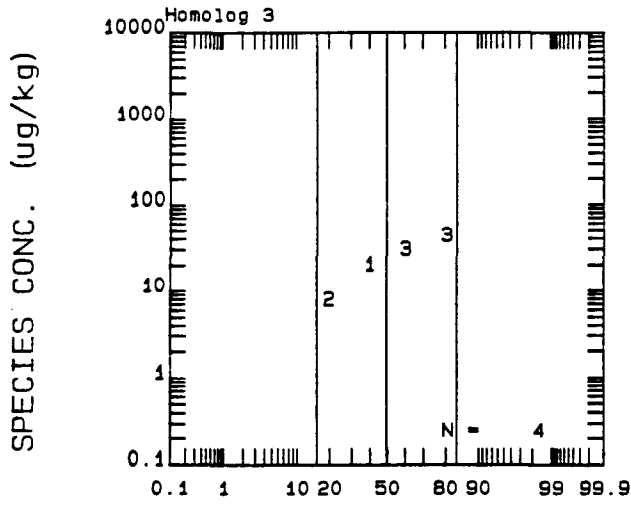
AREA 2, CLAM, MEDIUM



AREA 2, CLAM, LARGE



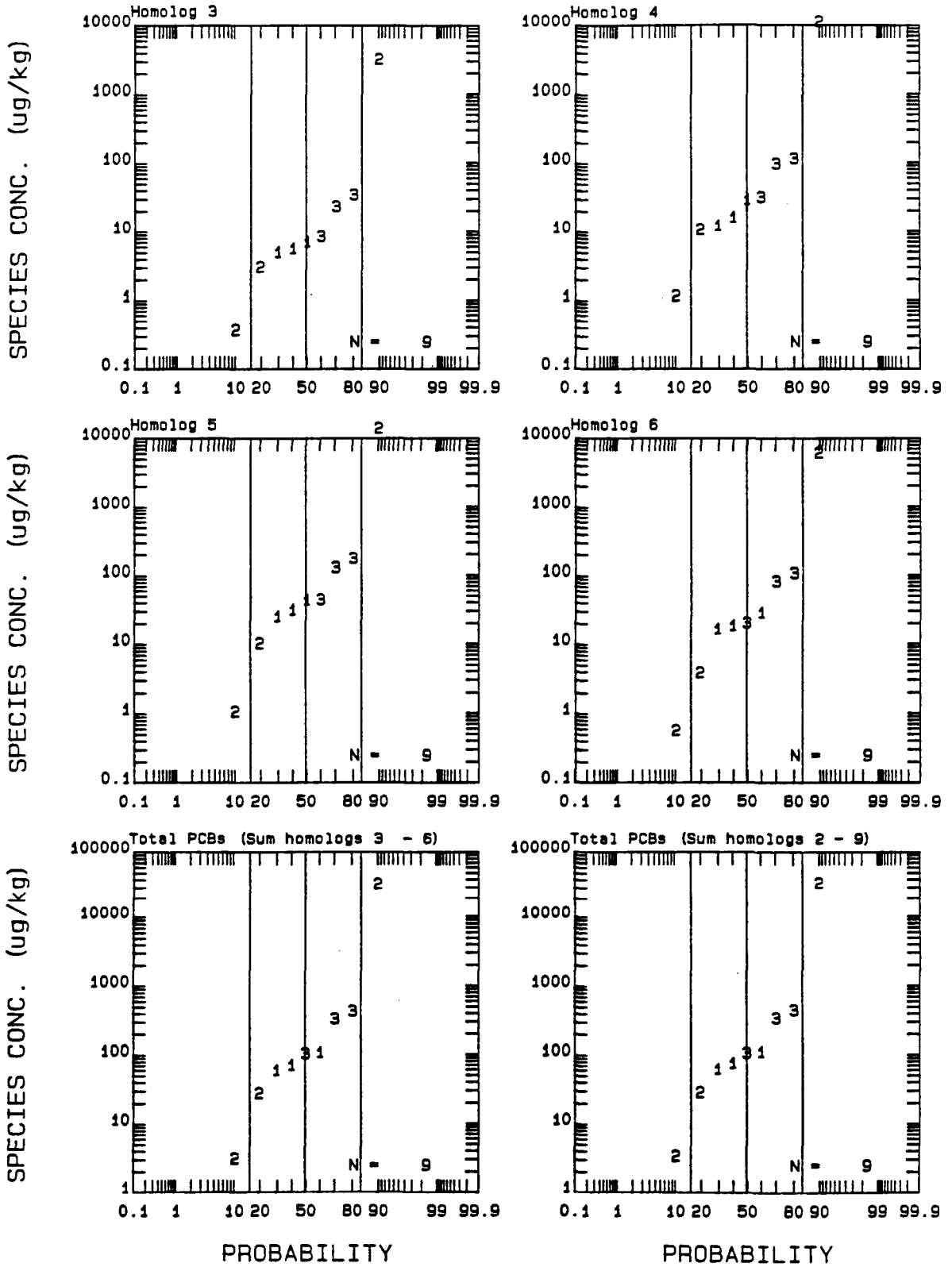
AREA 3, CLAM, SMALL



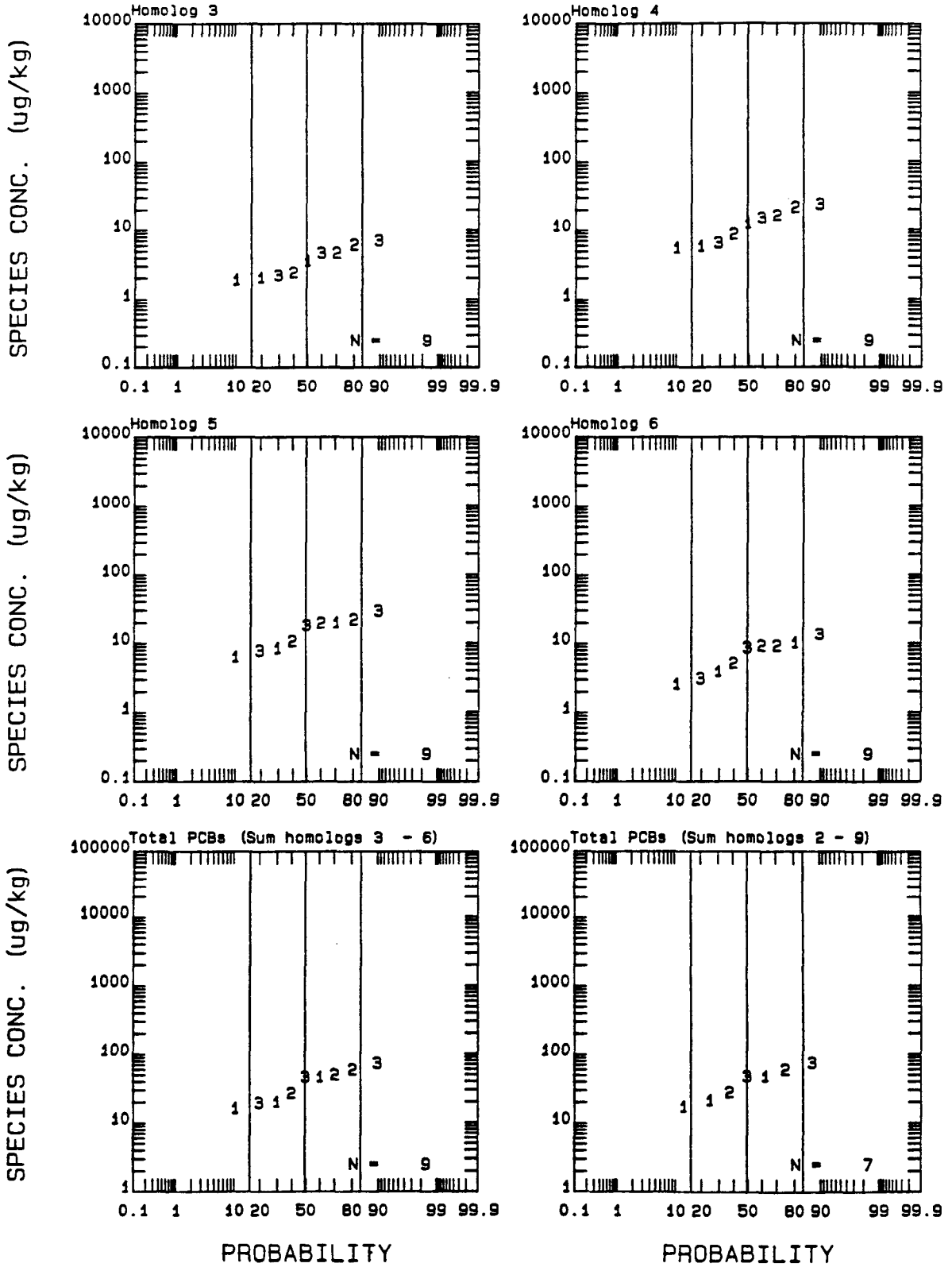
PROBABILITY

PROBABILITY

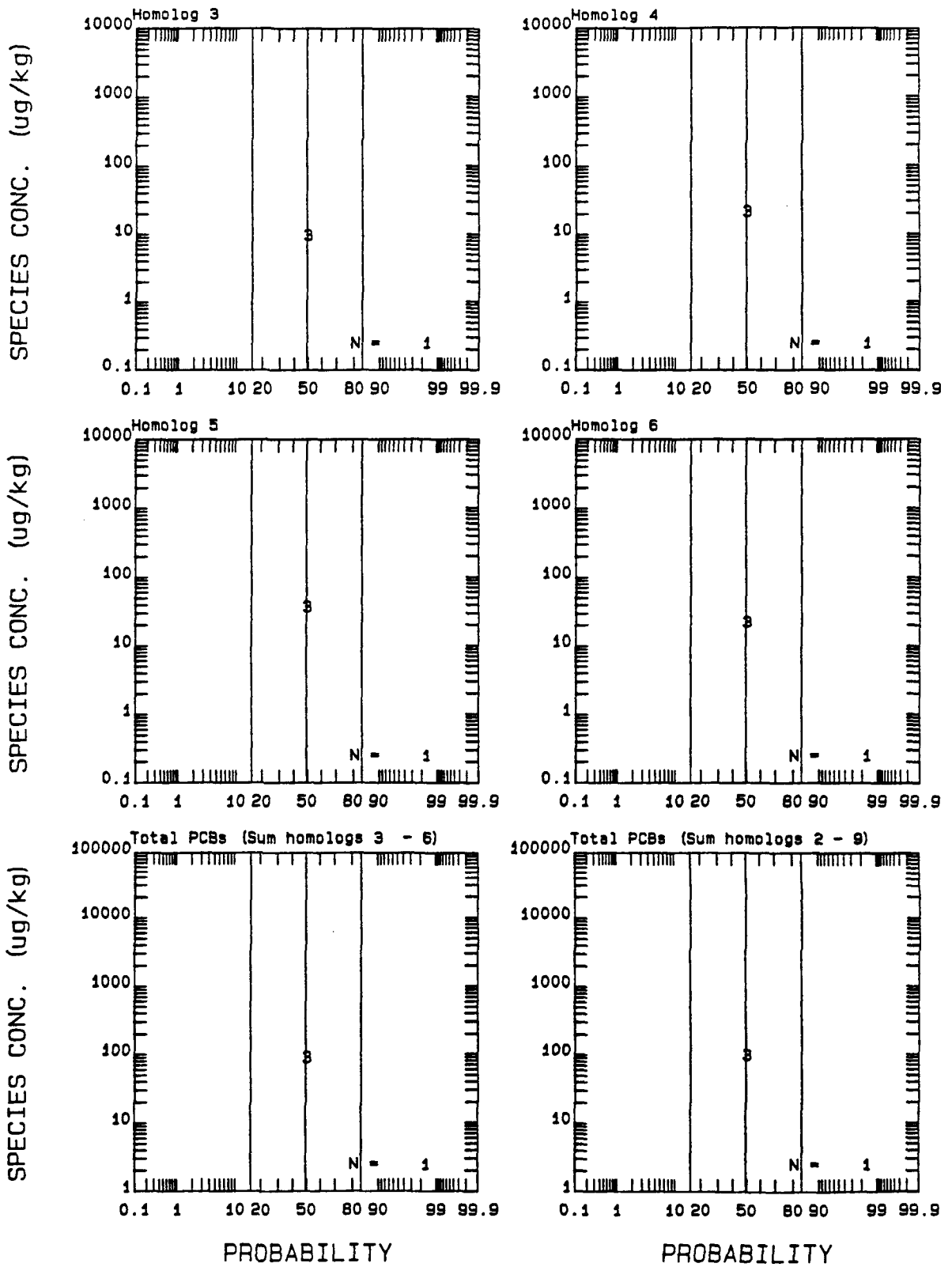
AREA 3, CLAM, MEDIUM



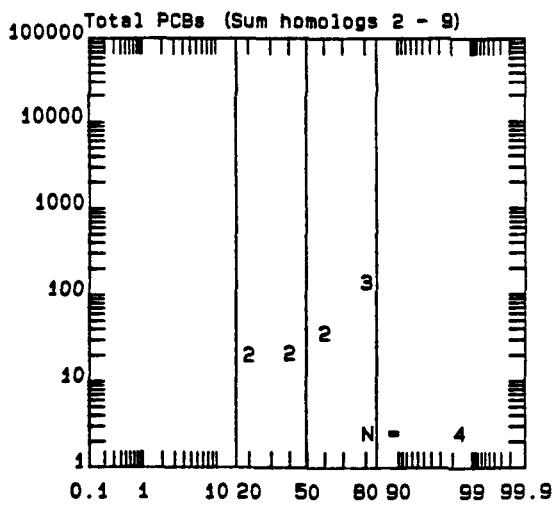
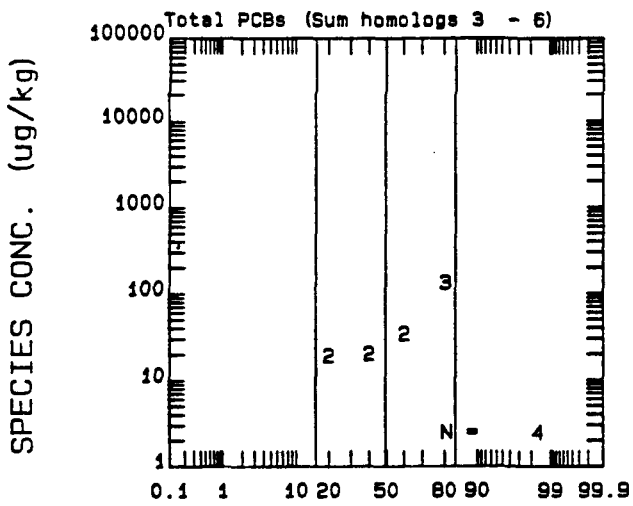
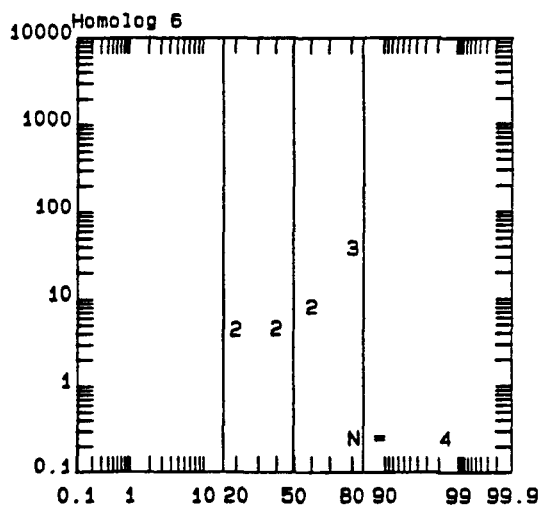
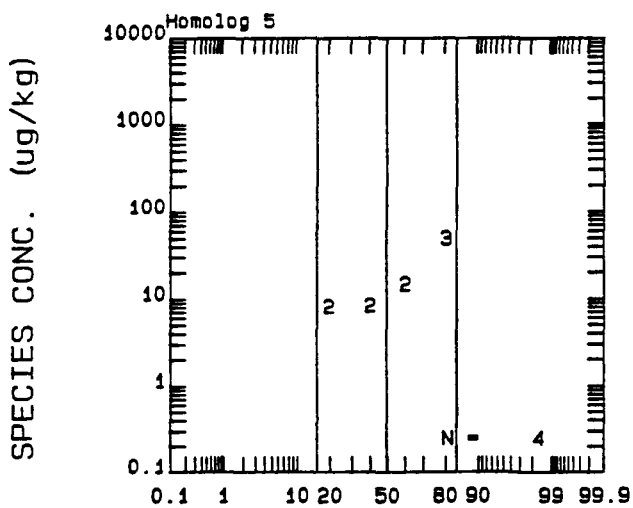
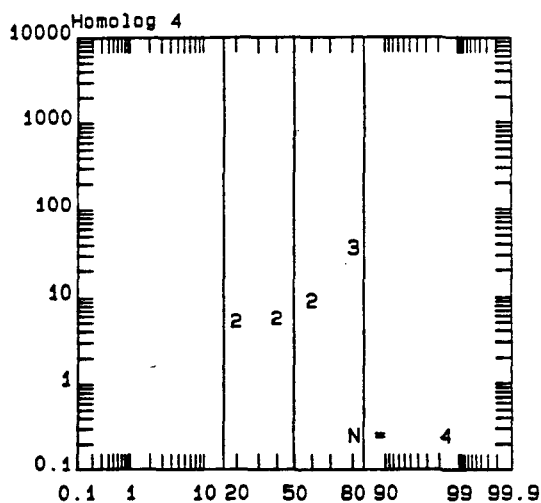
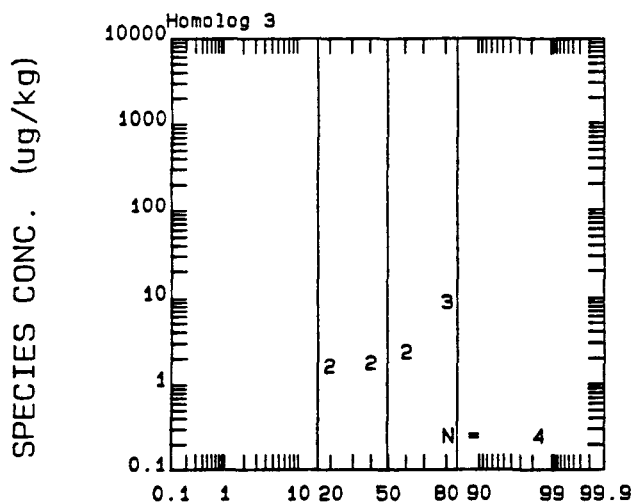
AREA 3, CLAM, LARGE



AREA 4, CLAM, SMALL



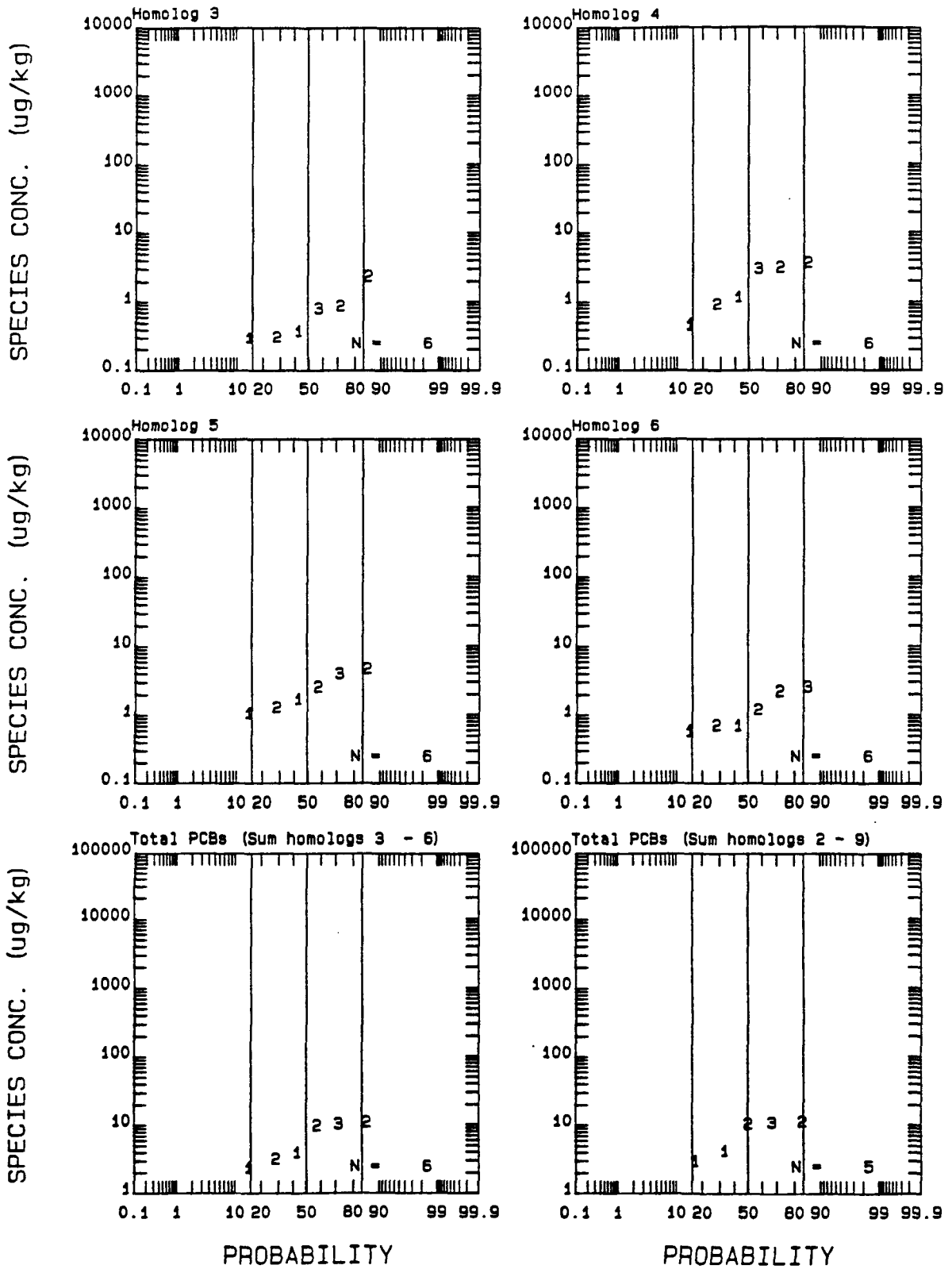
AREA 4, CLAM, MEDIUM



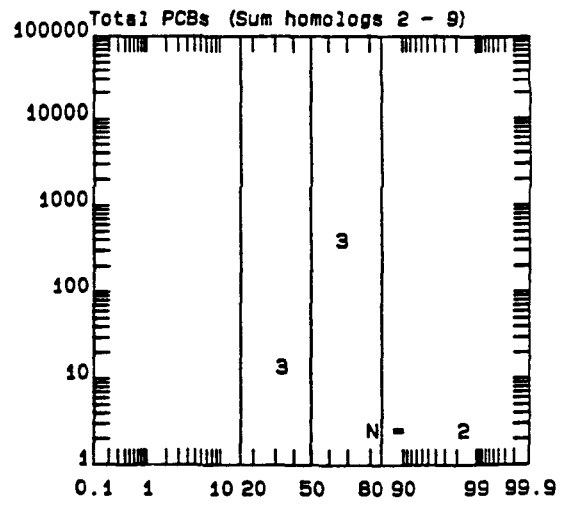
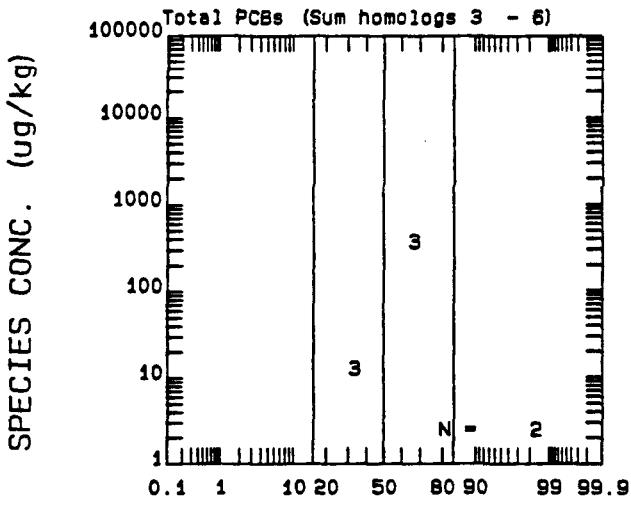
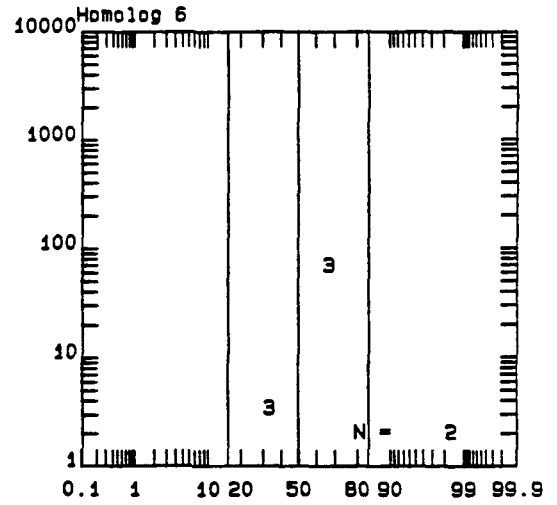
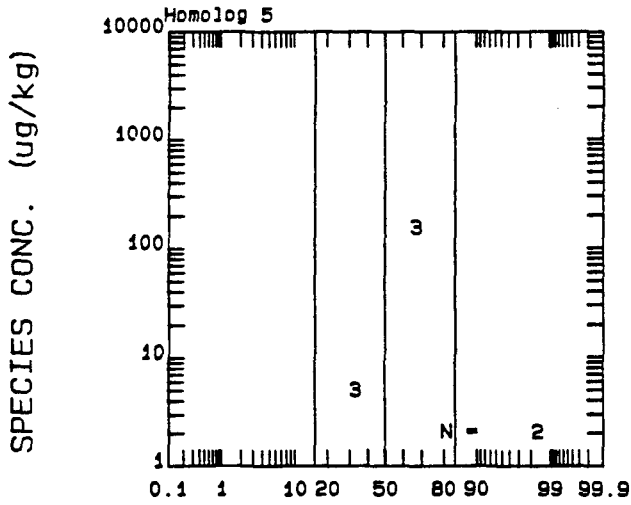
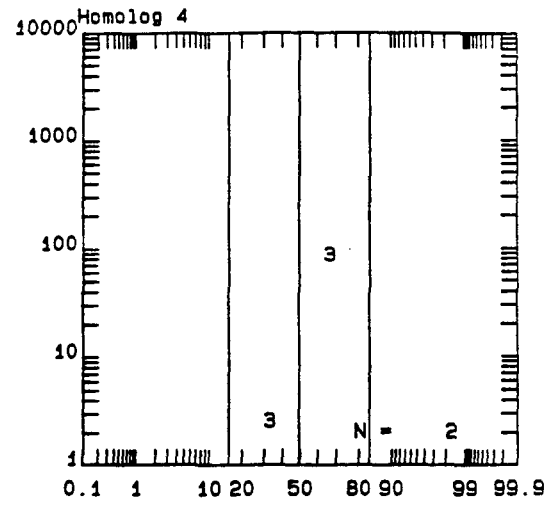
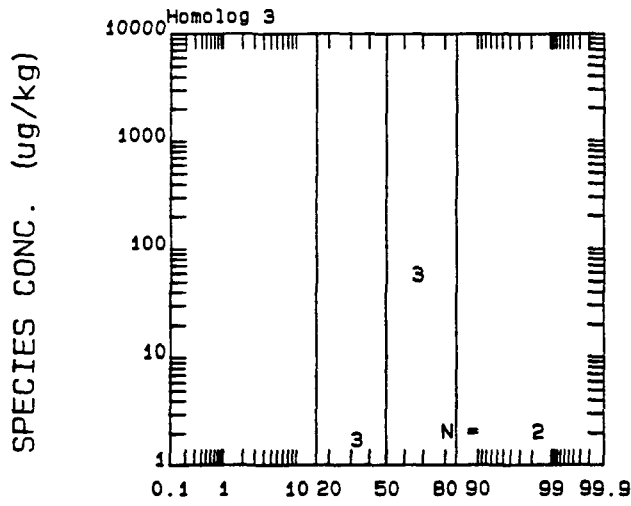
PROBABILITY

PROBABILITY

AREA 4, CLAM, LARGE



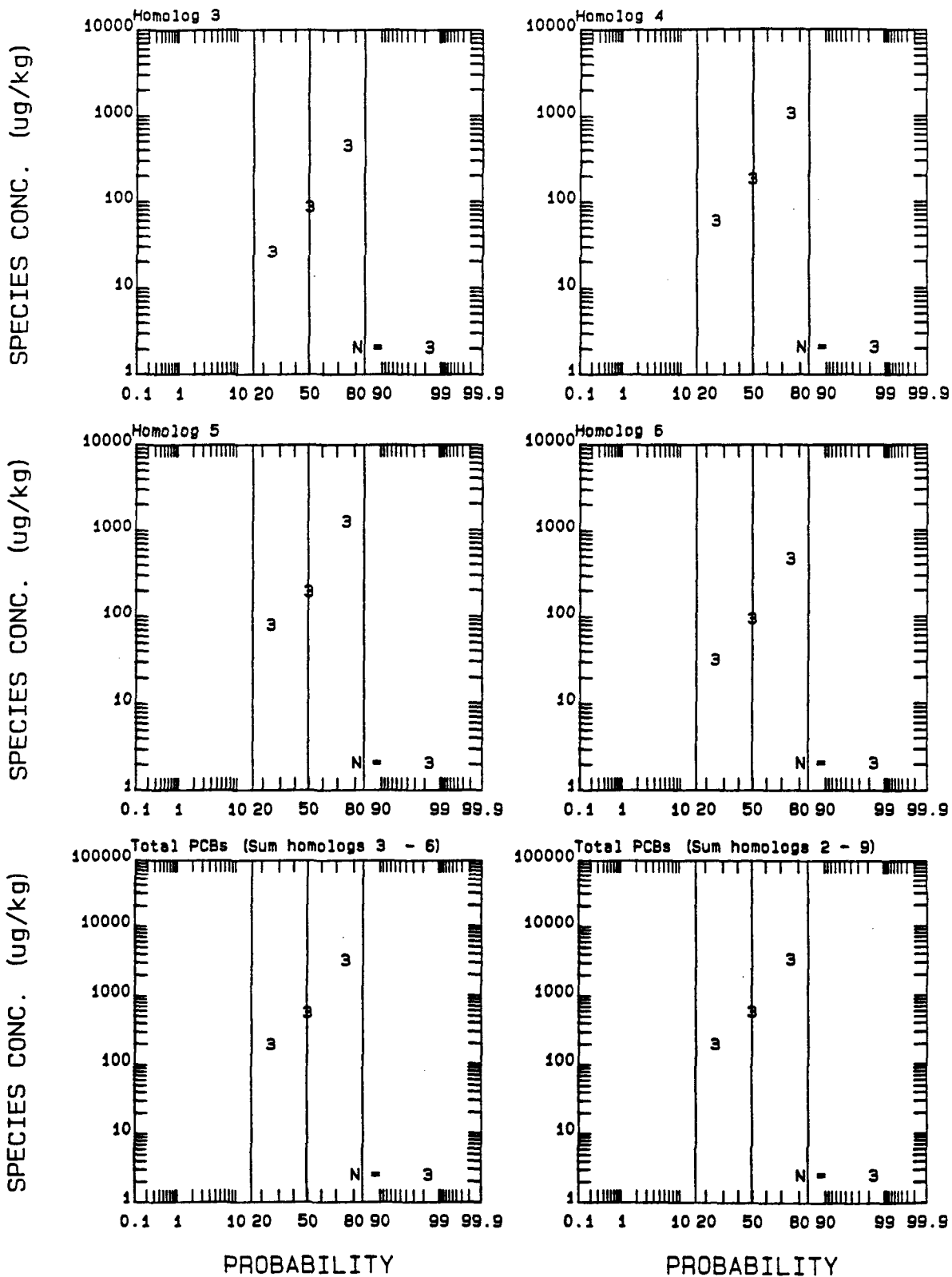
AREA 1, GREEN CRAB, SMALL



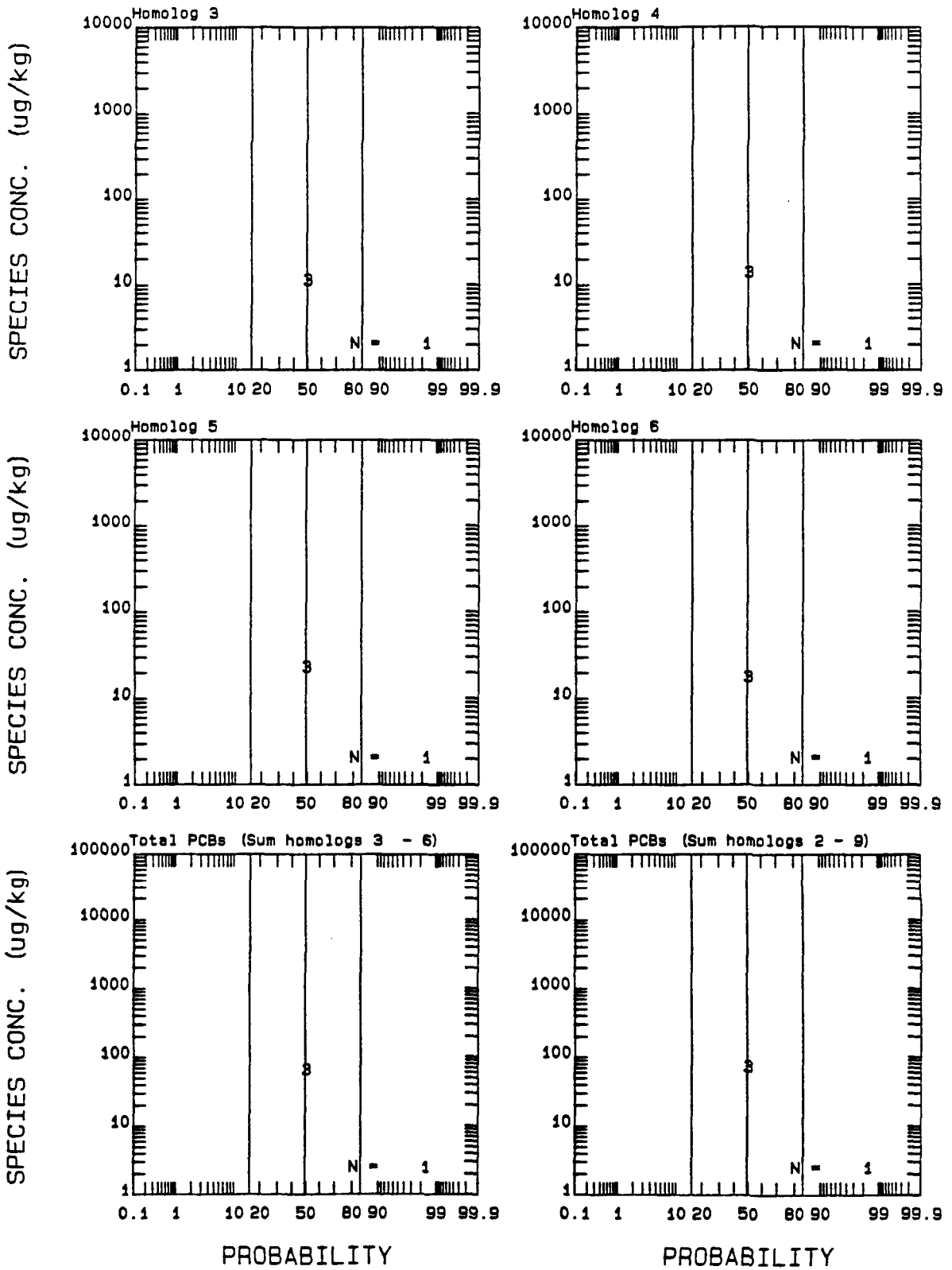
PROBABILITY

PROBABILITY

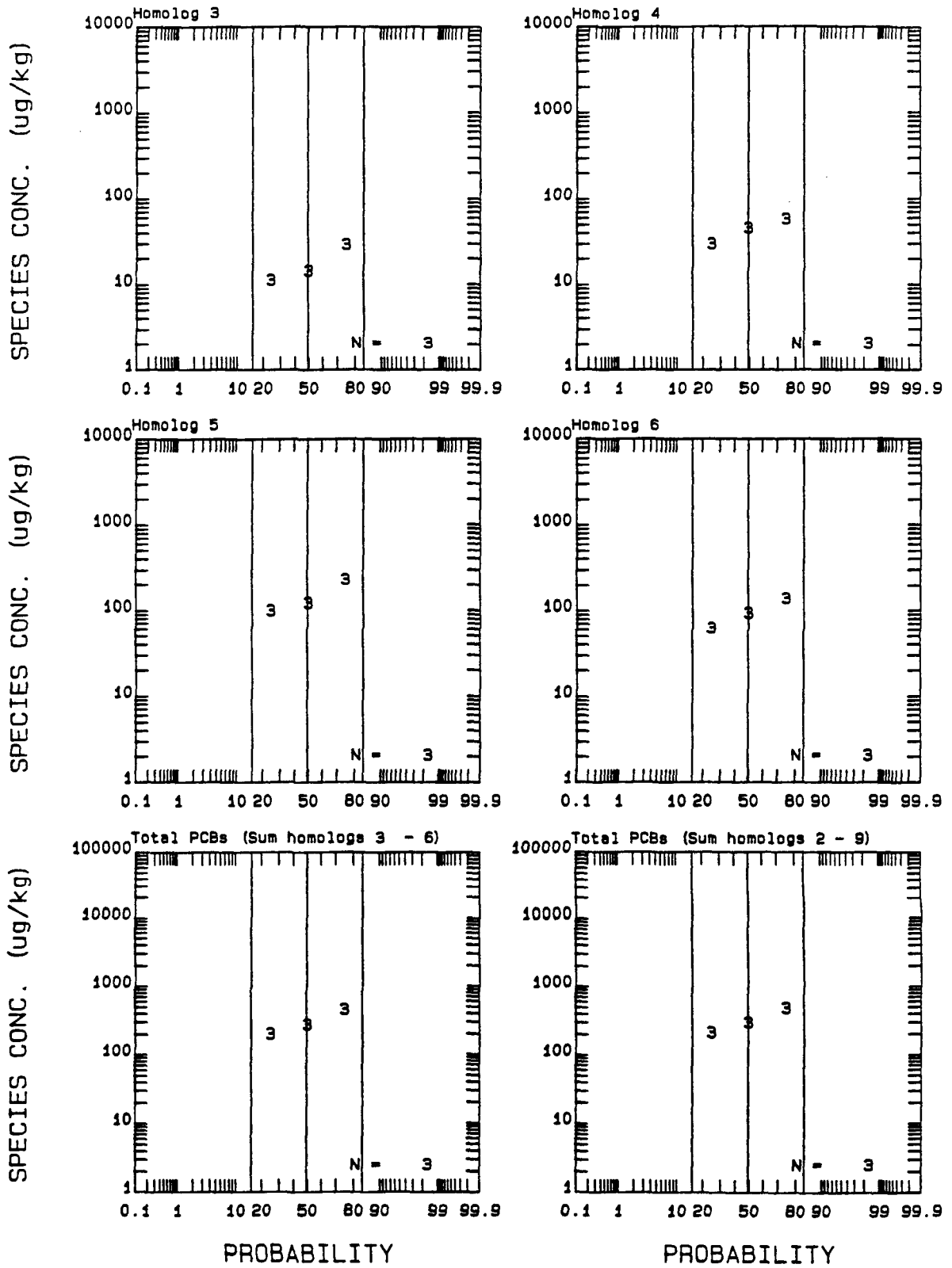
AREA 1, GREEN CRAB, LARGE



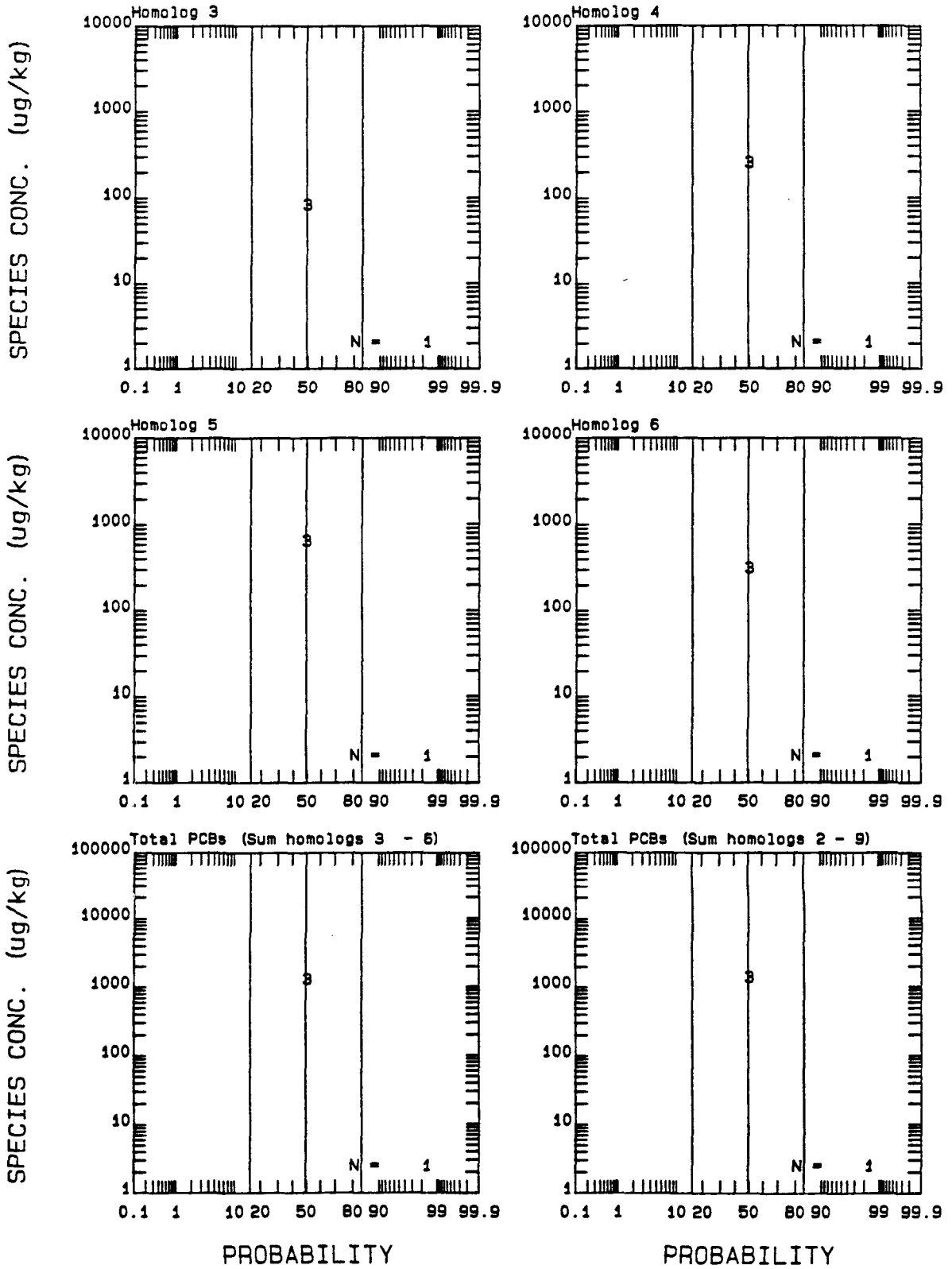
AREA 2, GREEN CRAB, SMALL



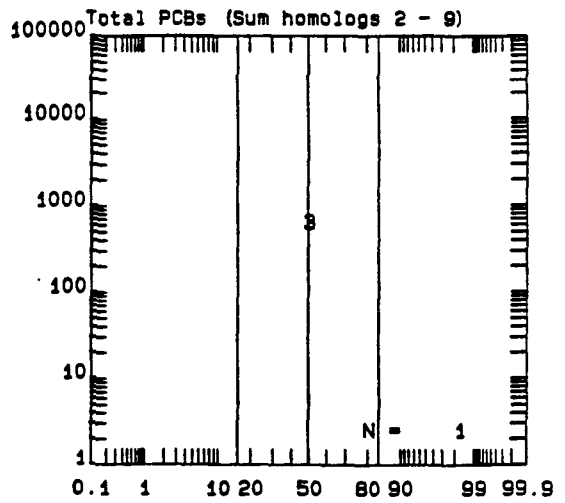
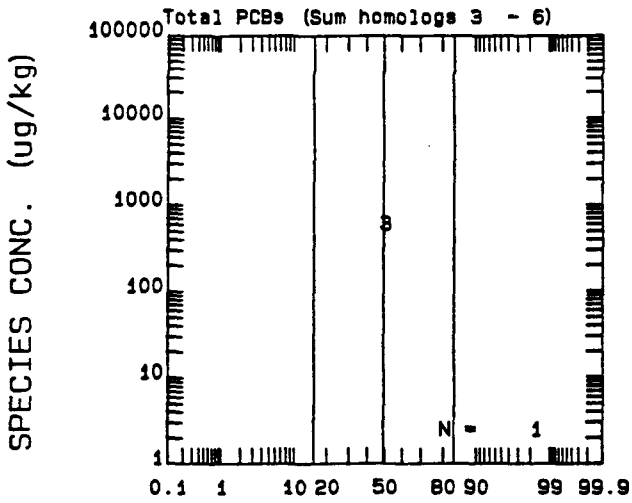
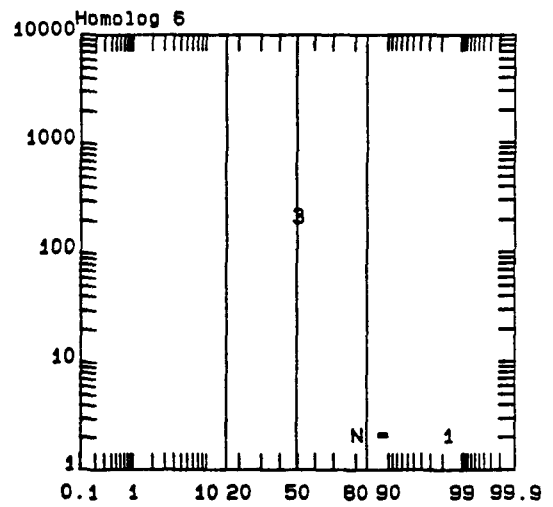
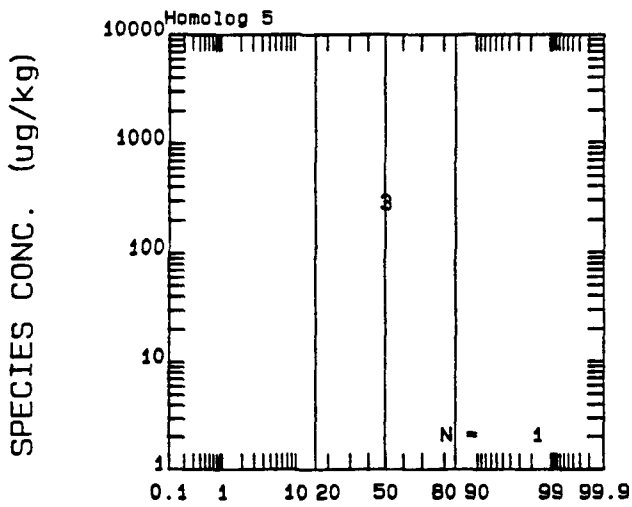
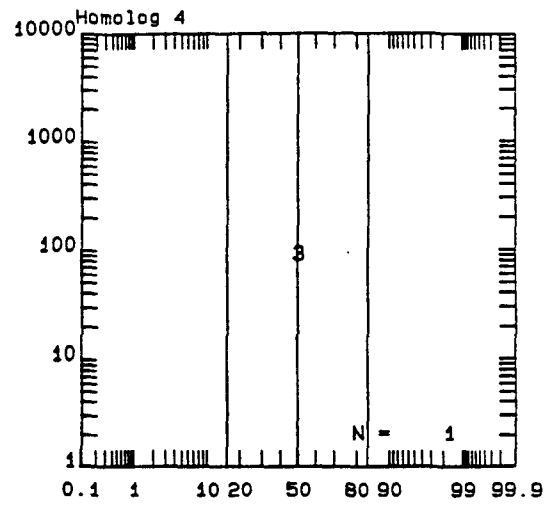
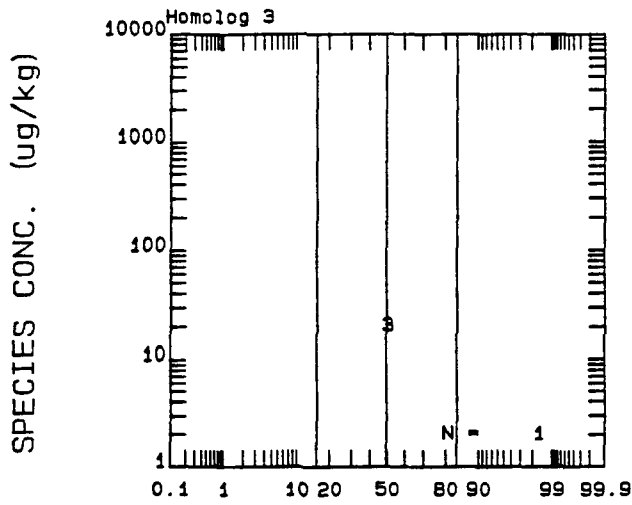
AREA 2, GREEN CRAB, LARGE



