

COMISIÓN INTERAMERICANA DEL ATÚN TROPICAL
INTER-AMERICAN TROPICAL TUNA COMMISSION

**GRUPO DE TRABAJO SOBRE CAPTURA INCIDENTAL
WORKING GROUP ON BYCATCH**

3ª REUNION -- 3RD MEETING

LA JOLLA, CALIFORNIA (USA)
5-6 DE MARZO DE 2002 -- 5-6 MARCH 2002

DOCUMENTO BYC-3-05b

**RESUMEN DE DATOS DE DESCARTES Y CAPTURAS INCIDENTALES
PARA BUQUES DE CLASE 6, 1993-2000**

Los datos de descartes presentados provienen de la base de datos de observadores de la CIAT, usando un proceso sencillo para extrapolar de los buques con observadores de la CIAT a todos los buques de la Clase 6. Los observadores registran los descartes de la mayoría de las especies en número de individuos, pero los de atunes en toneladas. Se supone que todos los animales que pasan por el proceso de captura y son tirados al agua están muertos, aunque es posible que esto no valga para algunas especies de tiburones ni para individuos de ciertas especies.

La base de datos abarca una gran mayoría de los lances sobre objetos flotantes, en la mayoría de los años más del 90% del total; la cobertura es menor para los lances sobre delfines, y en menor grado para los lances sobre atunes no asociados. Ya que la mayor parte de la captura incidental ocurre en lances sobre objetos flotantes, las estimaciones basadas en esos lances son adecuadas, pero para los lances sobre delfines y no asociados hay errores estadísticos de estimación que no se presentan.

Se debe limitar el uso de estos datos al tipo de comparación presentado en este documento; no son adecuados para los tipos de análisis realizados tradicionalmente por el personal de la CIAT para la evaluación de stocks y otros propósitos. Se deben también tomar en cuenta los cambios considerables en las características oceanográficas y las zonas en las que la pesquería concentró su esfuerzo durante el período abarcado por los datos.

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**SUMMARY OF DISCARD AND BYCATCH DATA FOR CLASS-6
VESSELS, 1993-2000**

The estimates of discards presented are from the IATTC observer database, using a simple process to extrapolate from vessels with IATTC observers to all Class-6 vessels. For most species, observers report discards in numbers of individuals; tuna discards are in tons. It is assumed that all individuals that have gone through the capture process and are thrown overboard are dead, although this may not necessarily be true for some shark species or individuals of some species.

The database covers a very large majority of sets on floating objects, in most years more than 90% of the total; coverage is lower for sets on dolphins, and to a lesser extent for sets on unassociated schools. As most of the bycatches occur in floating-object sets, the estimates based on those sets are adequate, but for dolphin and unassociated sets there are statistical errors of estimation that are not shown.

The use of these data should be limited to the type of comparisons shown in this document; they are not suitable for the type of analyses traditionally carried out by the IATTC staff for stock assessment and other purposes. The considerable changes in oceanographic characteristics and in the areas in which the fishery has concentrated its effort during the period covered by the data should also be taken into account.

