

BYCATCH MAPS (by statistical area) FOR TRAWL-CAUGHT HALIBUT,
CRAB, AND SALMON IN THE KODIAK AREA, 1978-1987

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Alaska Department of Fish and Game
Division of Commercial Fisheries
211 Mission Road
Kodiak, Alaska 99615

December 1988

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This report presents a series of maps showing the capture rates of prohibited "bycatch" species (halibut, Tanner crab, king crab, salmon) in statistical areas around Kodiak Island. The data were collected from 1978 to 1987 by ADF&G observers aboard domestic bottom trawlers fishing for pollock, Pacific cod, and flatfish.

The graphical presentation of these data is complicated by the two different patterns of statistical areas used by ADF&G in recent years (Figs. 1 and 2). In mid 1985, ADF&G switched from a pattern based on depth contours to a simplified pattern based on standardized coordinates (1° longitude \times 0.5° latitude), except in State waters (0-3 mi) where statistical areas are smaller.

Consequently, two series of maps are presented in this report (Figs. 3-18) based on the year that the data were collected: (1) 1978-1985, and (2) 1985 and 1987. Data were collected in 1985 under both patterns of statistical areas.

When viewing these maps, note that:

1. The sequence of maps is listed in the List of Figures,
2. Bycatch values are expressed as either number or pounds caught per trawl hour, followed in parenthesis by the sample size (number of trawl hauls),
3. Bycatch values in the first map series (1978-1985) represent the average bycatch during that period. In the second series (1985 and 1987), the bycatch values represent single year averages, thus there can be two values listed in one statistical area,
4. Observer effort was limited each year, thus average bycatch values represent a very uneven coverage by year and area,
5. No data were collected in statistical areas left blank.

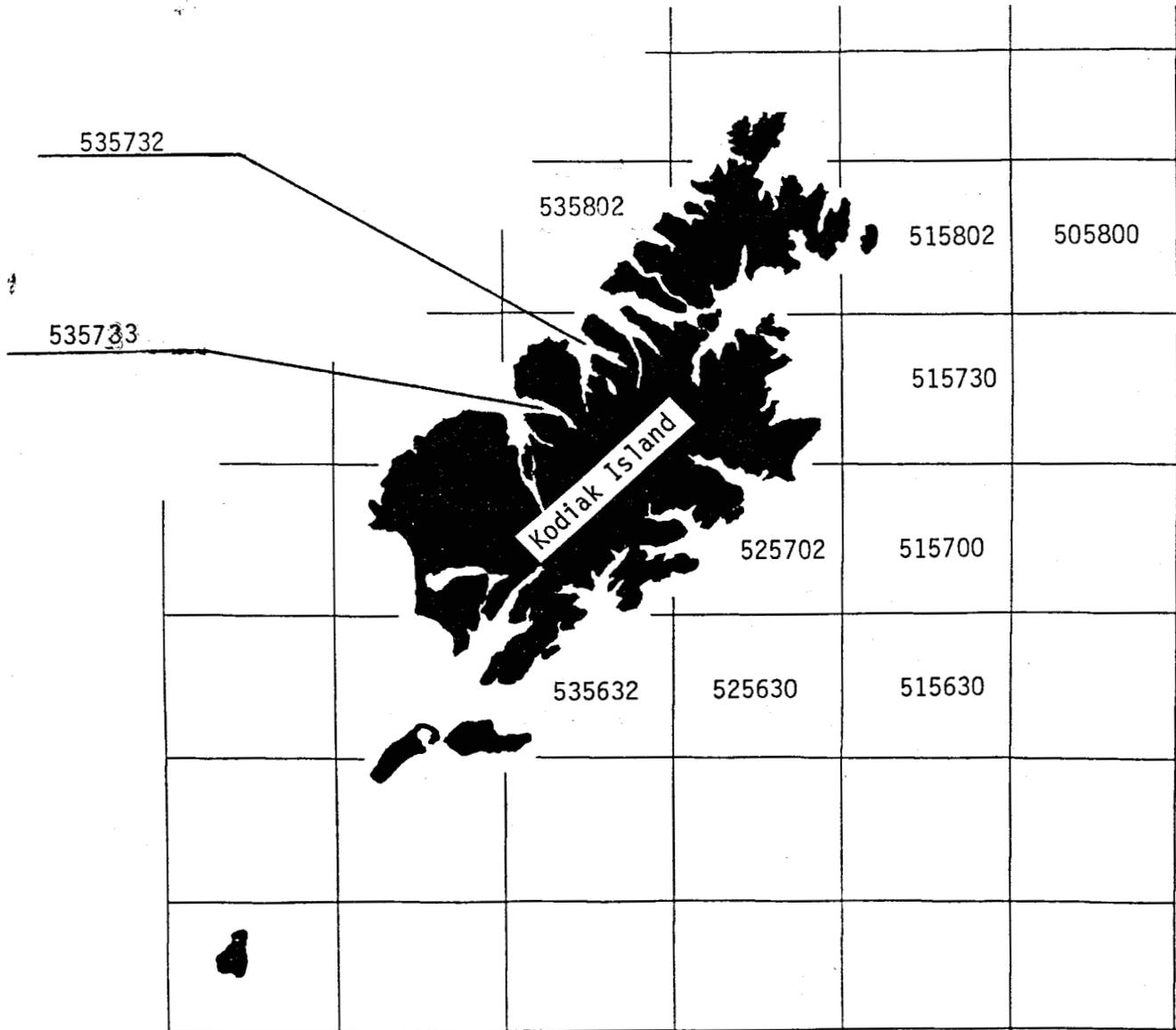


Figure 2. Post-1985 revised ADF&G statistical areas. Principal areas in this report are listed by number. Nearshore statistical areas in state waters (0-3 mi.) are not shown on the map except for the two areas indicated.