AREA 3, GREEN CRAB, SMALL



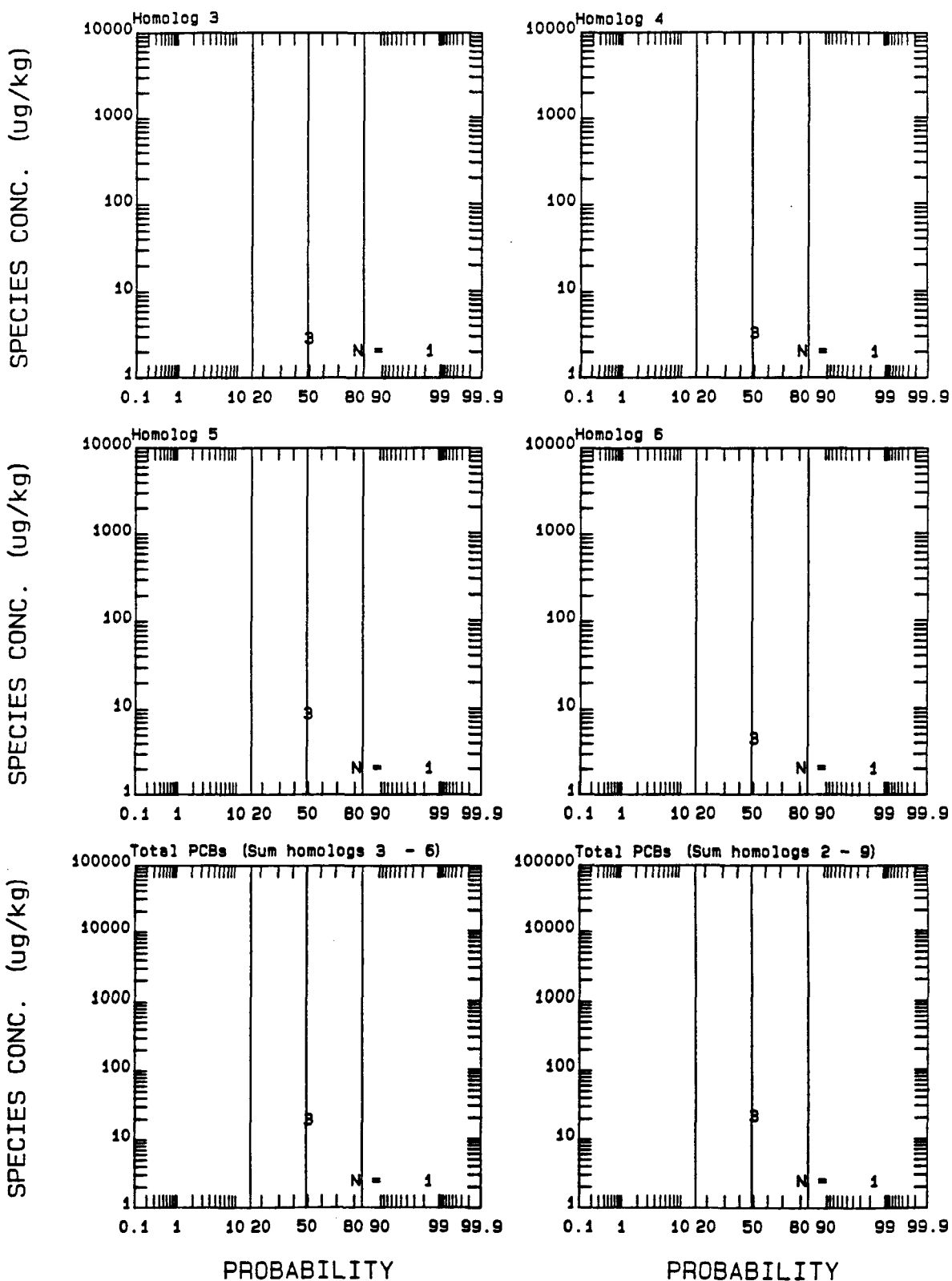
AREA 3, GREEN CRAB, LARGE



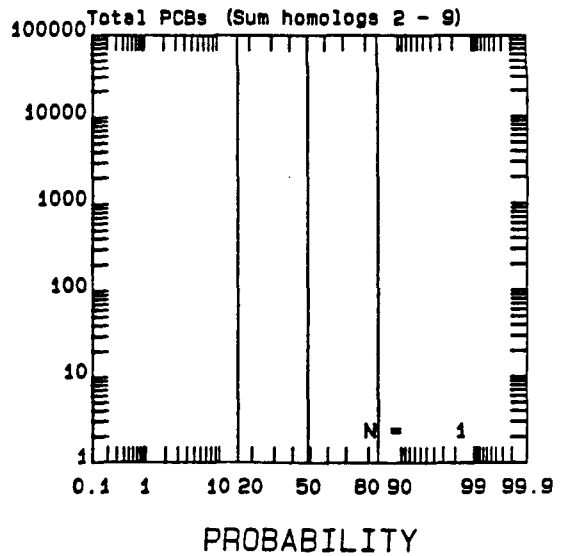
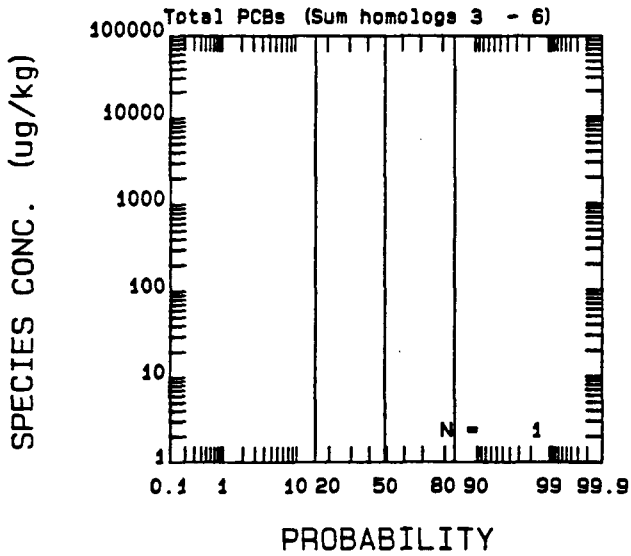
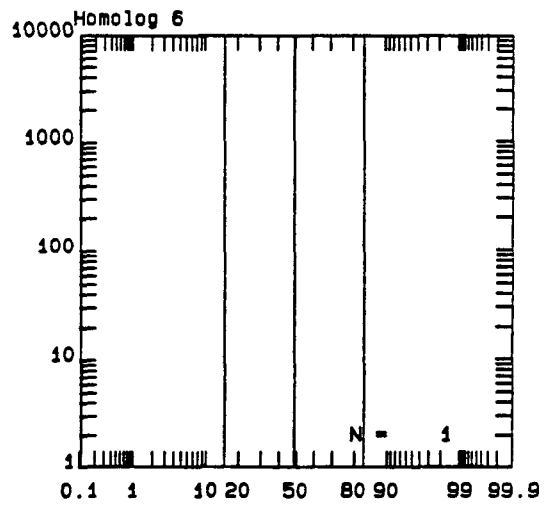
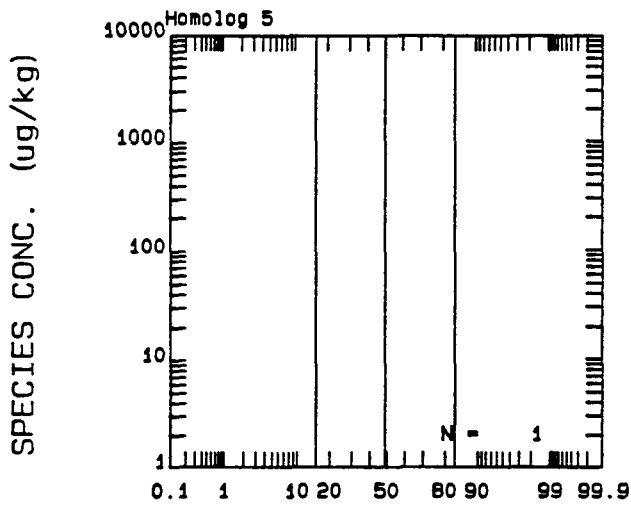
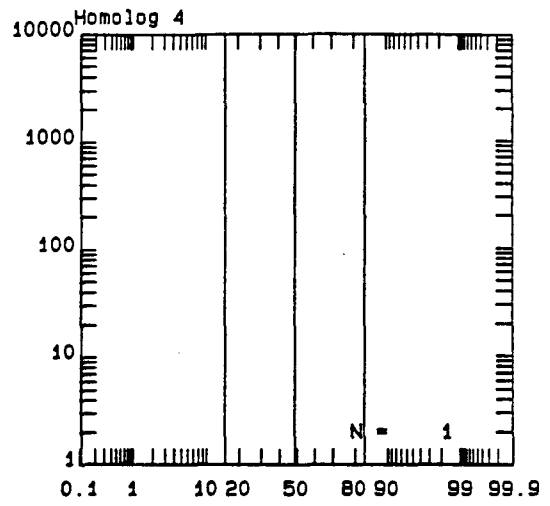
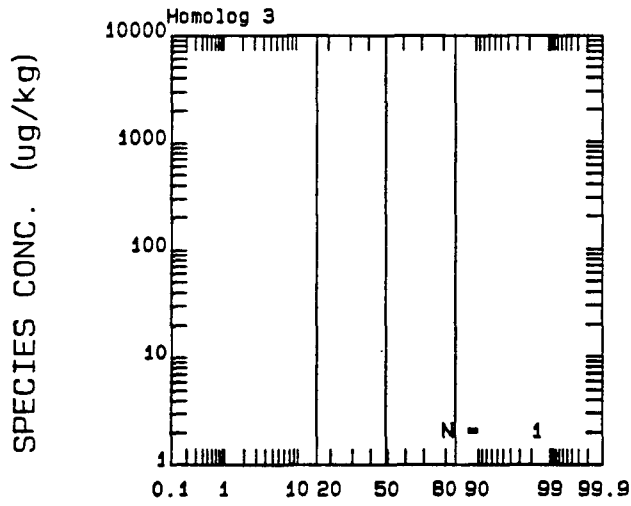
PROBABILITY

PROBABILITY

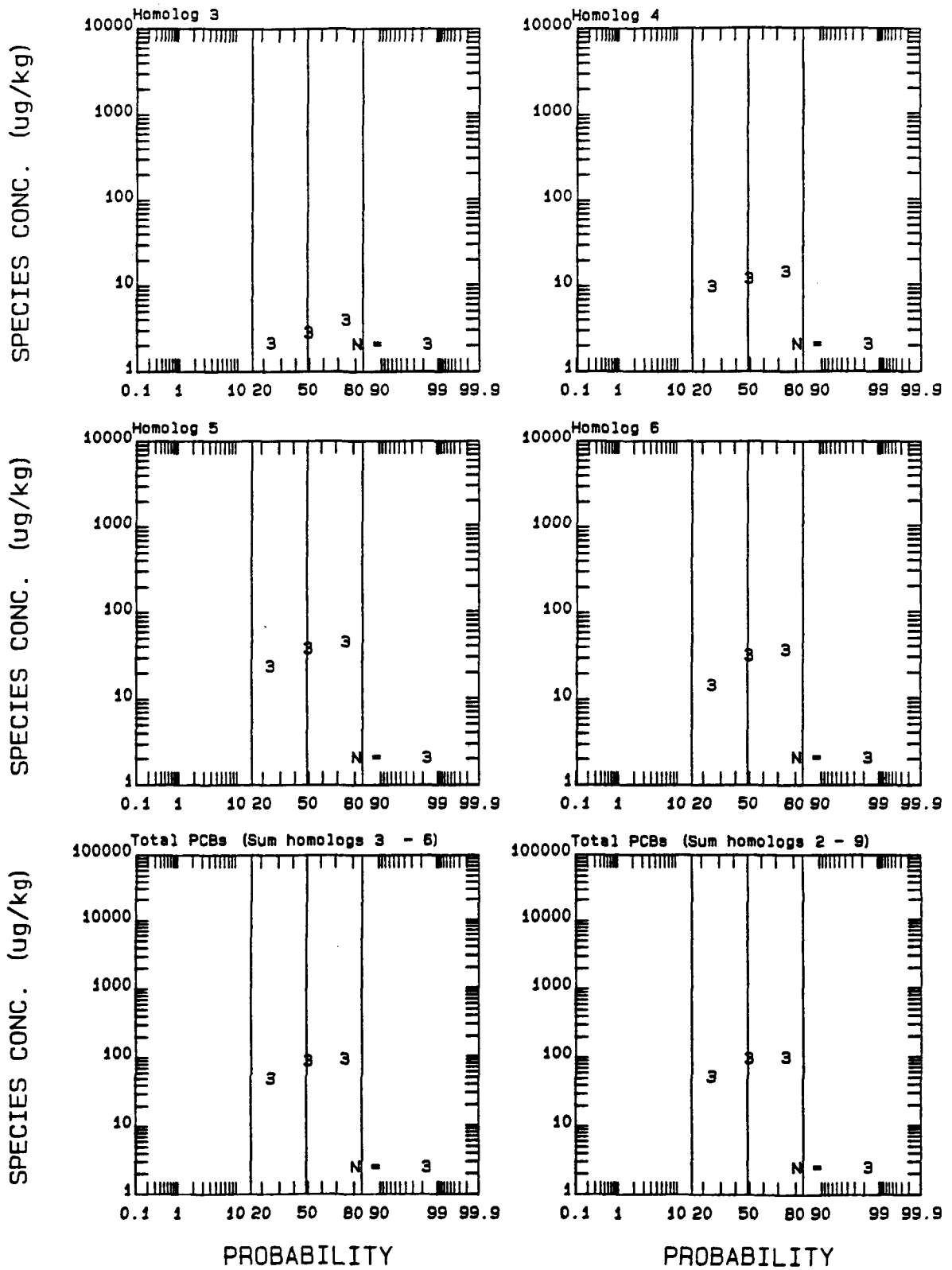
AREA 4, GREEN CRAB, SMALL



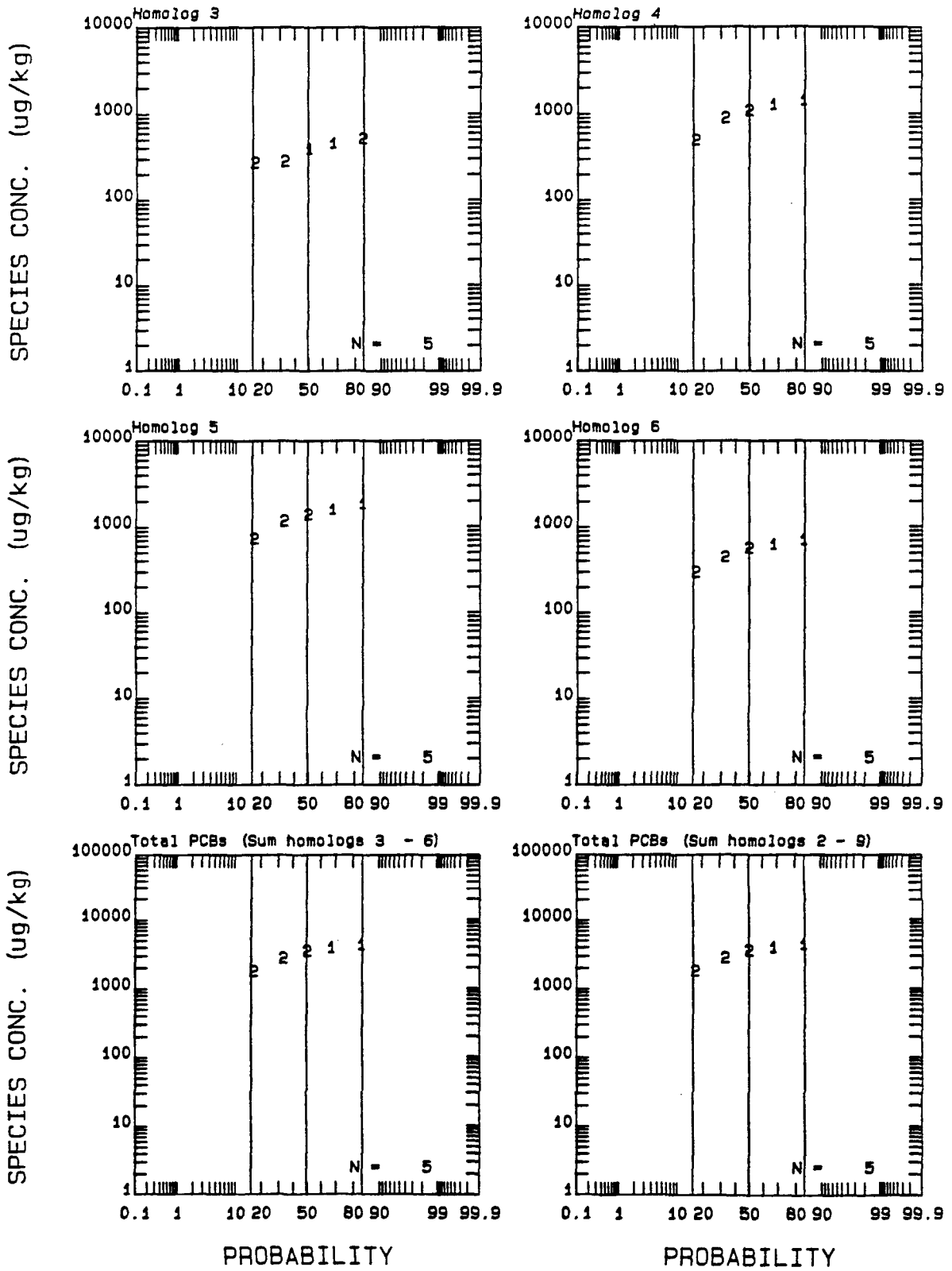
AREA 4, GREEN CRAB, MEDIUM



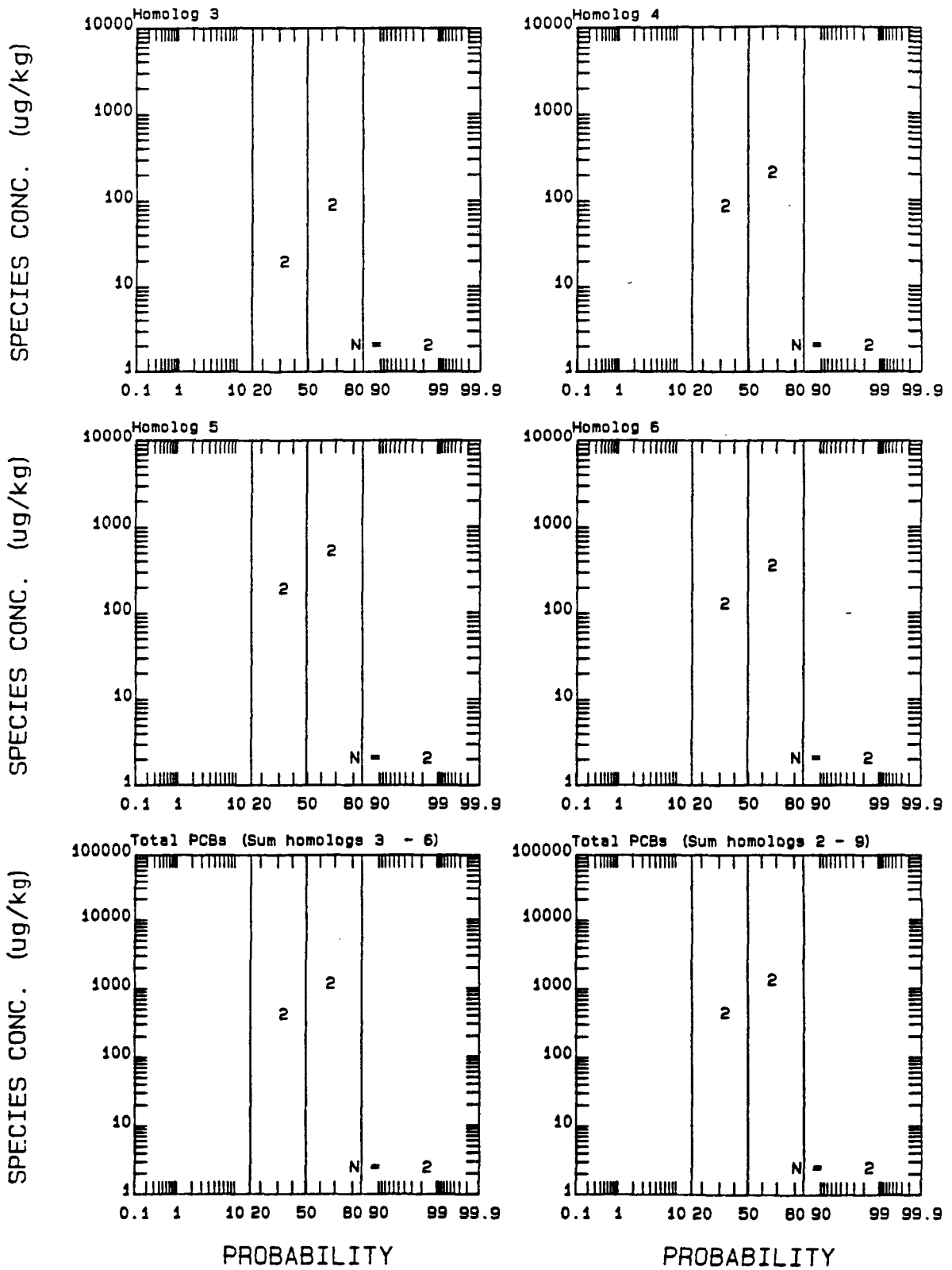
AREA 4, GREEN CRAB, LARGE



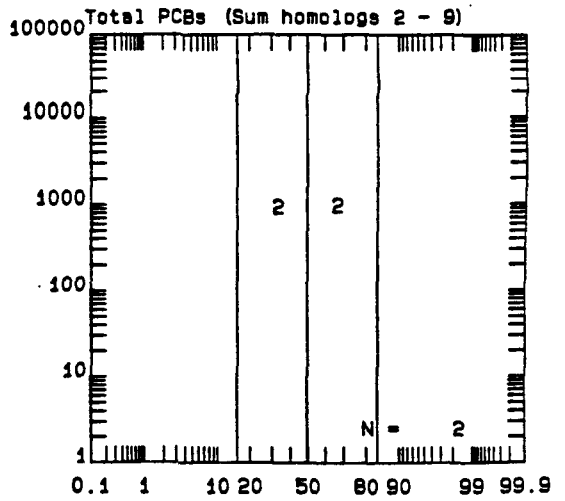
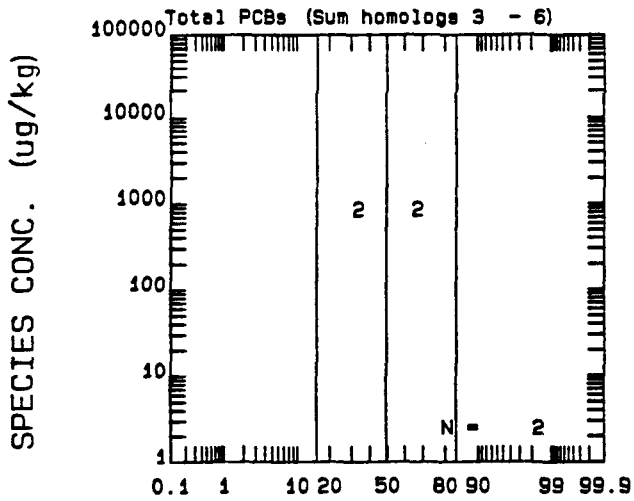
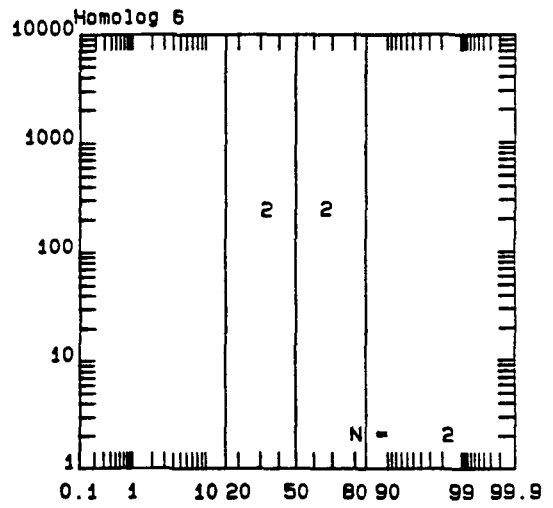
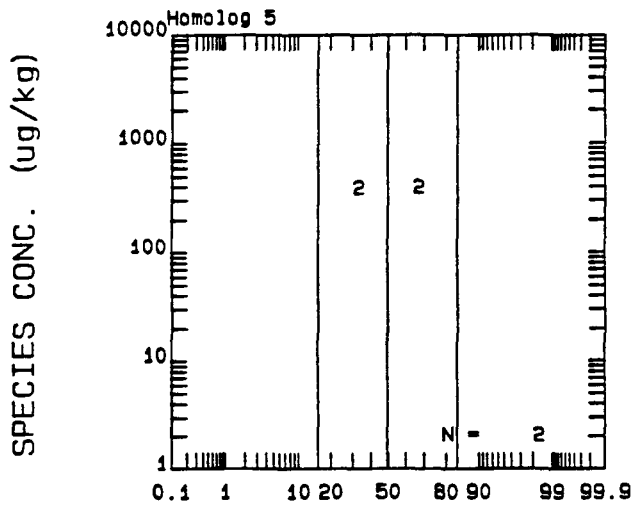
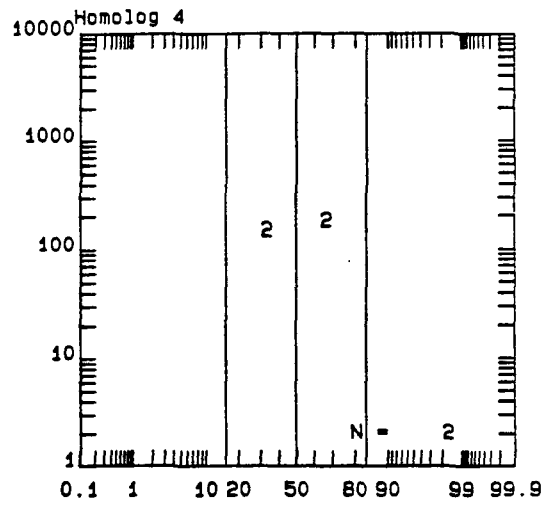
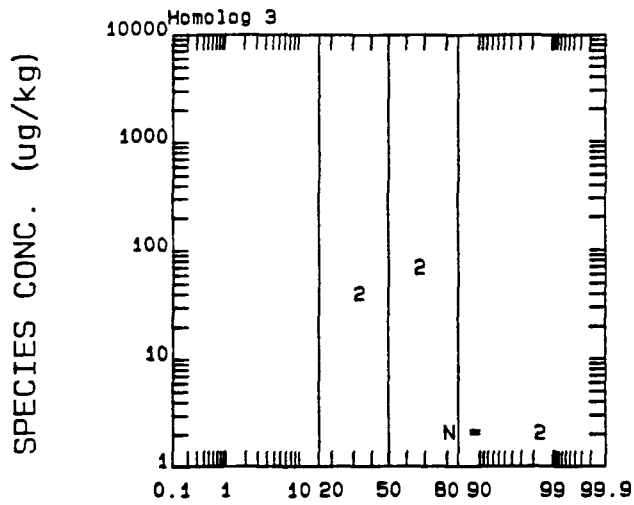
AREA 1, SPIDER CRAB, LARGE