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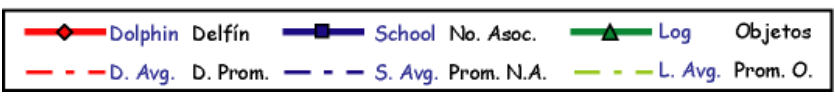
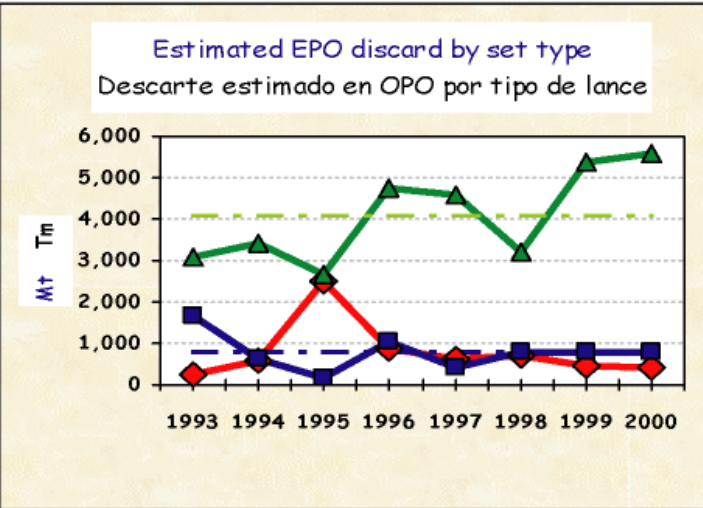
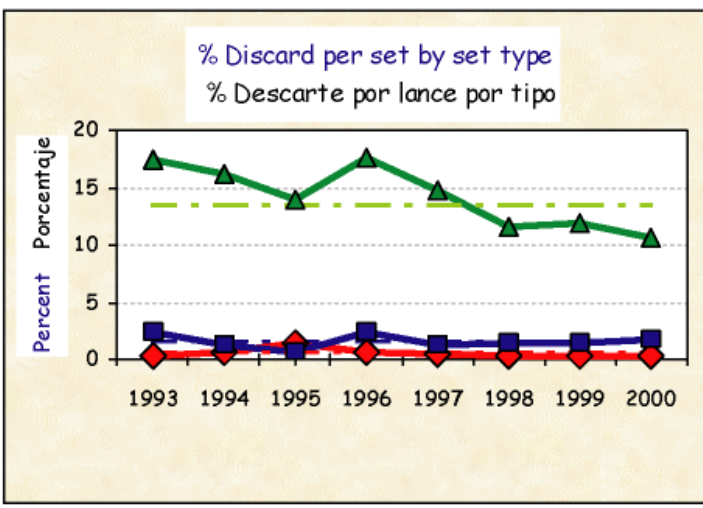
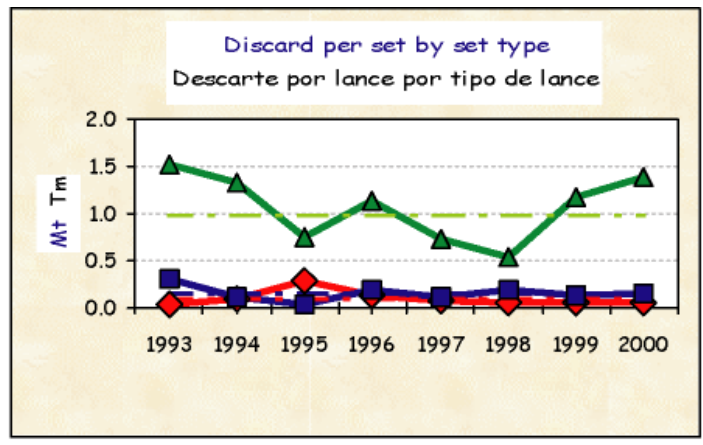


Figura 1. Atún aleta amarilla: descarte por lance, porcentaje descartado, descartes totales estimados.