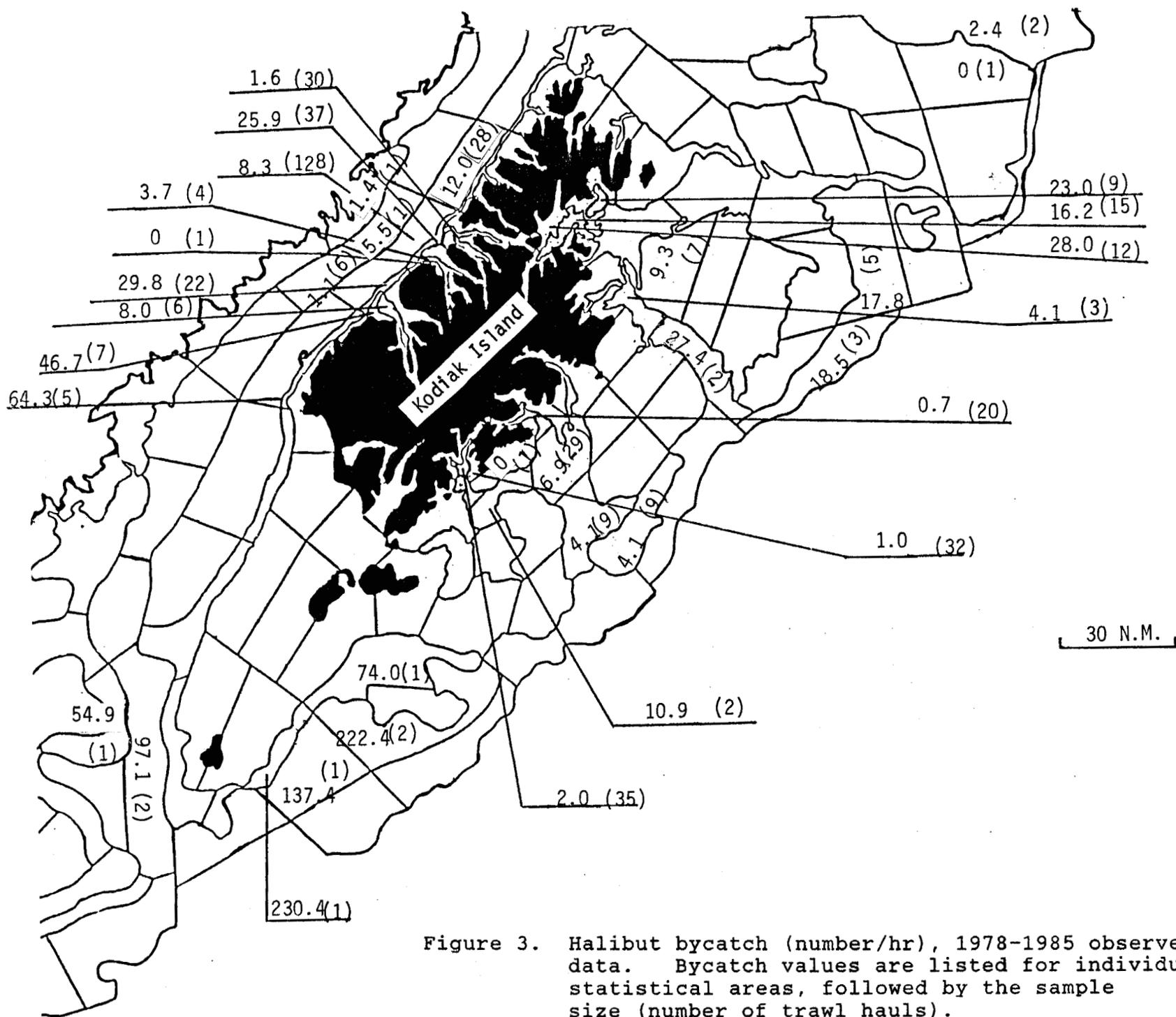
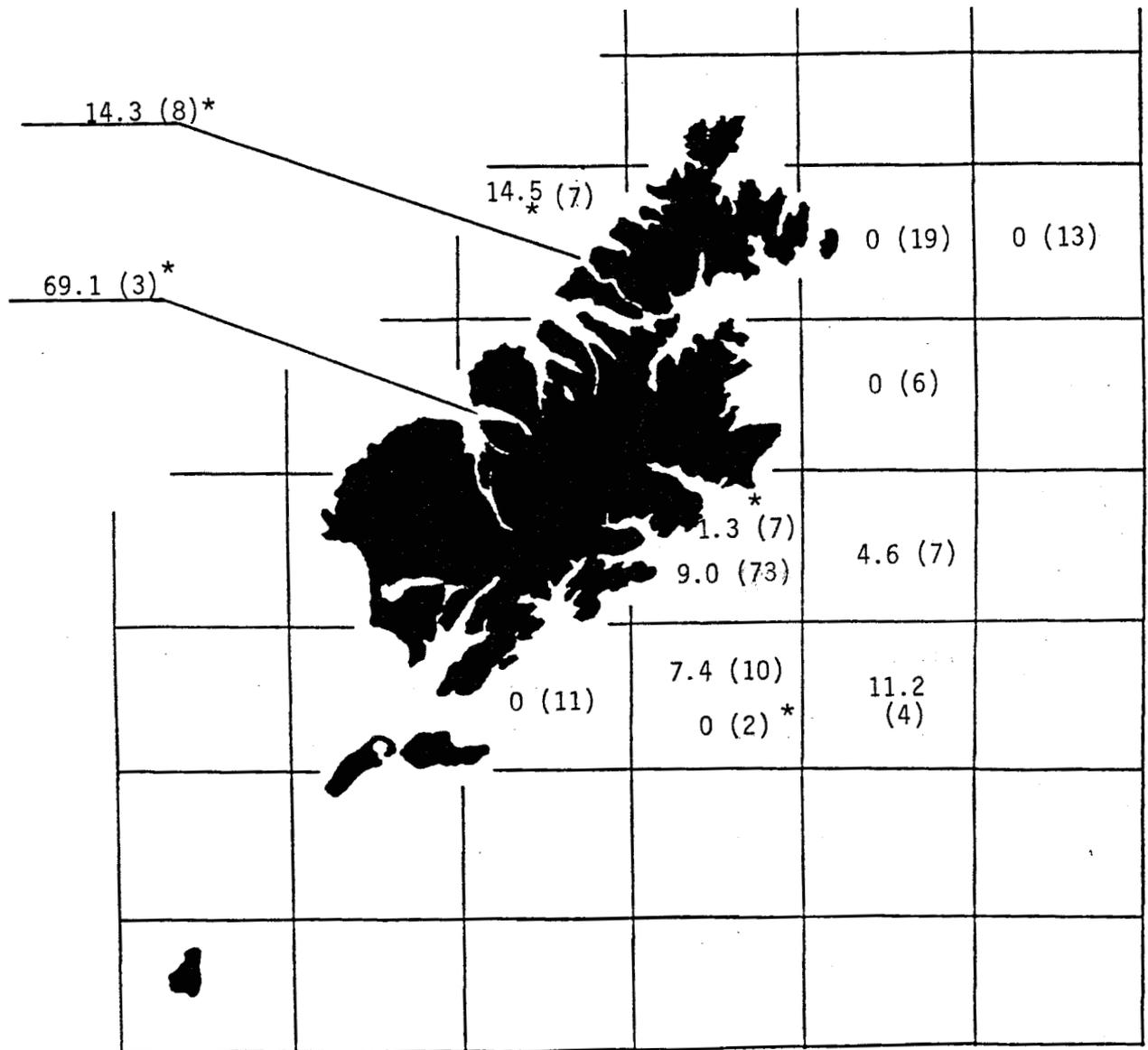