AREA 2, SPIDER CRAB, SMALL



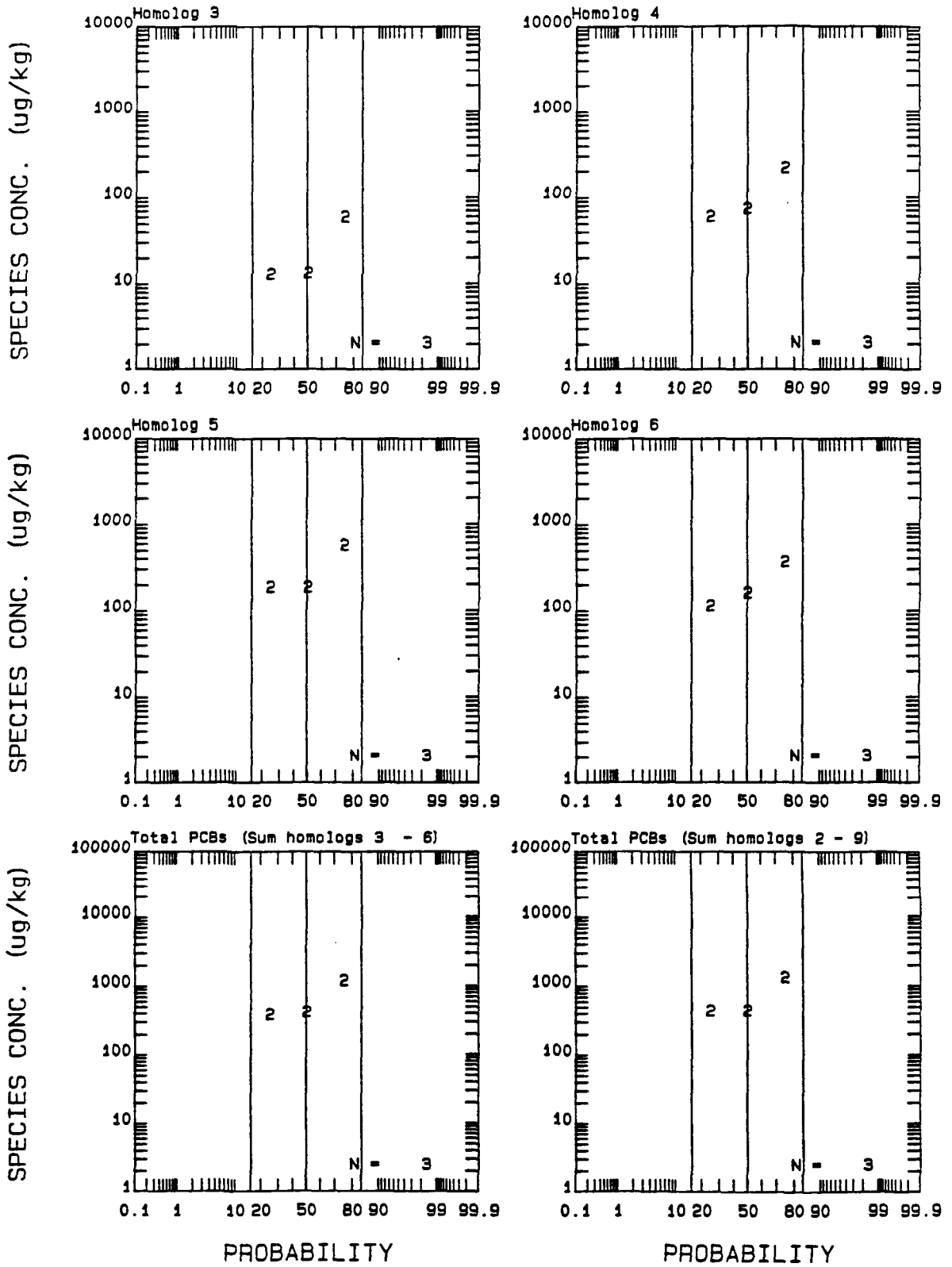
AREA 2, SPIDER CRAB, LARGE



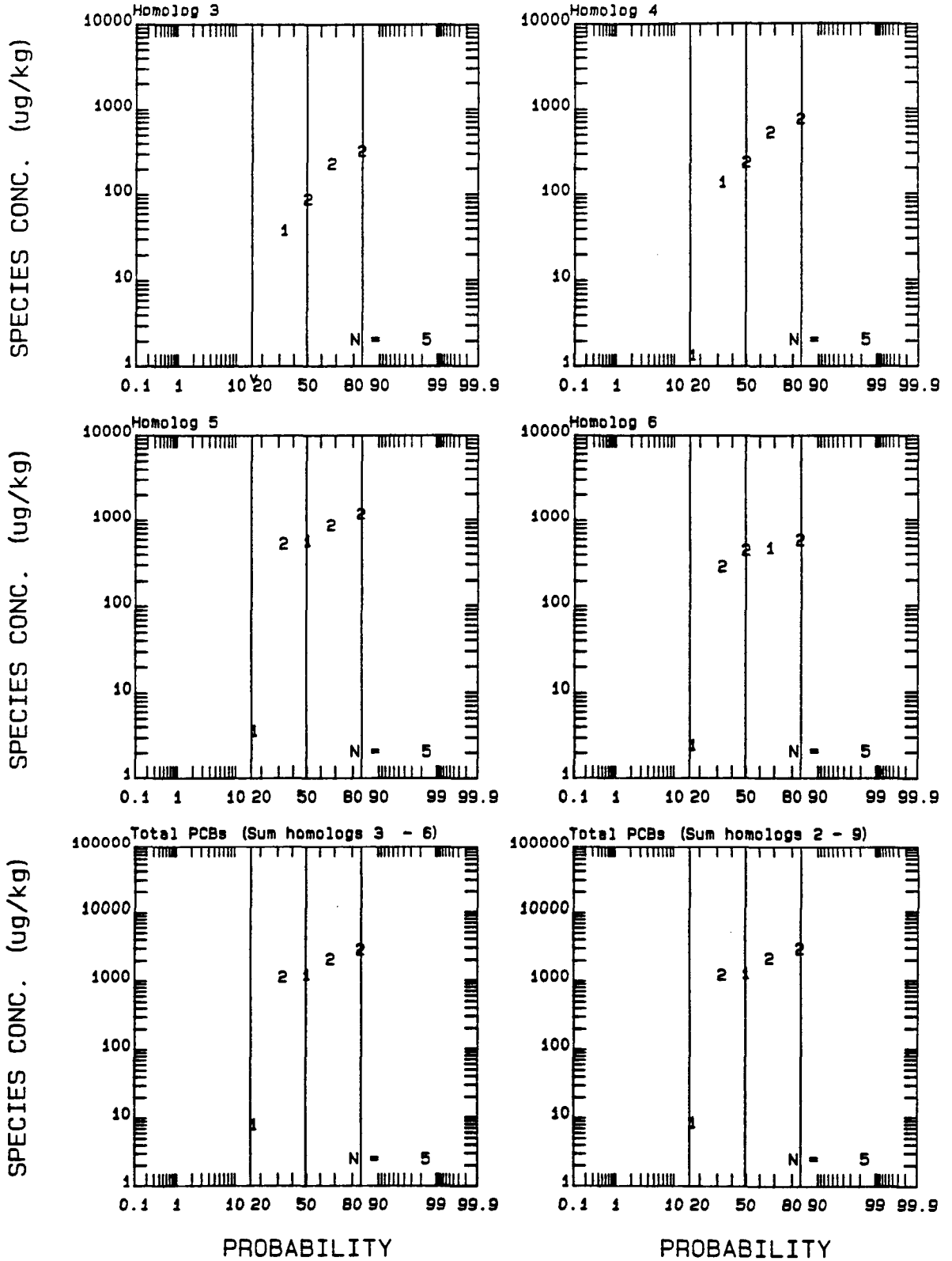
PROBABILITY

PROBABILITY

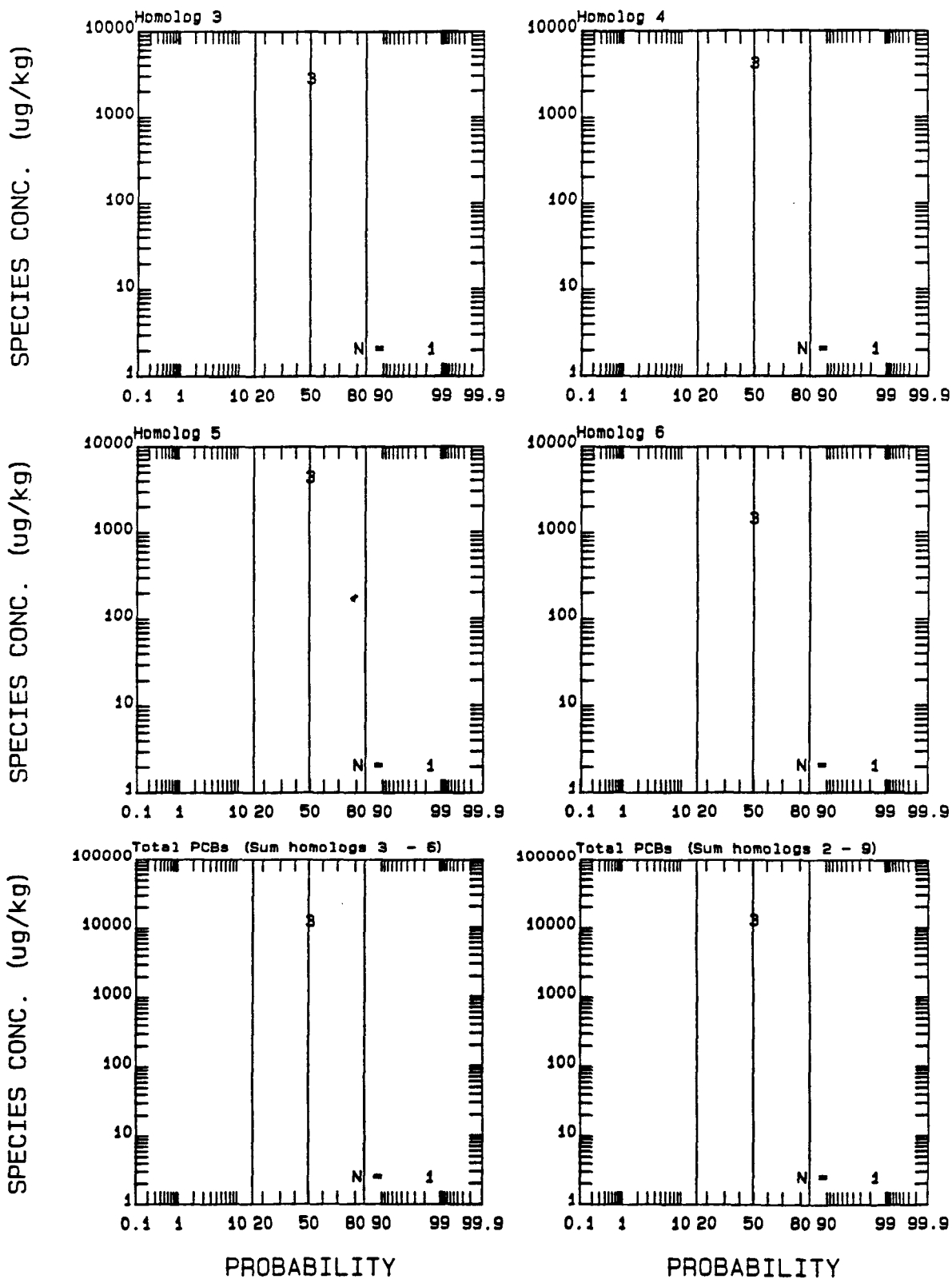
AREA 3, SPIDER CRAB, SMALL



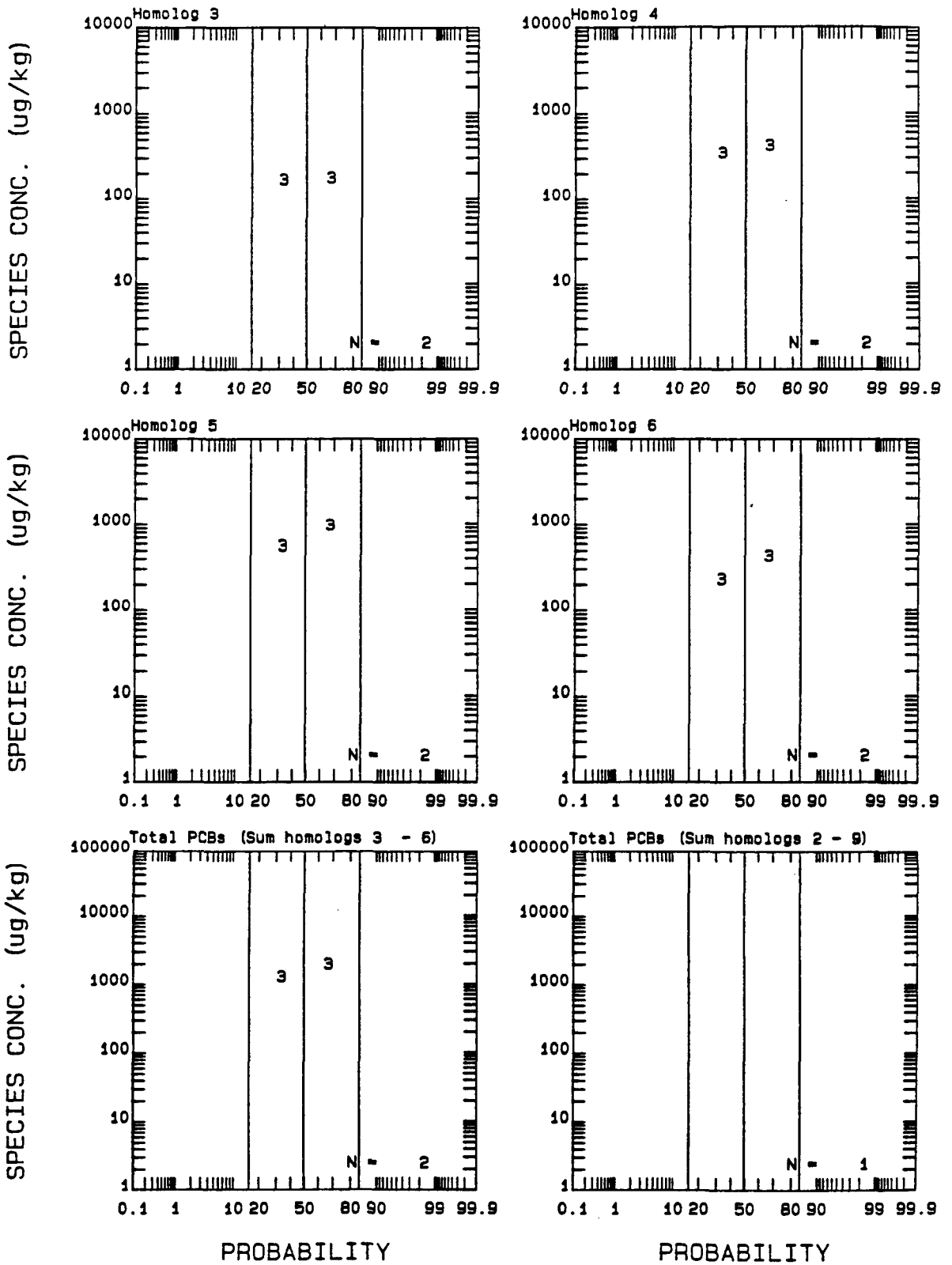
AREA 3, SPIDER CRAB, LARGE



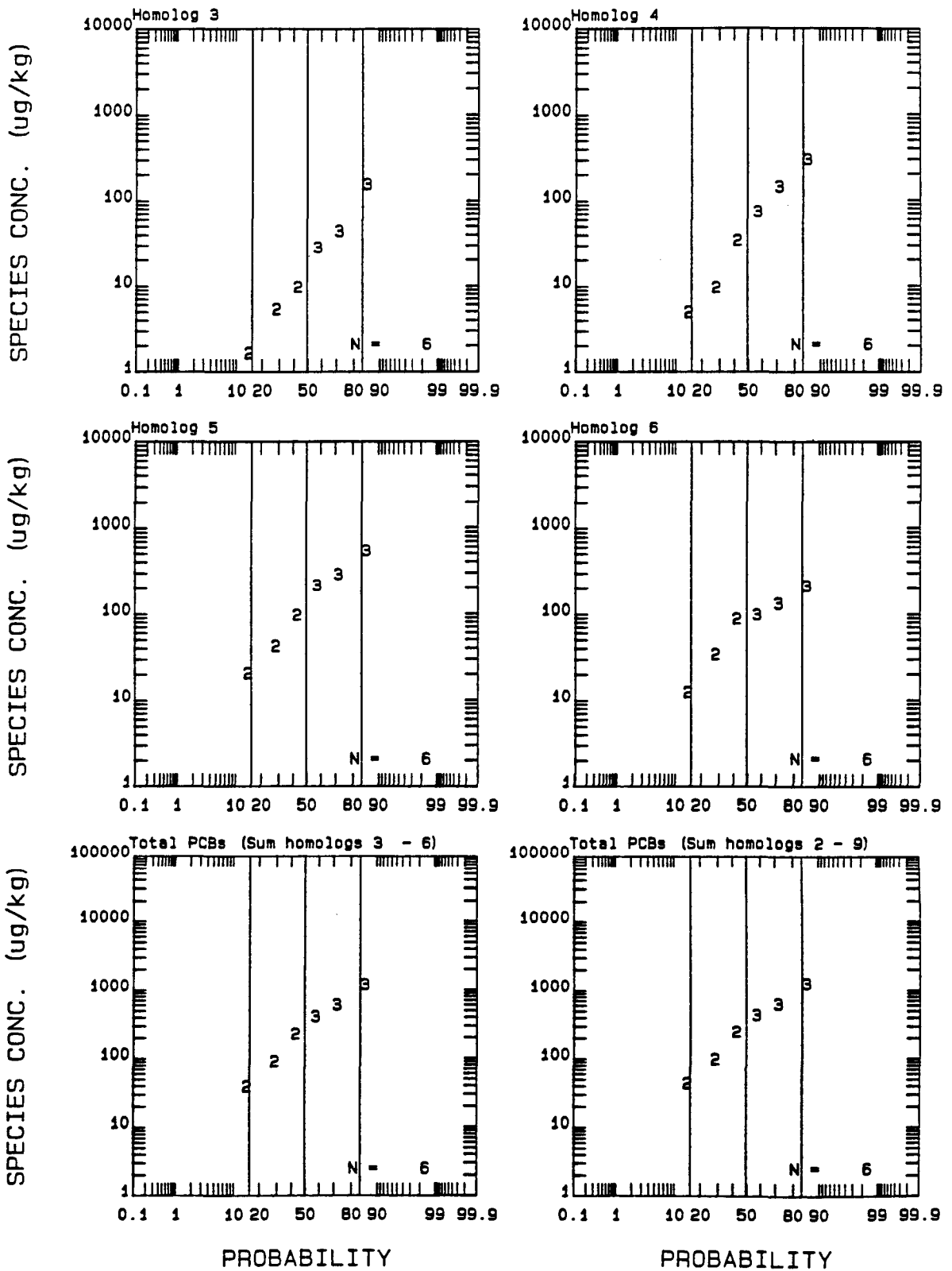
AREA 1, POLYCHAETE



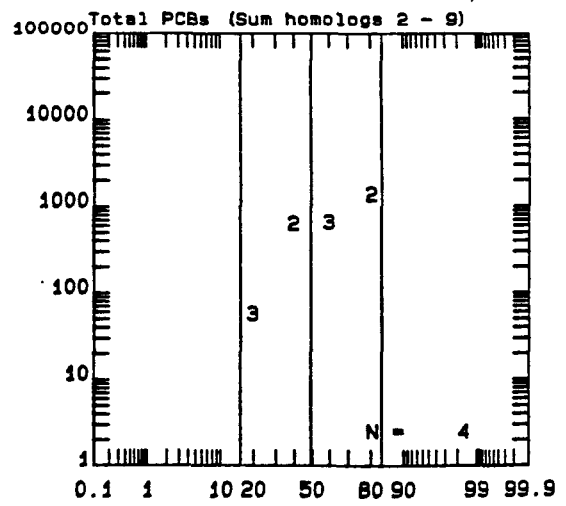
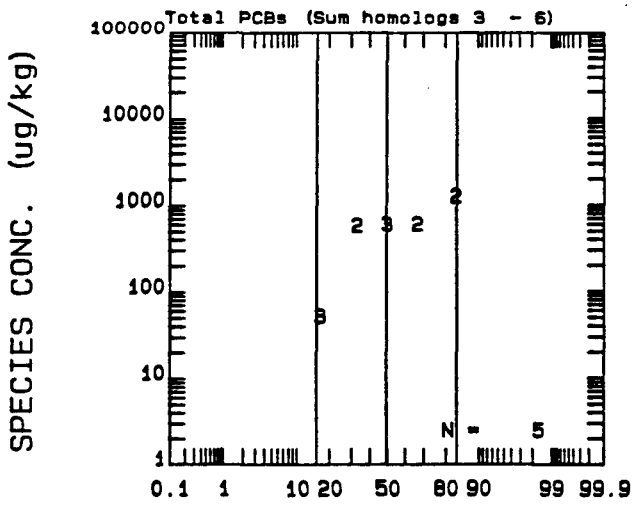
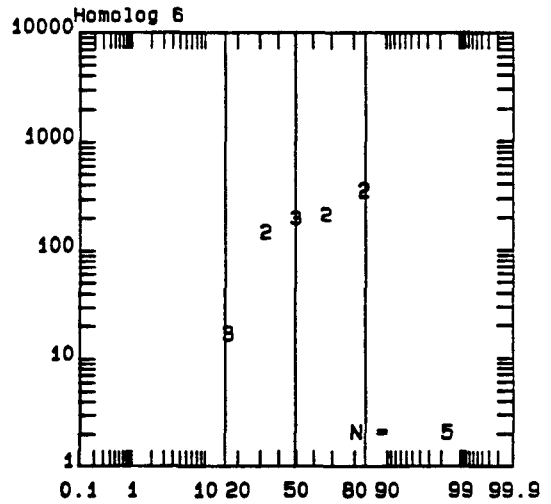
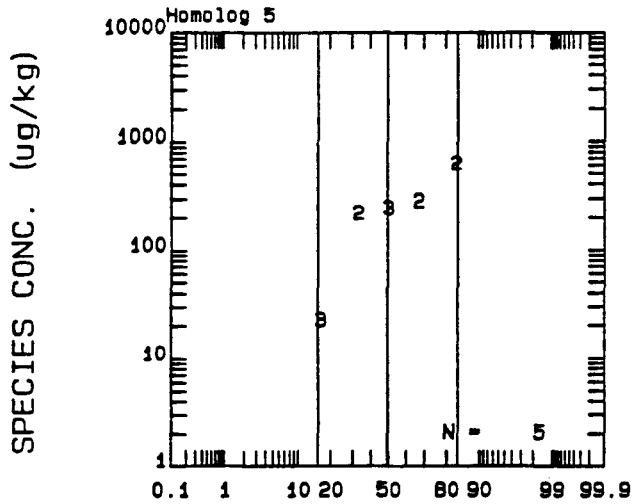
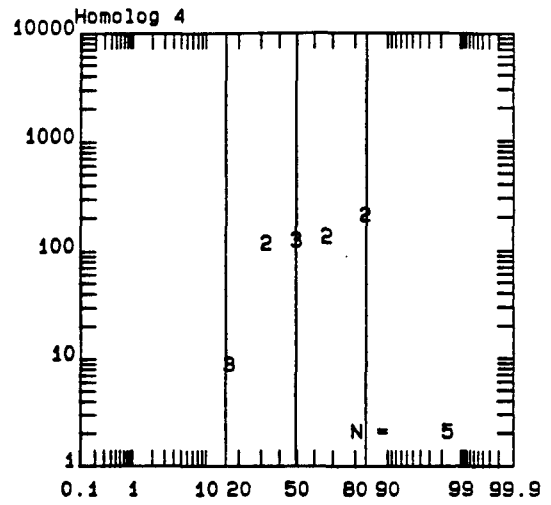
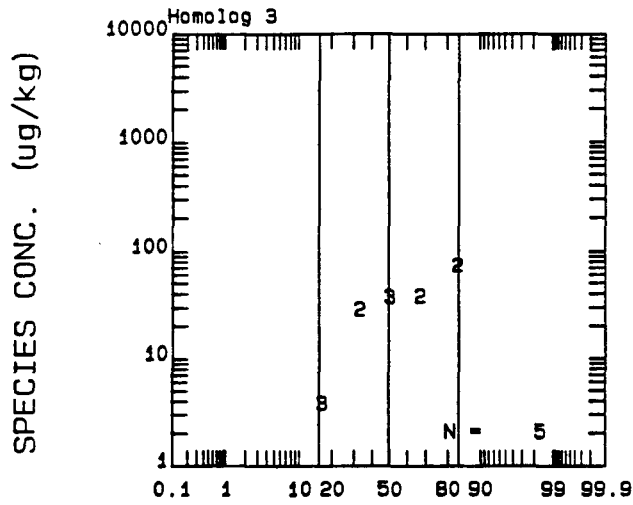
AREA 2, POLYCHAETE



AREA 3, POLYCHAETE



AREA 4, POLYCHAETE

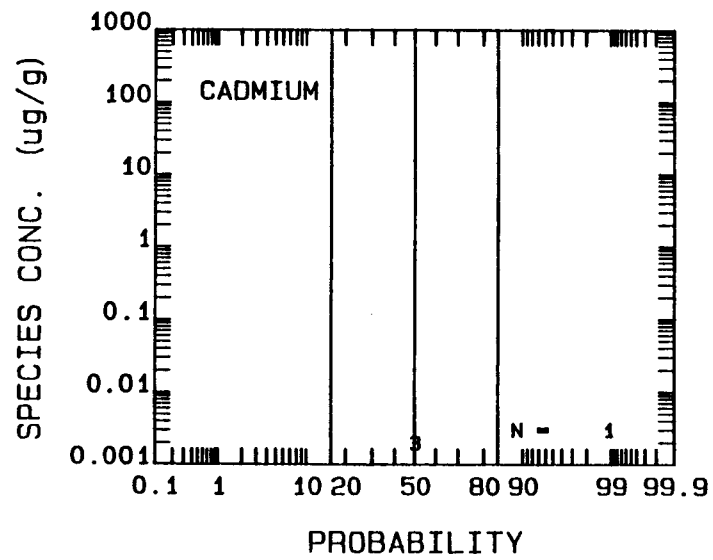
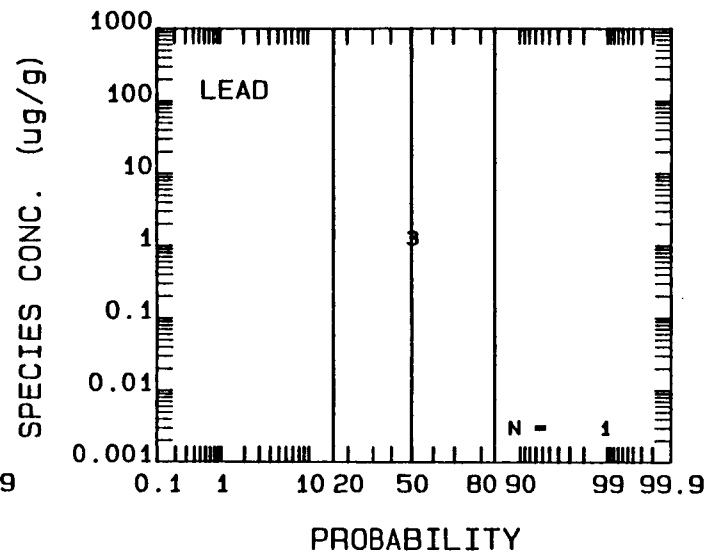
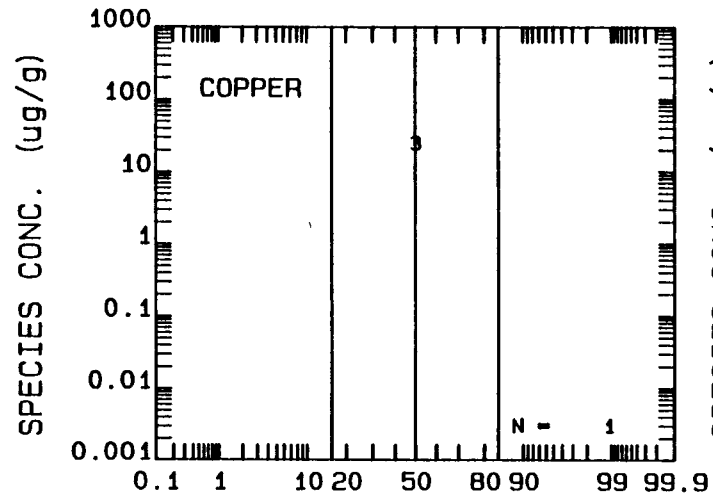


PROBABILITY

PROBABILITY

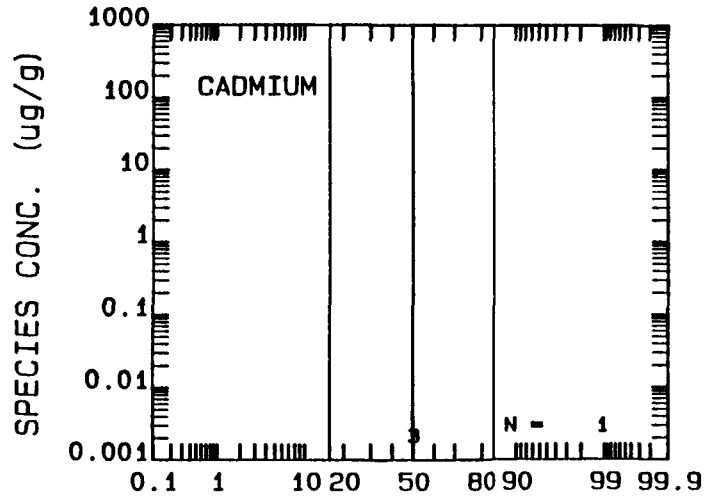
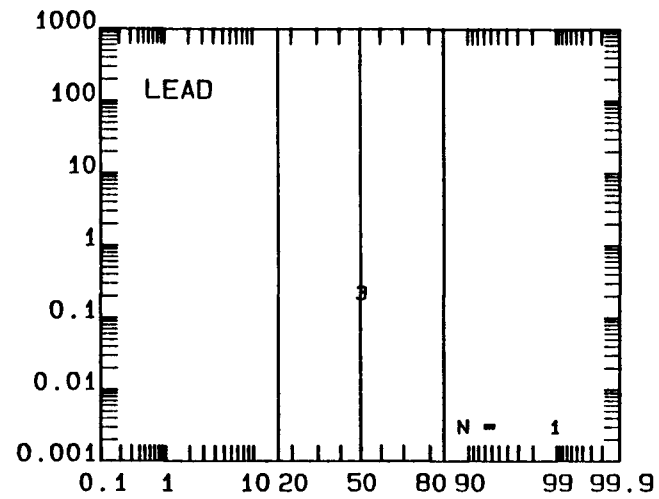
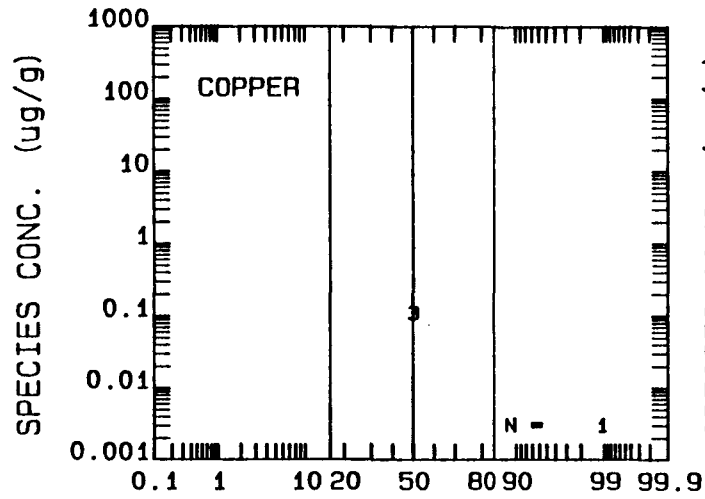
BIOTA METALS PROBABILITY DISTRIBUTIONS

AREA 1, LOBSTER, MEDIUM



AREA 1, LOBSTER, LARGE

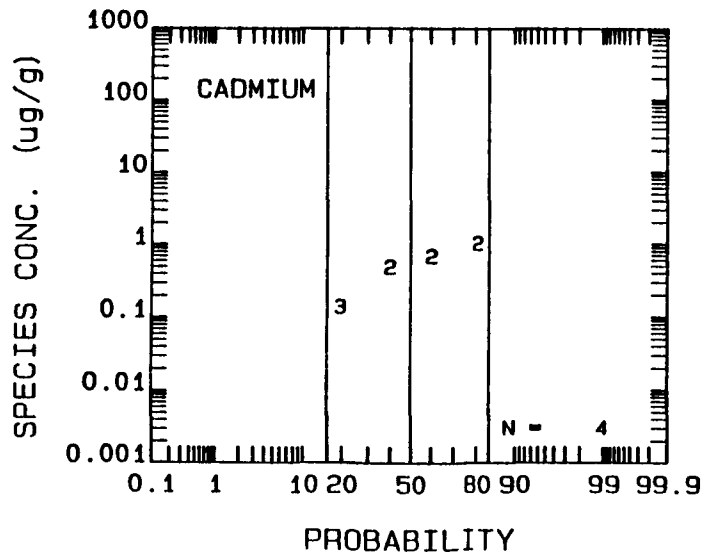
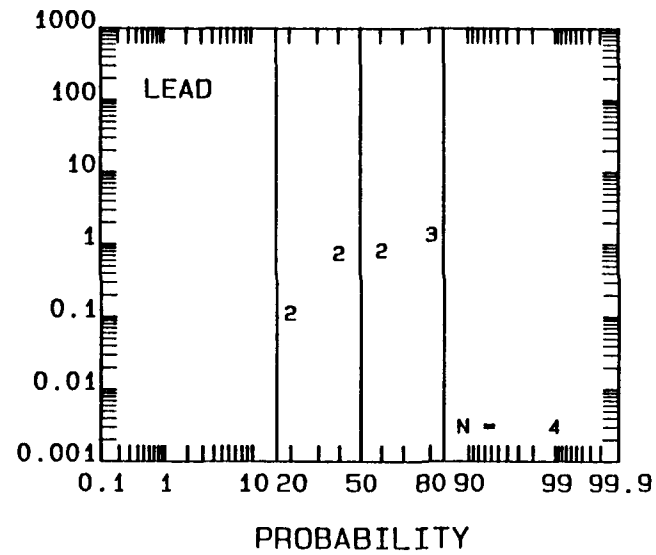
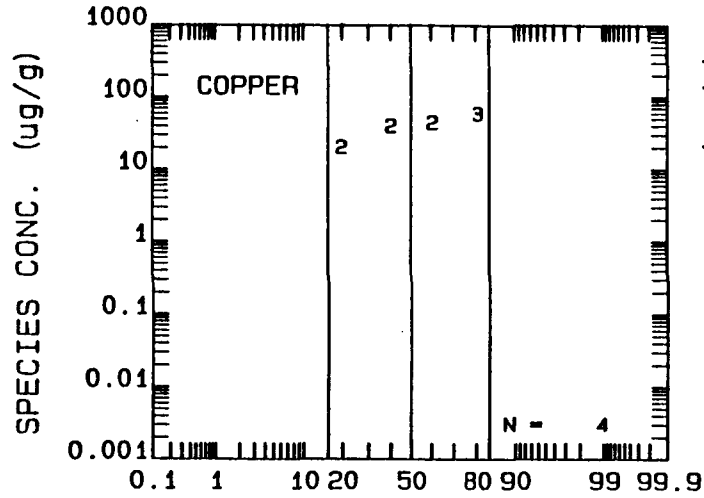
K-57



PROBABILITY

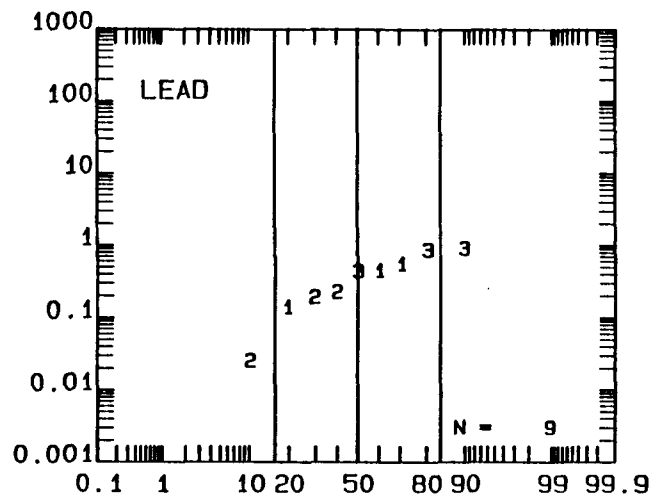
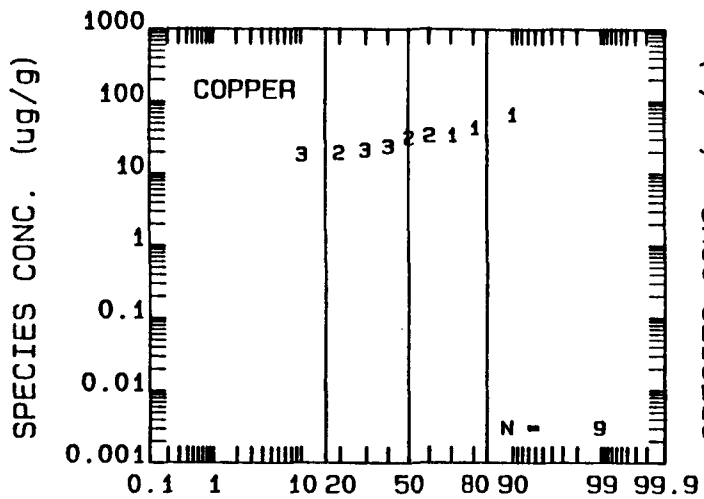
K-58

AREA 2, LOBSTER, SMALL

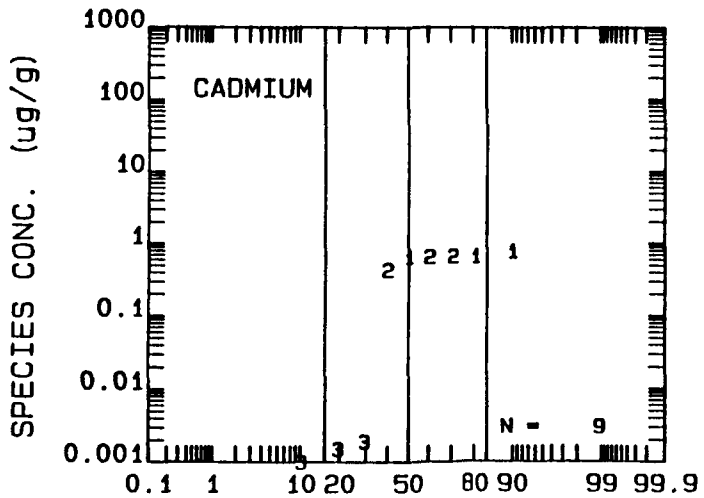


AREA 2. LOBSTER, MEDIUM

K-59



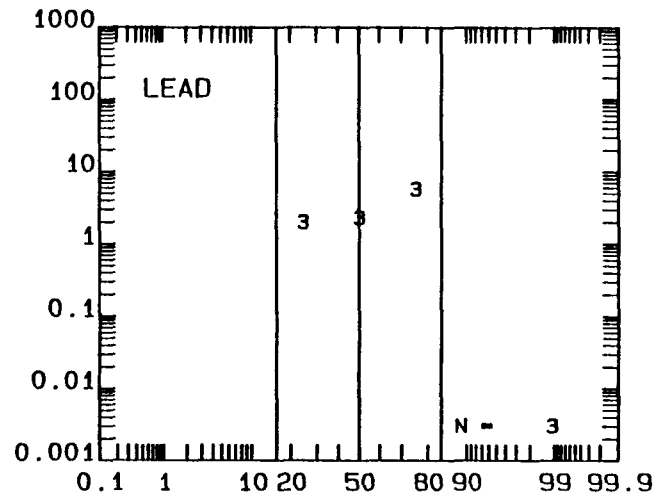
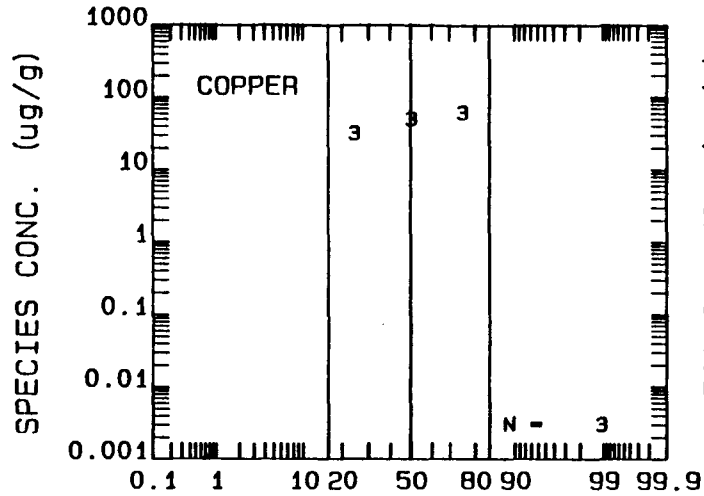
PROBABILITY



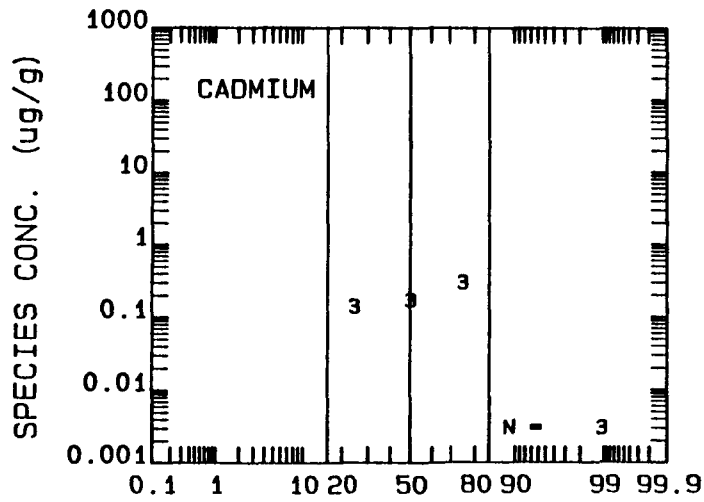
PROBABILITY

K-60

AREA 2, LOBSTER, LARGE



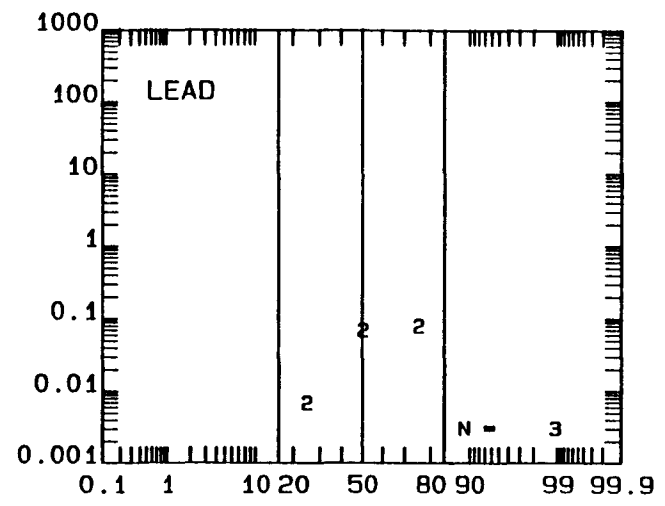
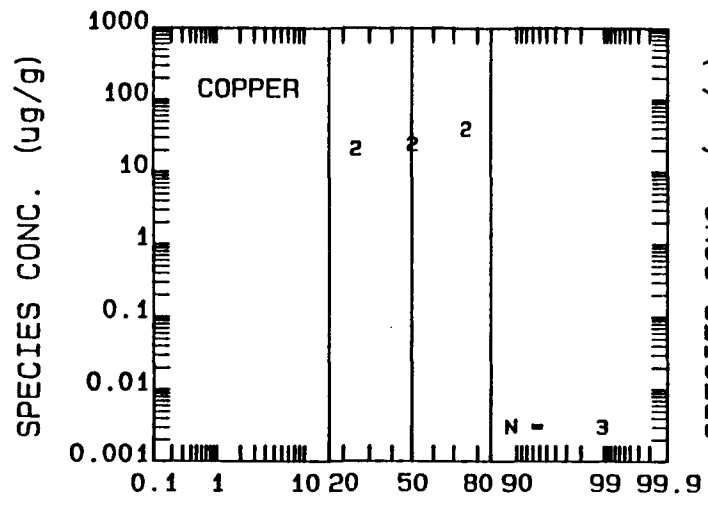
PROBABILITY



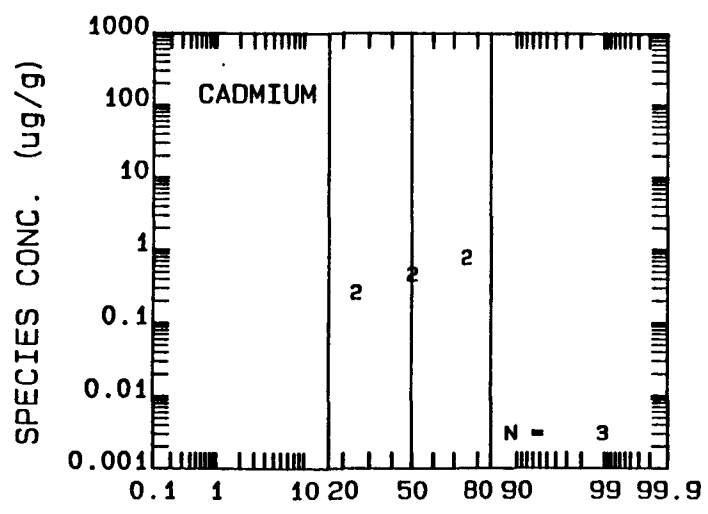
PROBABILITY

AREA 3, LOBSTER, SMALL

T9-K



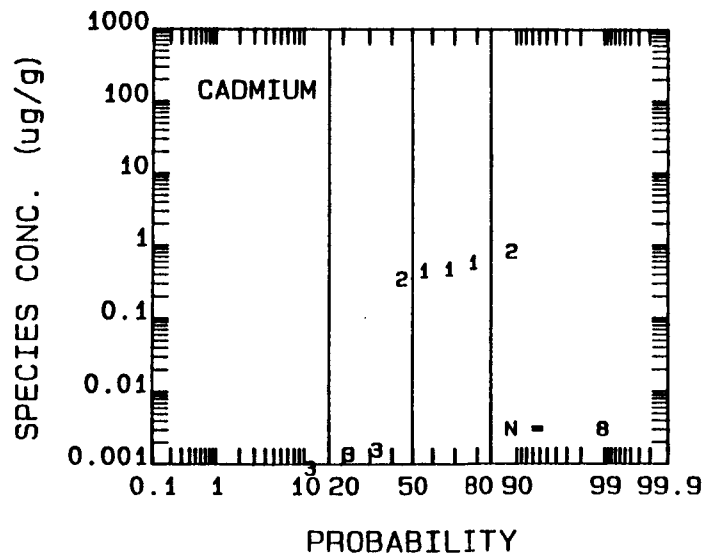
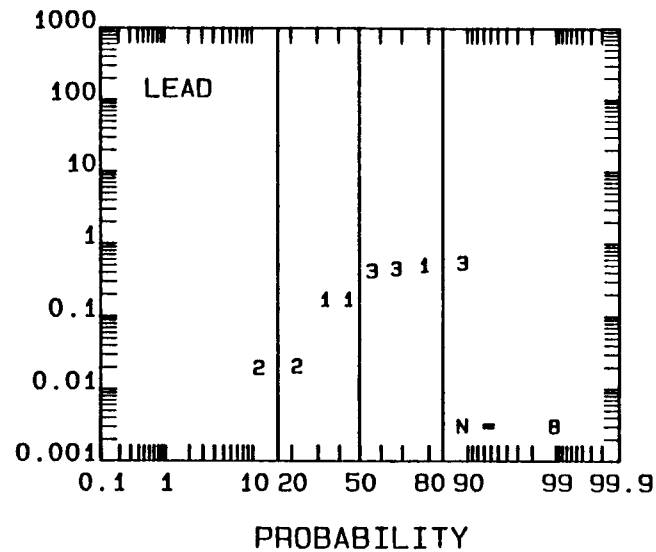
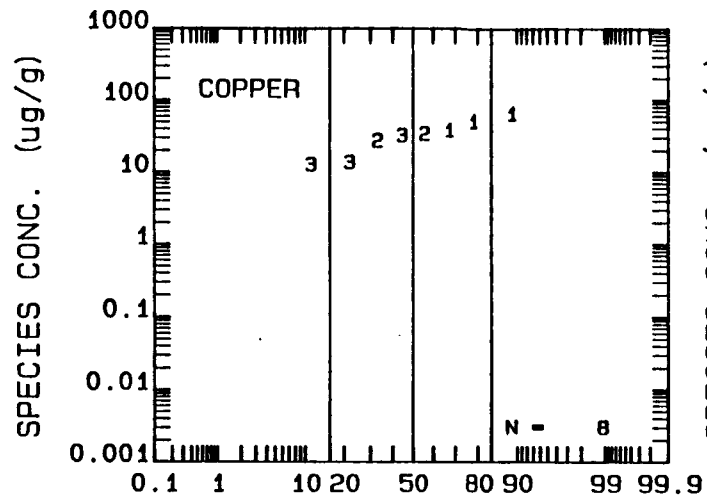
PROBABILITY



PROBABILITY

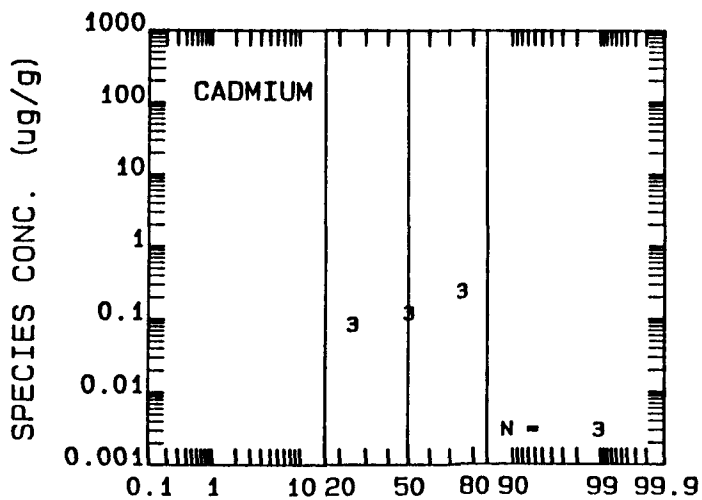
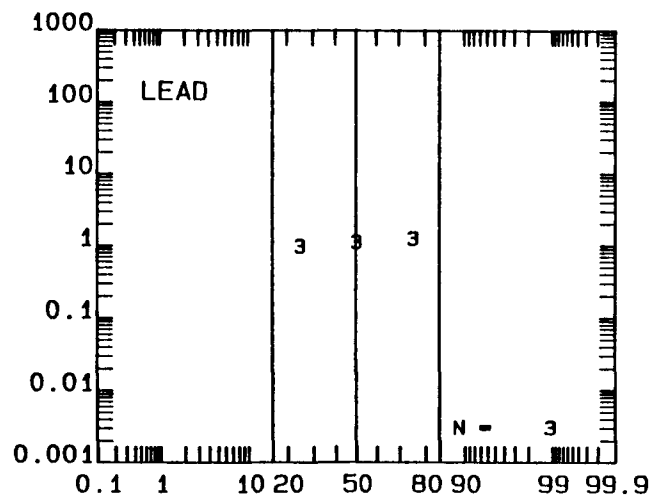
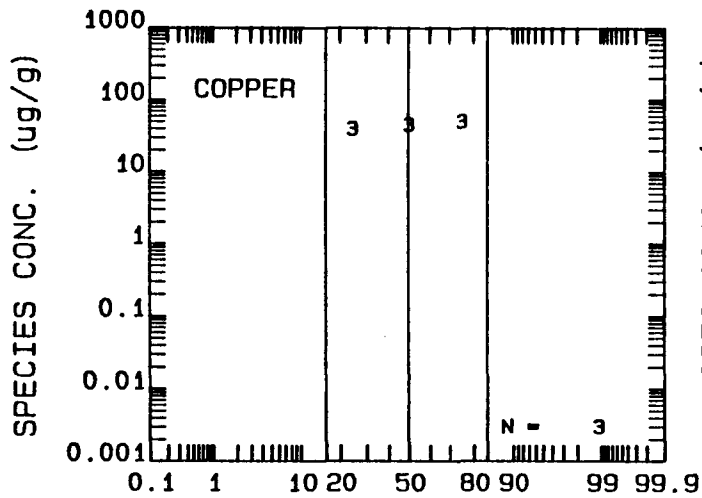
K-62

AREA 3, LOBSTER, MEDIUM



K-63

AREA 3, LOBSTER, LARGE

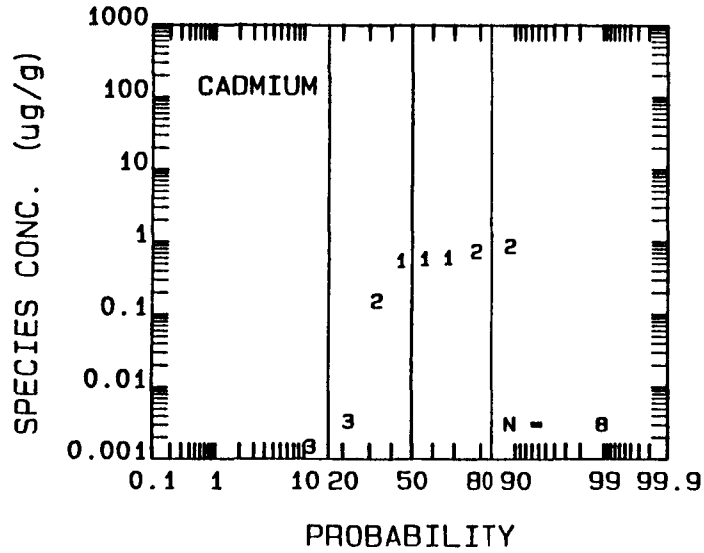
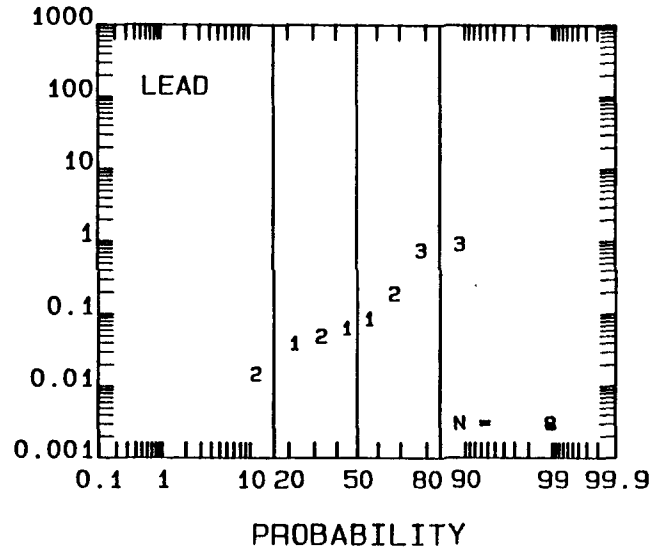
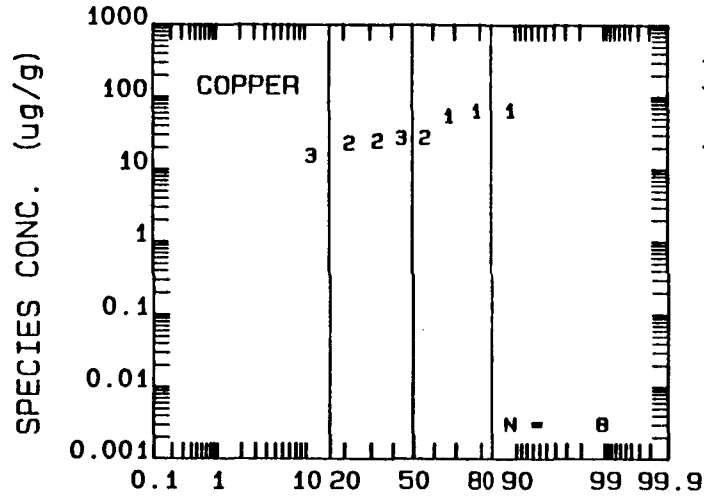


PROBABILITY

PROBABILITY

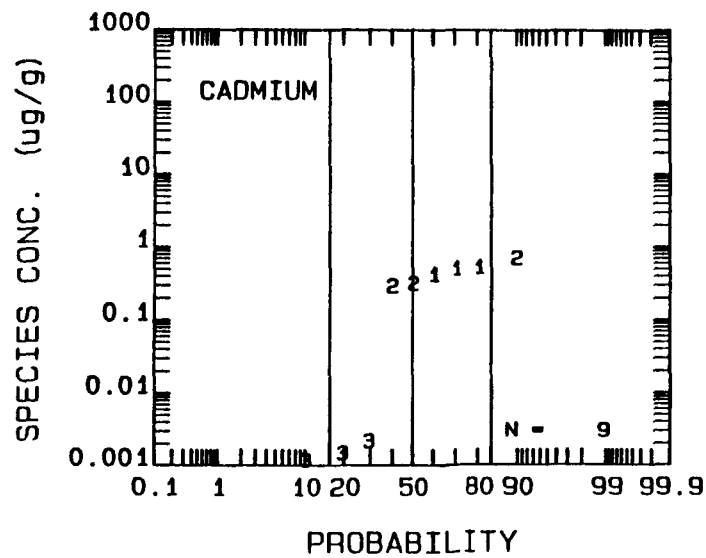
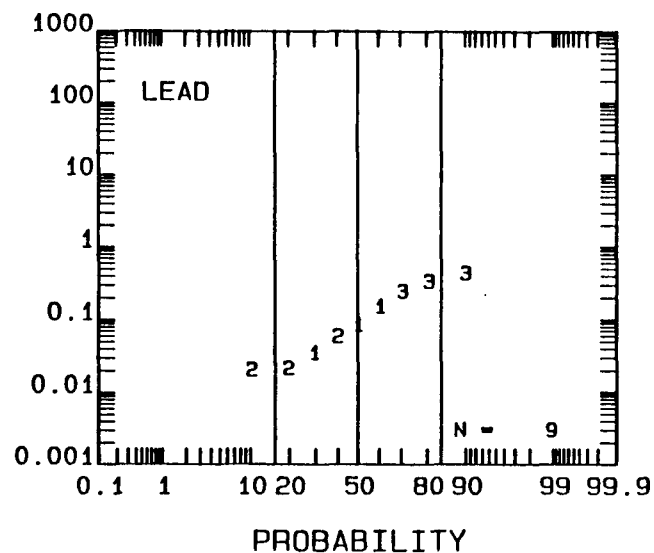
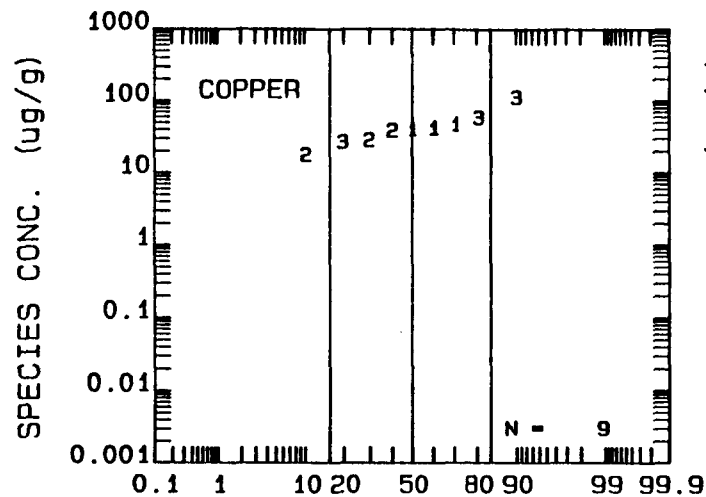
K-64