Figure 1. Yellowfin tuna: discard per set, percent discarded, estimated total discards.

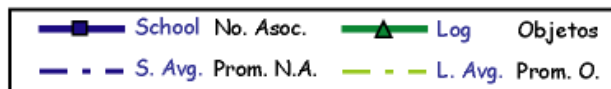
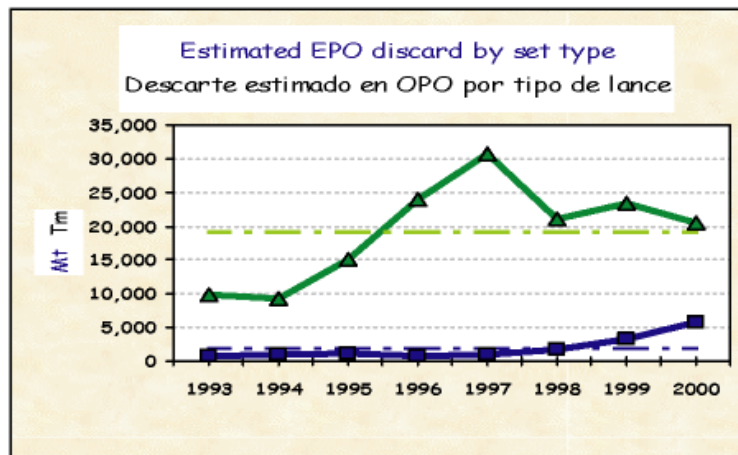
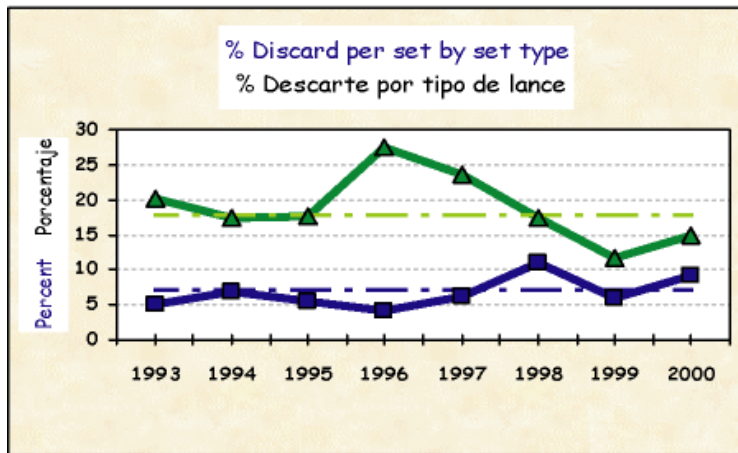
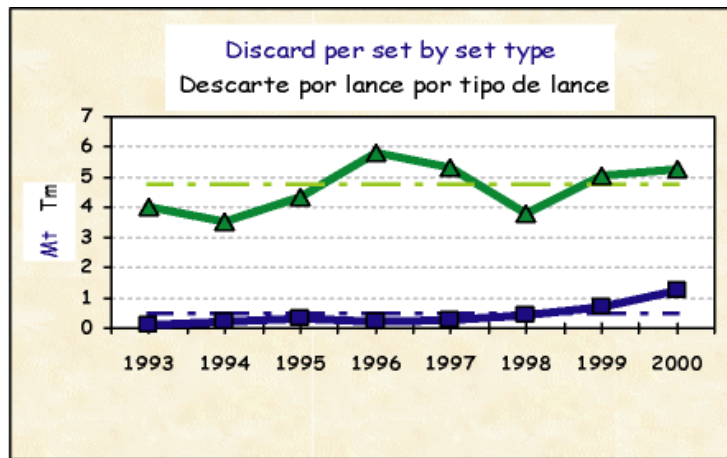