Figure 3. Halibut bycatch (number/hr), 1978-1985 observer data. Bycatch values are listed for individual statistical areas, followed by the sample size (number of trawl hauls).

Figure 4. Halibut bycatch (number/hr), 1985 and 1987 observer data. Bycatch values are listed for individual statistical areas, followed by the sample size (number of trawl hauls). * = 1985 data



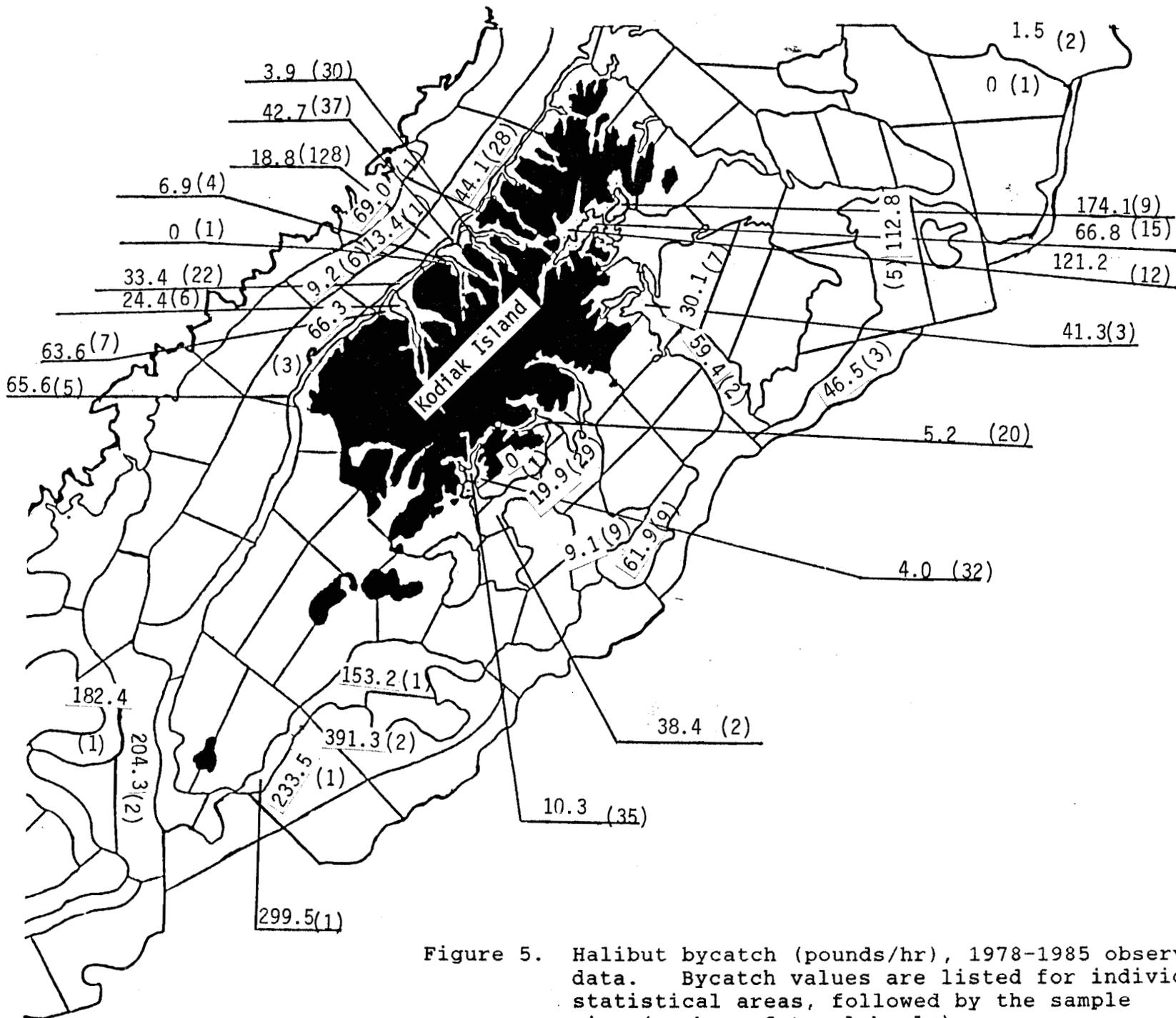


Figure 5. Halibut bycatch (pounds/hr), 1978-1985 observer data. Bycatch values are listed for individual statistical areas, followed by the sample size (number of trawl hauls).