AREA 4, LOBSTER, SMALL



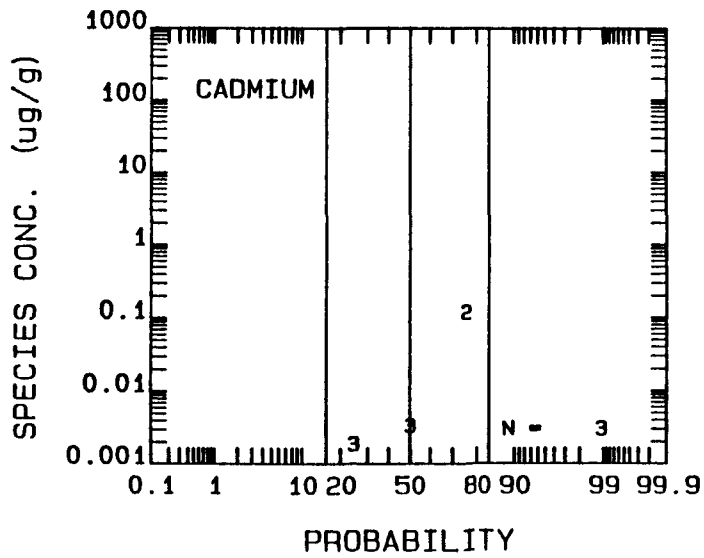
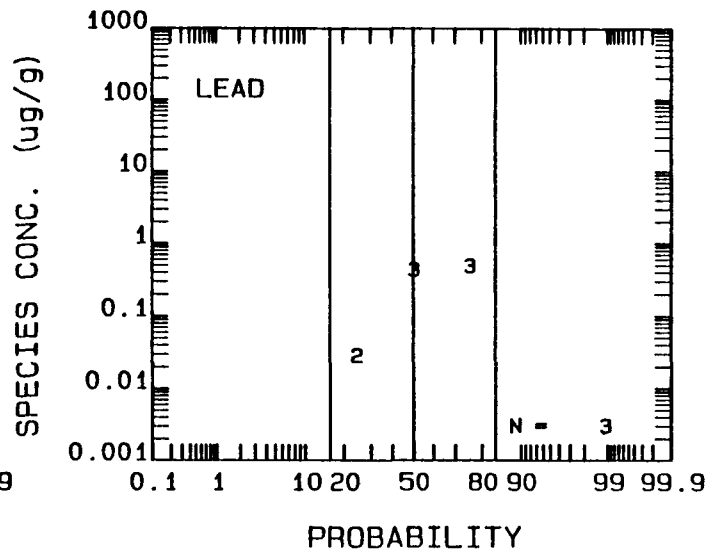
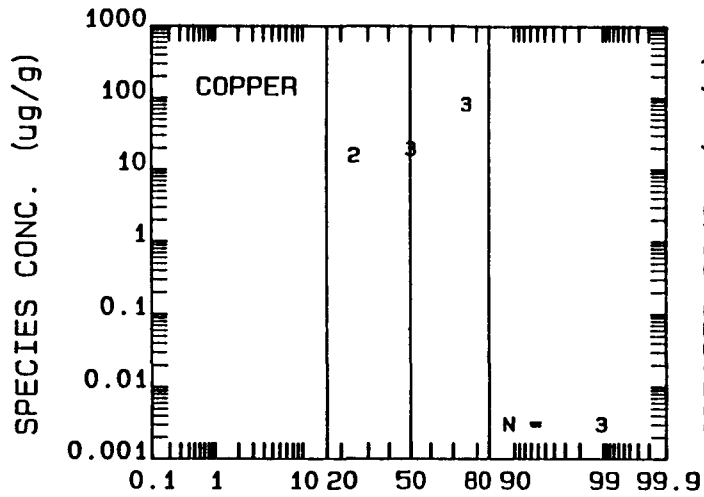
AREA 4, LOBSTER, MEDIUM

K-65



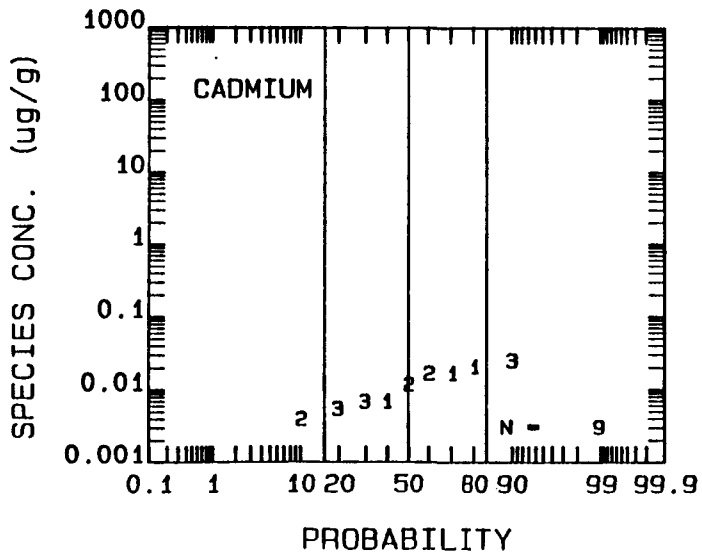
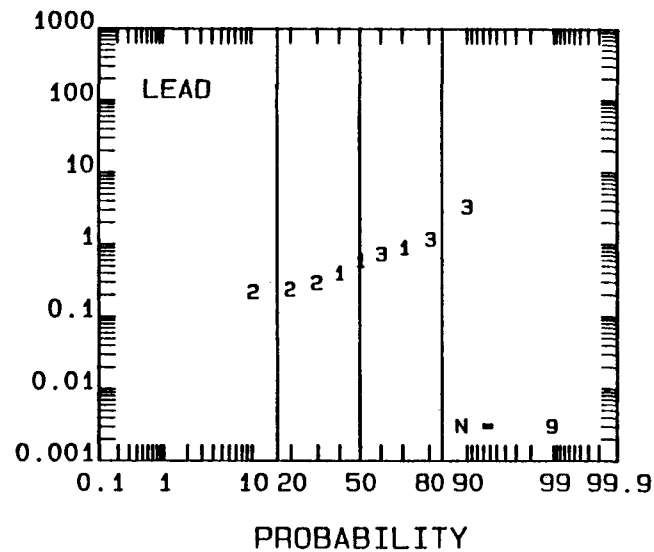
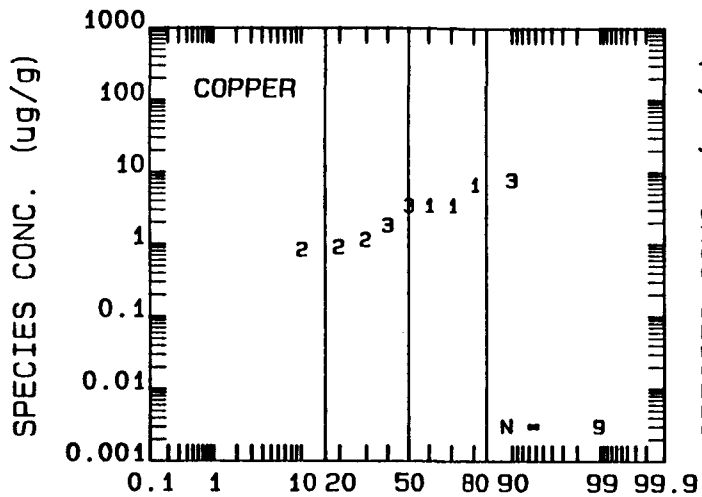
K-66

AREA 4, LOBSTER, LARGE



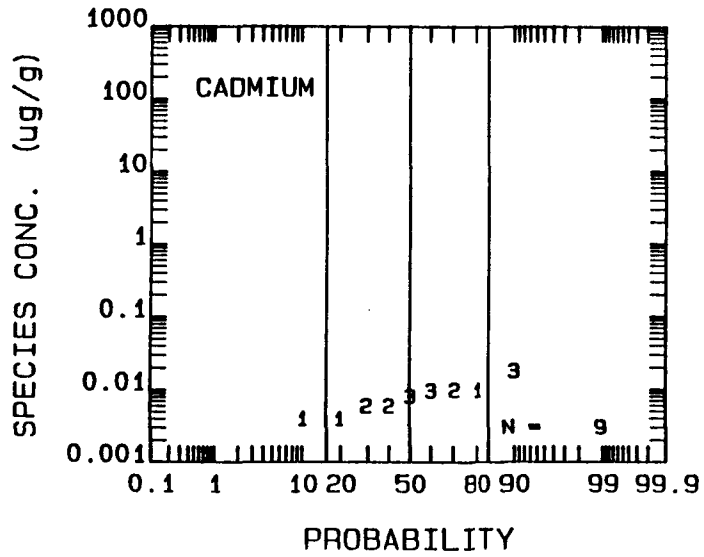
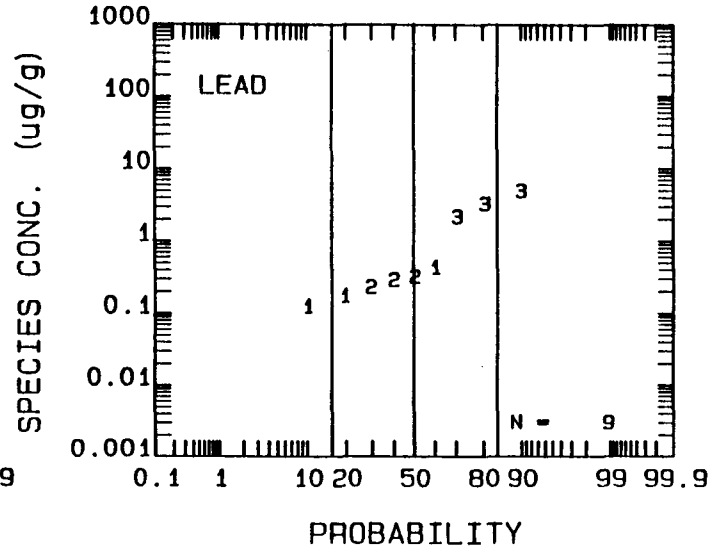
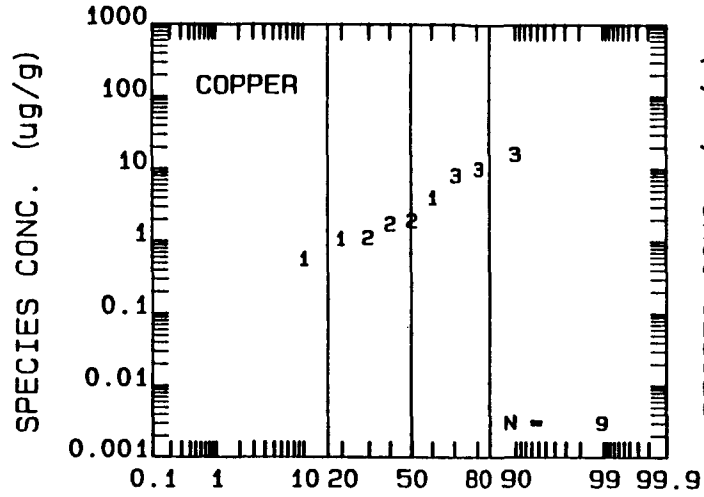
K-67

AREA 1, FLOUNDER, SMALL



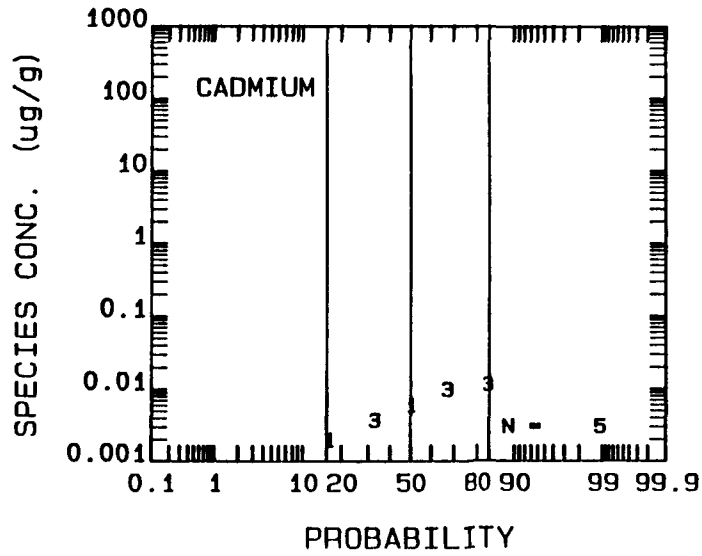
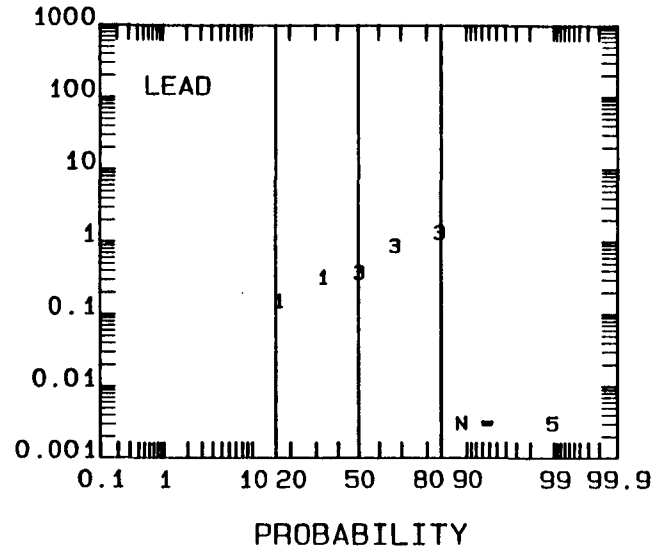
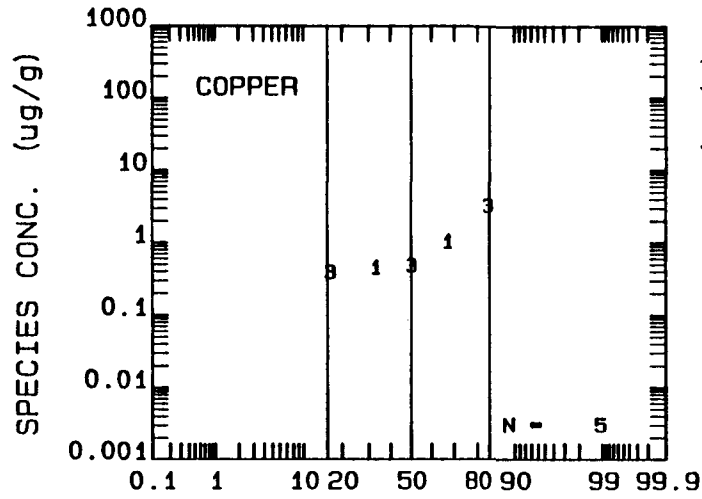
89-K

AREA 1, FLOUNDER, MEDIUM



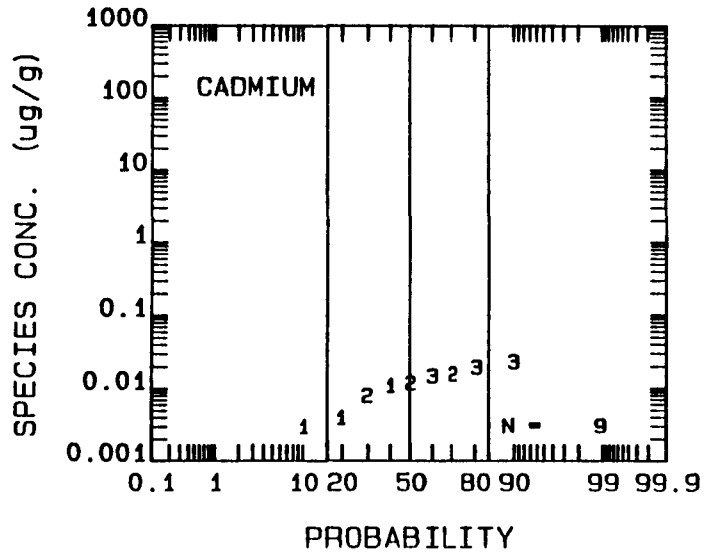
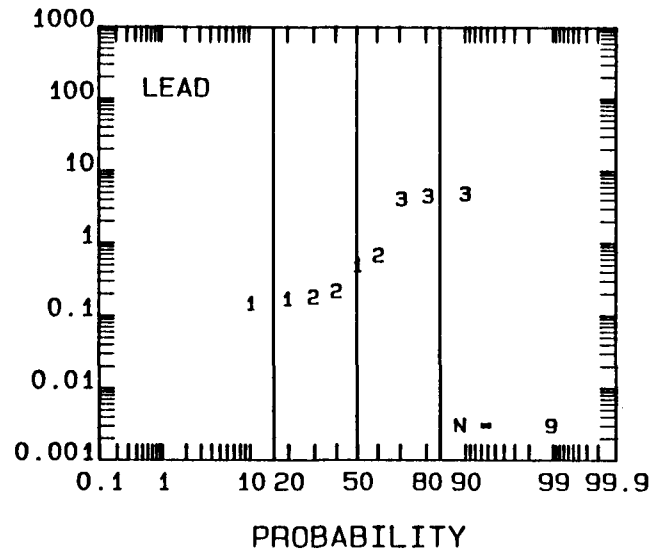
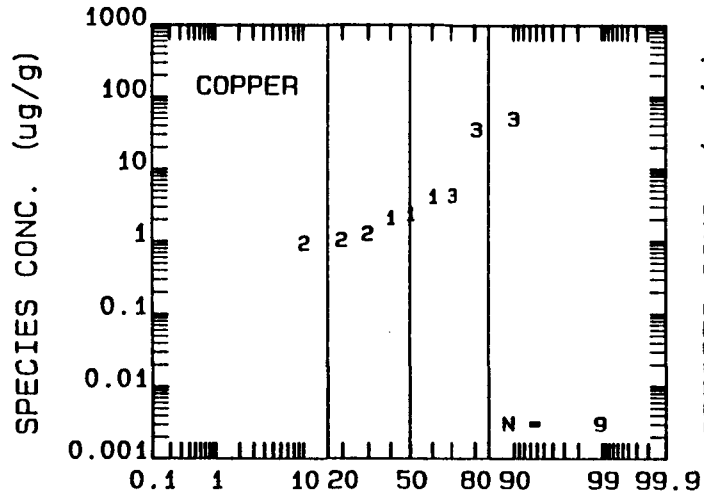
69-K

AREA 1, FLOUNDER, LARGE



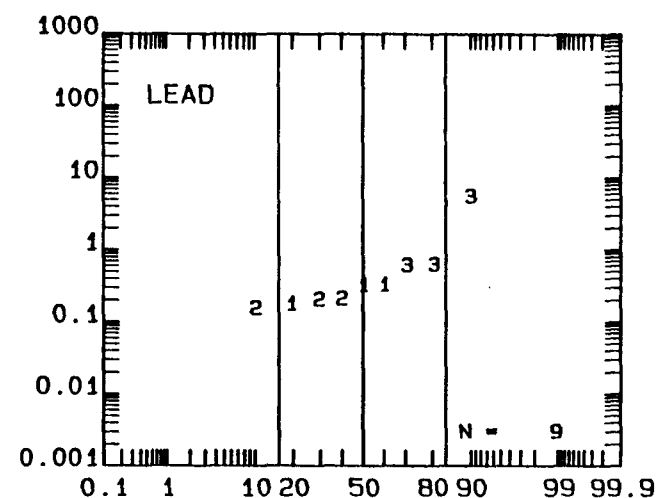
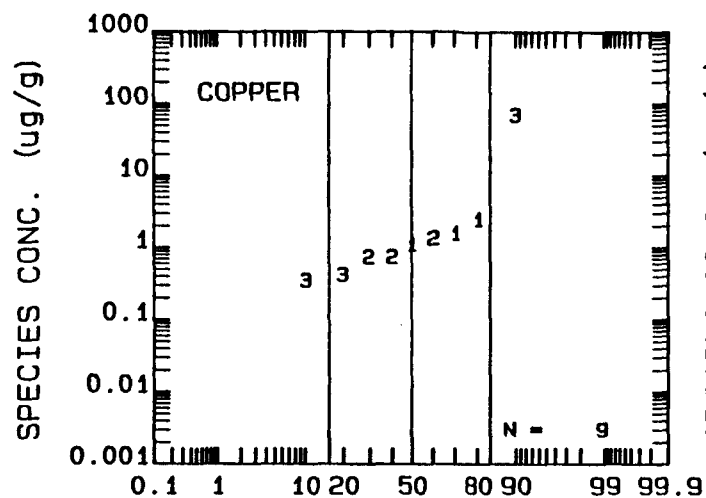
K-70

AREA 2, FLOUNDER, SMALL

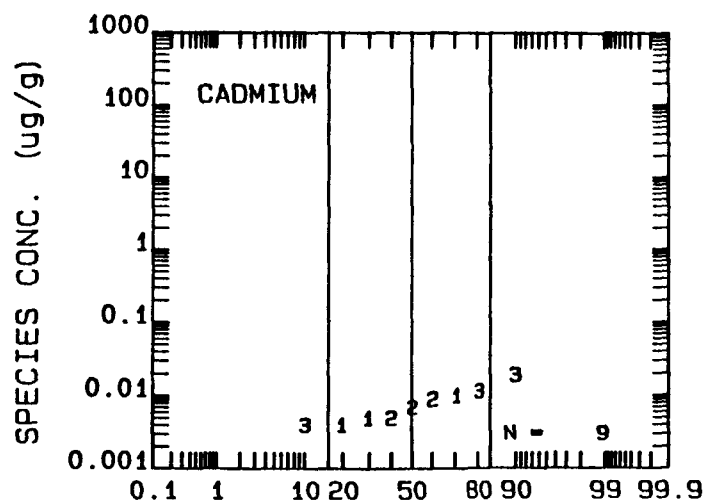


AREA 2, FLOUNDER, MEDIUM

K-71



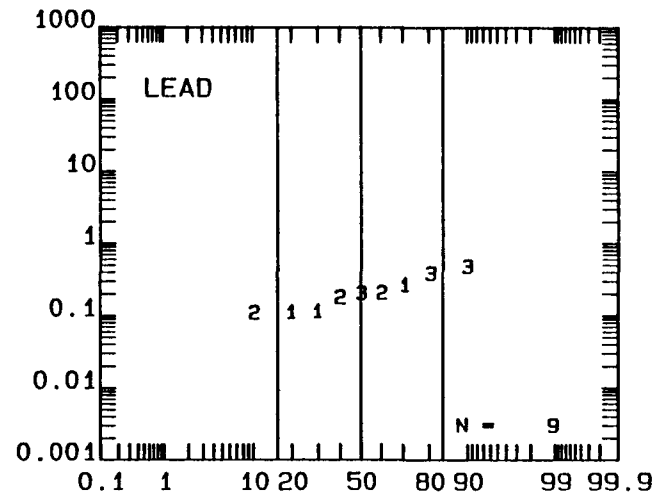
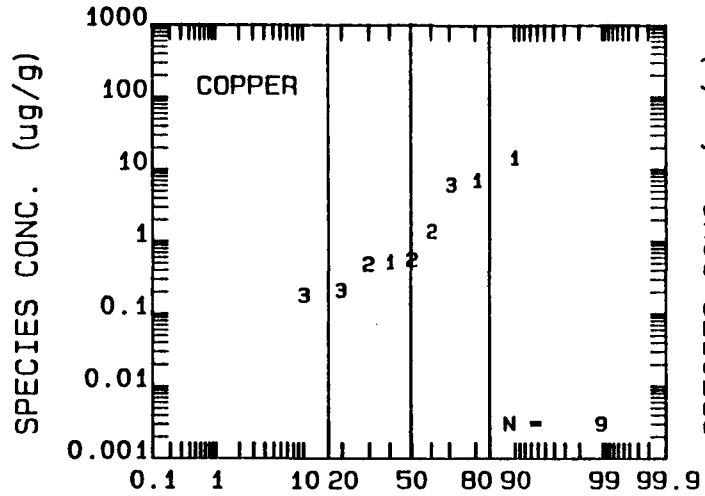
PROBABILITY



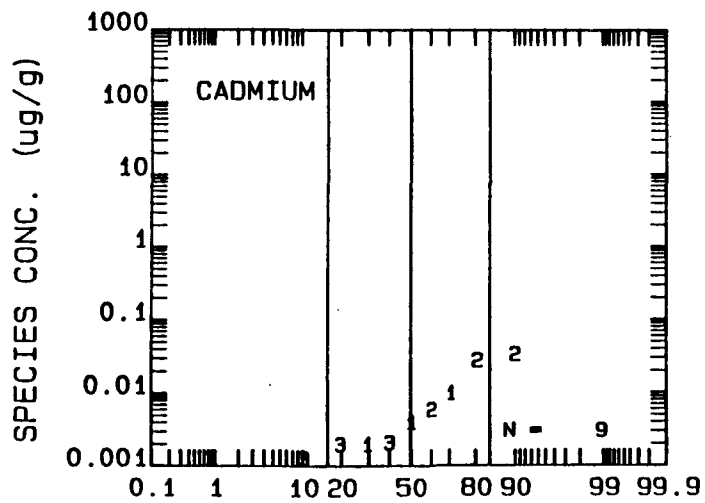
PROBABILITY

K-72

AREA 2, FLOUNDER, LARGE



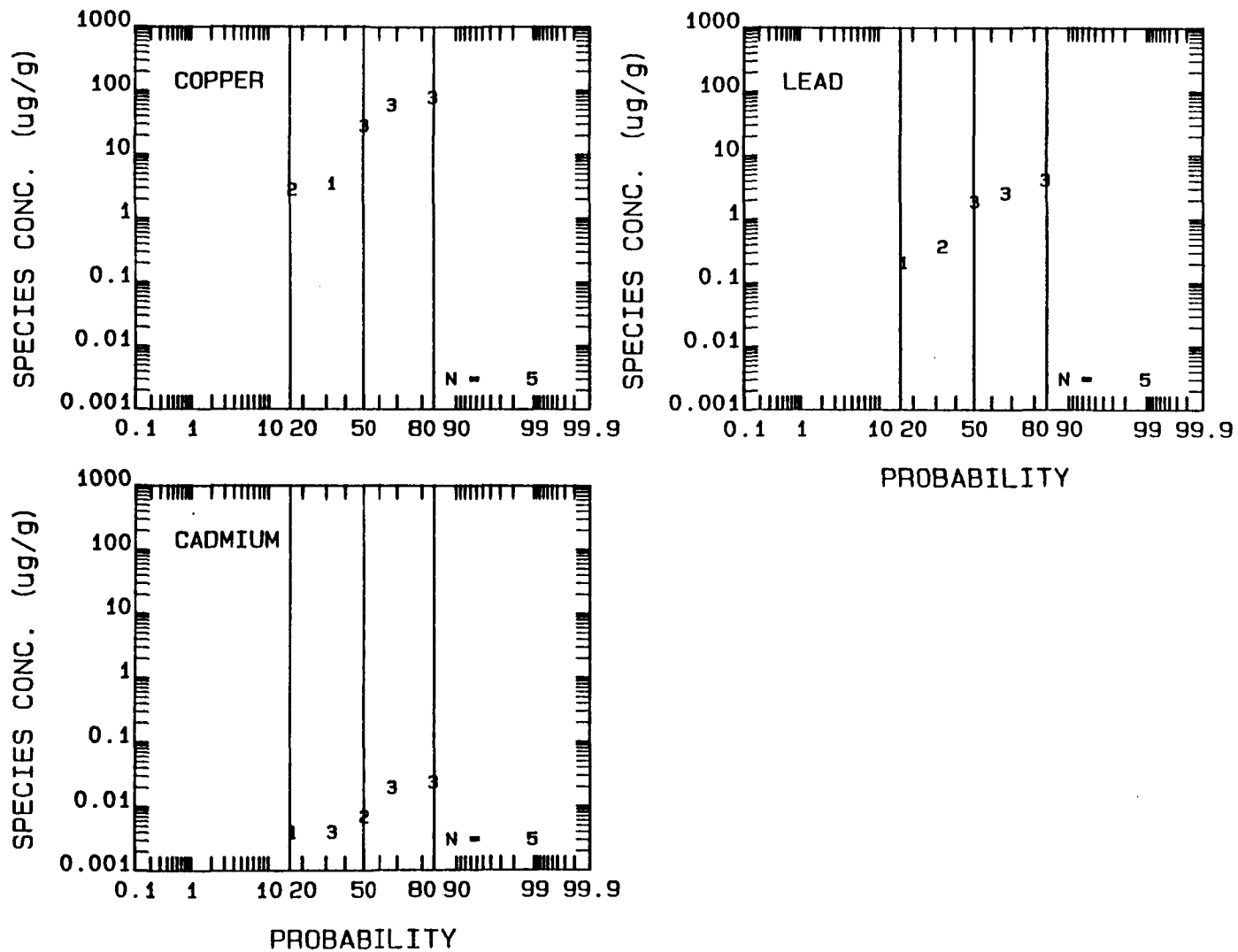
PROBABILITY



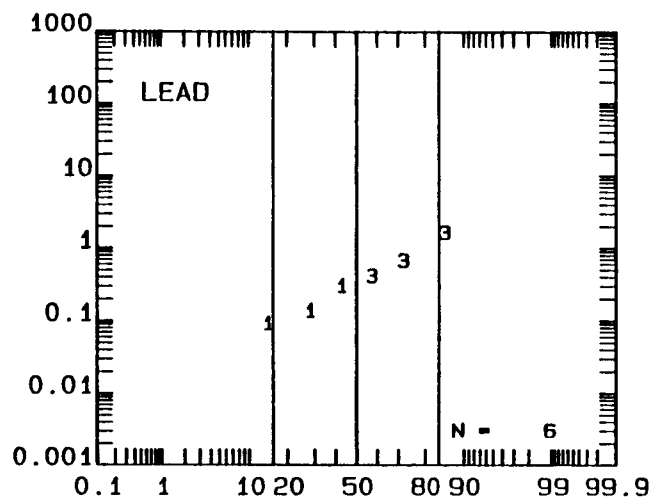
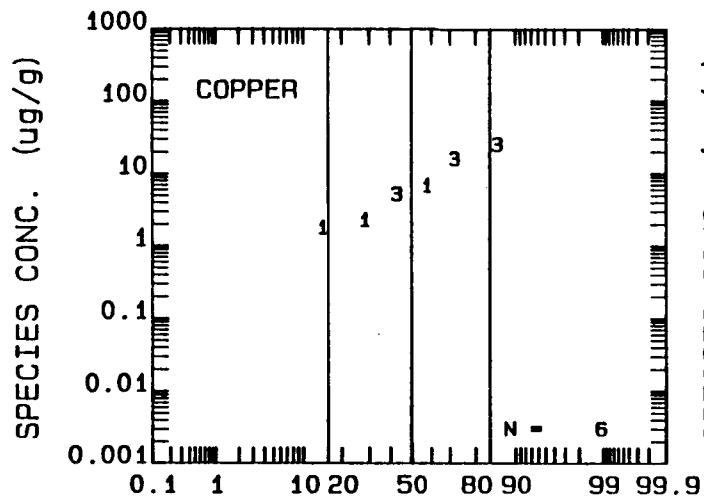
PROBABILITY

K-73

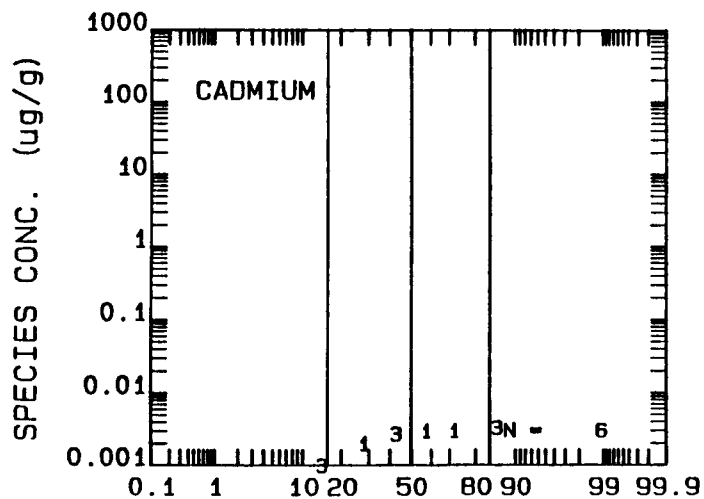
AREA 3, FLOUNDER, SMALL



AREA 3, FLOUNDER, MEDIUM



PROBABILITY

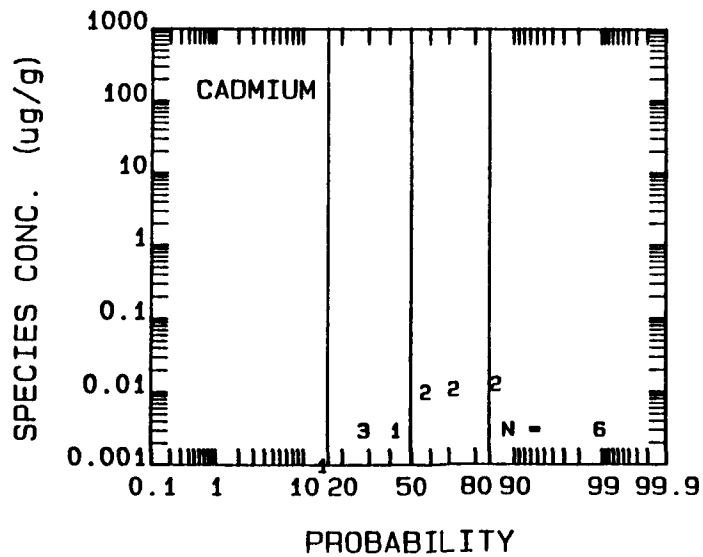
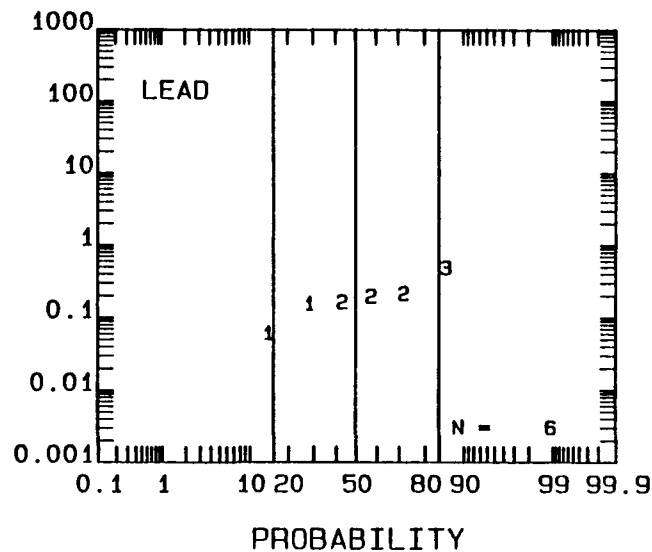
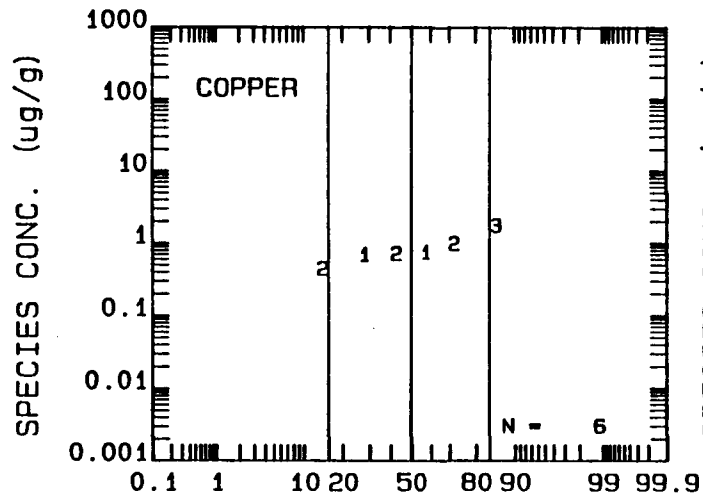


PROBABILITY

K-74

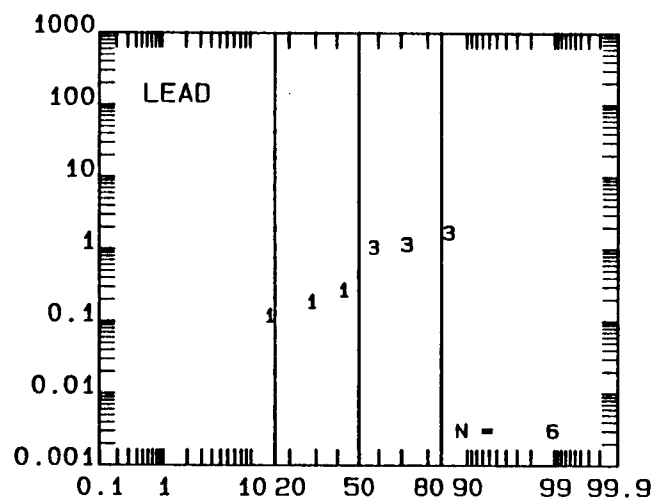
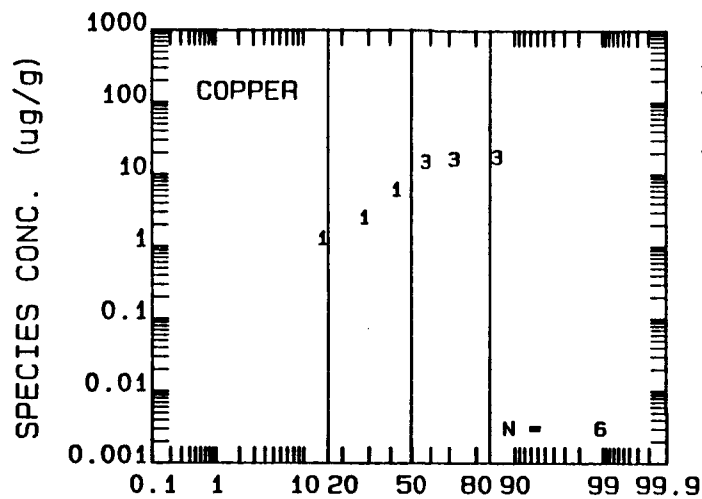
AREA 3, FLOUNDER, LARGE

K-75

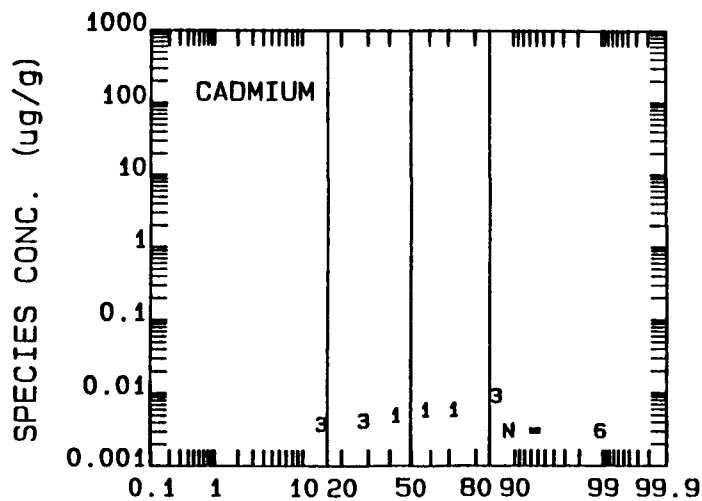


K-76

AREA 4, FLOUNDER, SMALL



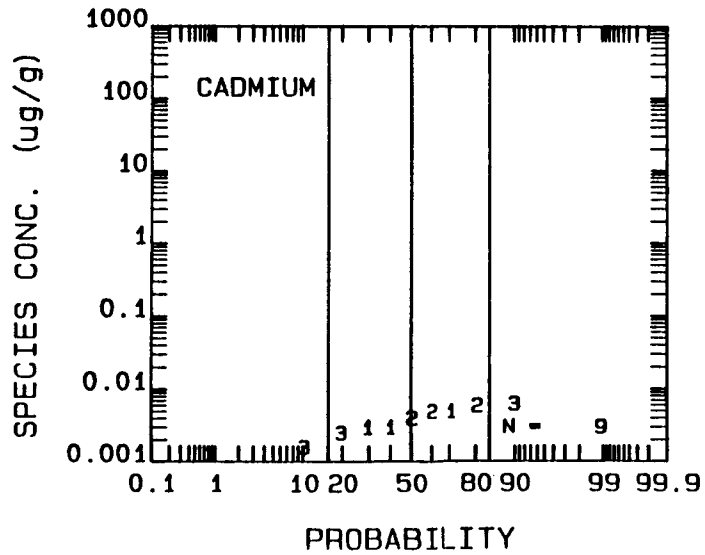
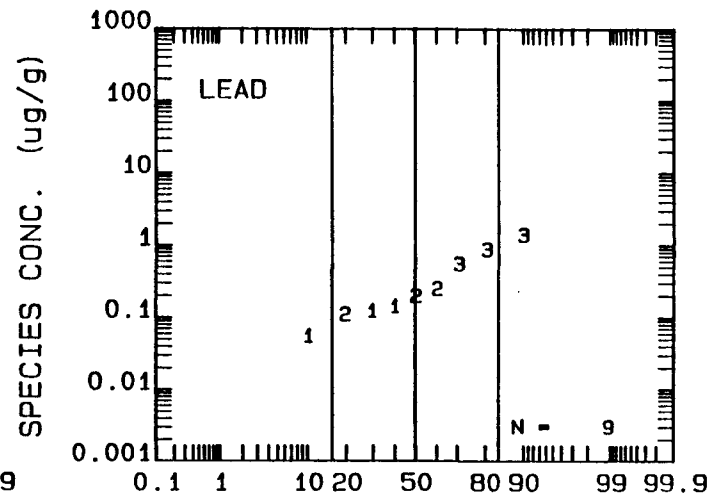
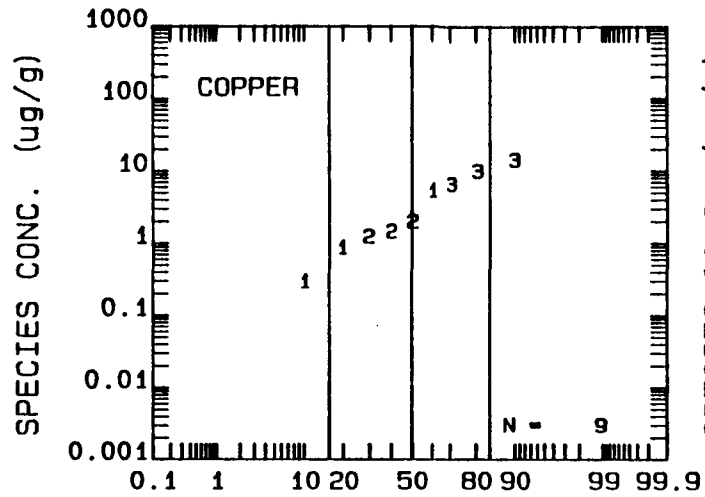
PROBABILITY



PROBABILITY

K-77

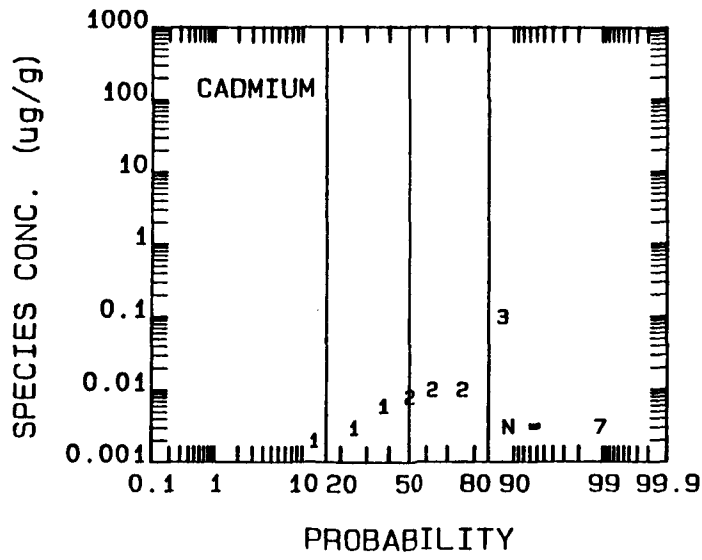
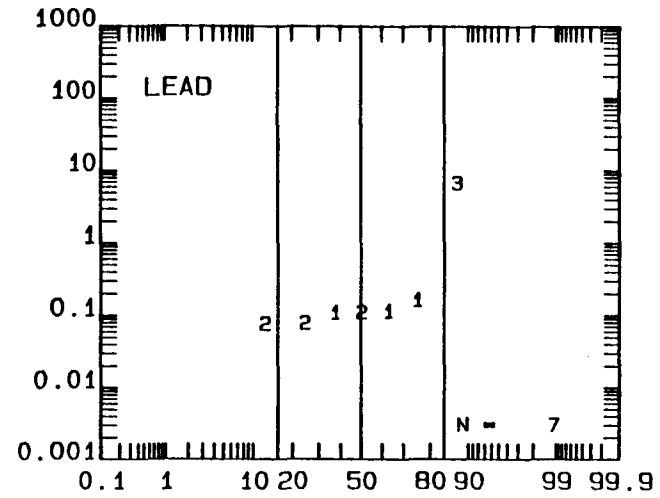
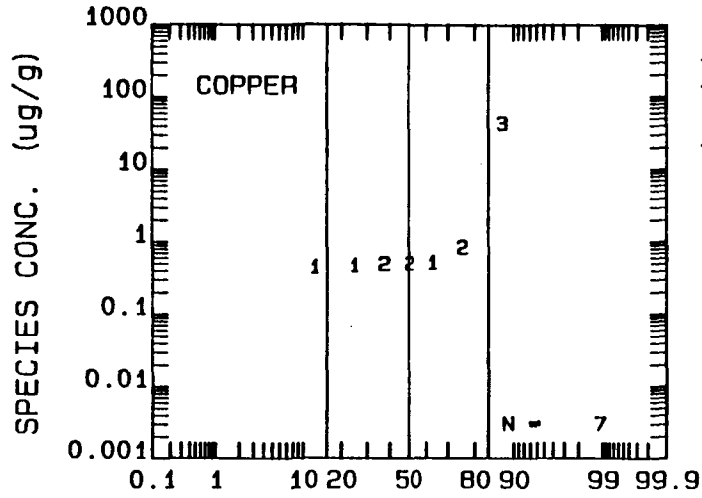
AREA 4, FLOUNDER, MEDIUM



PROBABILITY

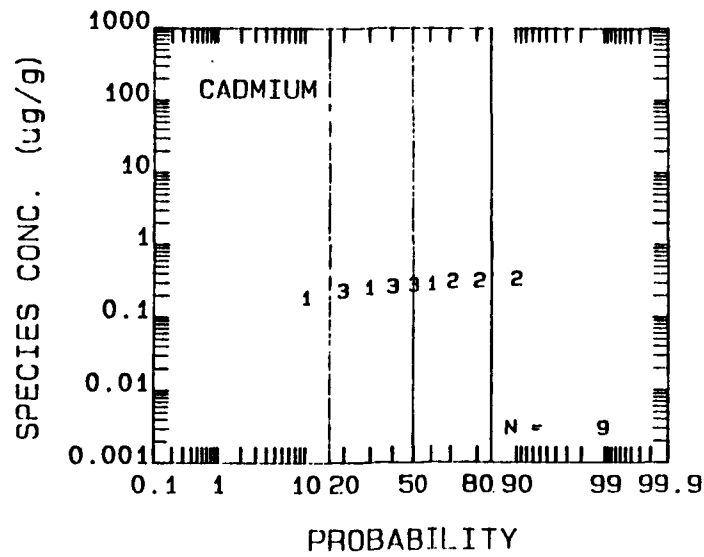
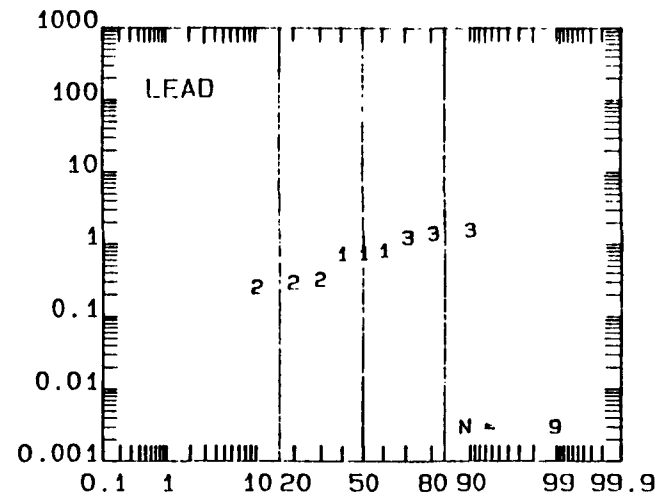
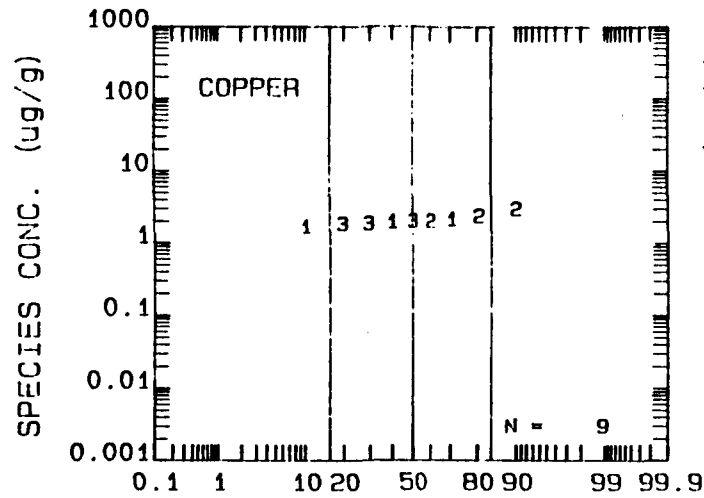
K-78

AREA 4, FLOUNDER, LARGE



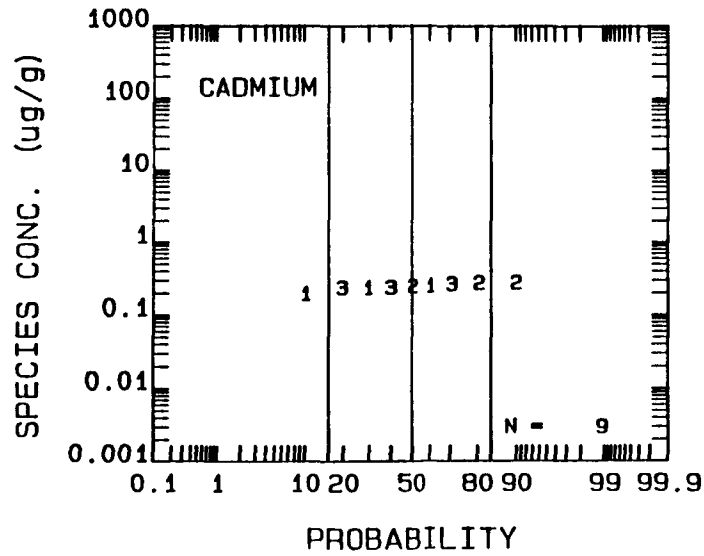
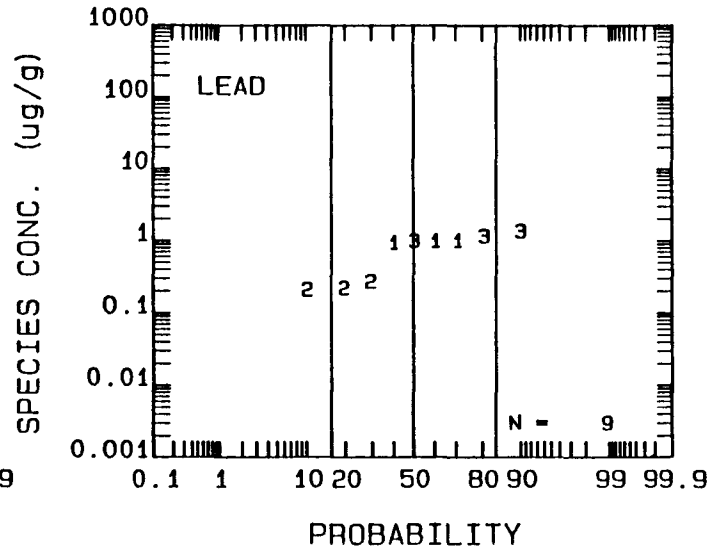
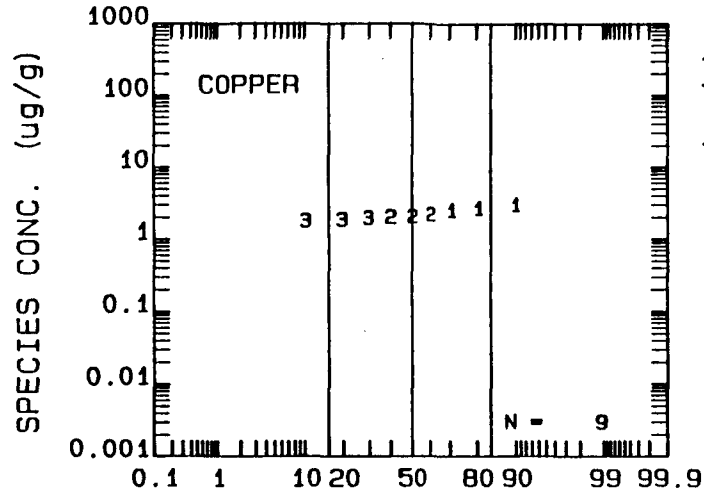
K-79

AREA 1, MUSSEL.