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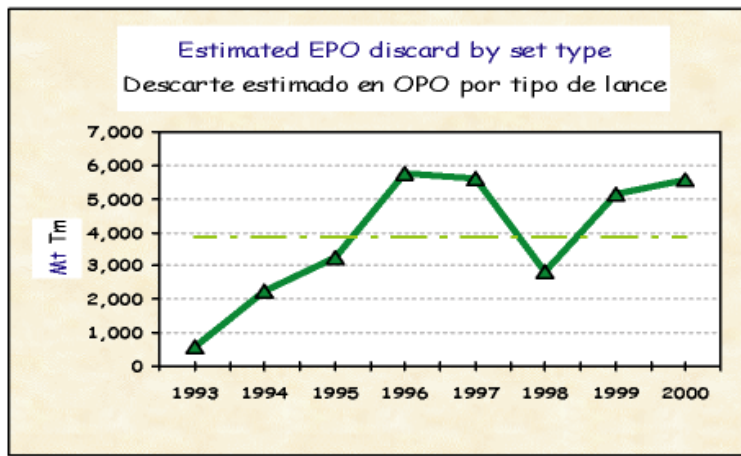
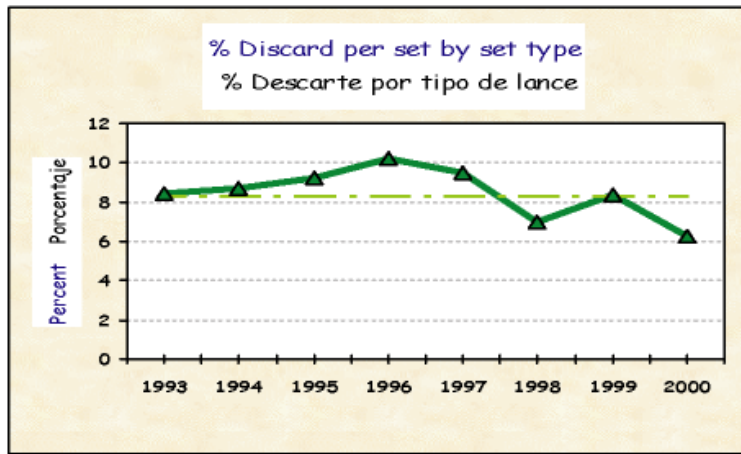
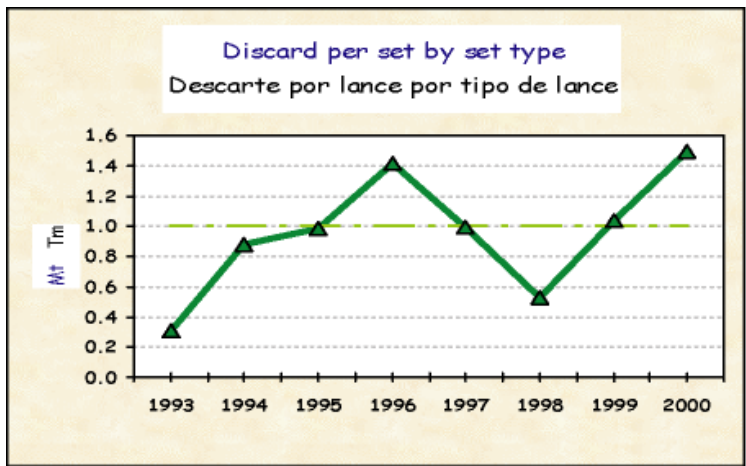
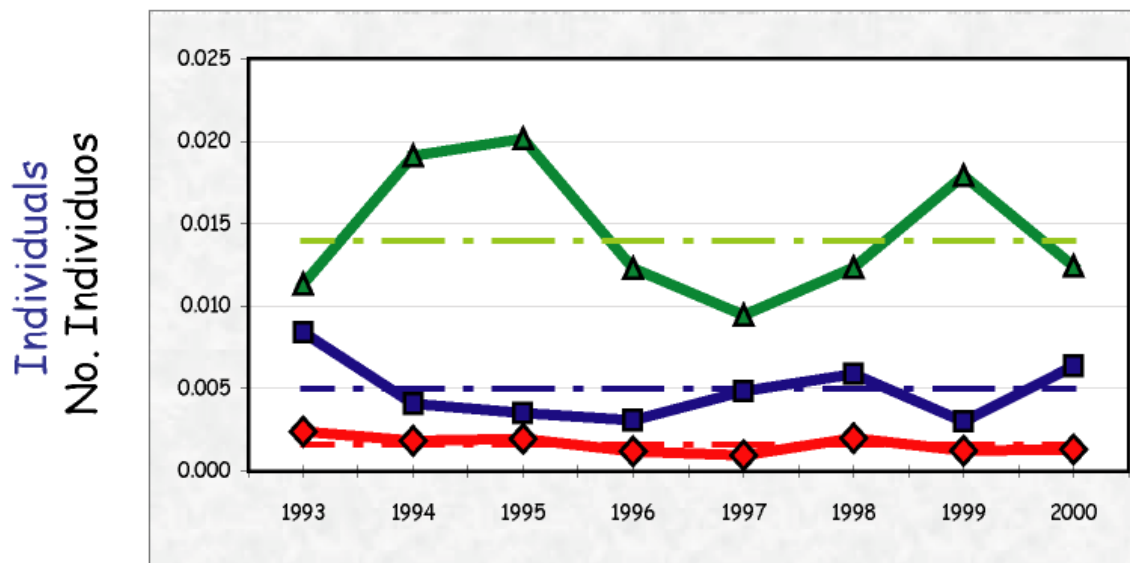