Figure 6. Halibut bycatch (pounds/hr), 1985 and 1987 observer data. Bycatch values are listed for individual statistical areas, followed by the sample size (number of trawl hauls). * = 1985 data

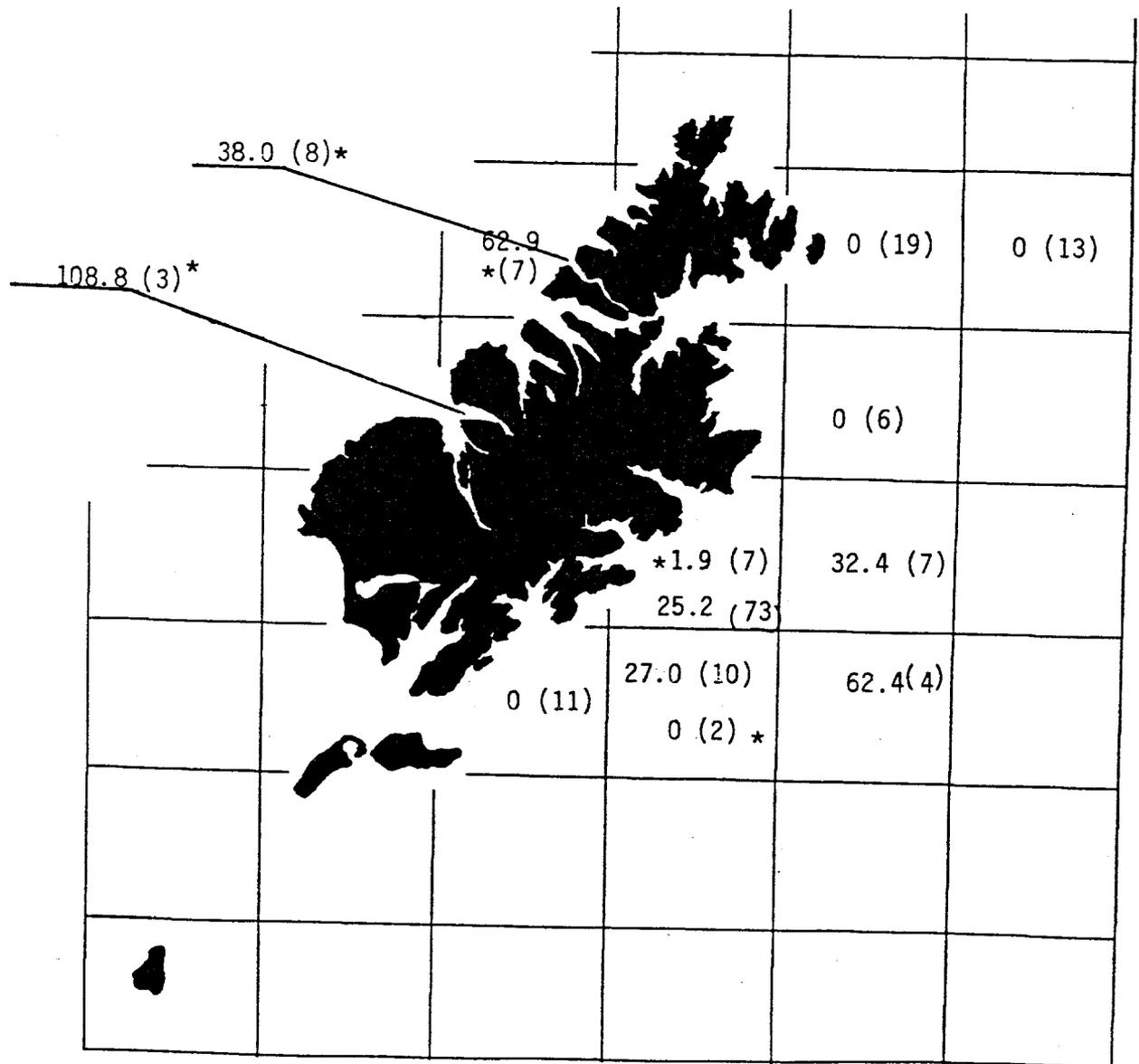


Figure 8. Tanner crab bycatch (no./hr), 1985 and 1987 observer data. Bycatch values are listed for individual statistical areas, followed by the sample size (number of trawl hauls).. * = 1985 data