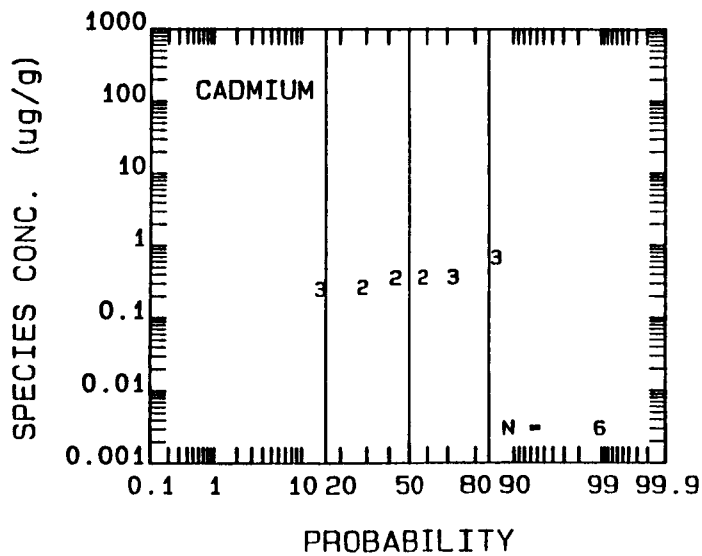
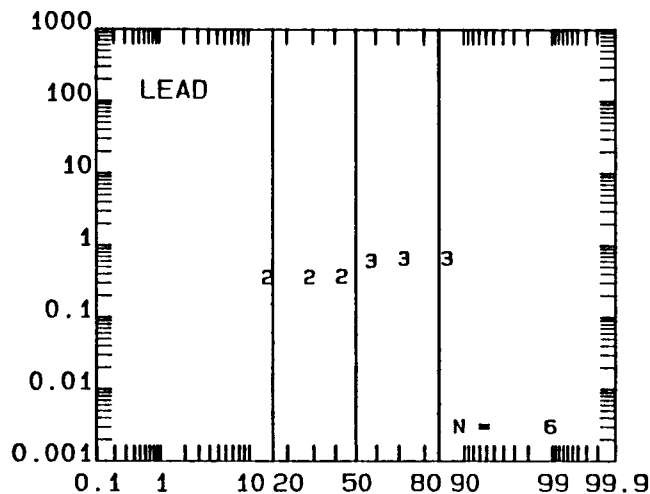
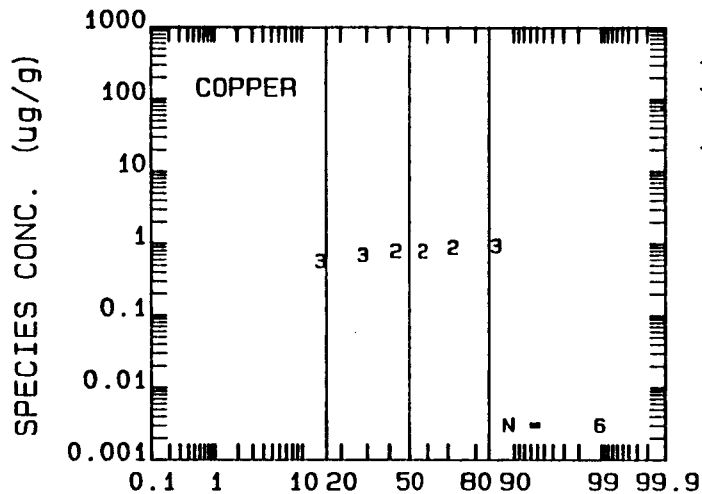
08-K

AREA 2, MUSSEL,

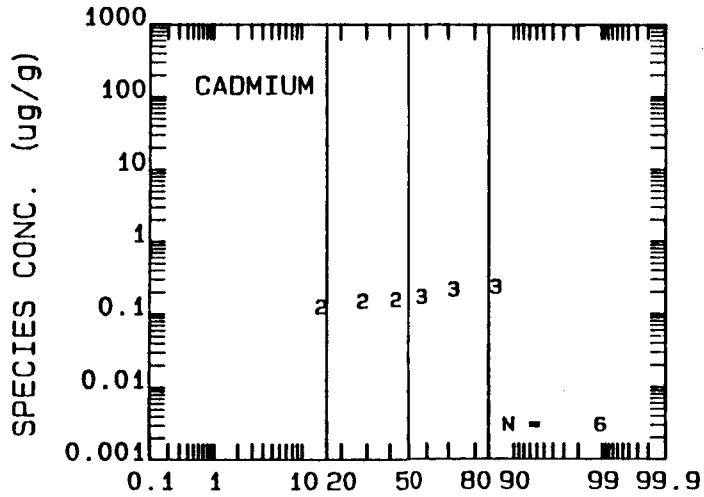
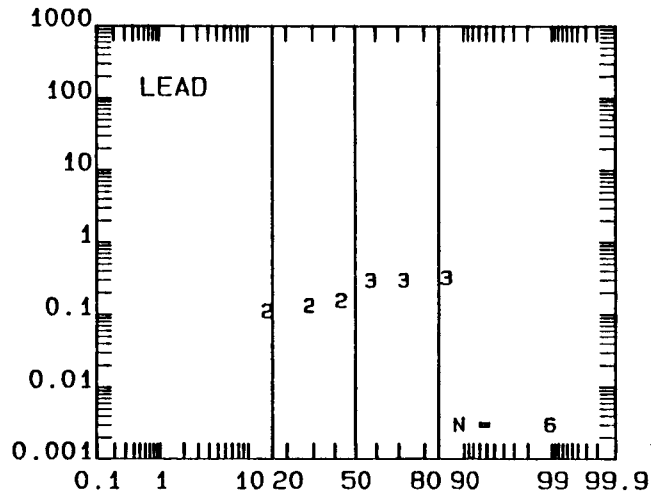
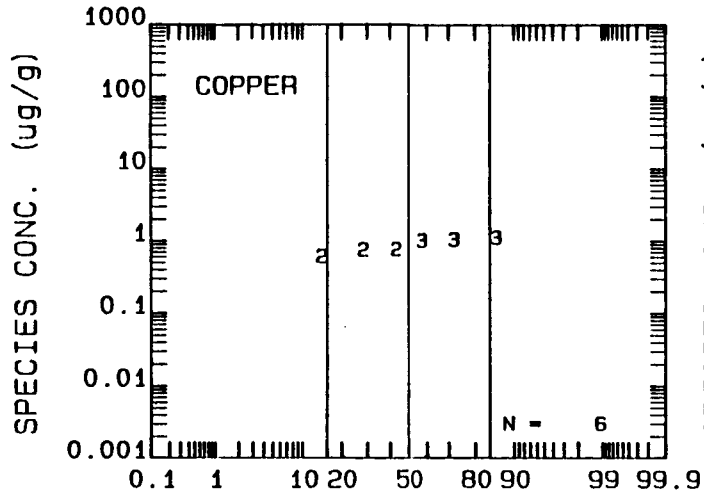


K-81

AREA 3, MUSSEL.



AREA 4, MUSSEL,



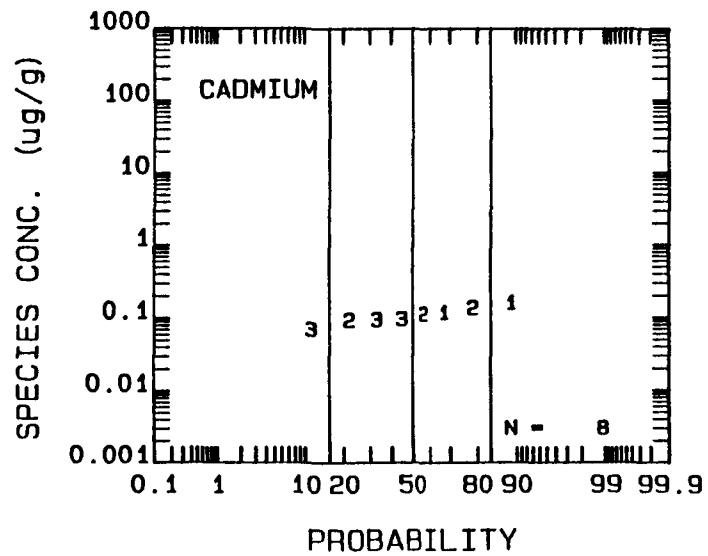
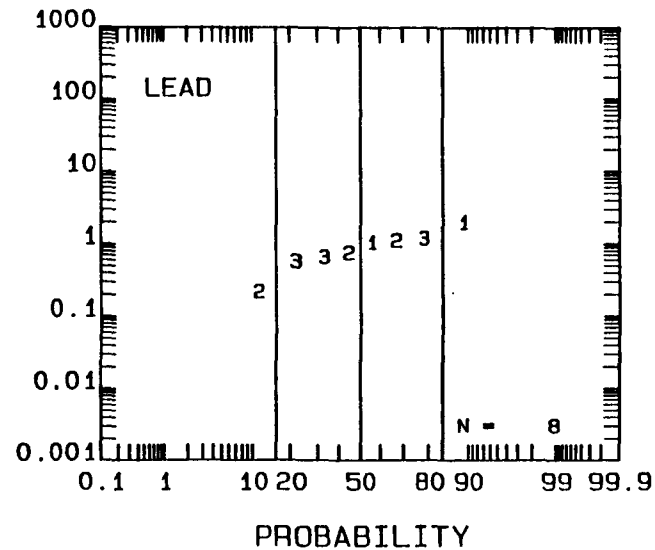
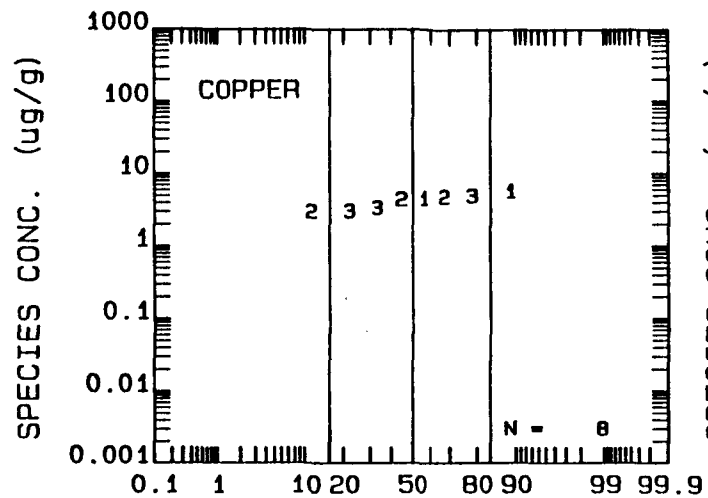
PROBABILITY

PROBABILITY

K-82

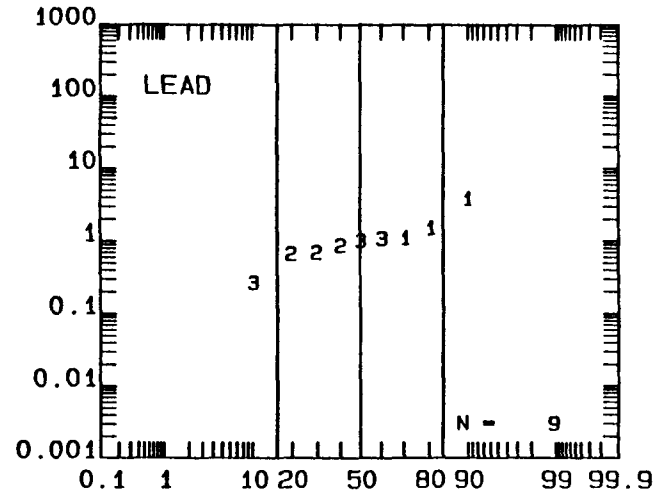
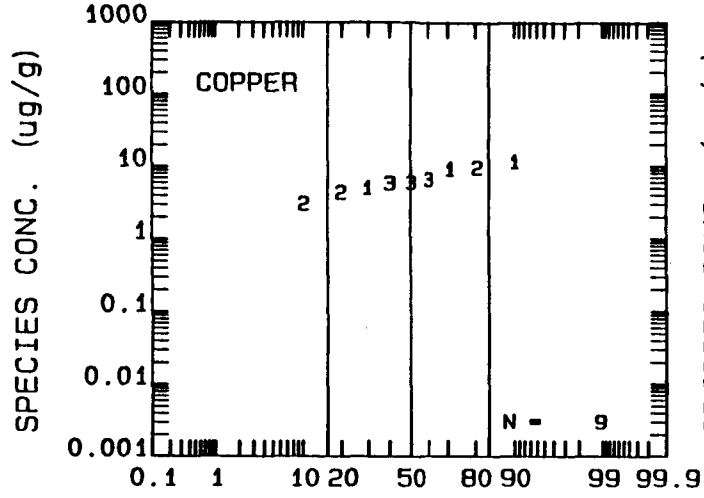
K-83

AREA 1, CLAM, MEDIUM

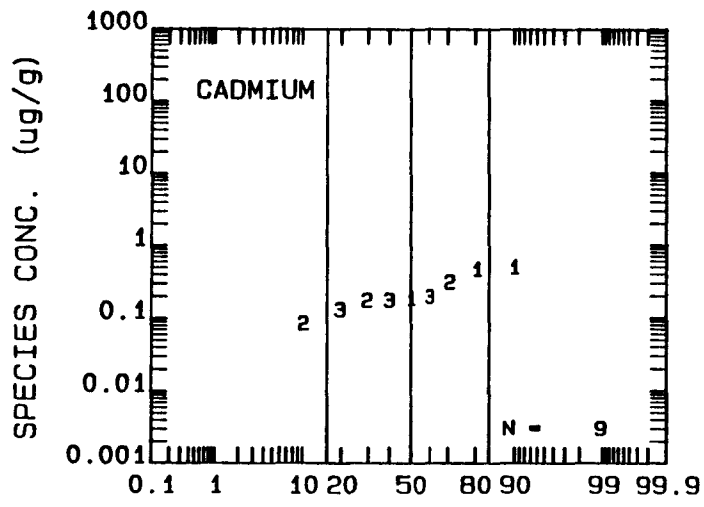


K-84

AREA 1, CLAM, LARGE



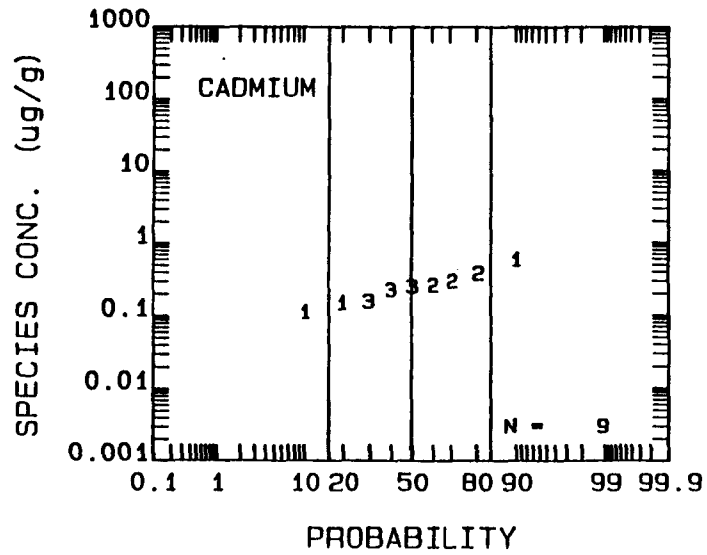
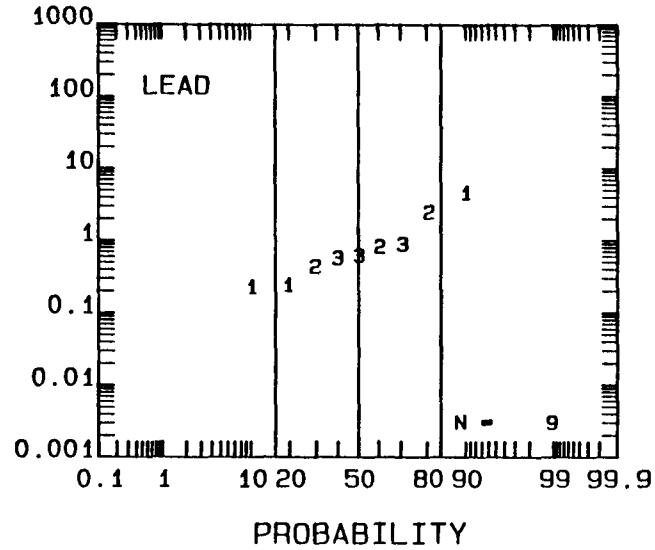
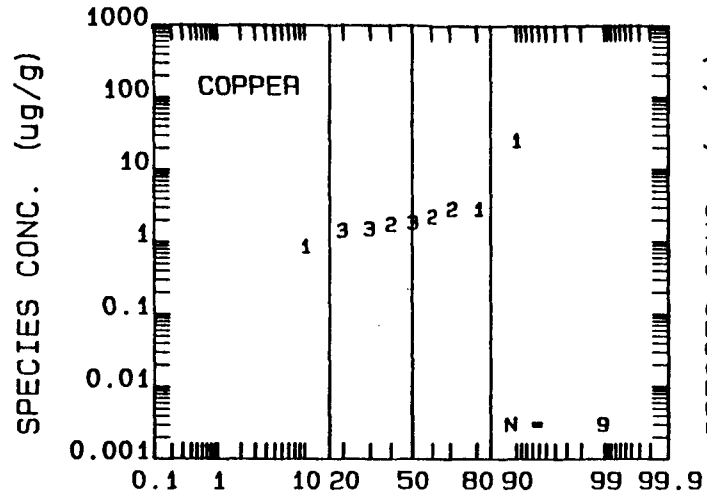
PROBABILITY



PROBABILITY

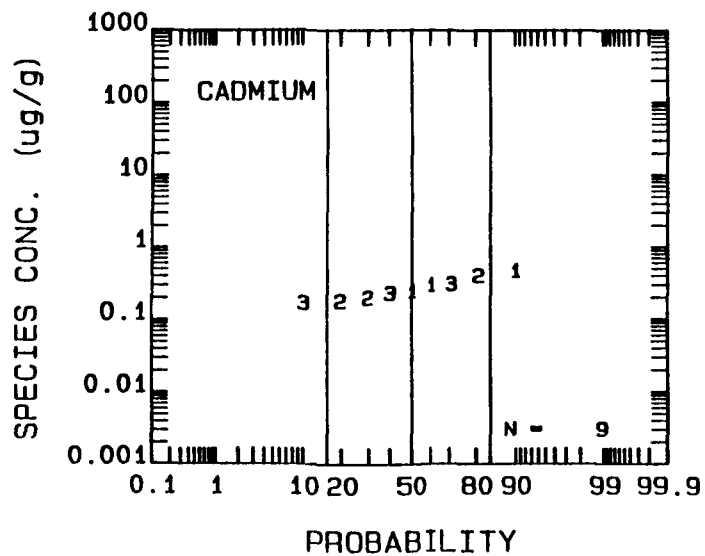
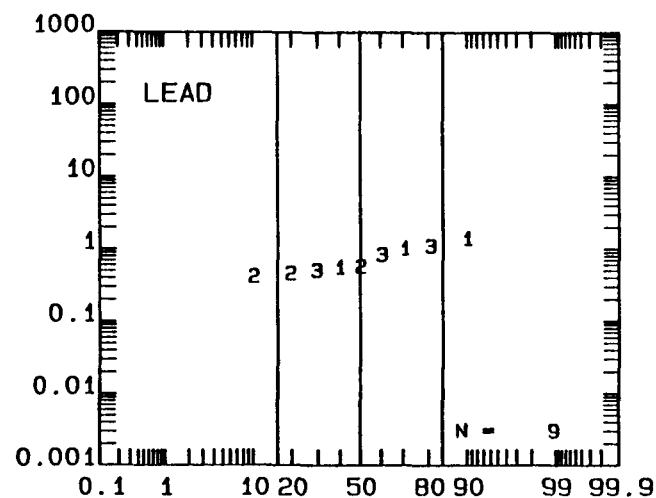
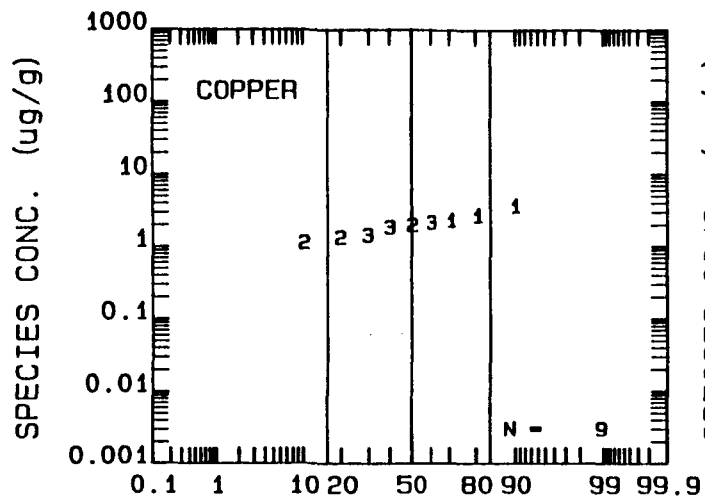
K-85

AREA 2, CLAM, MEDIUM



K-86

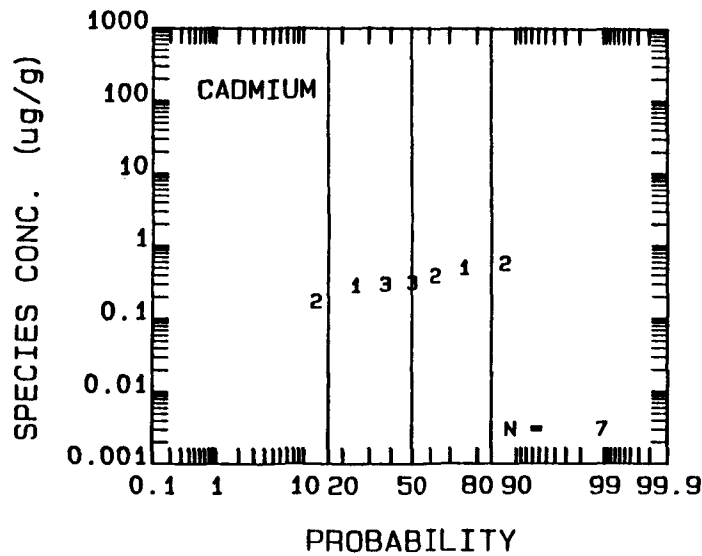
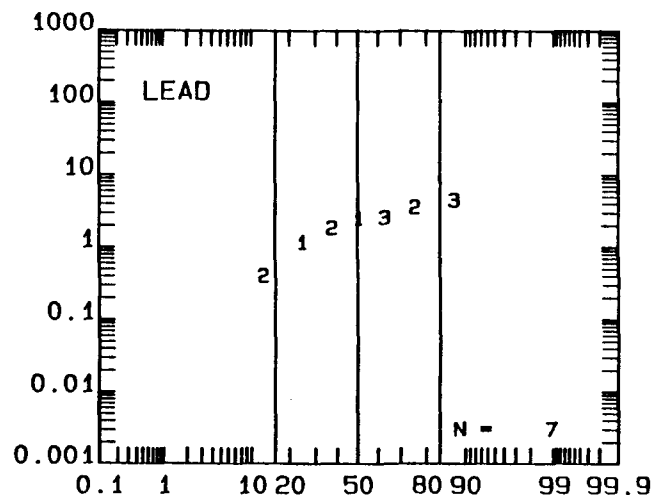
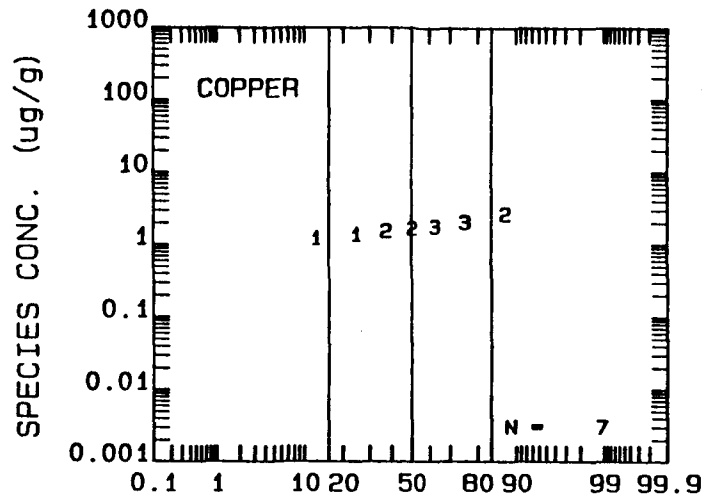
AREA 2, CLAM, LARGE



PROBABILITY

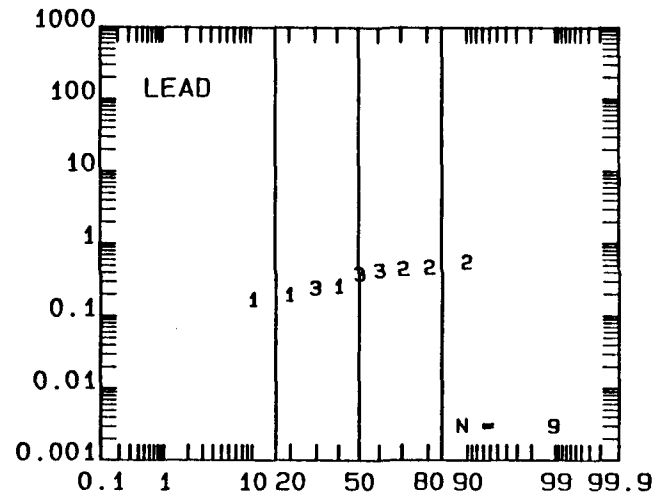
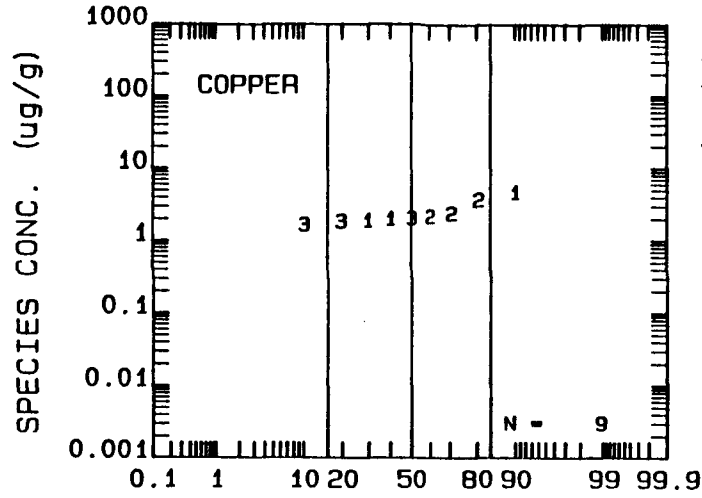
K-87

AREA 3, CLAM, MEDIUM

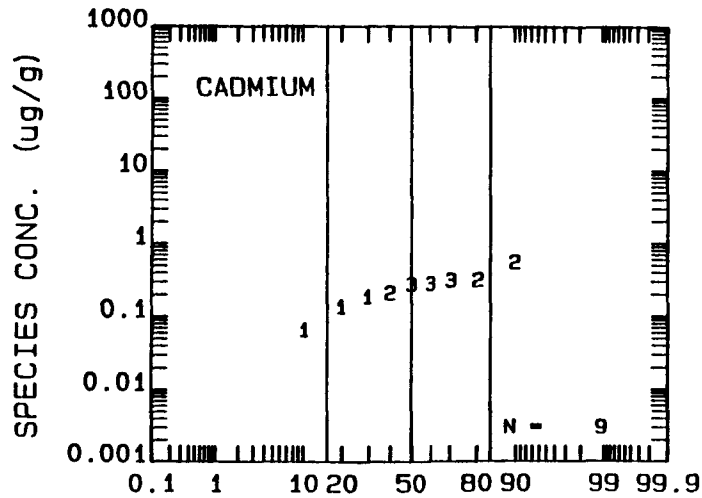


K-88

AREA 3, CLAM, LARGE



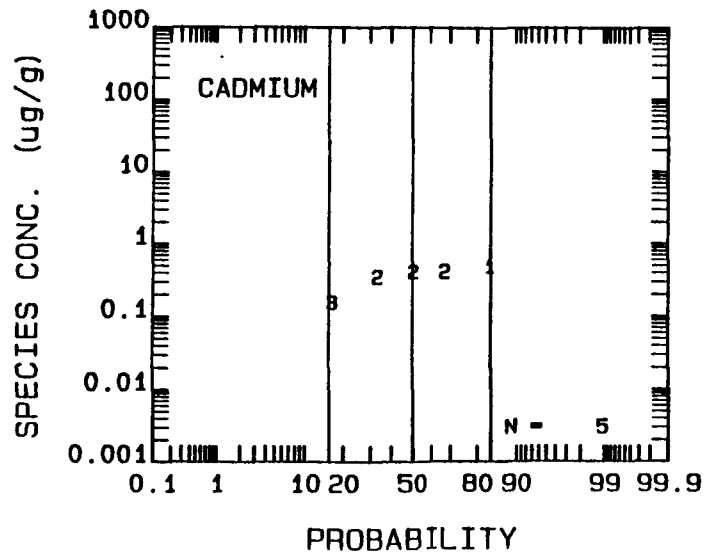
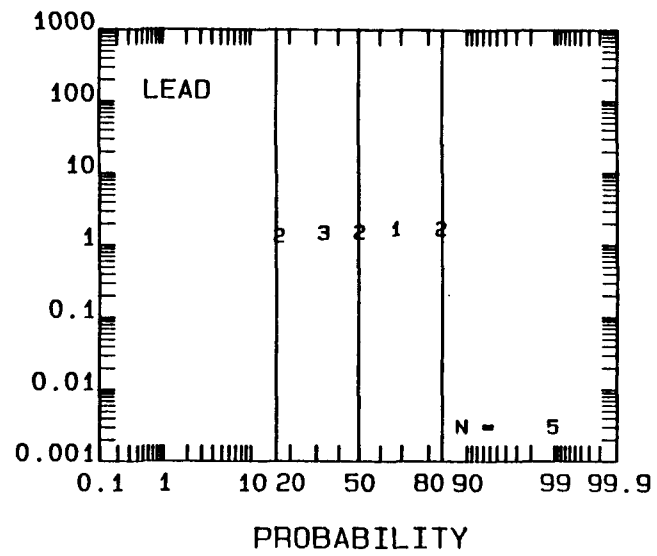
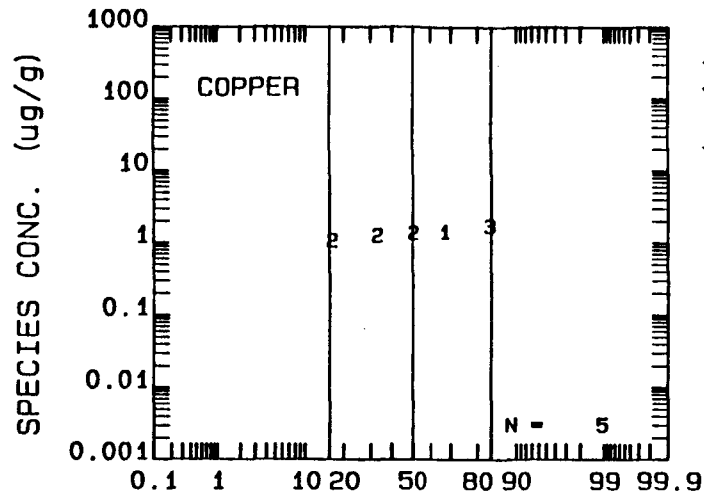
PROBABILITY



PROBABILITY

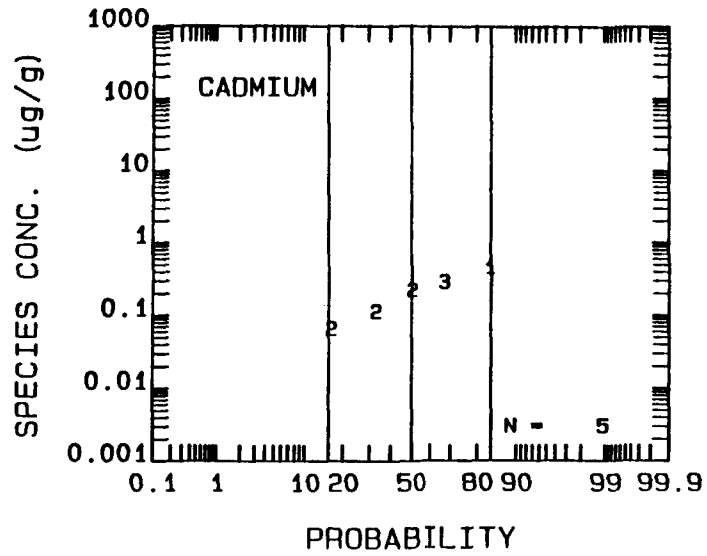
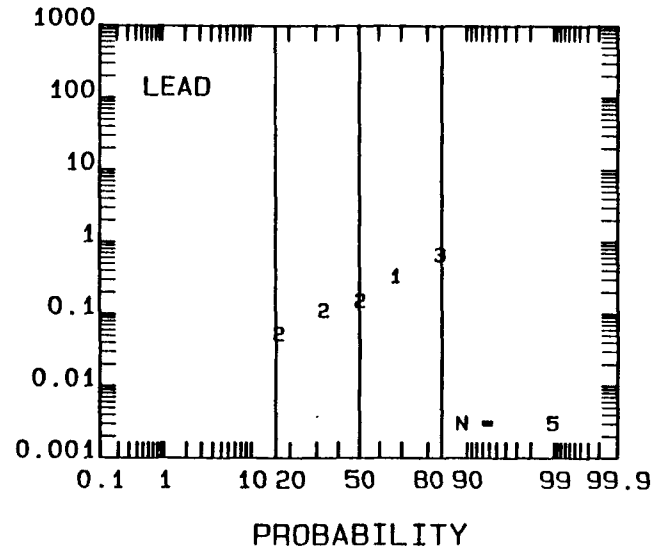
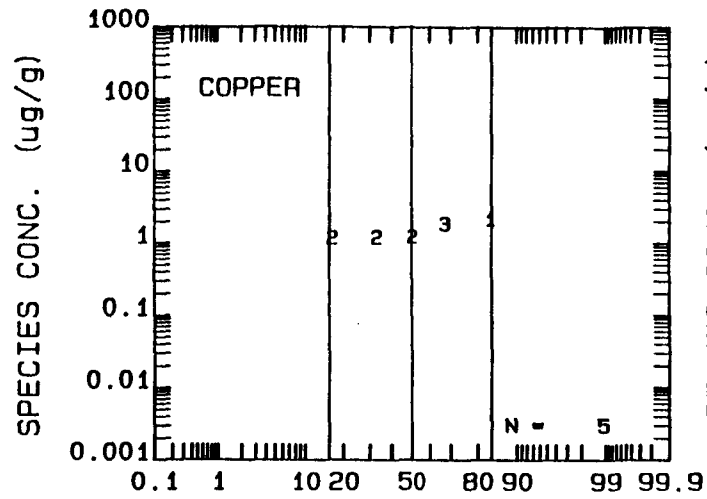
68-K

AREA 4, CLAM, MEDIUM



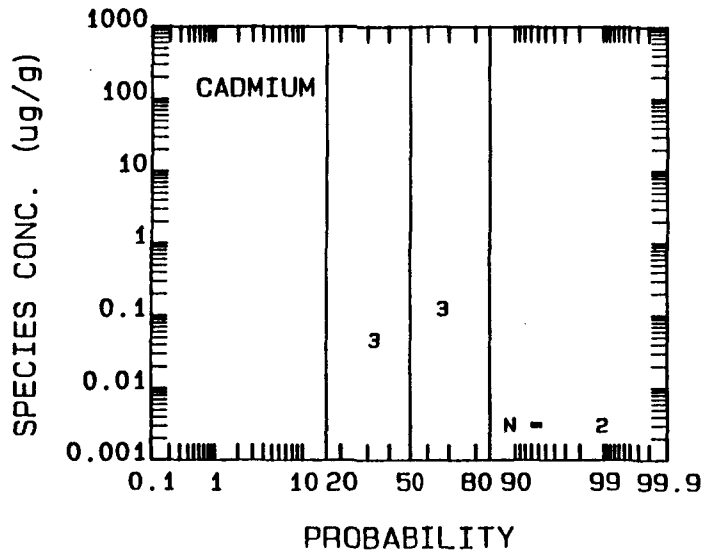
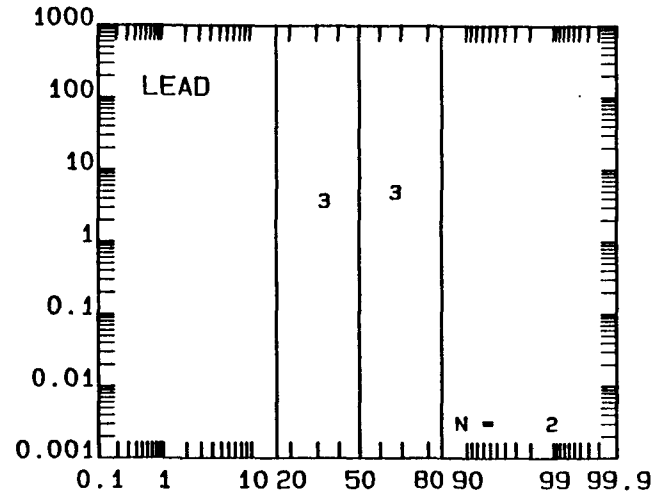
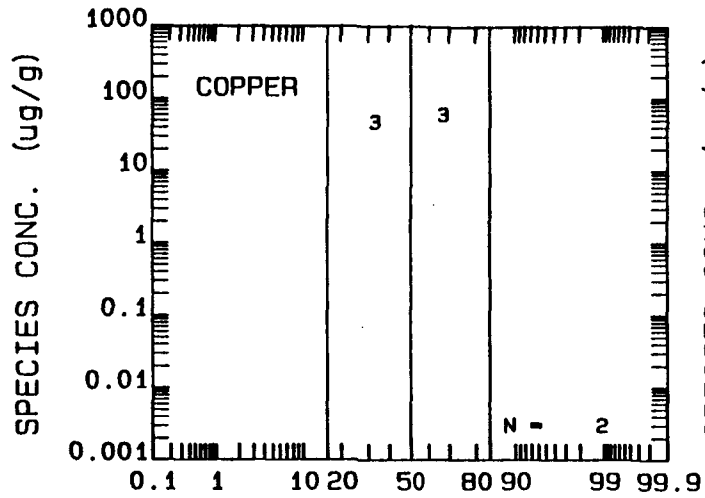
K-90