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Bycatch per set–Captura incidental por lance



Estimated bycatch–Captura incidental estimada

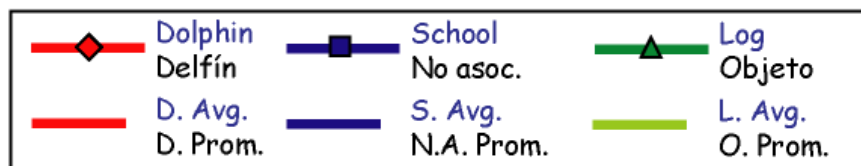
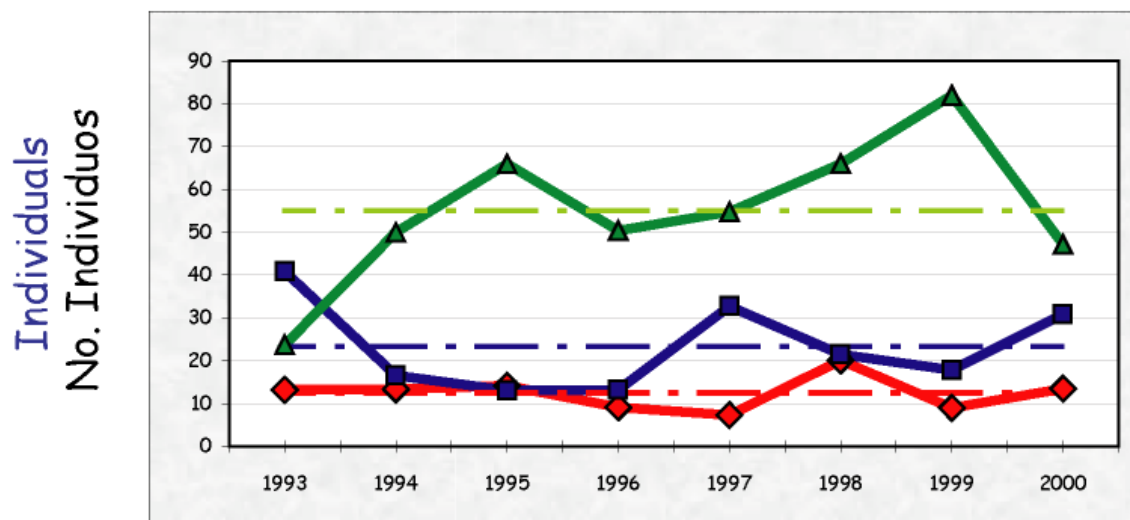
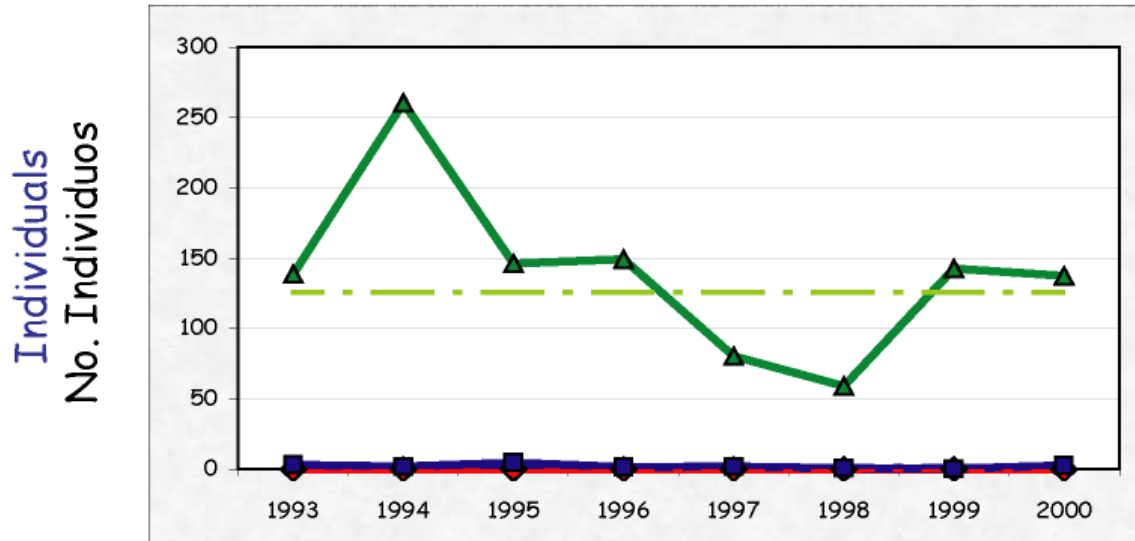


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Bycatch per set–Captura incidental por lance