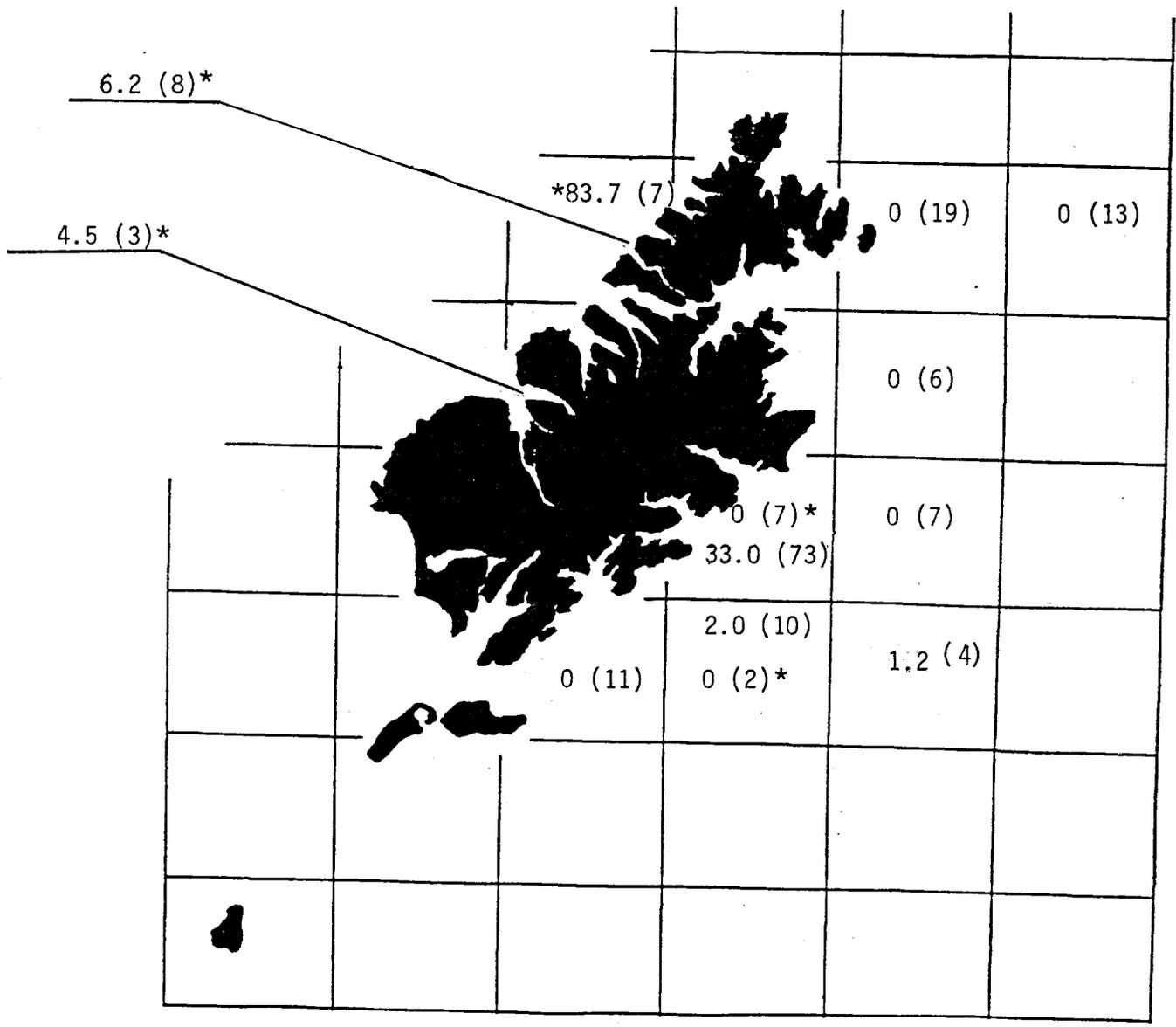


Figure 10. Tanner crab bycatch (lb/hr), 1985 and 1987 observer data. Bycatch values are listed for individual statistical areas, followed by the sample size (number of trawl hauls). * = 1985 data