AREA 4, CLAM, LARGE



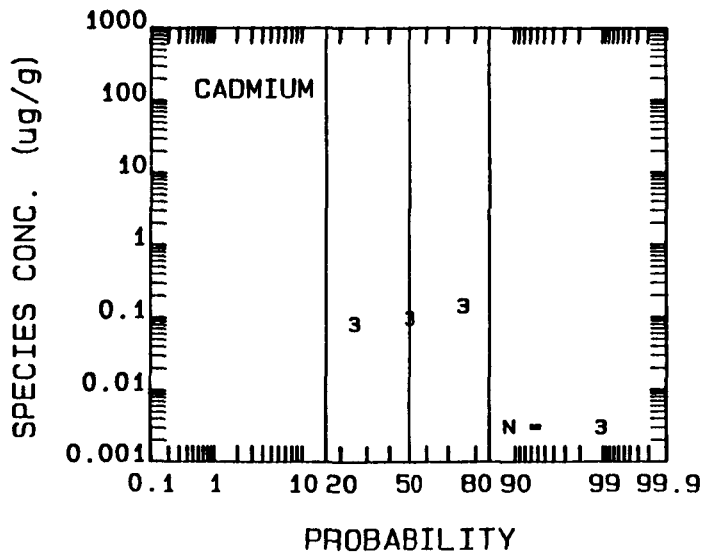
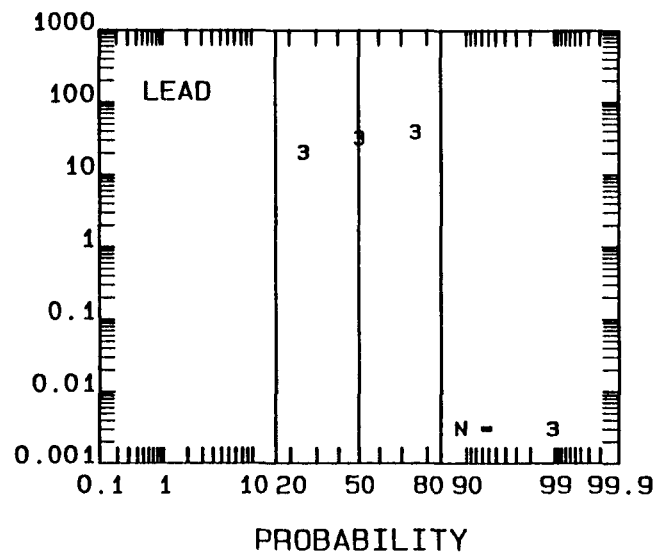
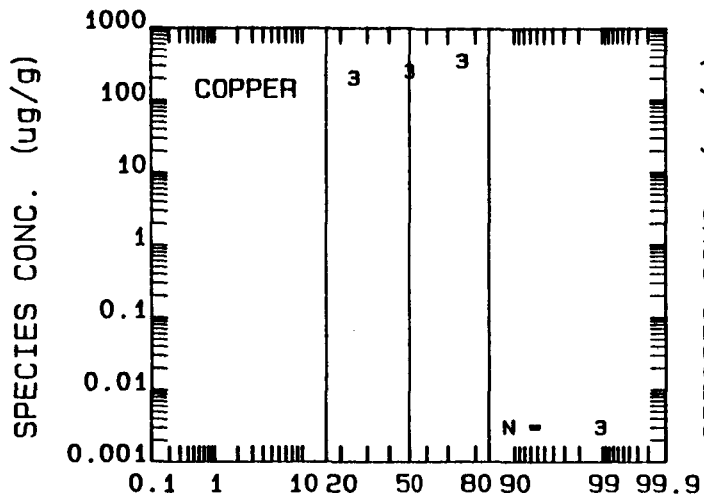
K-91

AREA 1, GREEN CRAB, SMALL



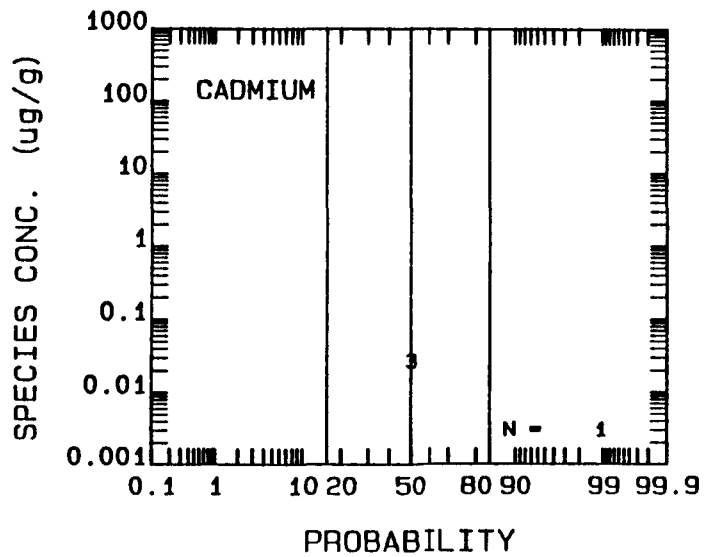
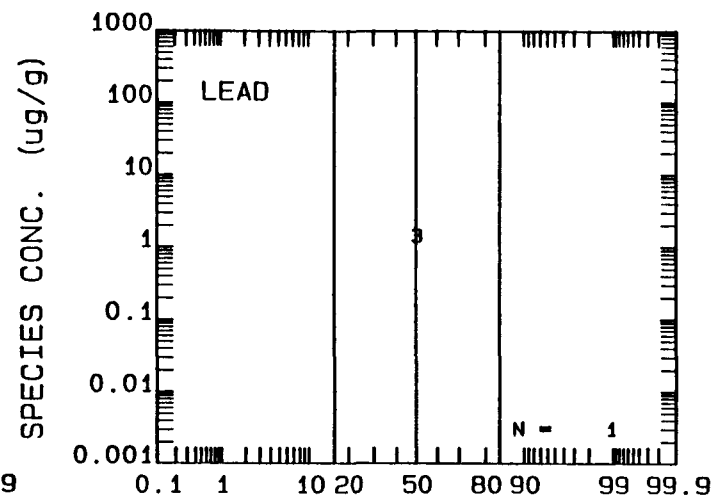
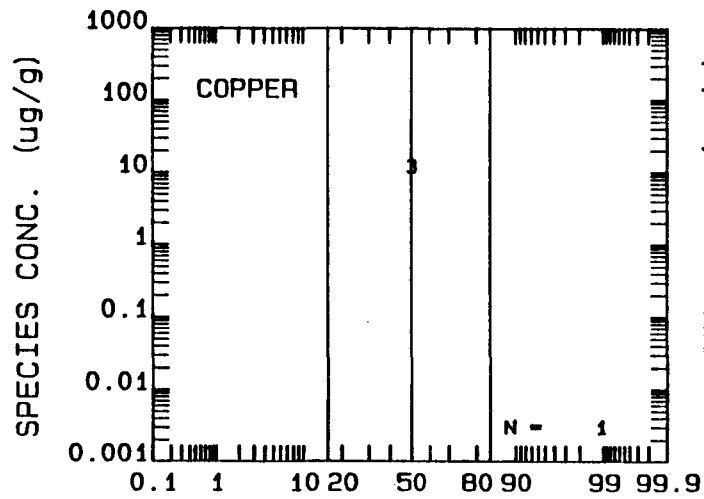
K-92

AREA 1, GREEN CRAB, LARGE



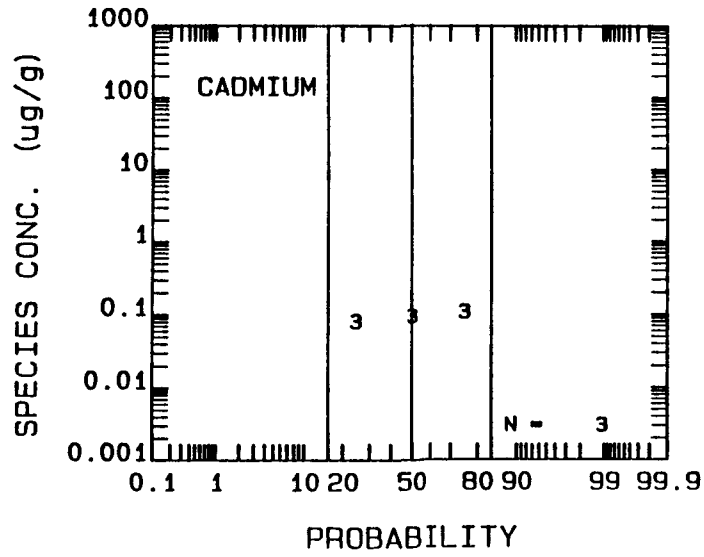
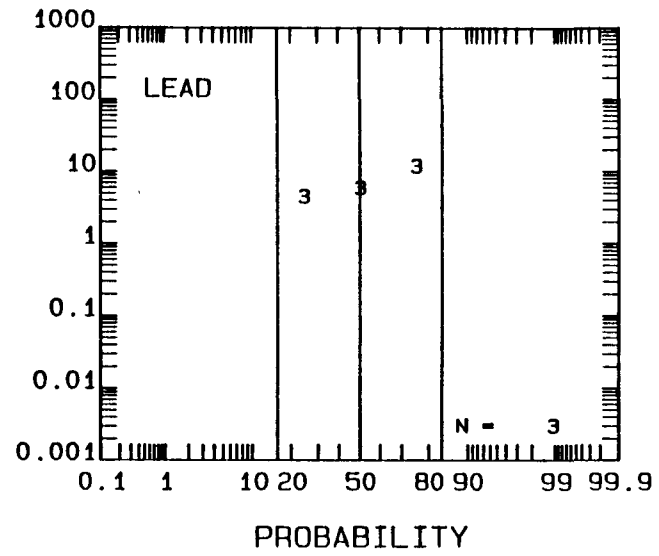
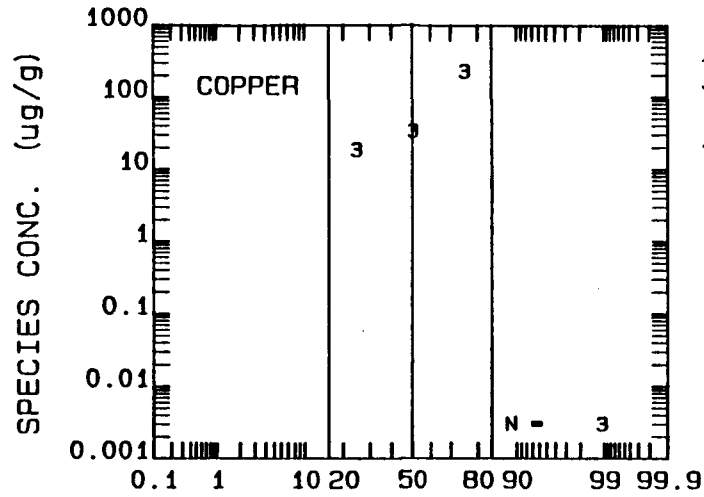
K-93

AREA 2, GREEN CRAB, SMALL



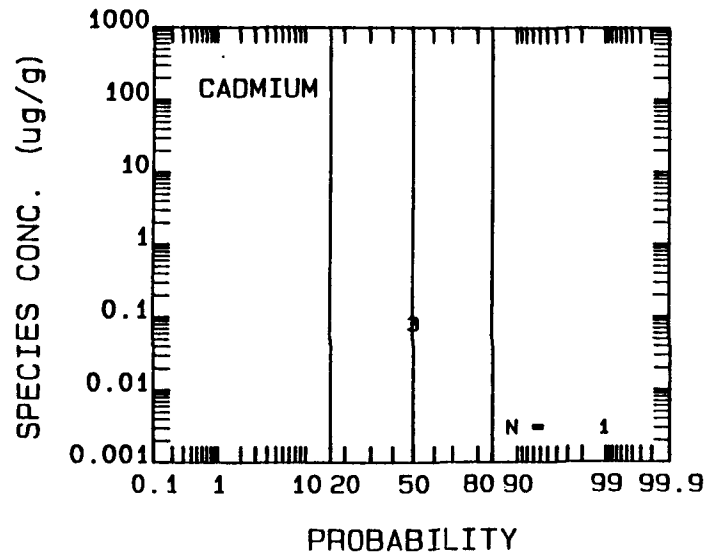
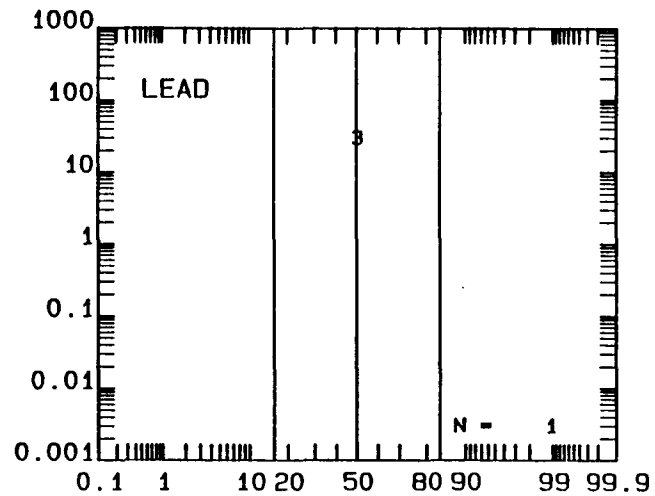
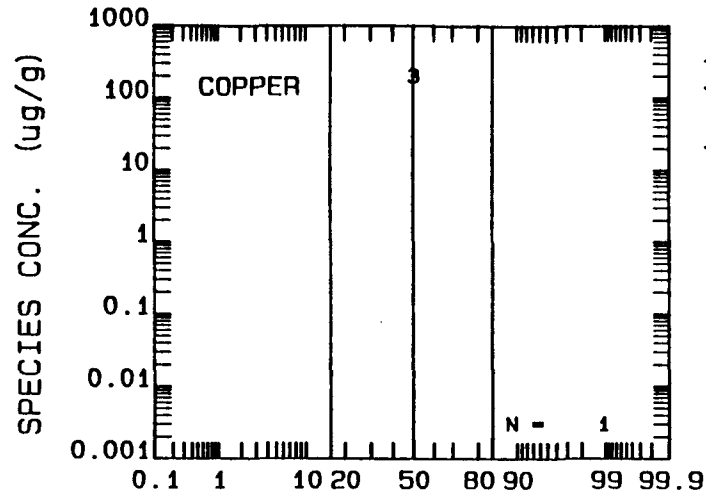
K-94

AREA 2, GREEN CRAB, LARGE



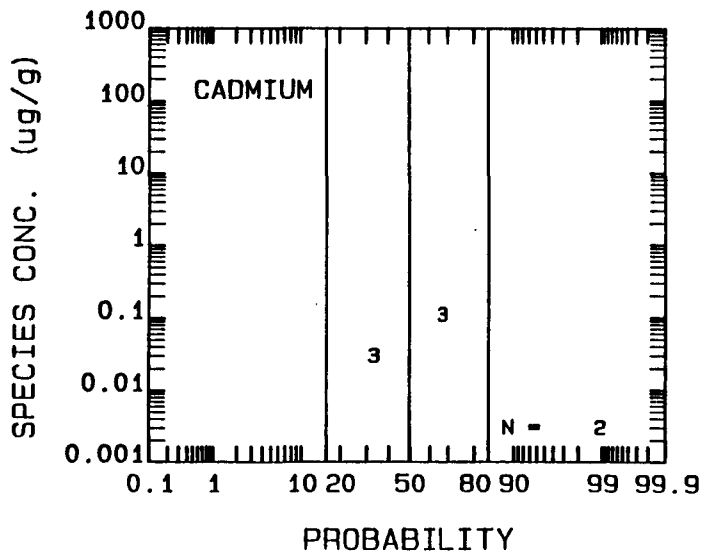
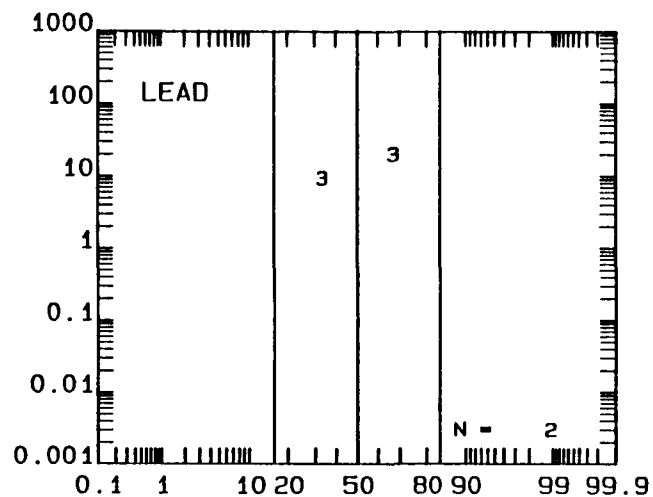
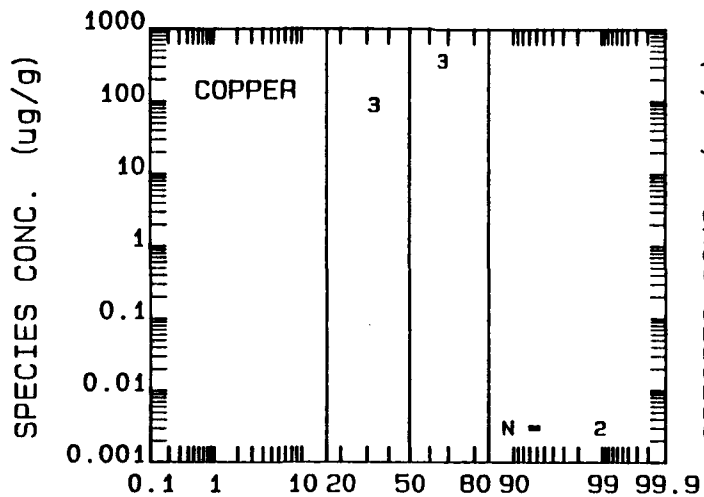
K-95

AREA 3, GREEN CRAB, LARGE

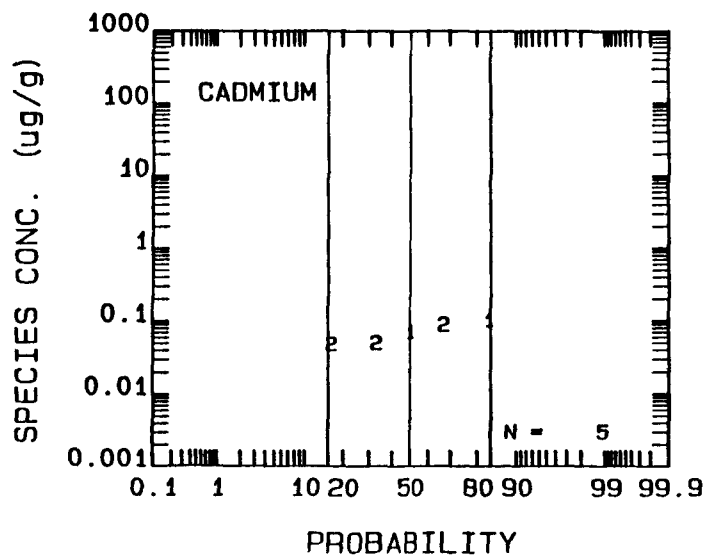
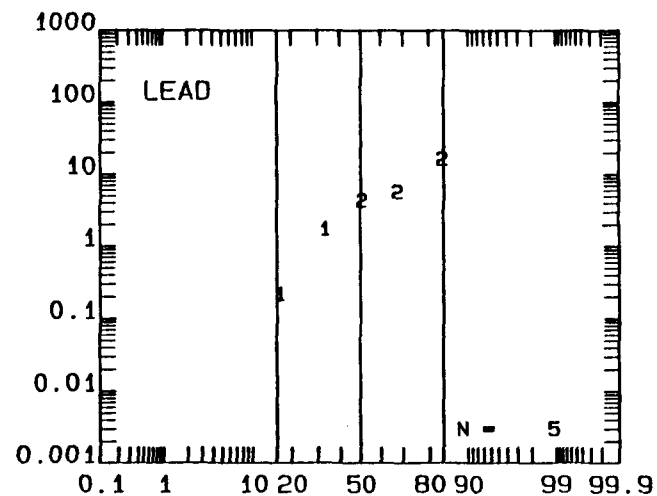
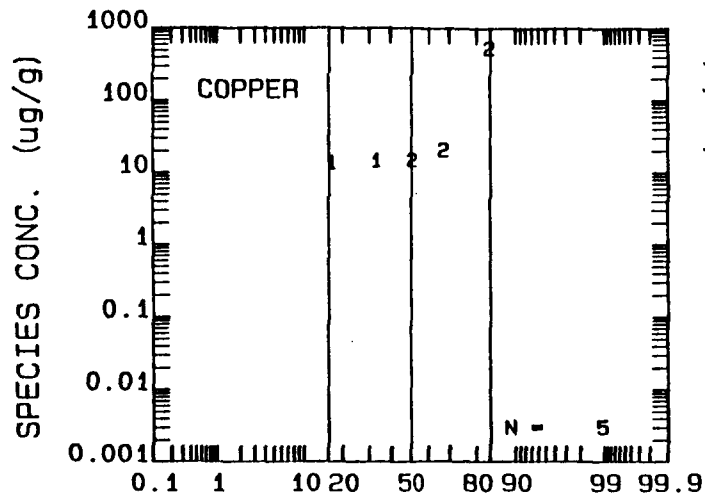


K-96

AREA 4, GREEN CRAB, LARGE



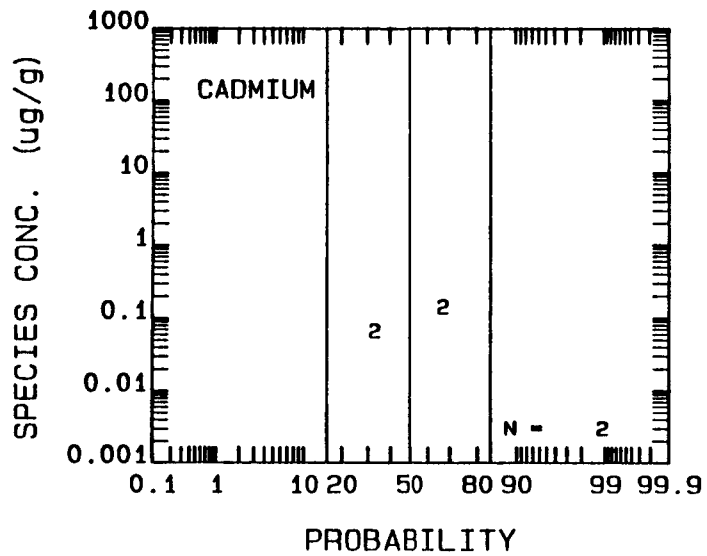
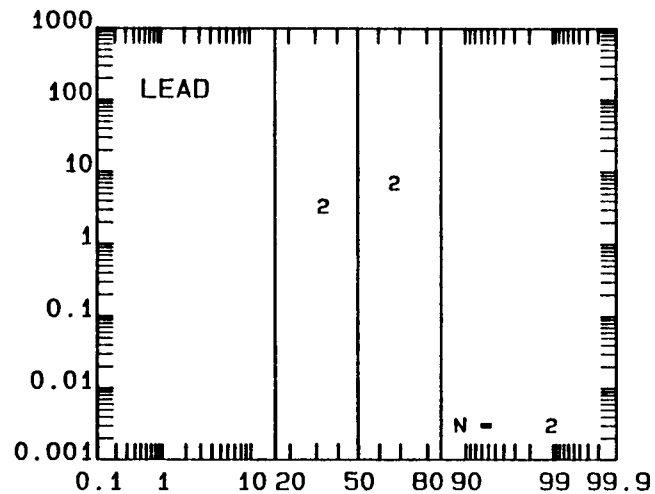
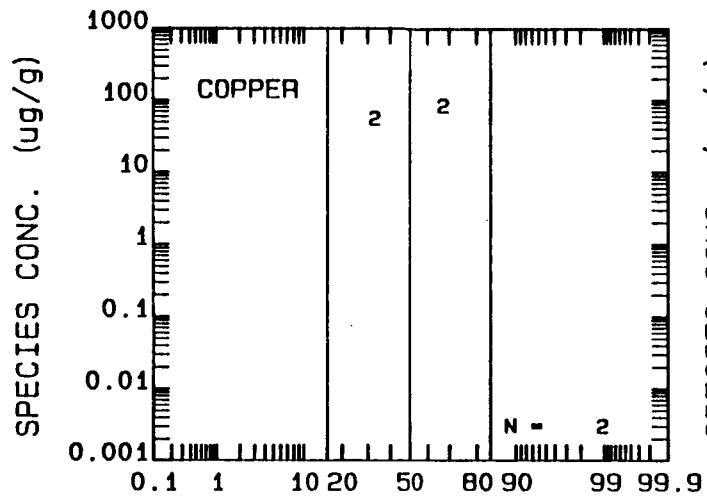
AREA 1, SPIDER CRAB, LARGE



K-97

K-98

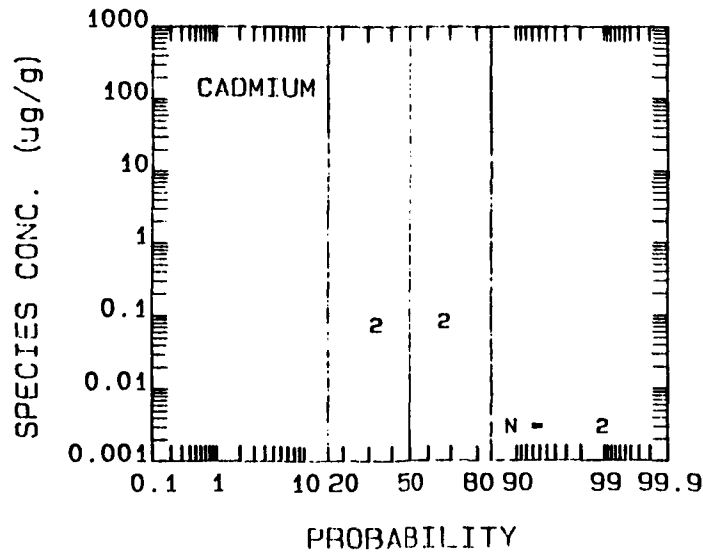
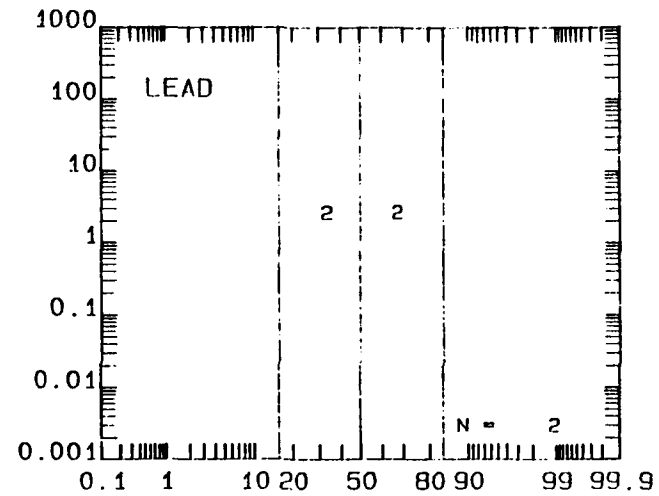
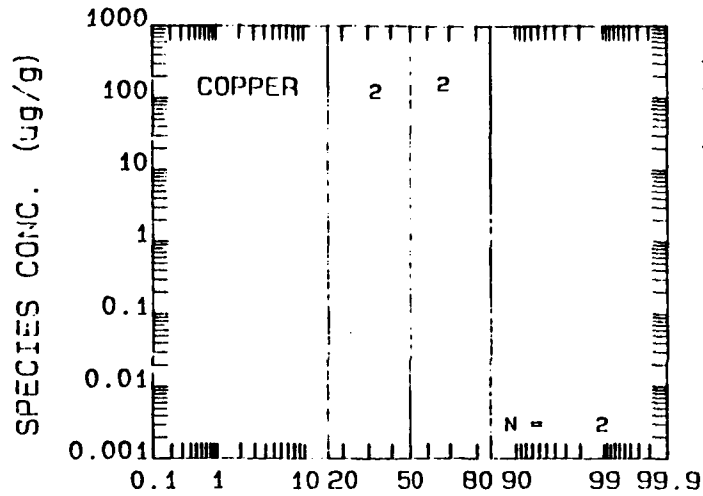
AREA 2, SPIDER CRAB, SMALL



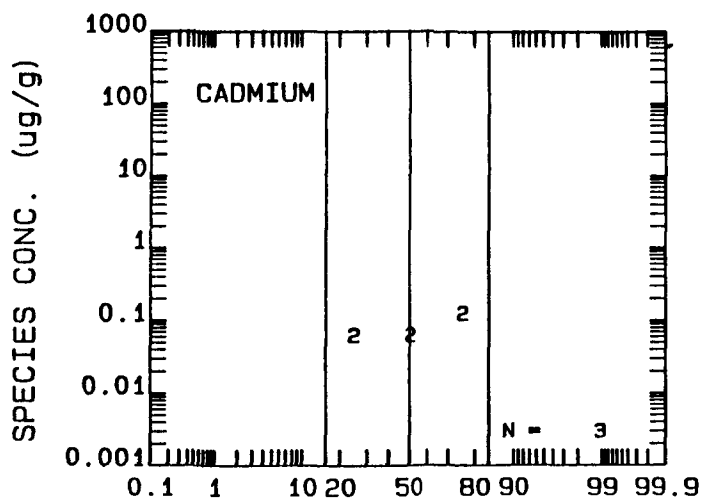
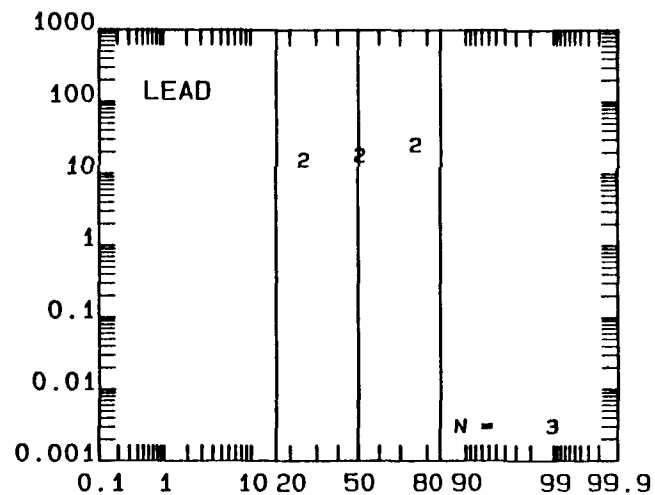
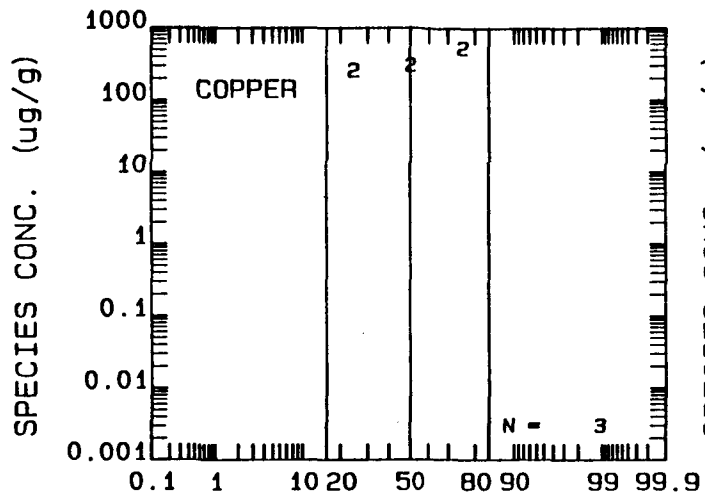
PROBABILITY

K-99

AREA 2, SPIDER CRAB, LARGE



AREA 3, SPIDER CRAB, SMALL

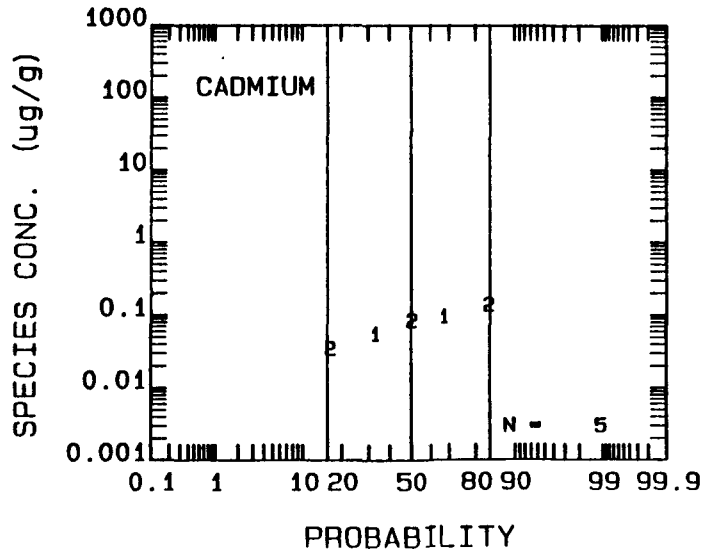
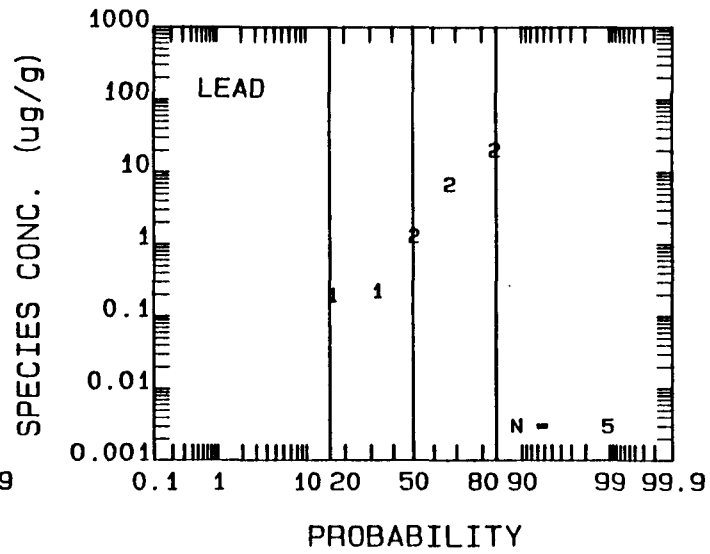
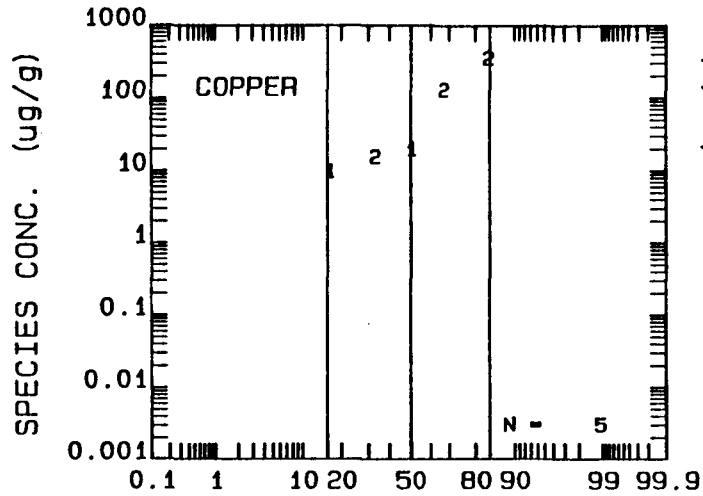


PROBABILITY

K-100

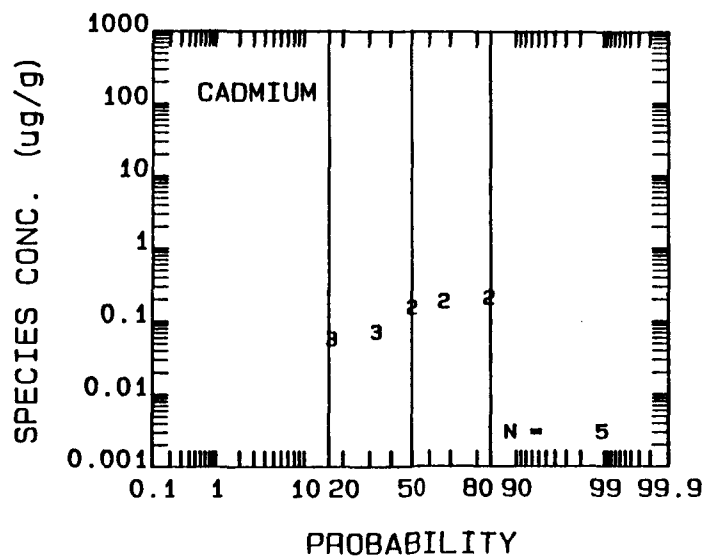
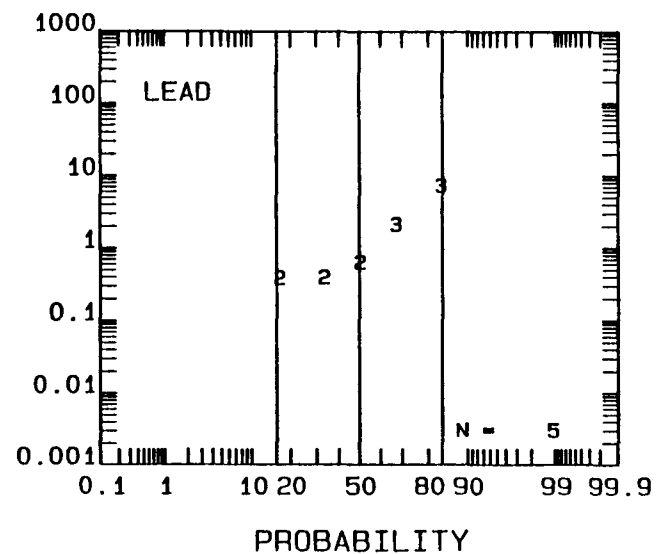
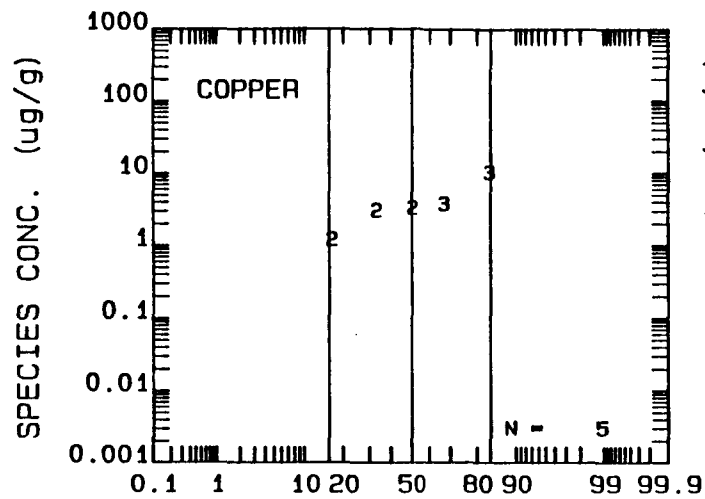
K-101

AREA 3, SPIDER CRAB, LARGE

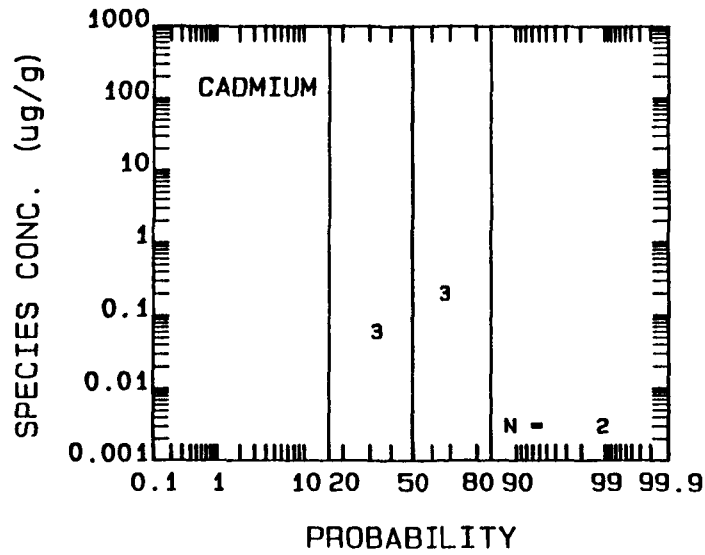
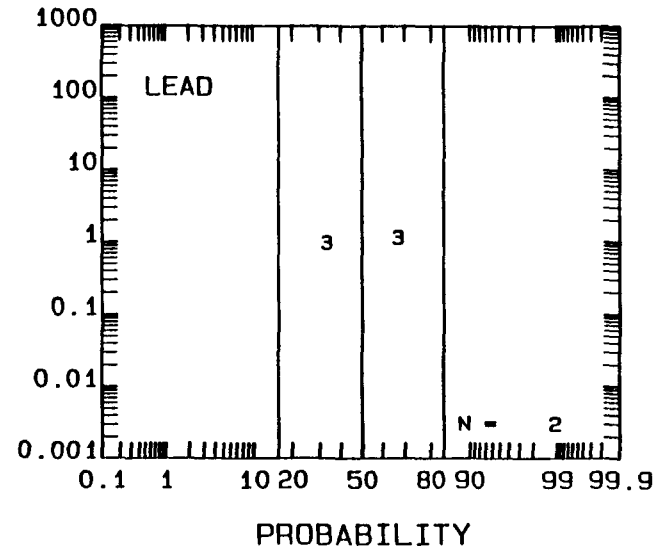
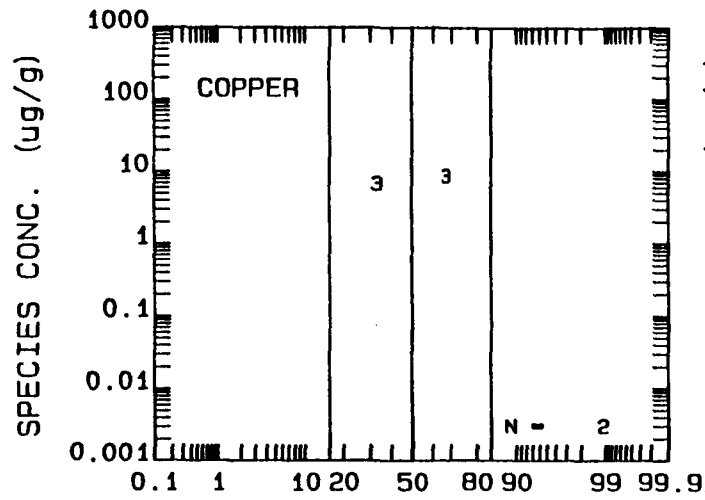


K-102

AREA 3, POLYCHAETE.



AREA 4, POLYCHAETE,



K-103

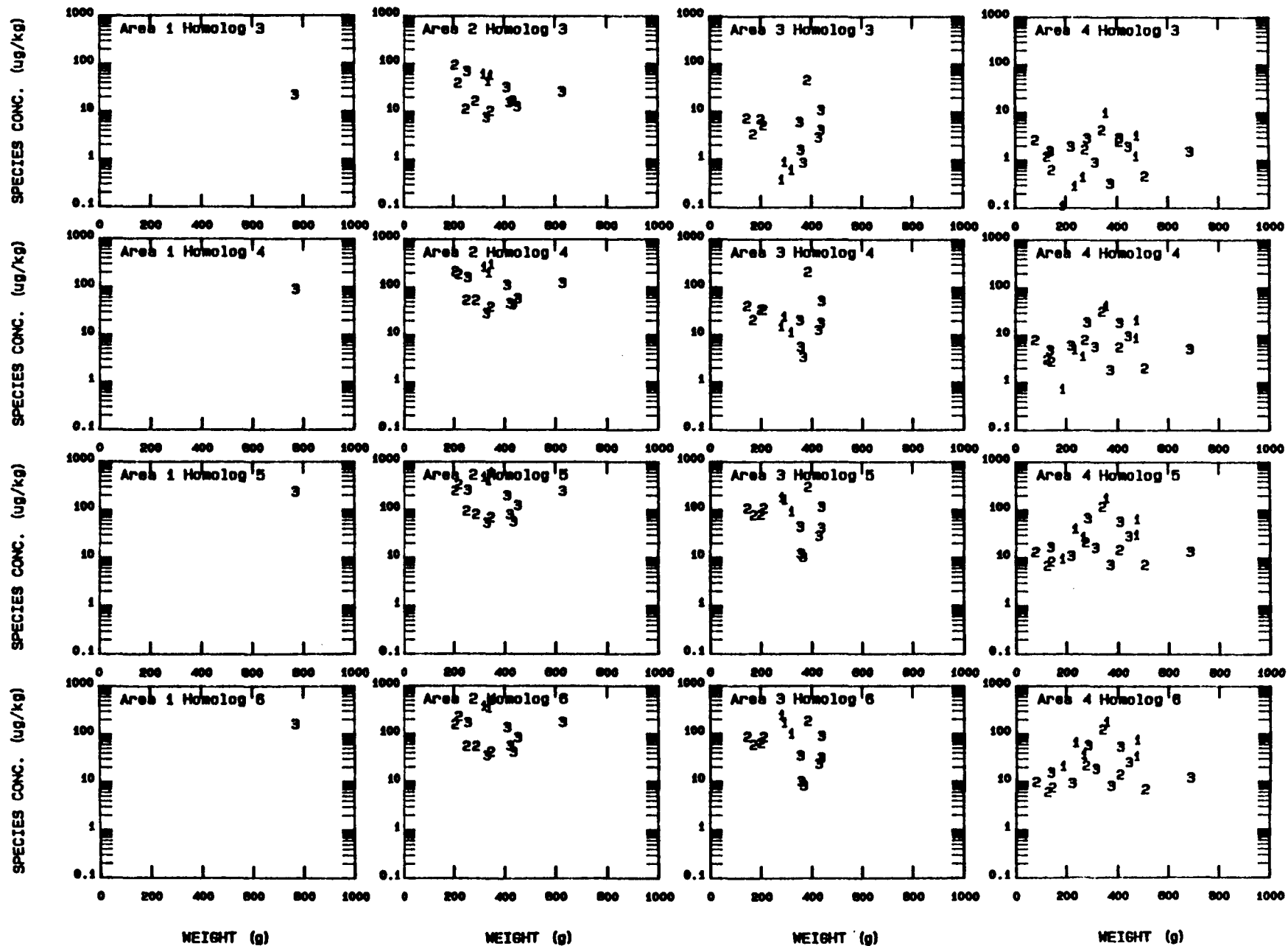
APPENDIX L

CONCENTRATION VERSUS ORGANISM WEIGHT PLOTS

This appendix presents plots of PCB and metals concentration versus organism weight. For each species a plot is presented showing the relationship between homologs 3, 4, 5, 6, cadmium, copper and lead and organism weight. The data from the three cruises are presented on each plot with the plotting symbol being the cruise number.