Estimated bycatch–Captura incidental estimada

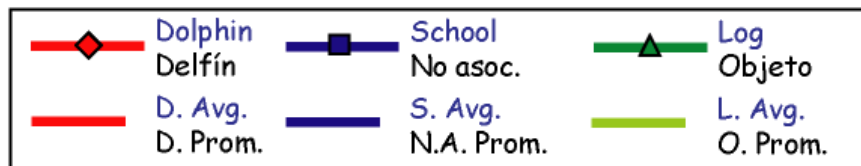
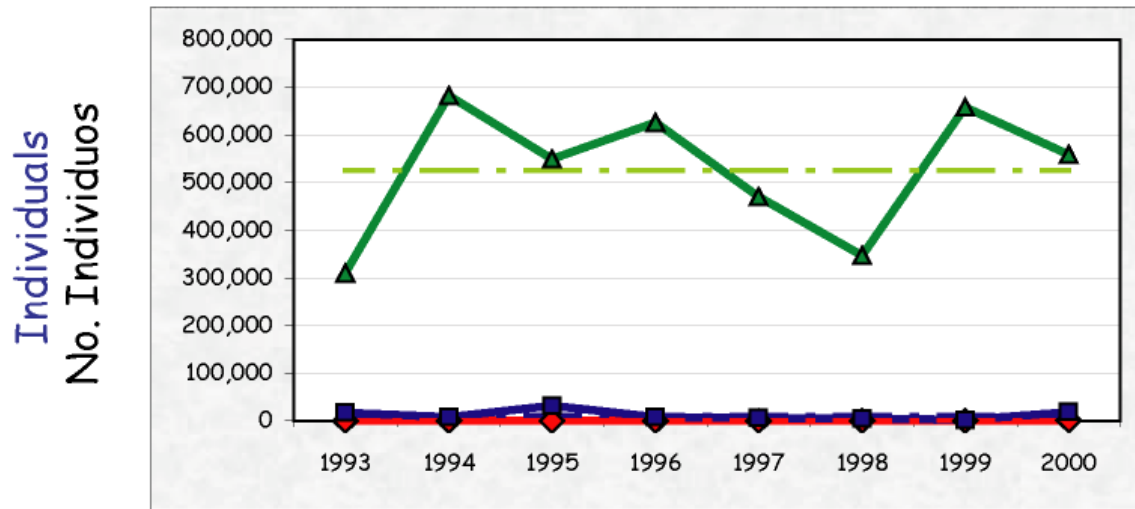
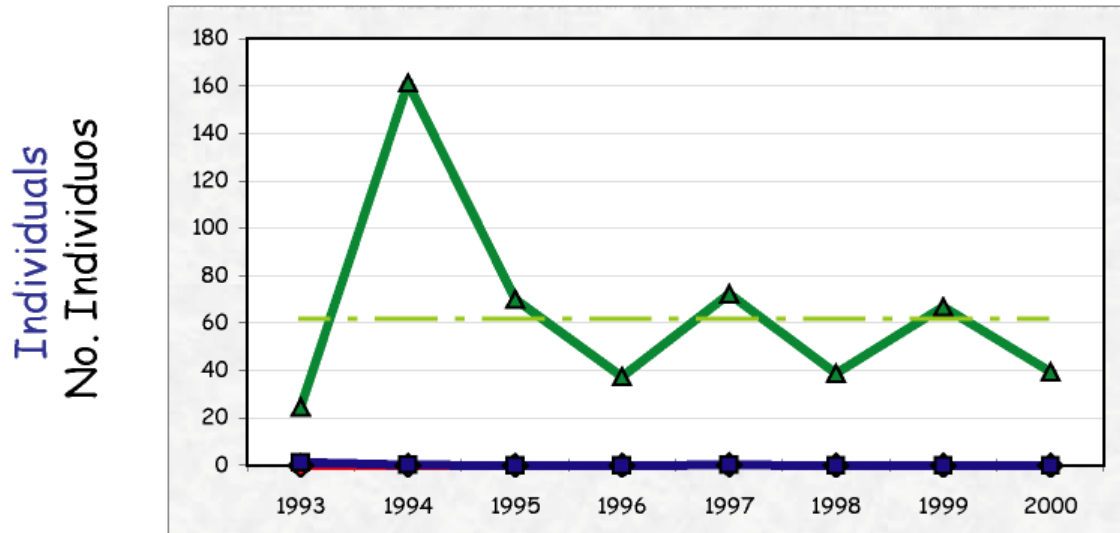


Figura 5. Dorado: captura incidental por lance y captura incidental total estimada.

Figure 5. Mahi-mahi: bycatch per set and estimated total bycatch.