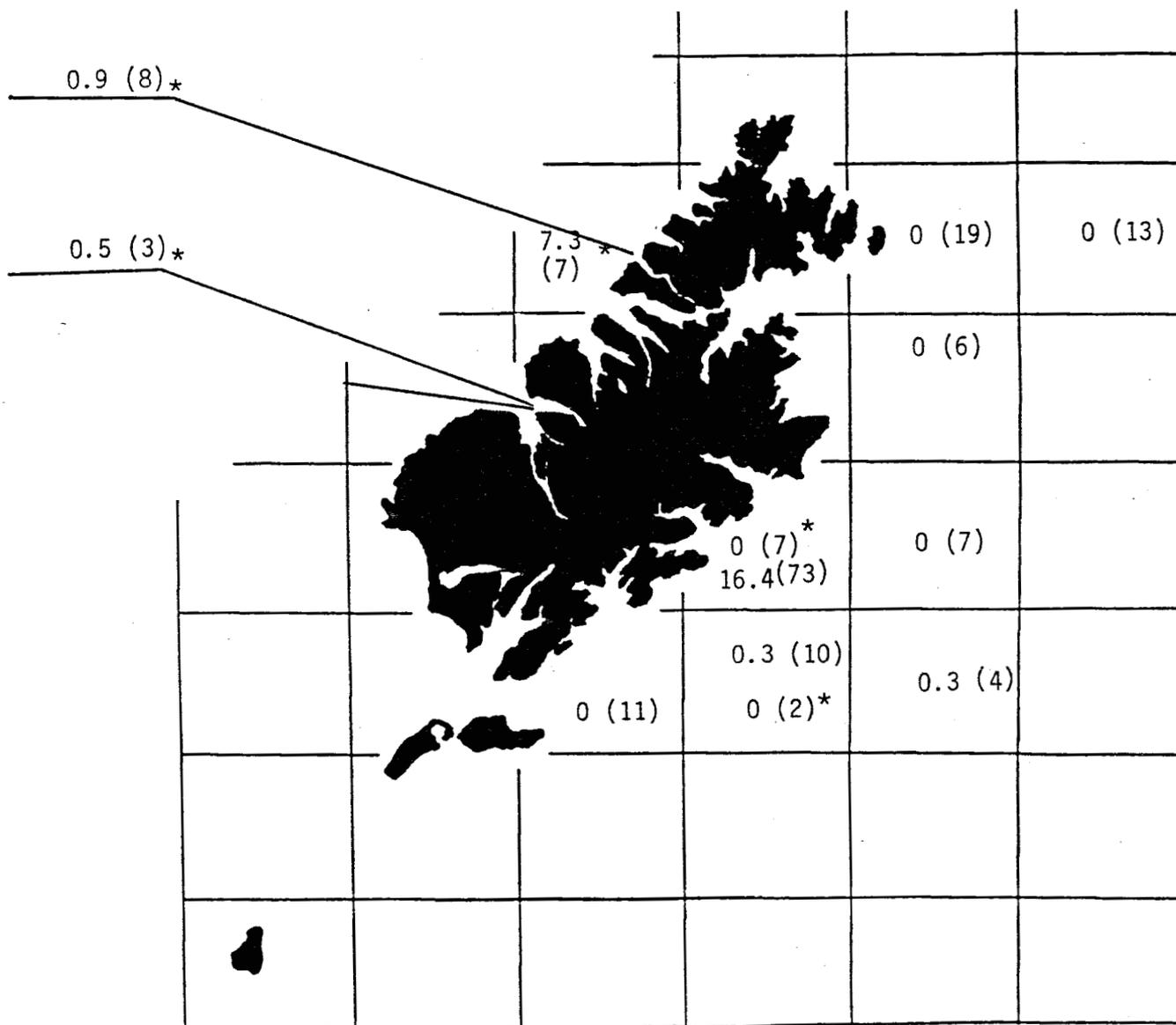


Figure 12. King crab bycatch (number/hr), 1985 and 1987 observer data. Bycatch values are listed for individual statistical areas, followed by the sample size (number of trawl hauls). * = 1985 data

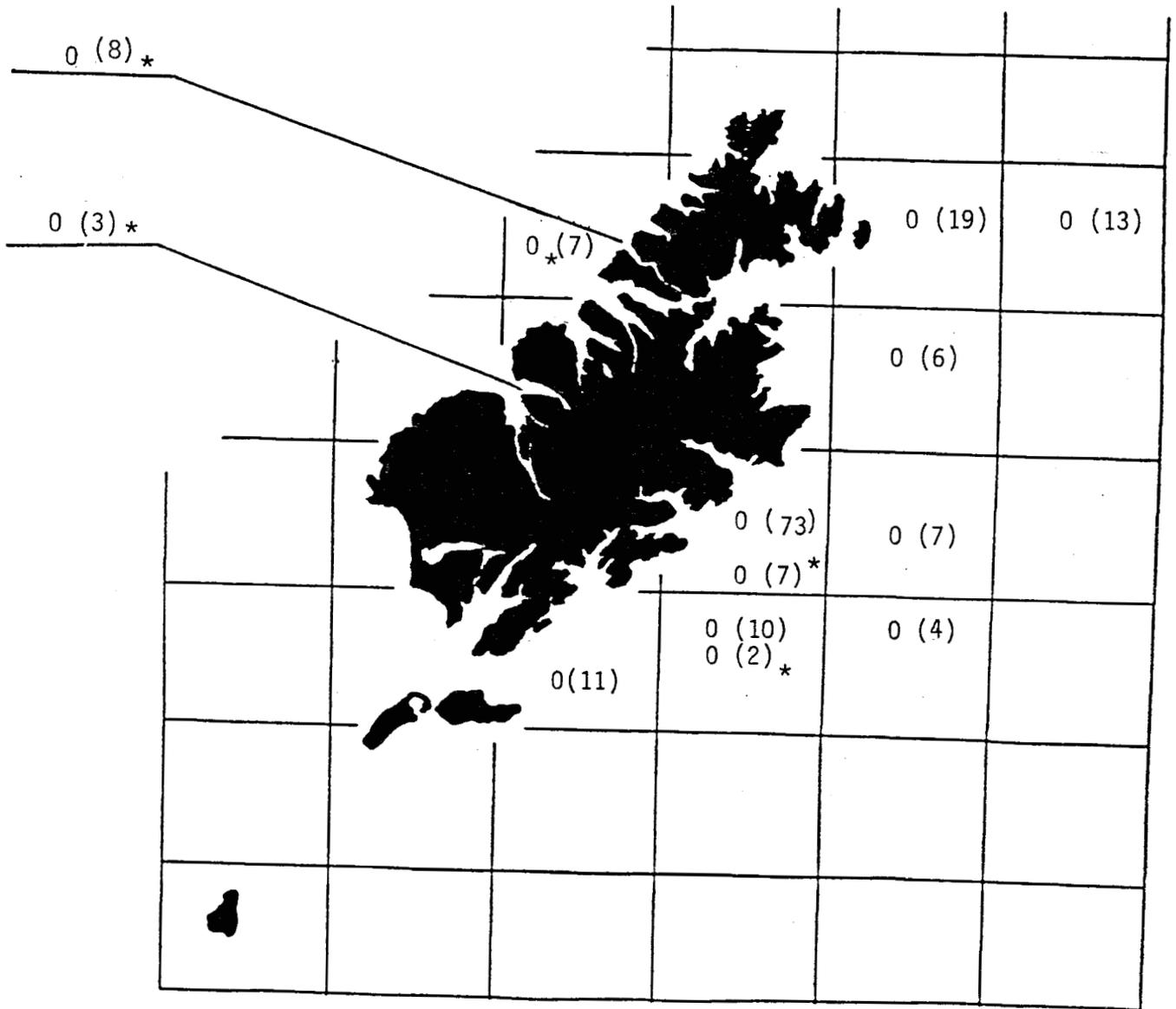


Figure 14. King crab bycatch (number/hr), 1985 and 1987 observer data. Bycatch values are listed for individual statistical areas, followed by the sample size (number of trawl hauls). * = 1985 data