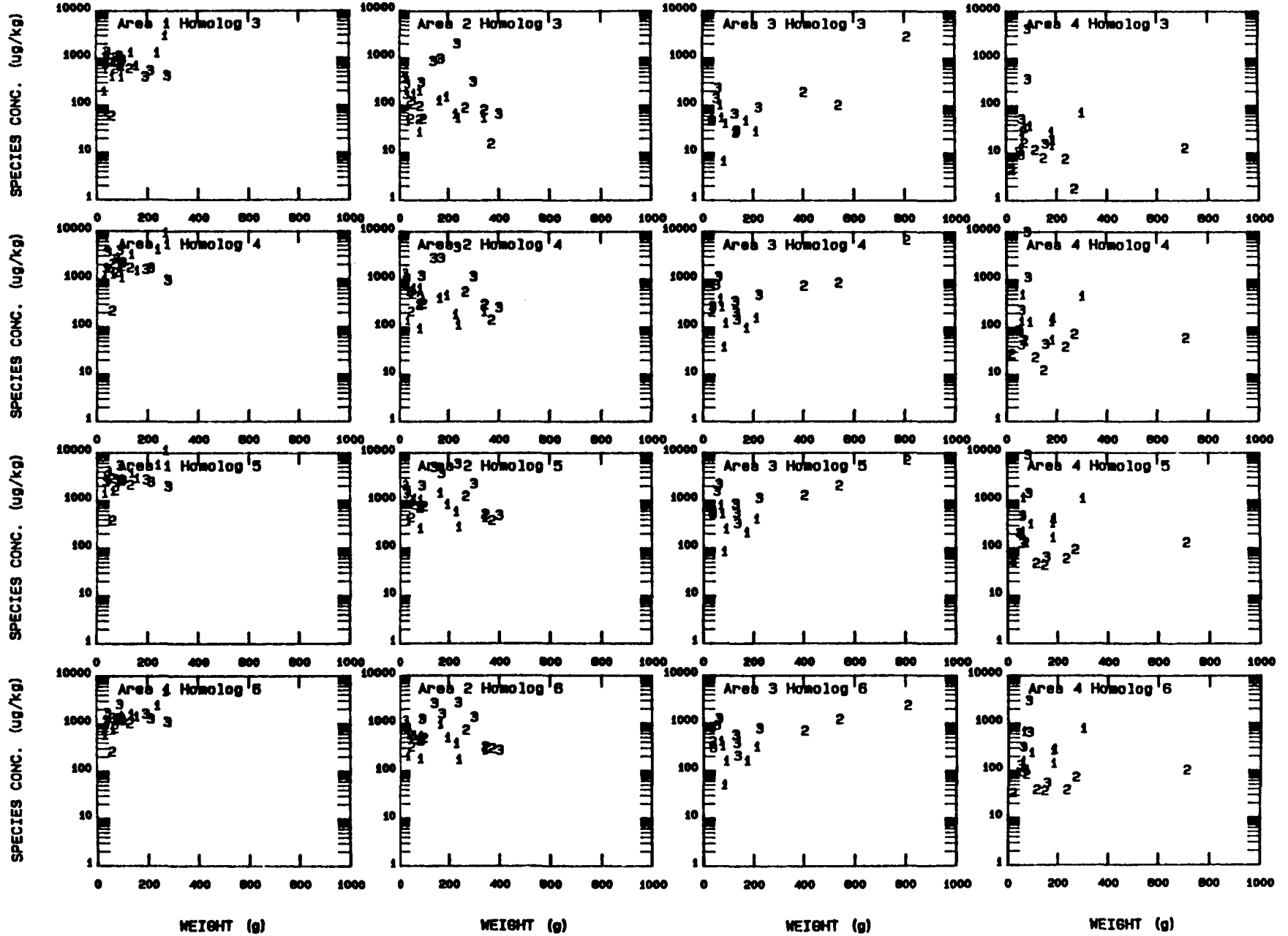
PCB CONCENTRATION VERSUS WEIGHT PLOTS

LOBSTER

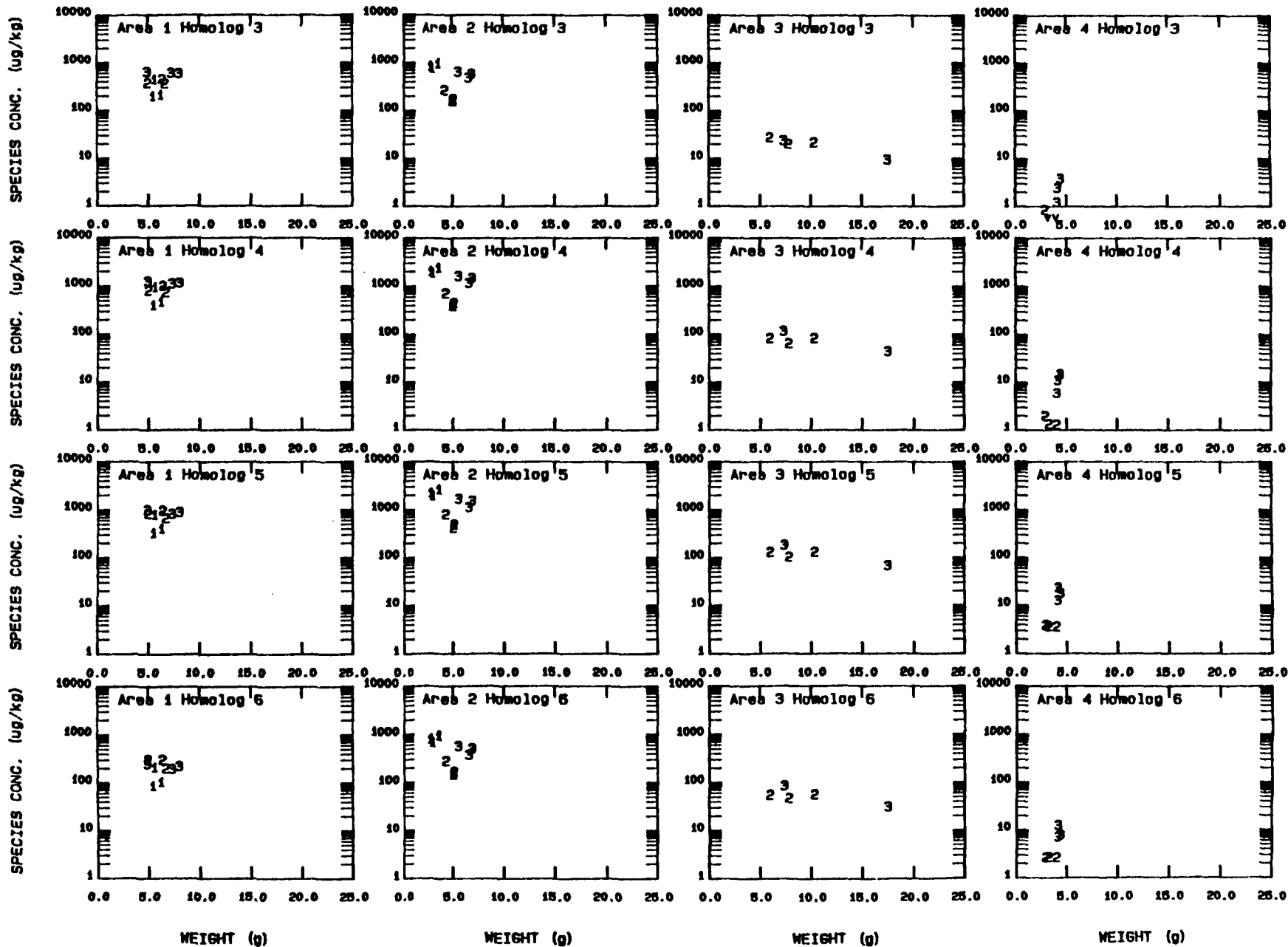


FLOUNDER

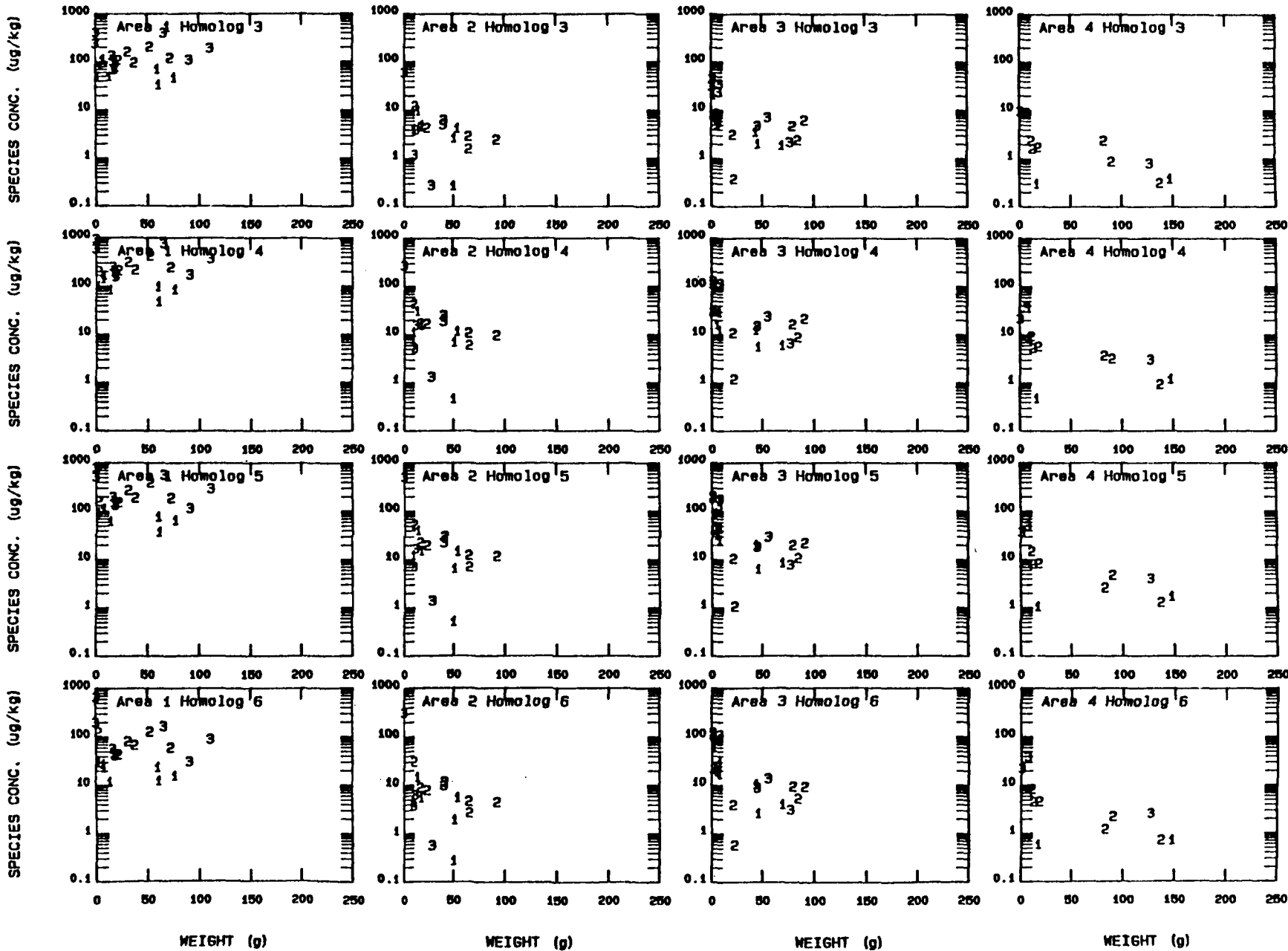
1-2



MUSSEL

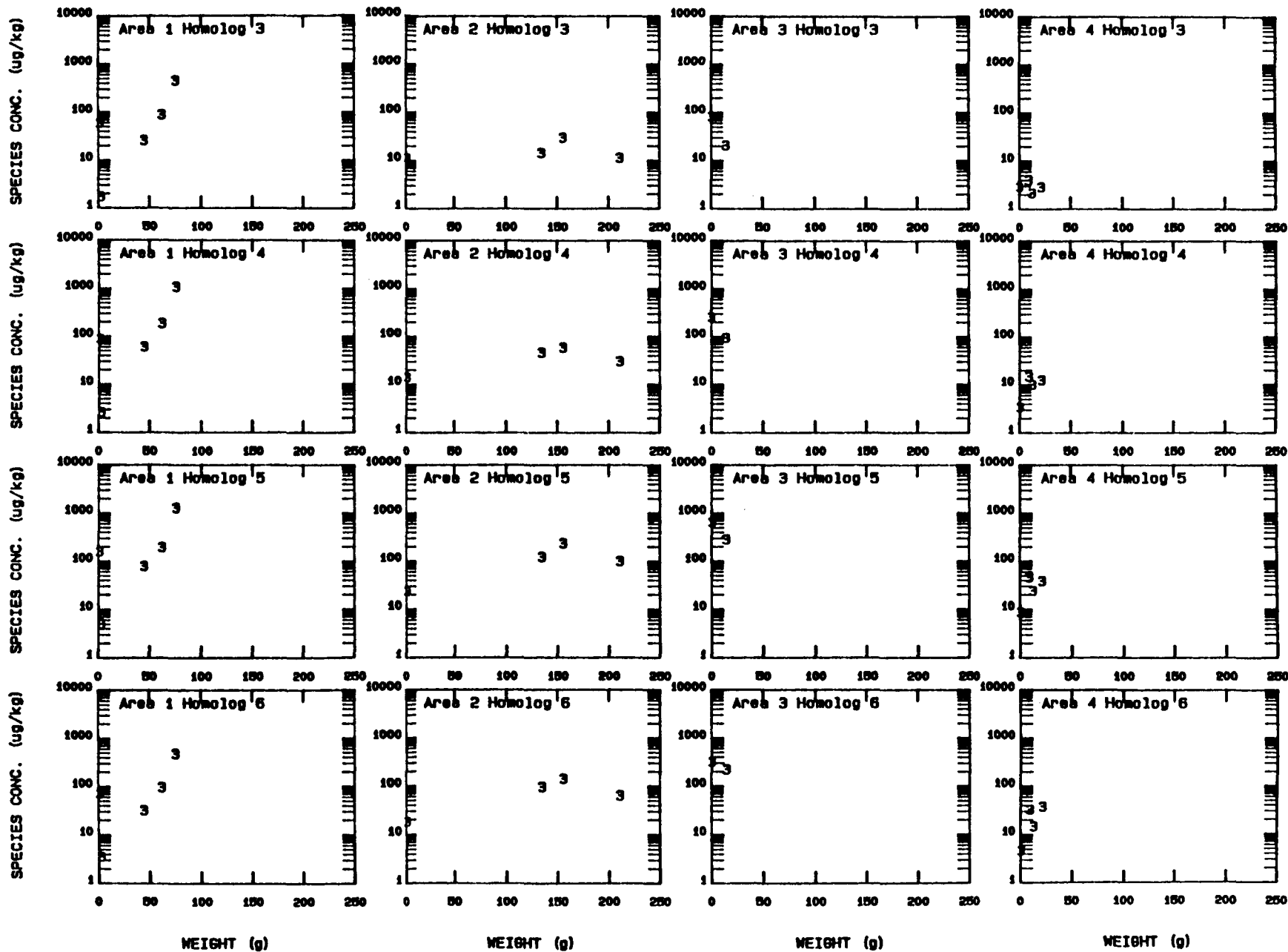


CLAM

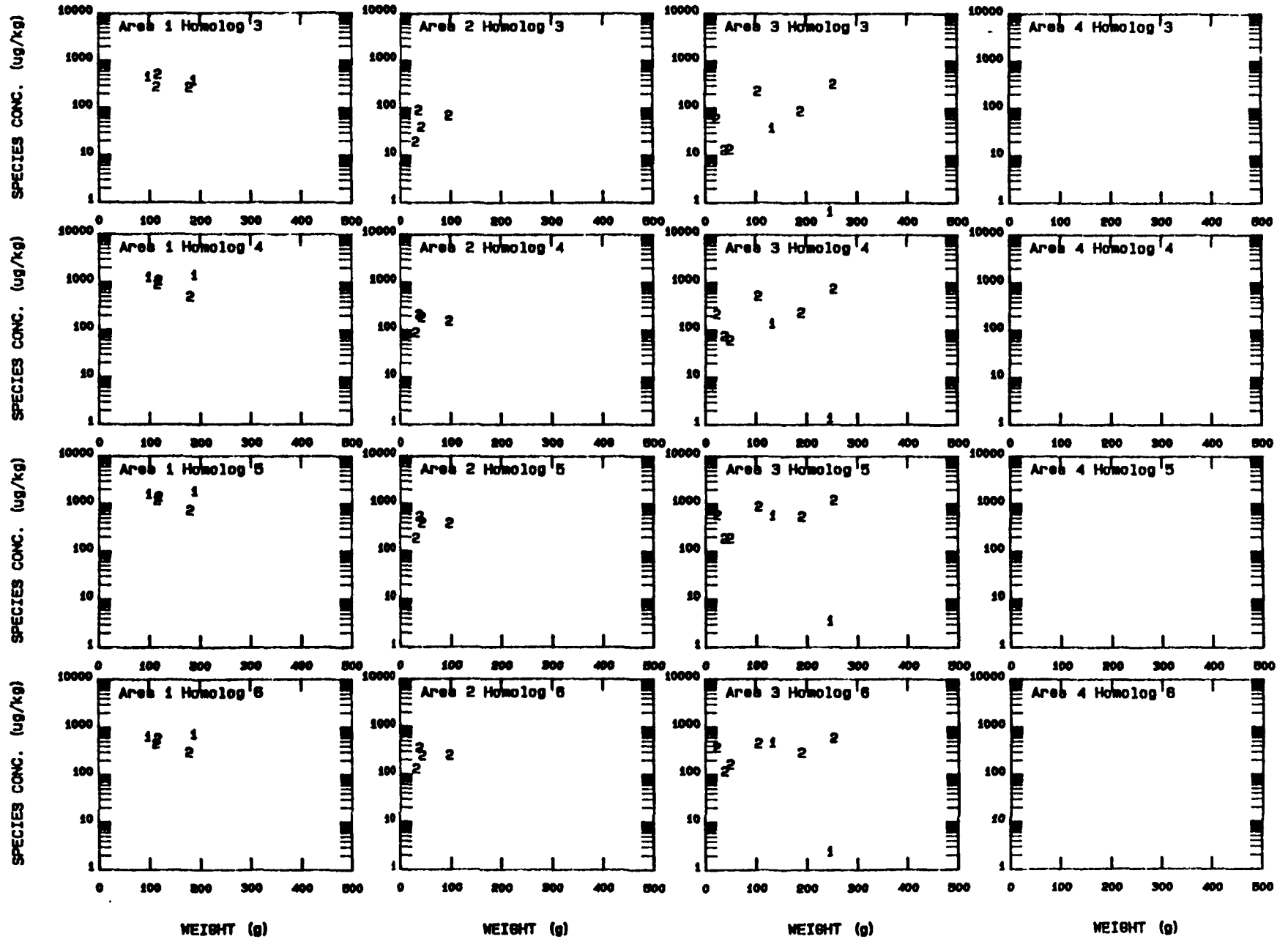


GREEN CRAB

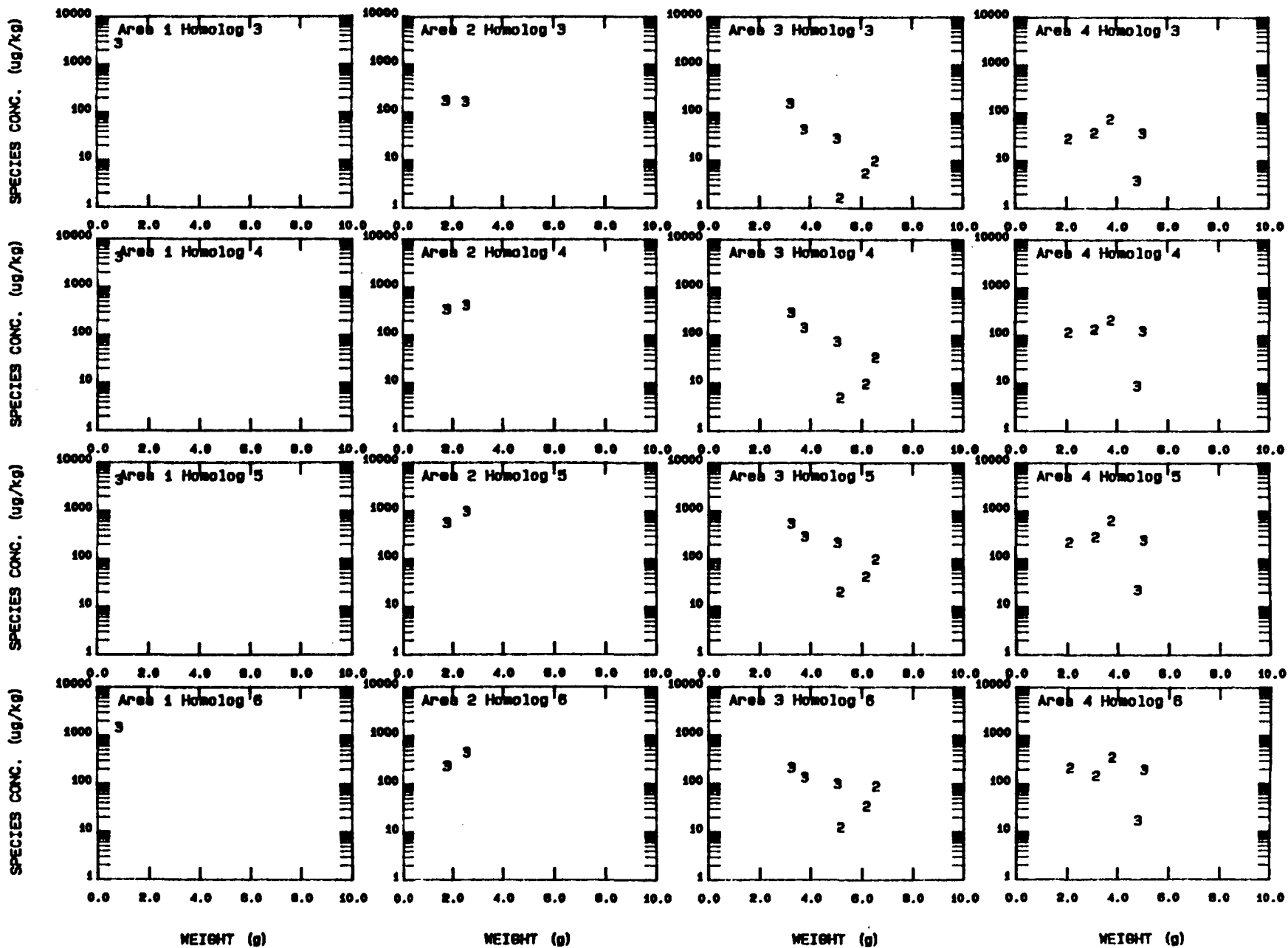
5-7



SPIDER CRAB

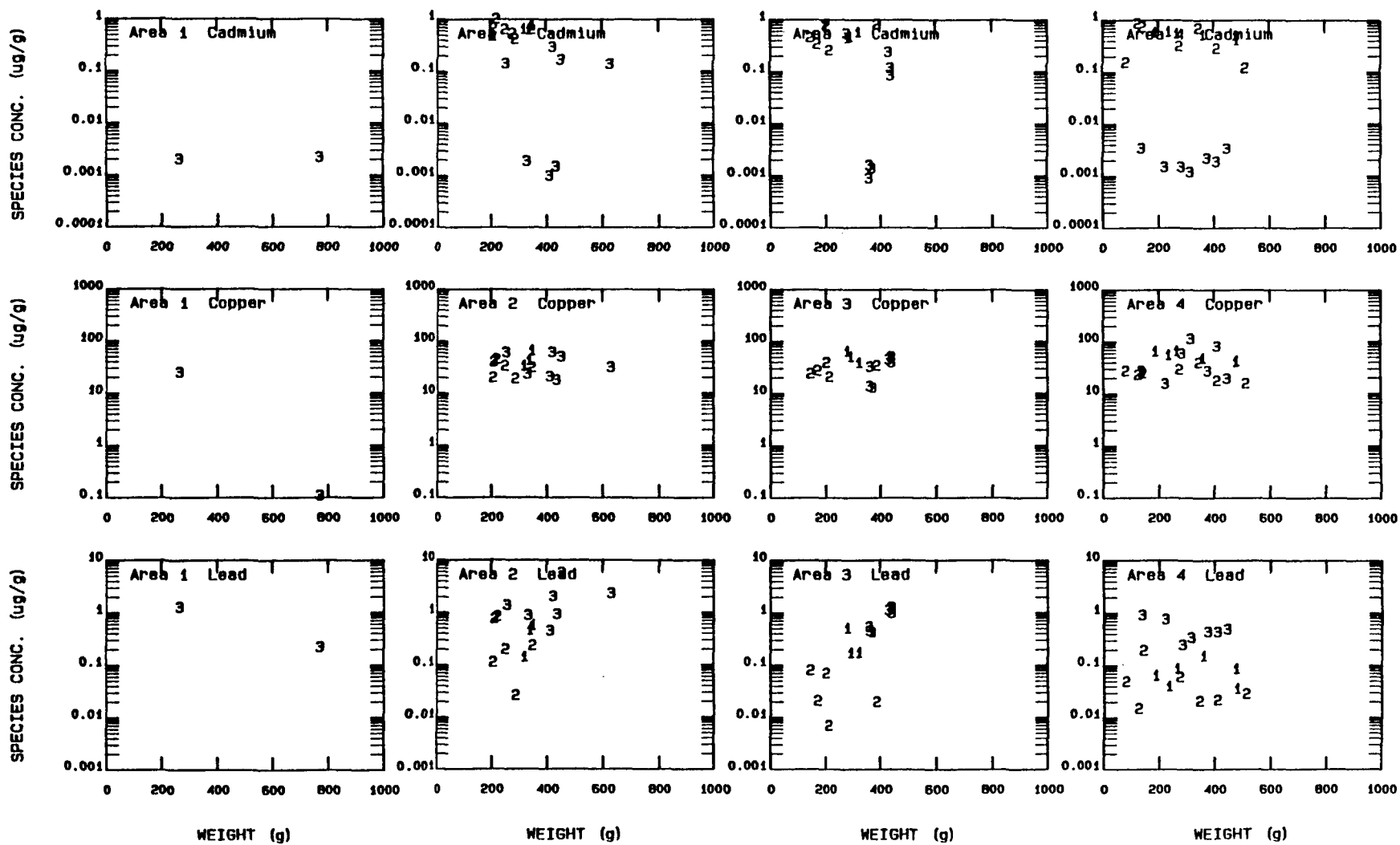


POLYCHAETES



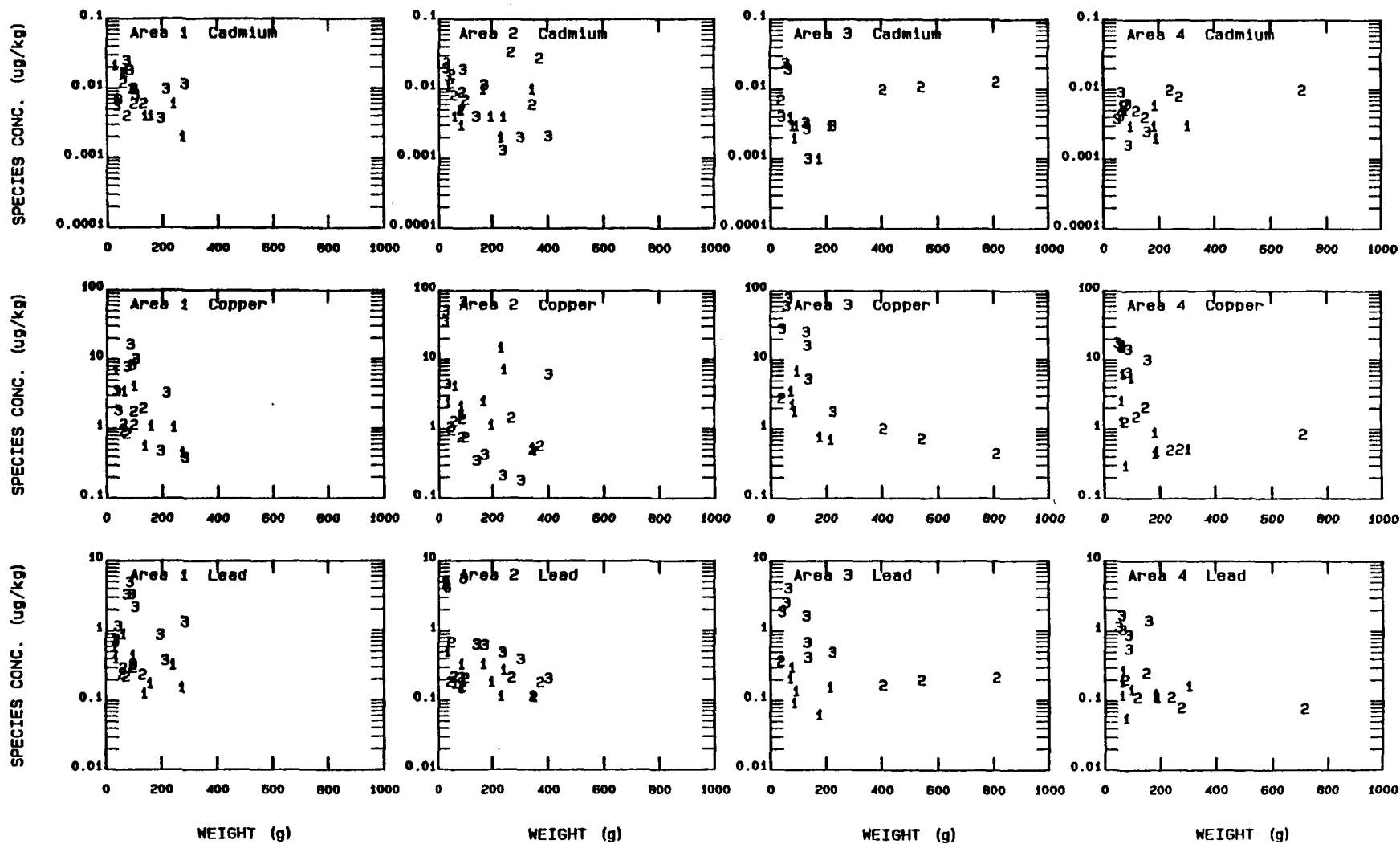
METALS CONCENTRATION VERSUS WEIGHT PLOTS