Bycatch per set–Captura incidental por lance



Estimated bycatch–Captura incidental estimada

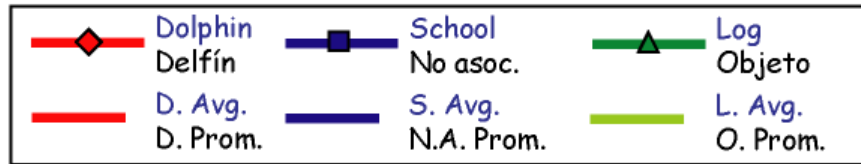
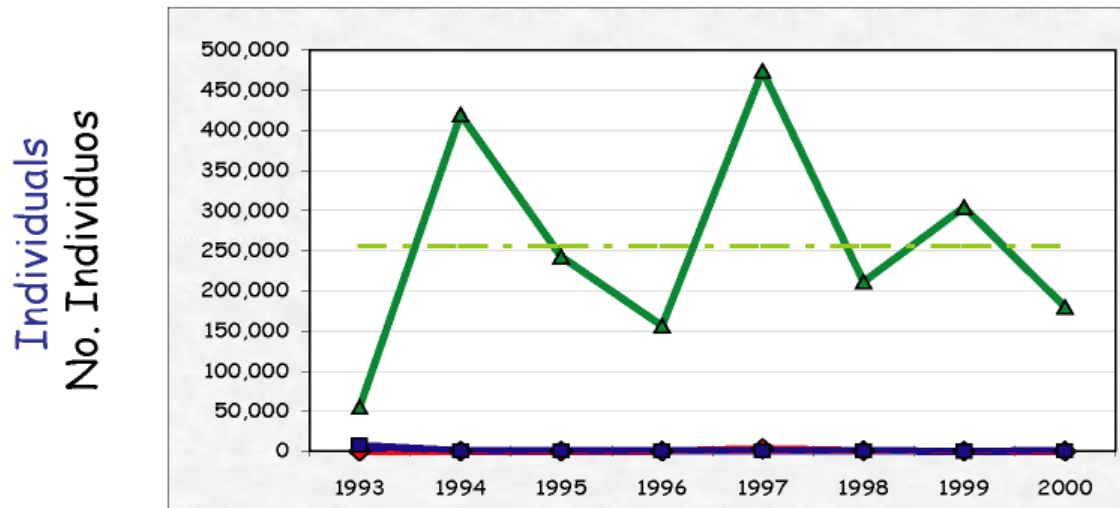
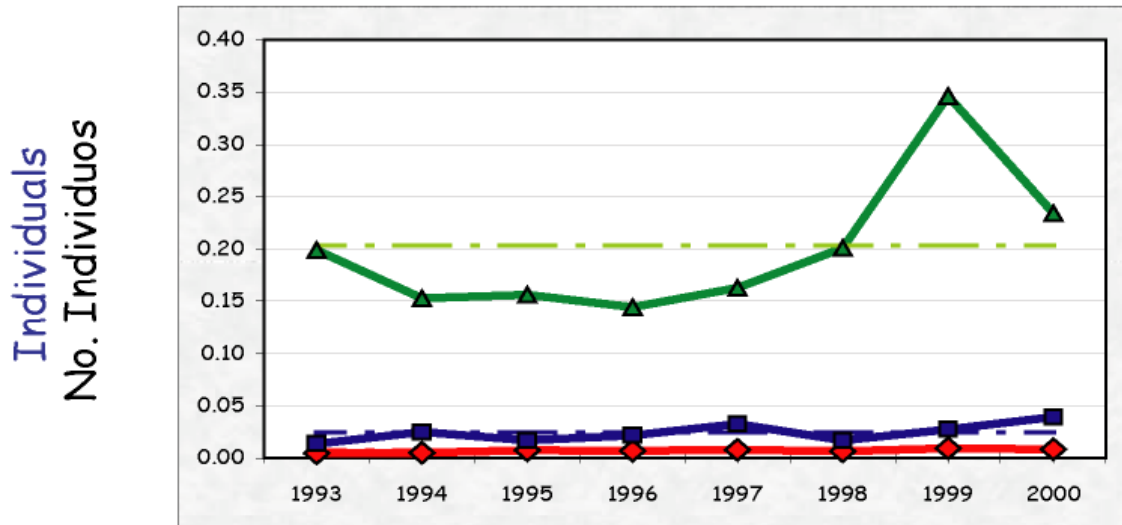


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Bycatch per set–Captura incidental por lance