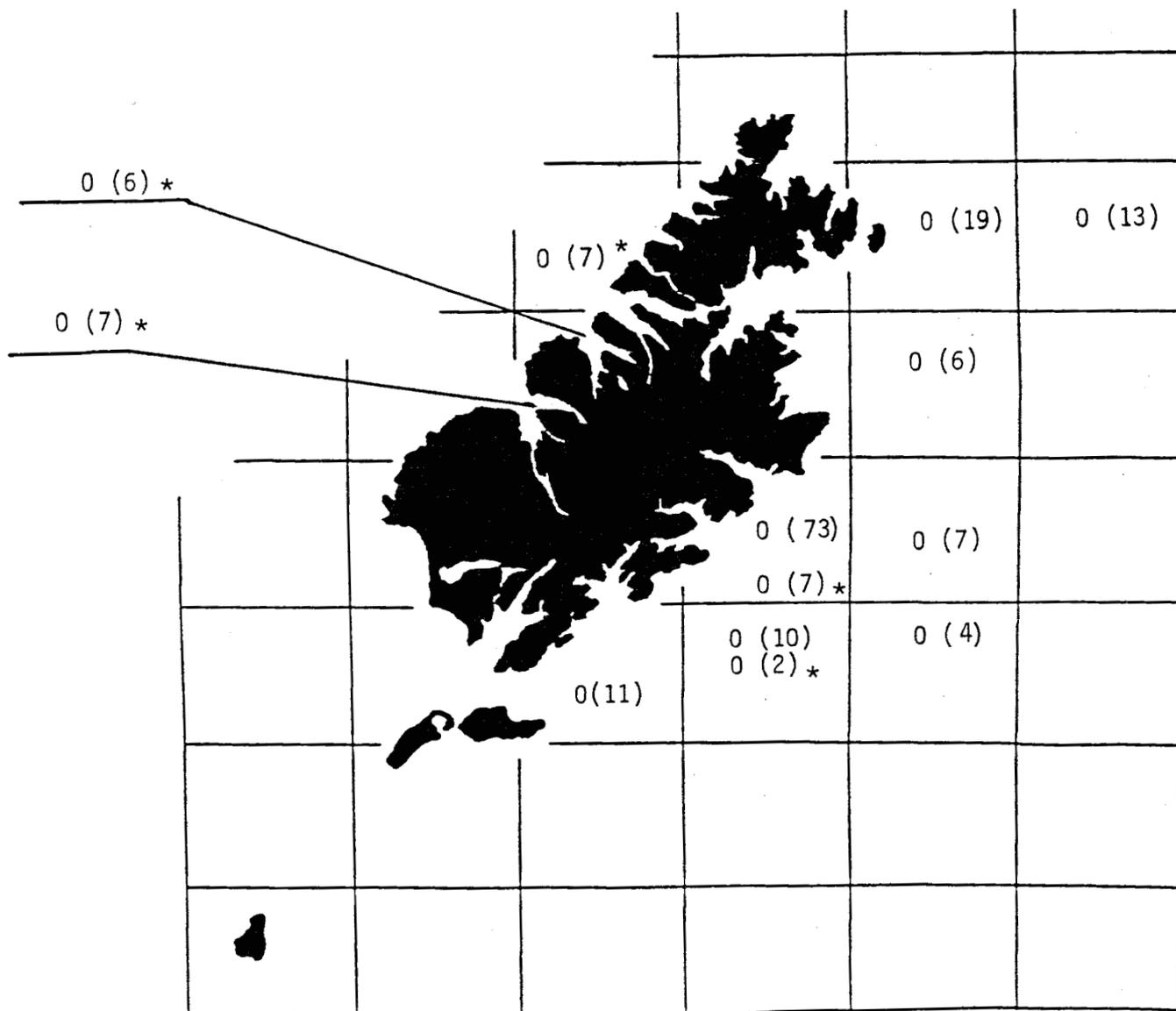


Figure 16. Salmon bycatch (number/hr), 1985 and 1987 observer data. Bycatch values are listed for individual statistical areas, followed by the sample size (number of trawl hauls). * = 1985 data