LOBSTER



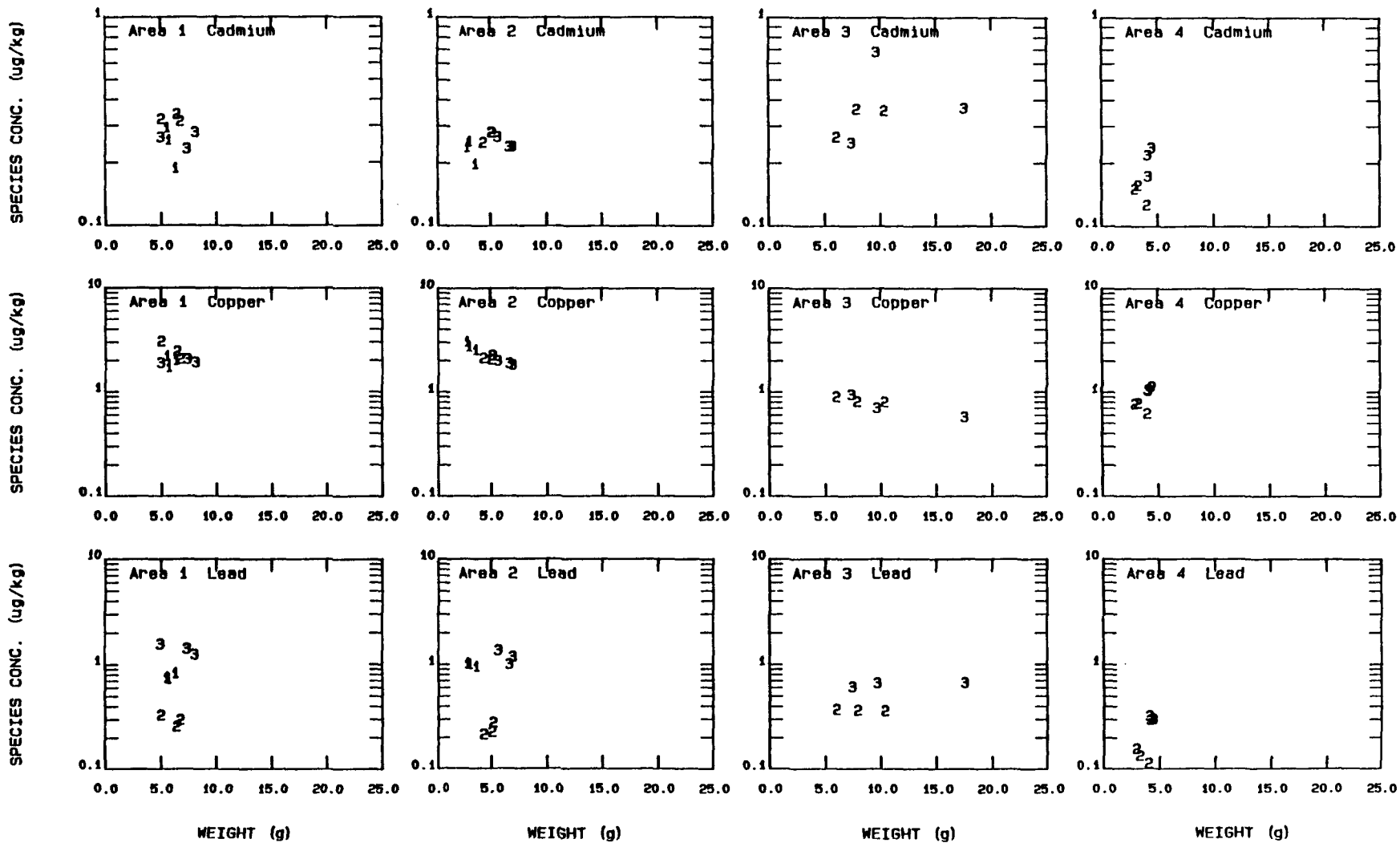
FLOUNDER

6-7



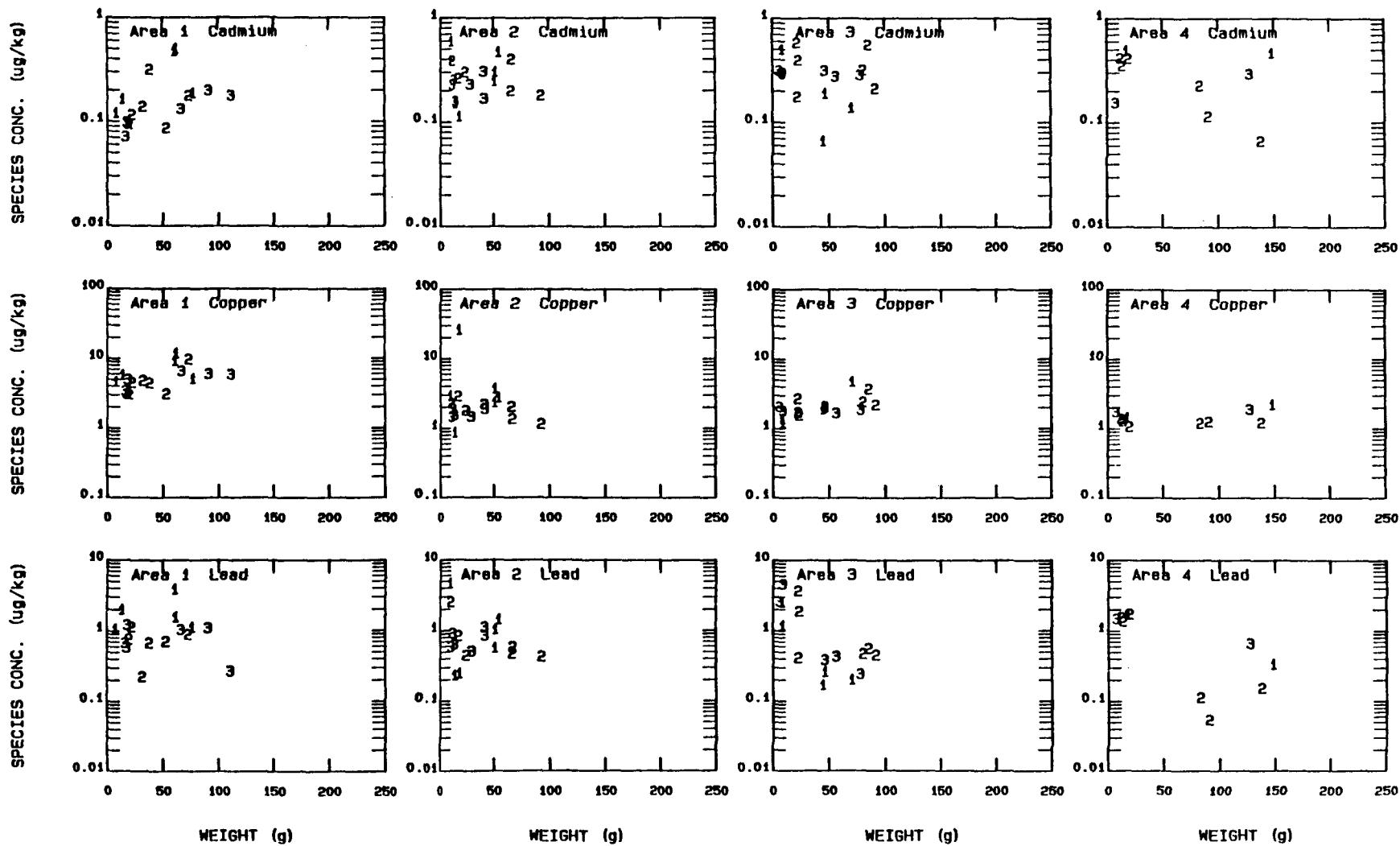
MUSSEL

L-10



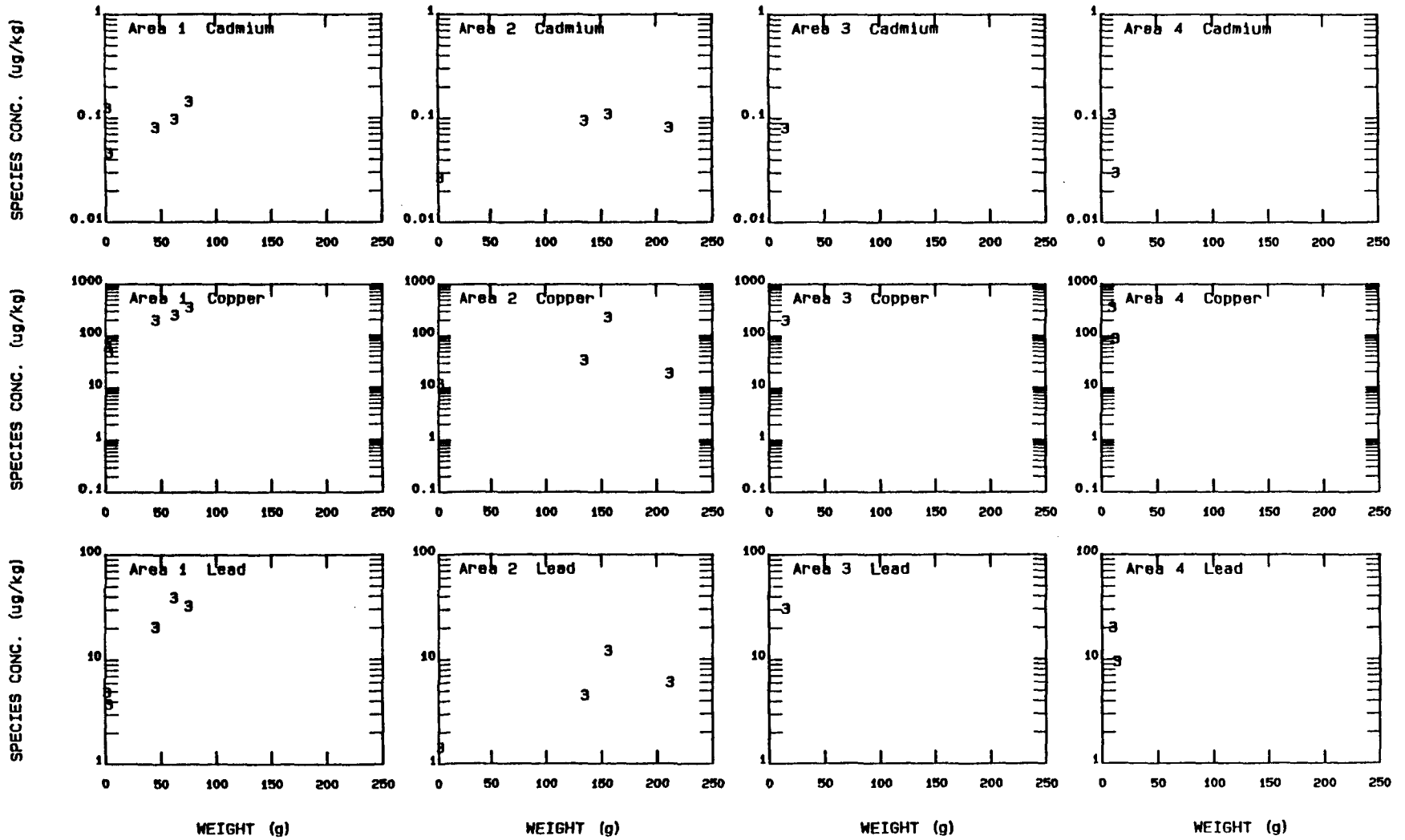
CLAM

11-7



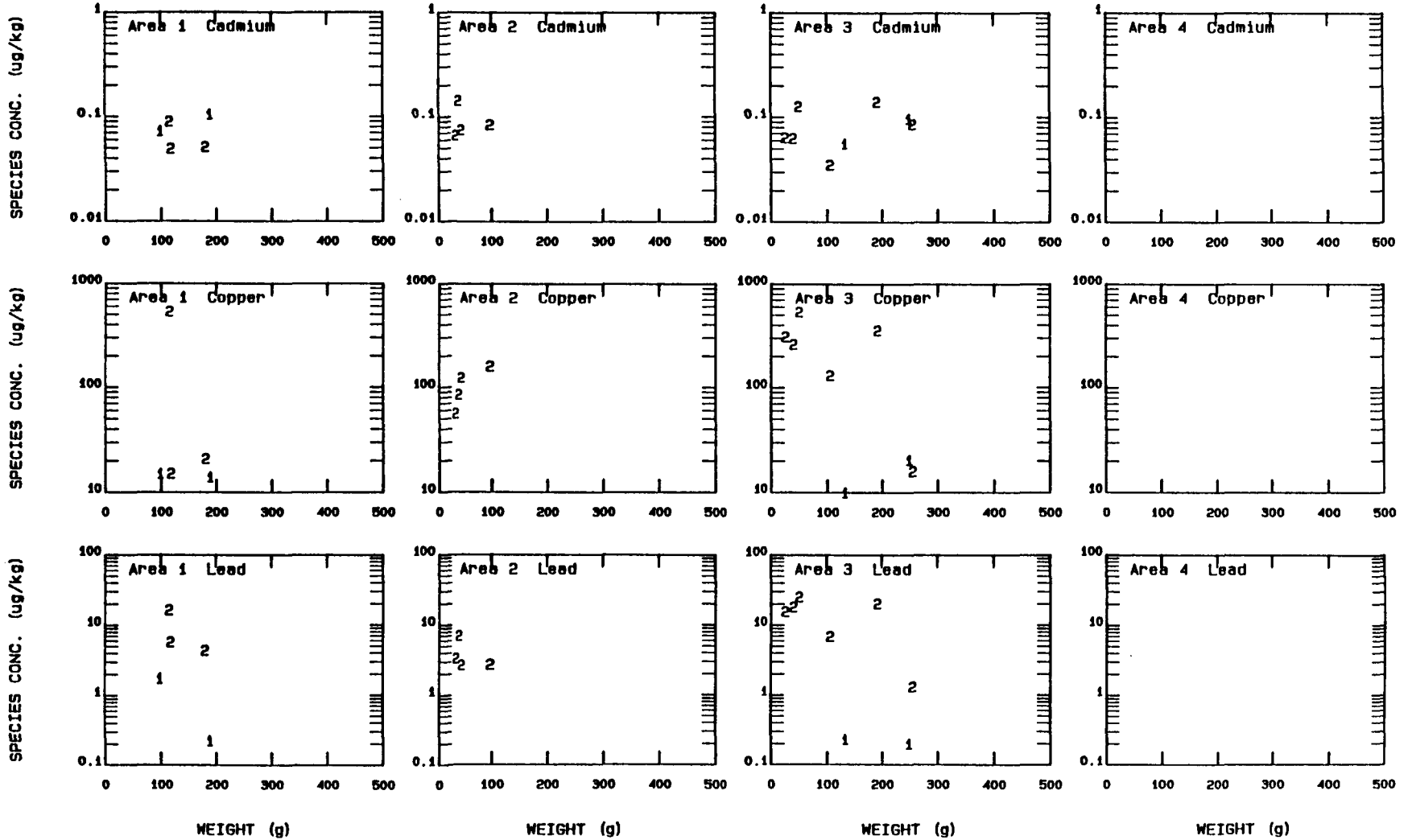
GREEN CRAB

L-12



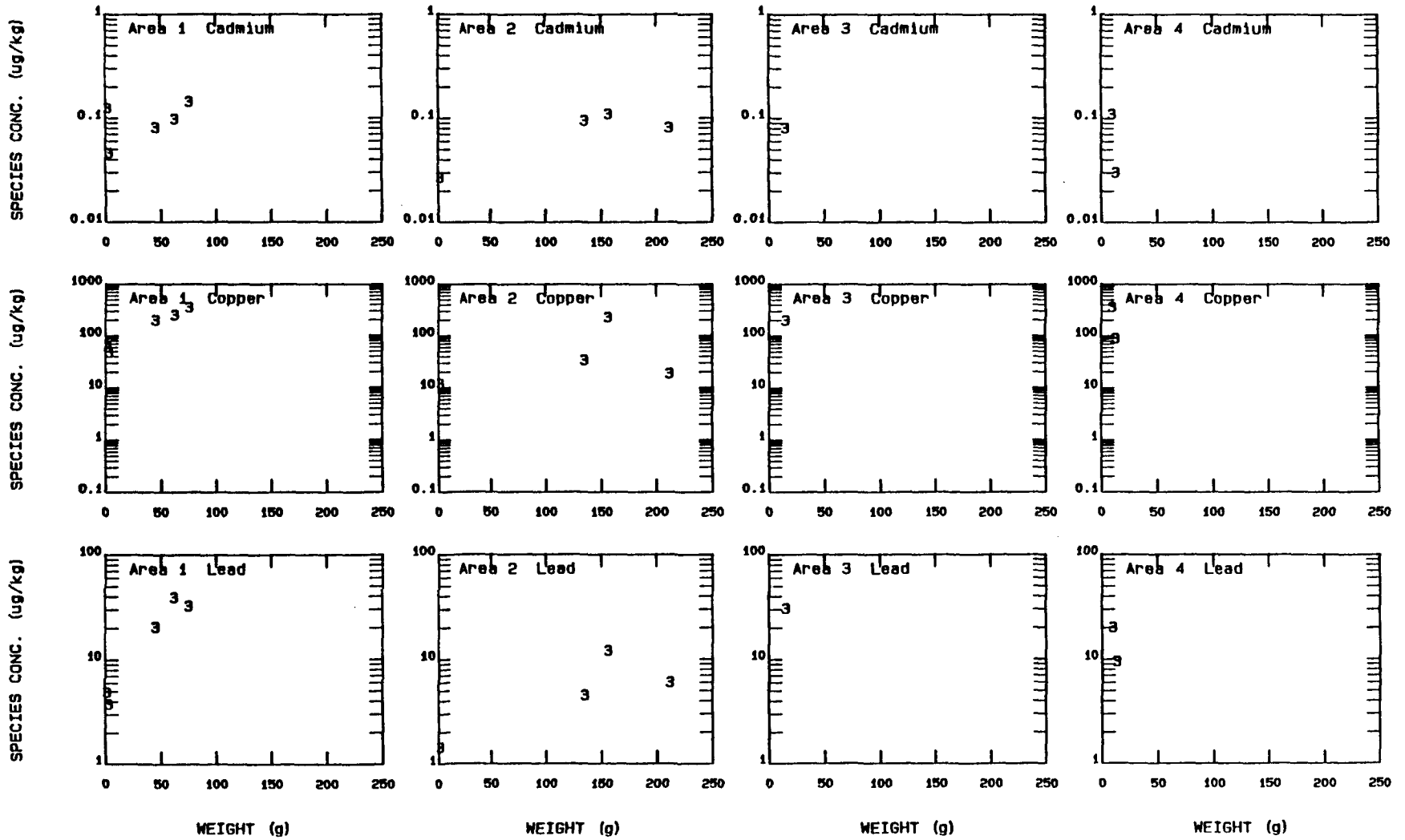
SPIDER CRAB

SI-7



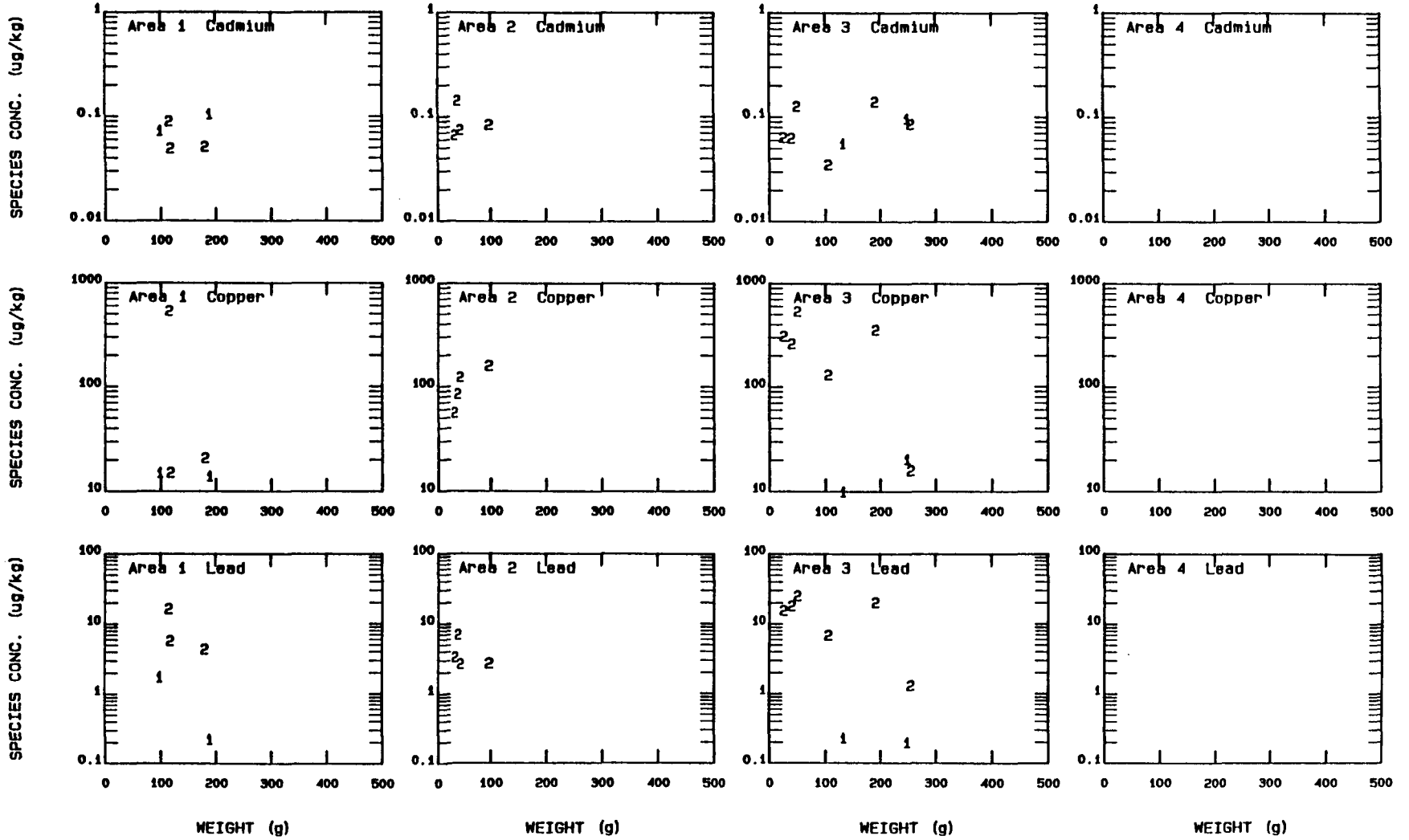
GREEN CRAB

L-12

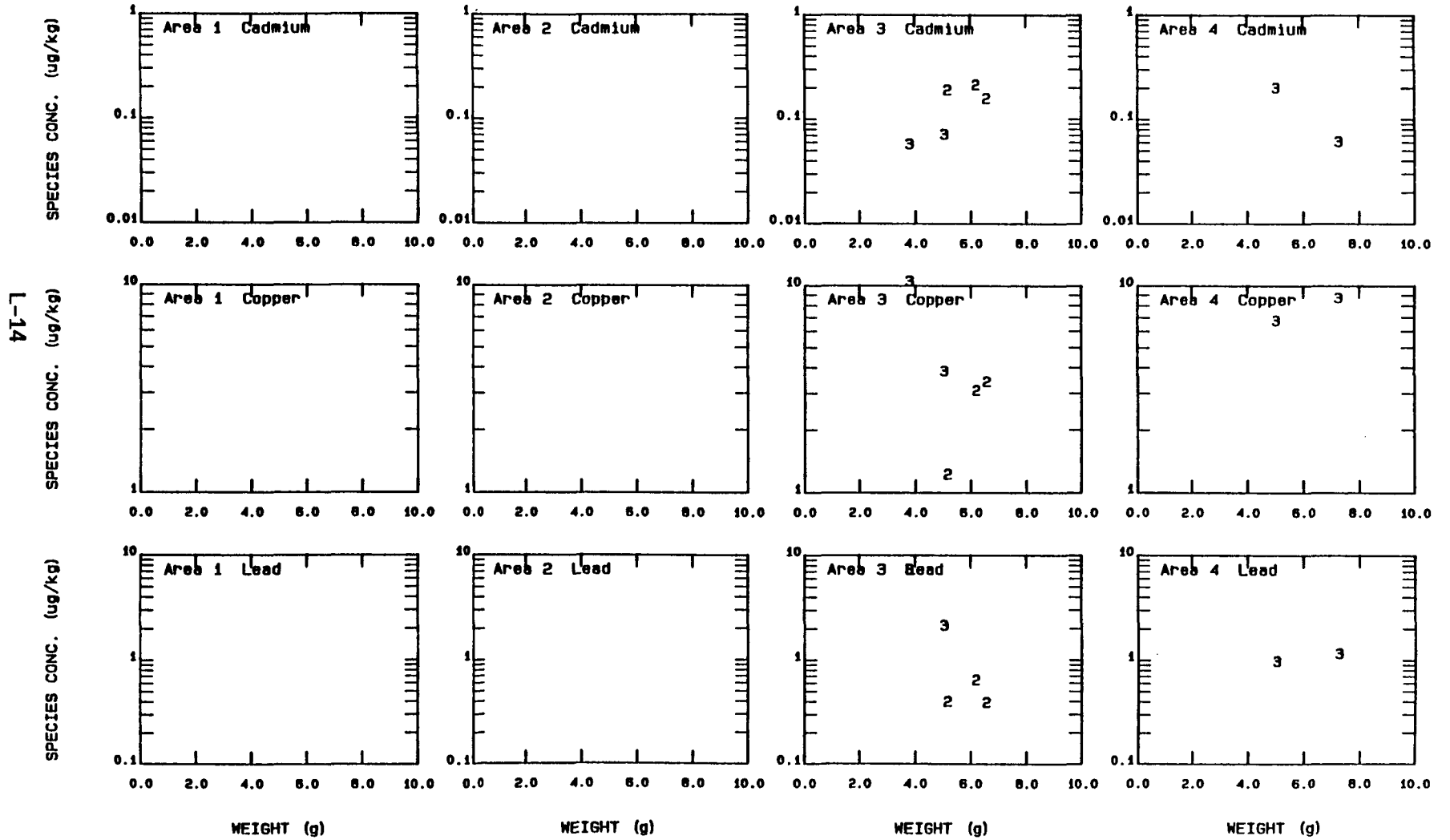


SPIDER CRAB

SI-7



POLYCHAETES



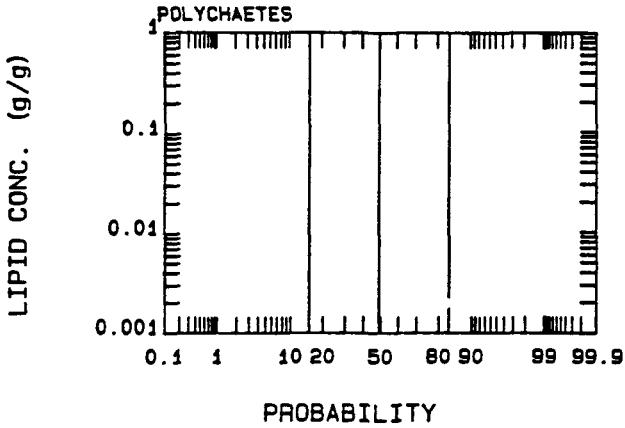
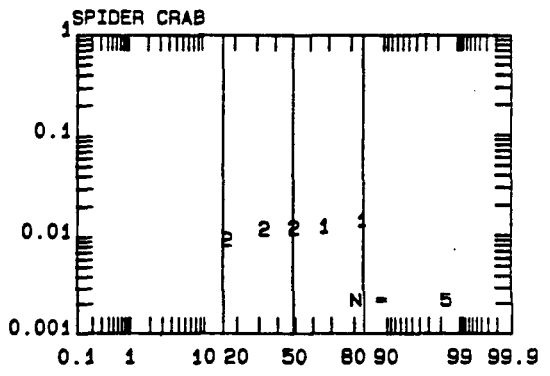
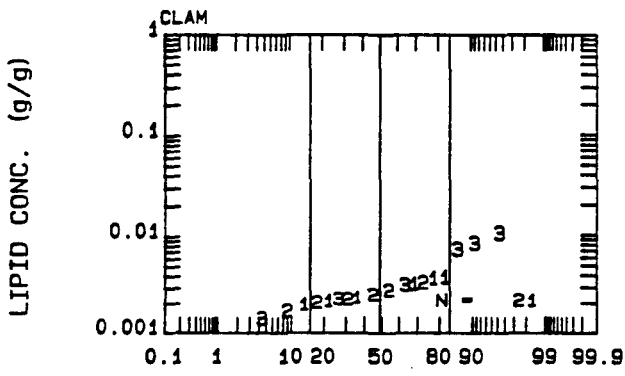
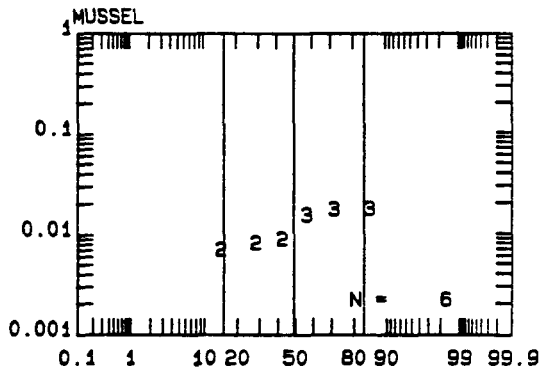
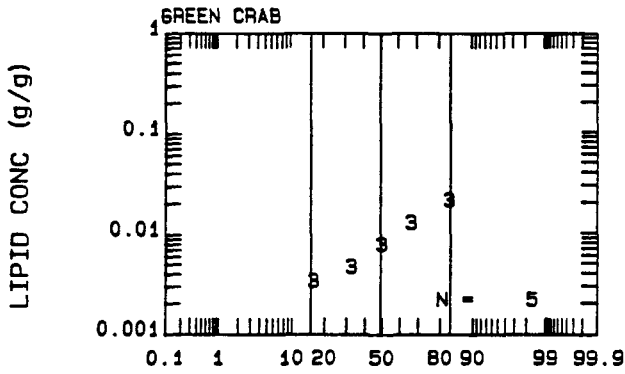
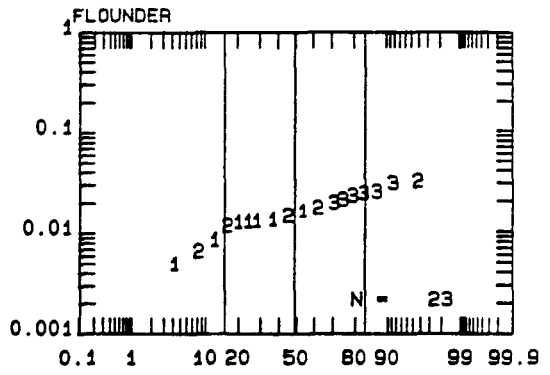
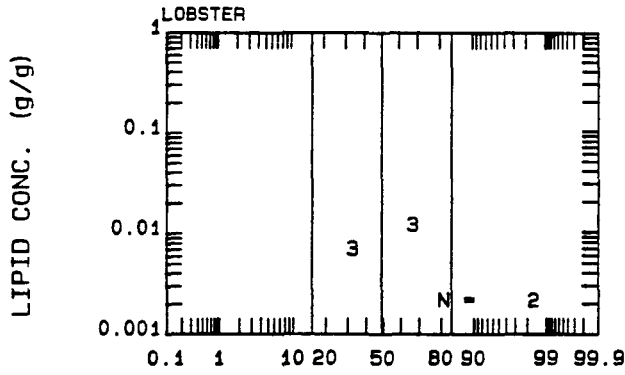
APPENDIX M

LIPID DATA

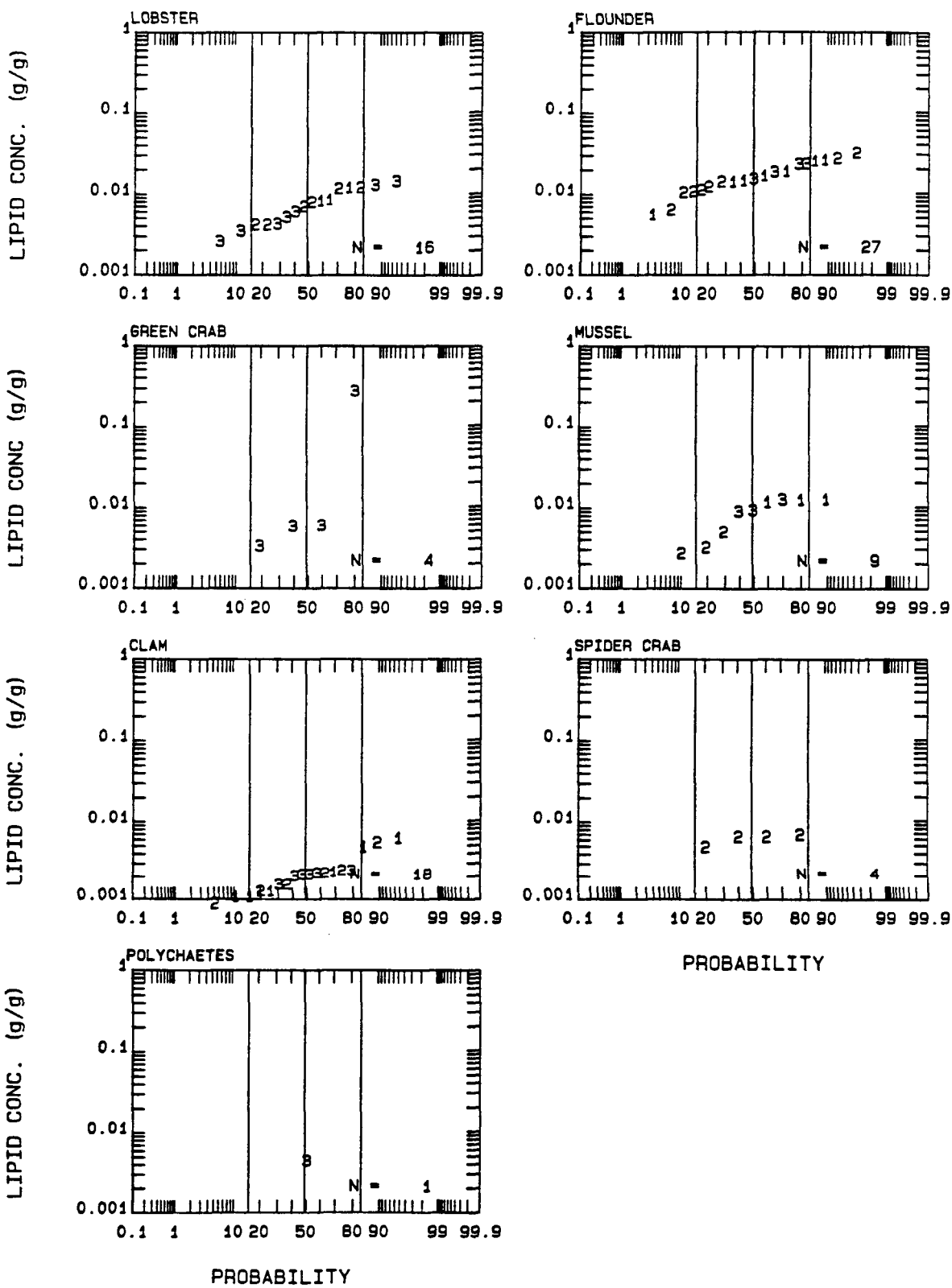
This appendix includes the probability distributions of lipids in each species by area. Also included are plots for each area of the lipid concentration versus organism weight. The data from the three cruises are plotted with the plotting symbol being the cruise number.

LIPID PROBABILITY DISTRIBUTIONS

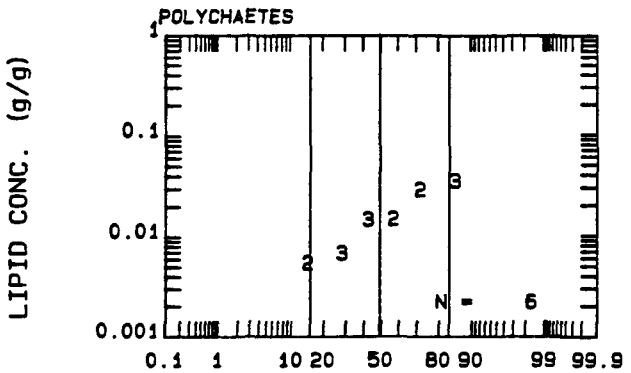
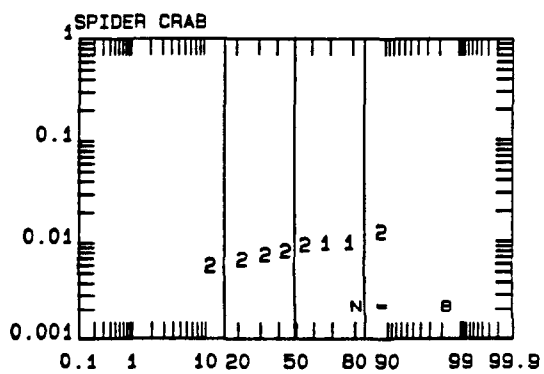
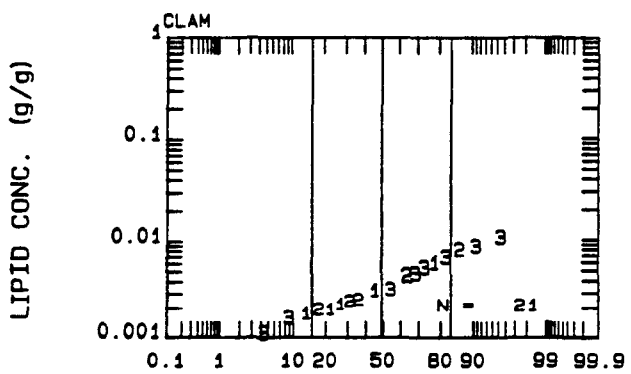
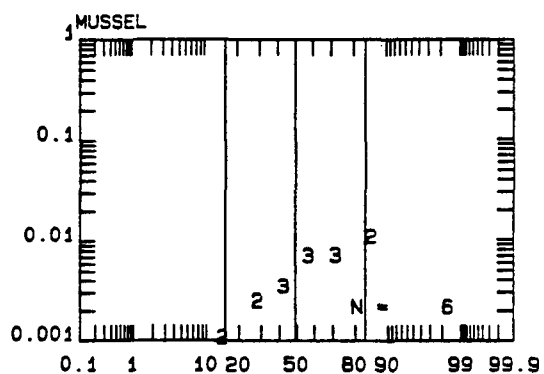
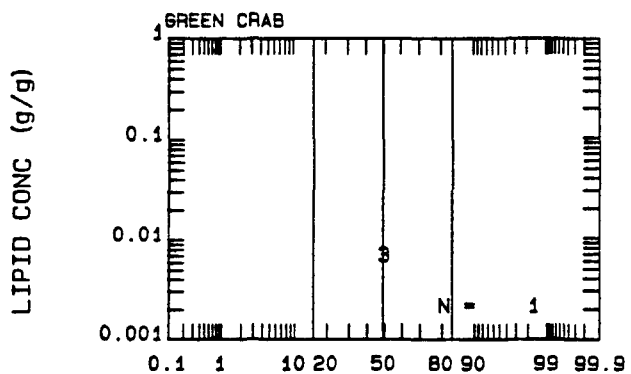
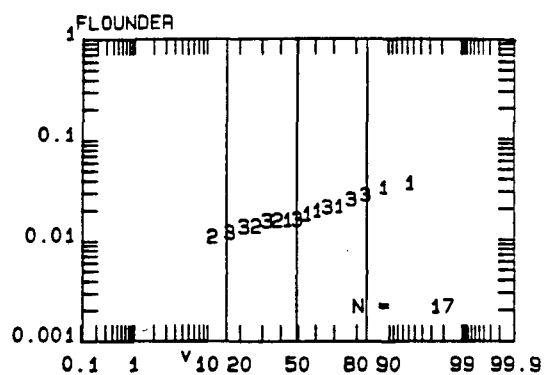
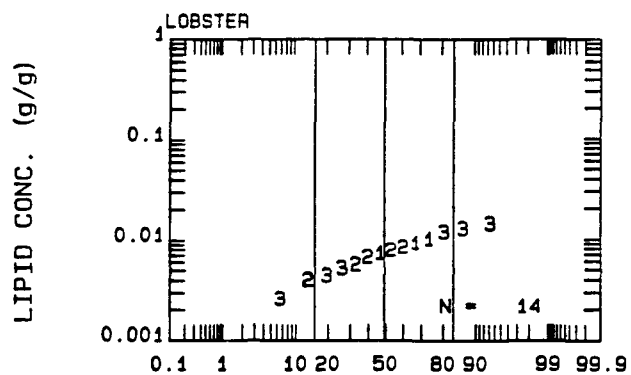
AREA 1



AREA 2



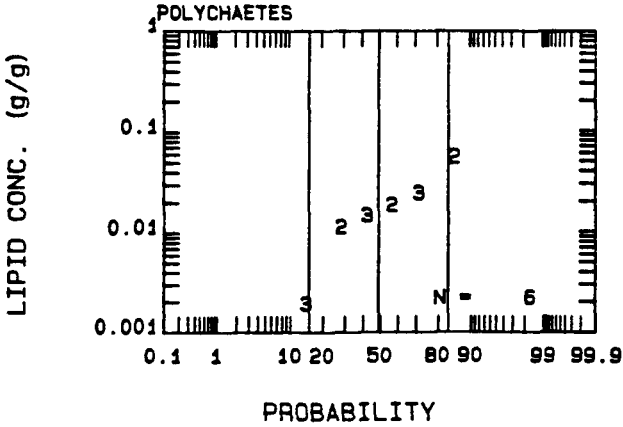
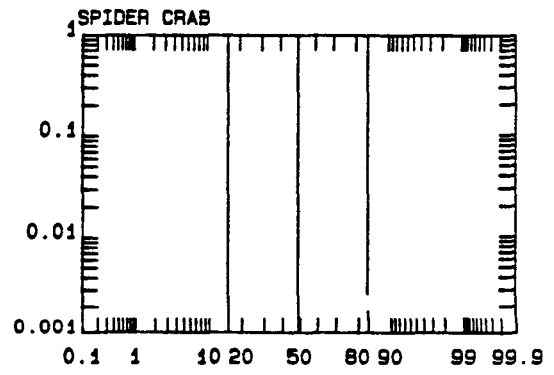
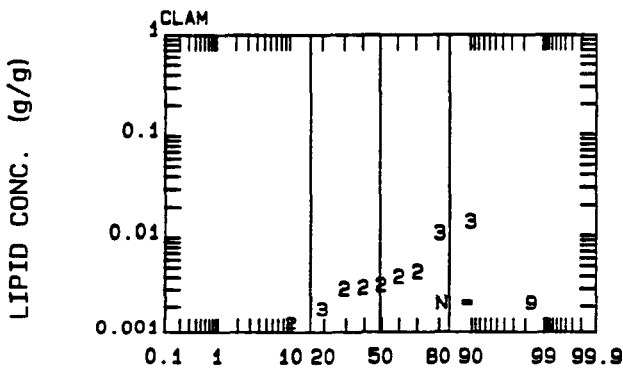
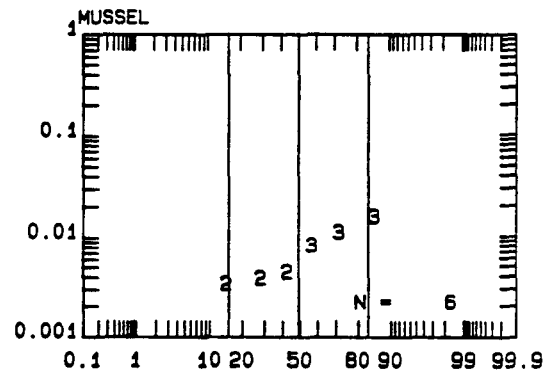
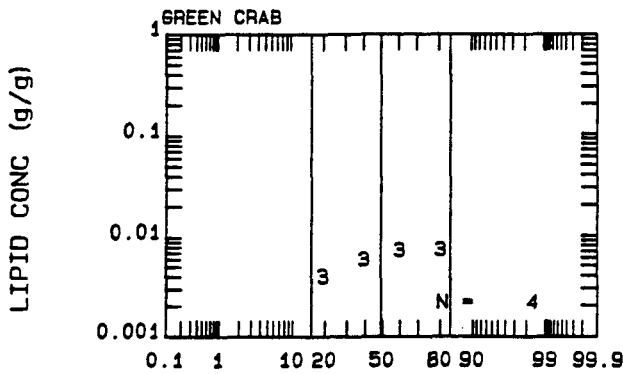
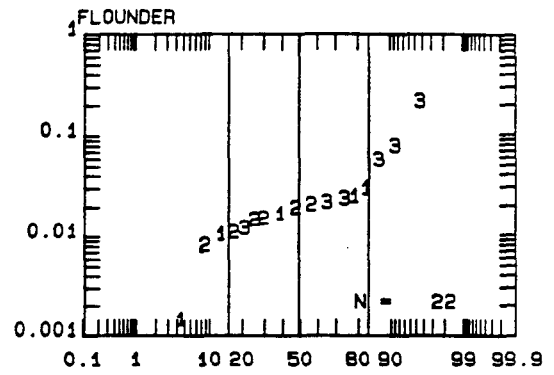
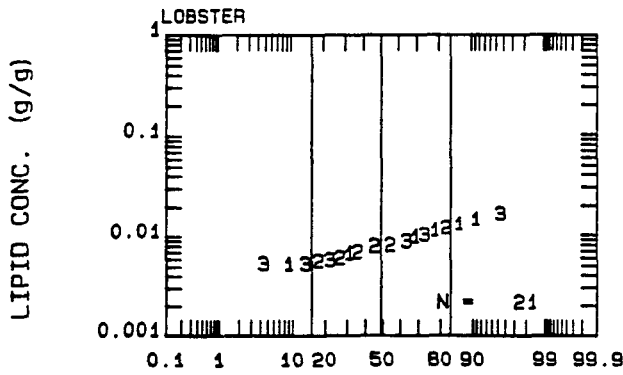
AREA 3



PROBABILITY

PROBABILITY

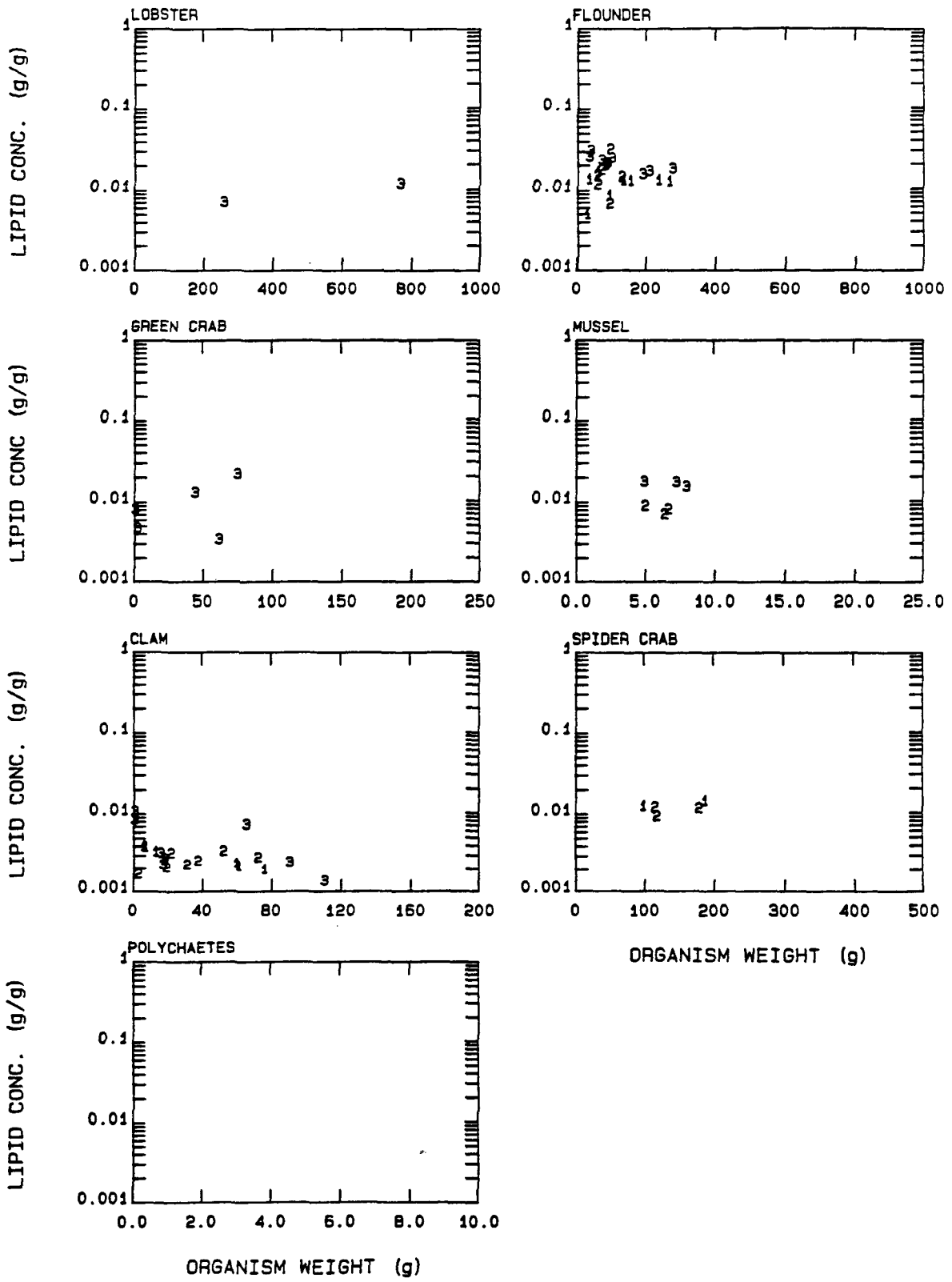
AREA 4



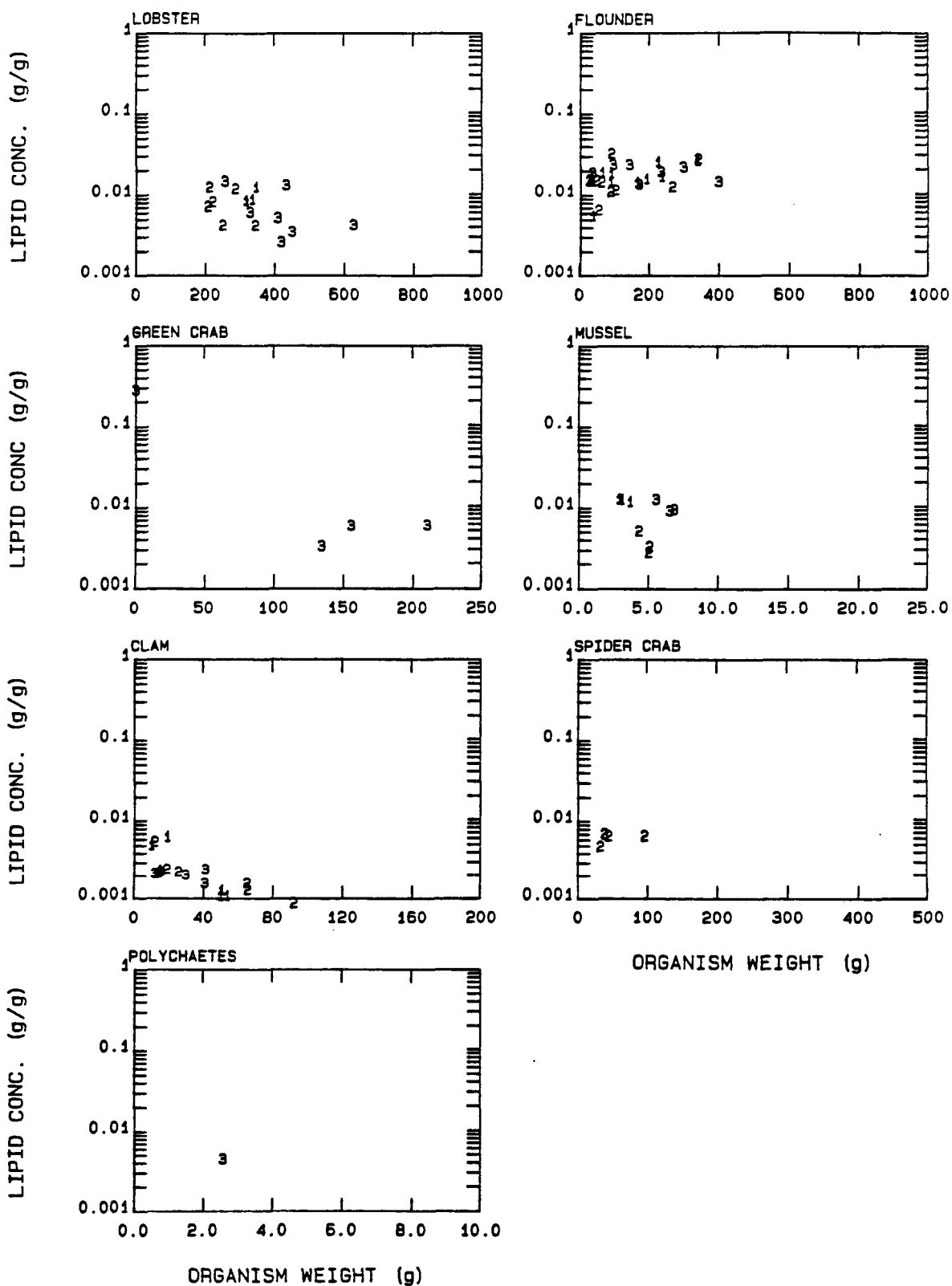
PROBABILITY

LIPID VERSUS WEIGHT PLOTS

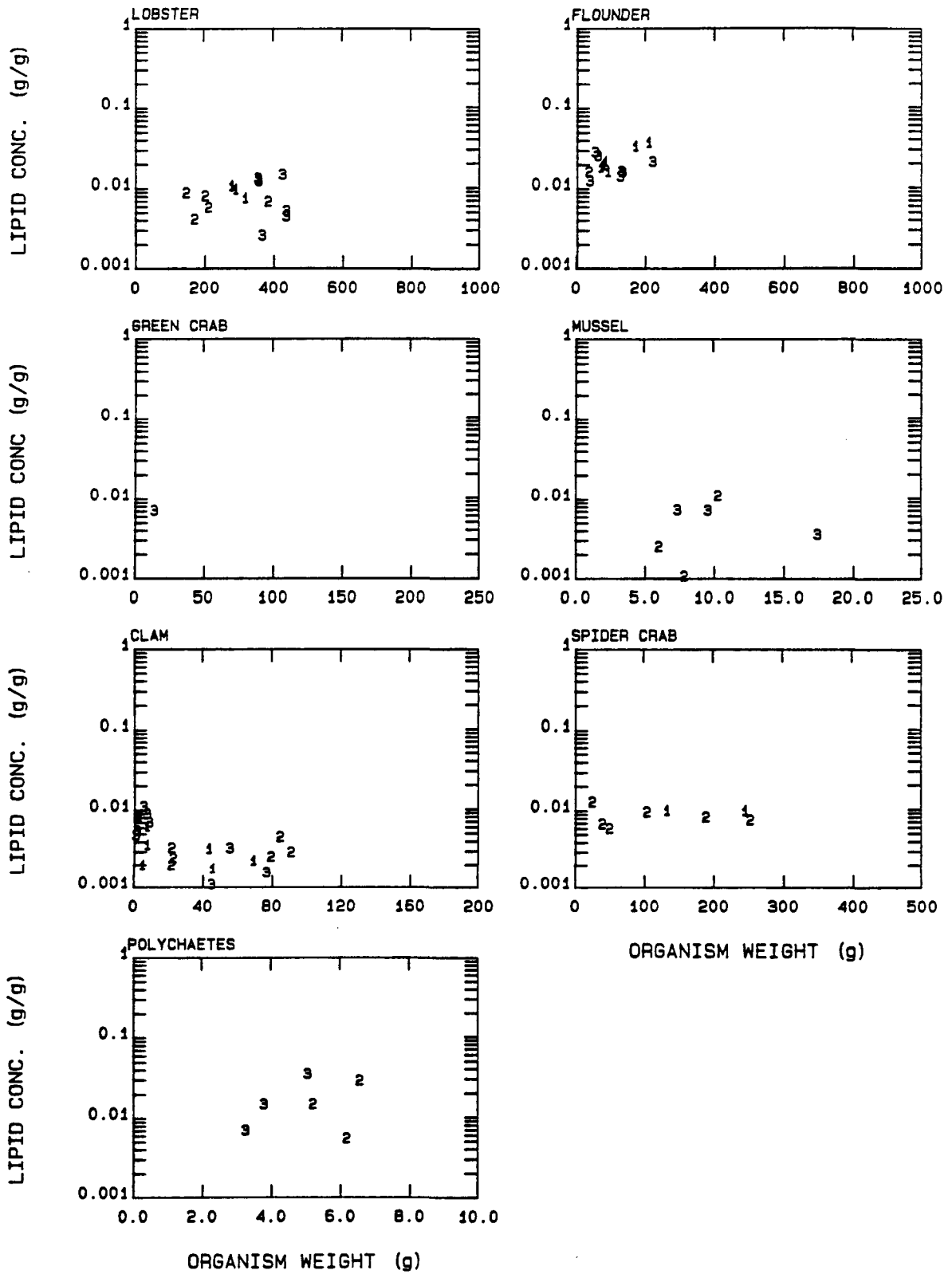
AREA 1



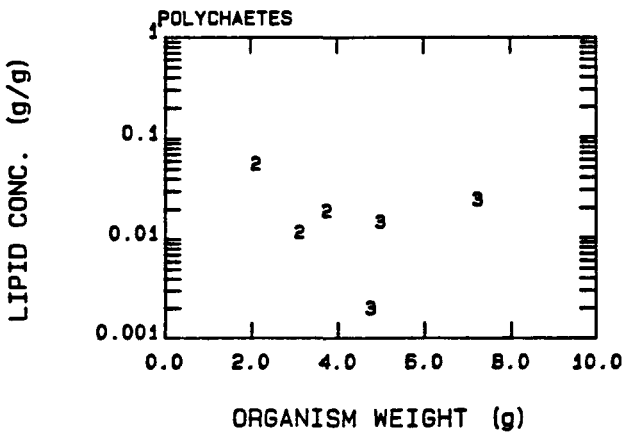
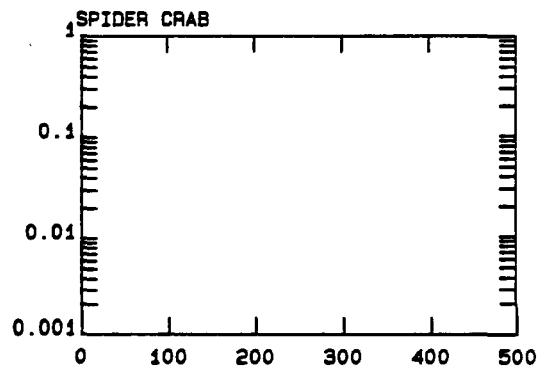
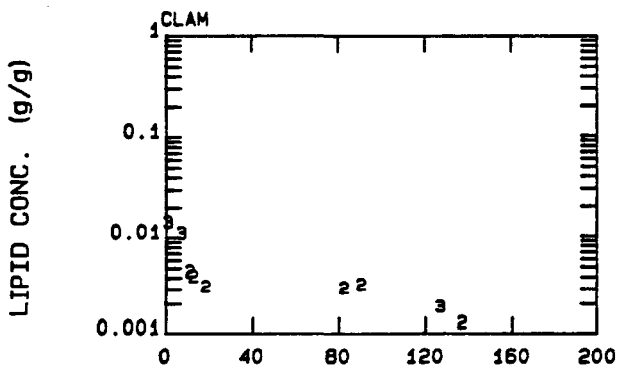
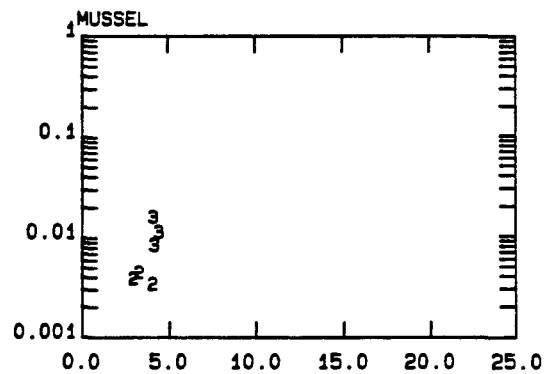
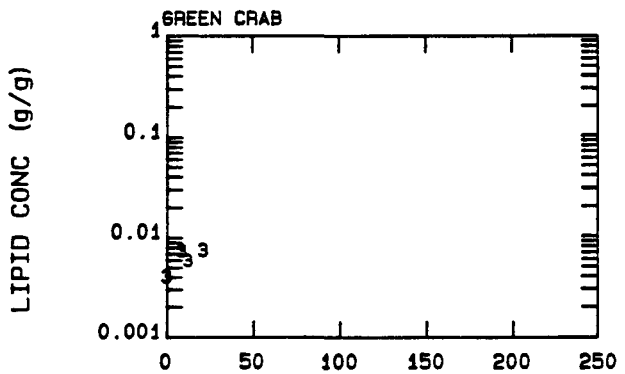
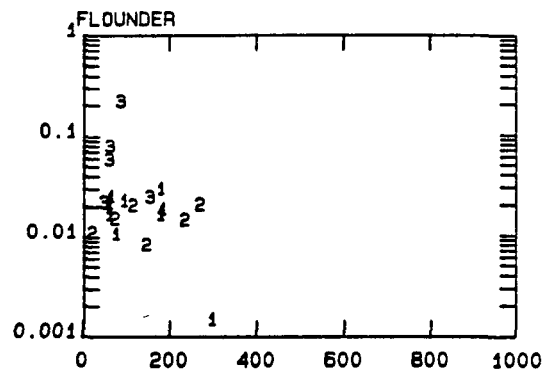
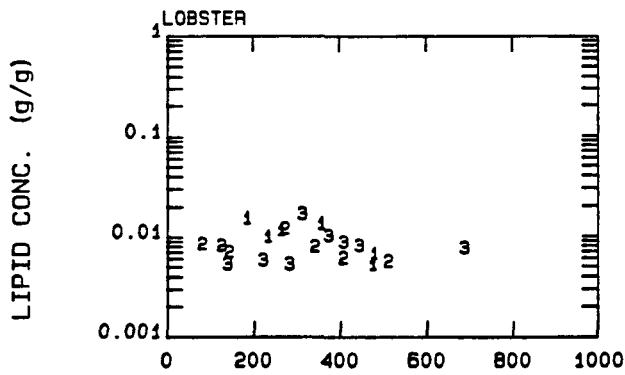
AREA 2



AREA 3



AREA 4



ORGANISM WEIGHT (g)