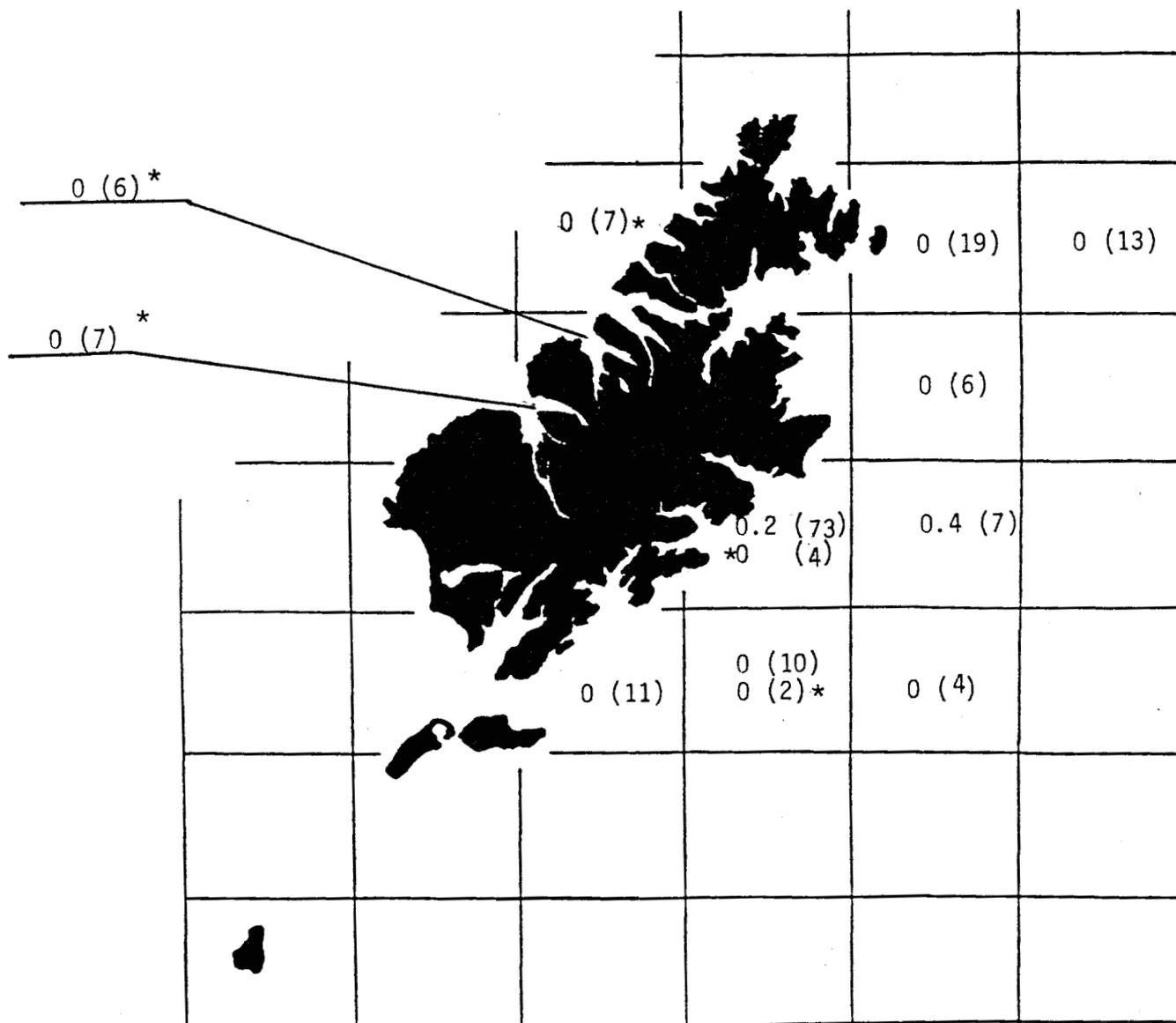
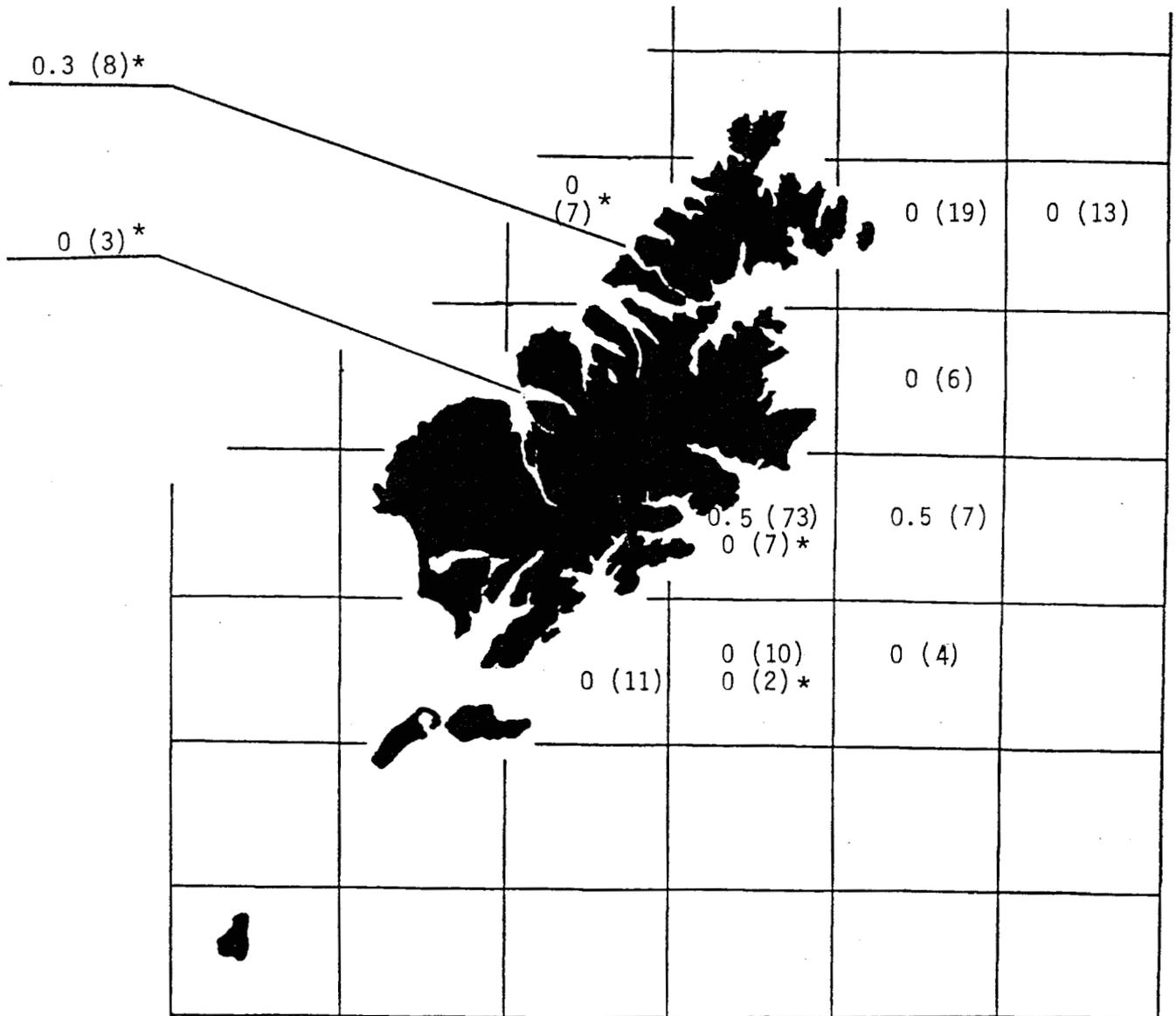


Figure 18. Salmon bycatch (pounds/hr), 1985 and 1987 observer data. Bycatch values are listed for individual statistical areas, followed by the sample size (number of trawl hauls). * = 1985 data



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