Estimated bycatch–Captura incidental estimada

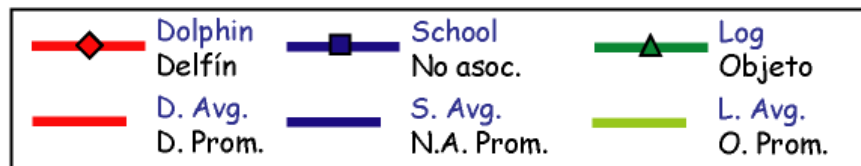
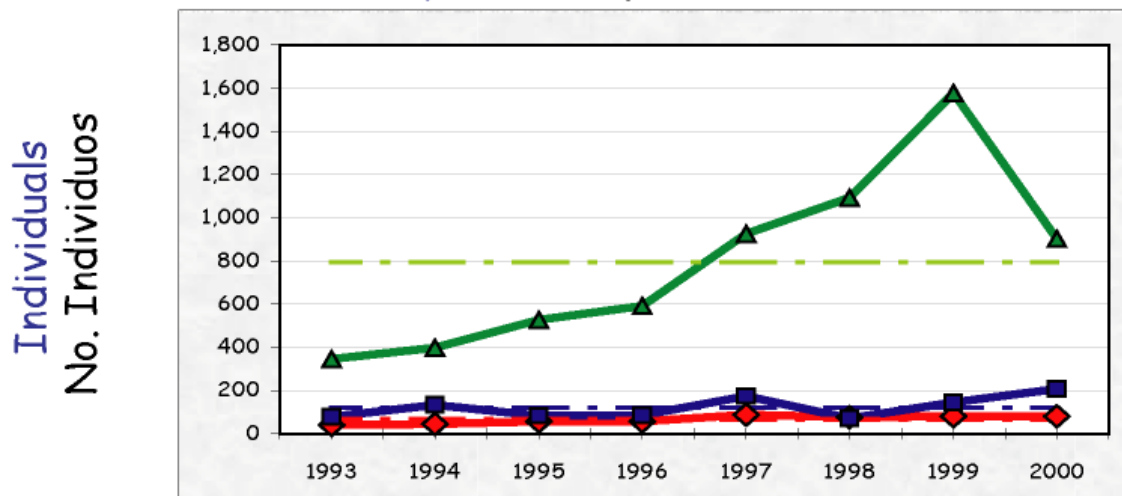
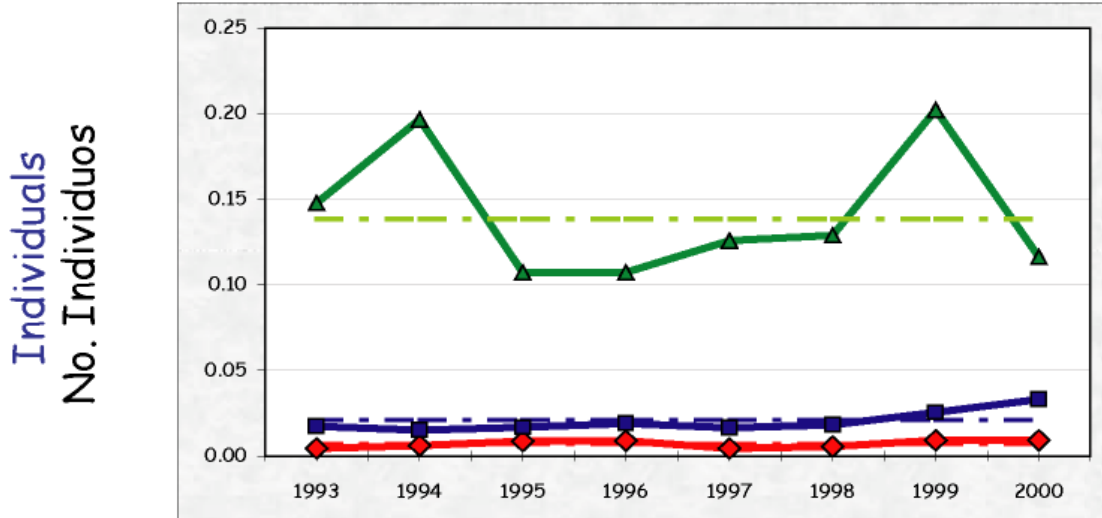


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Figure 7. Blue marlin: bycatch per set and estimated total bycatch.

Bycatch per set–Captura incidental por lance



Estimated bycatch–Captura incidental estimada

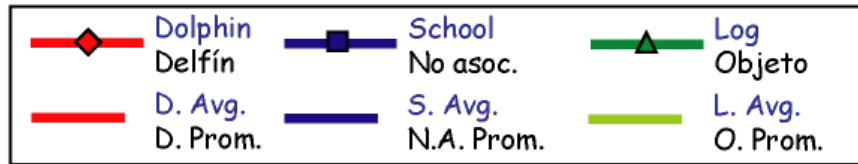
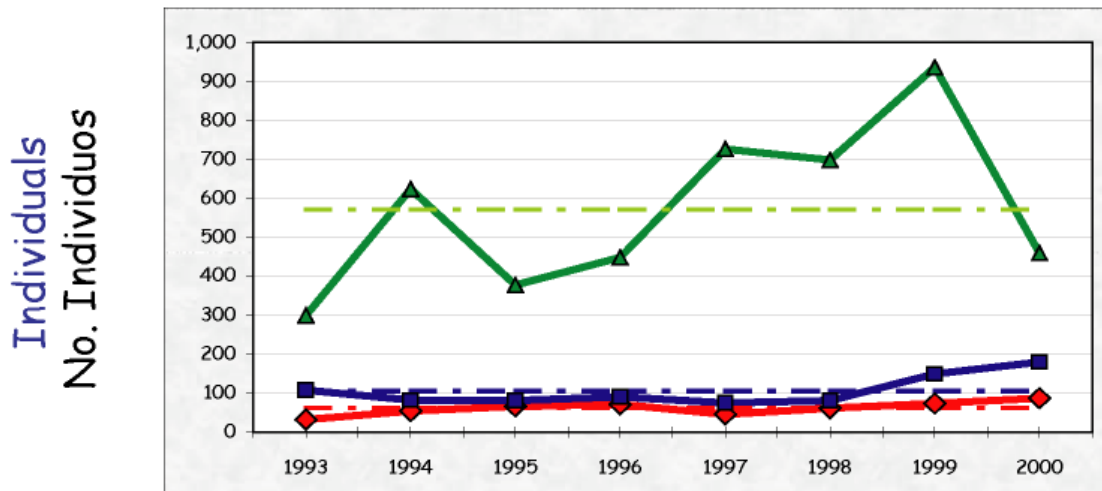
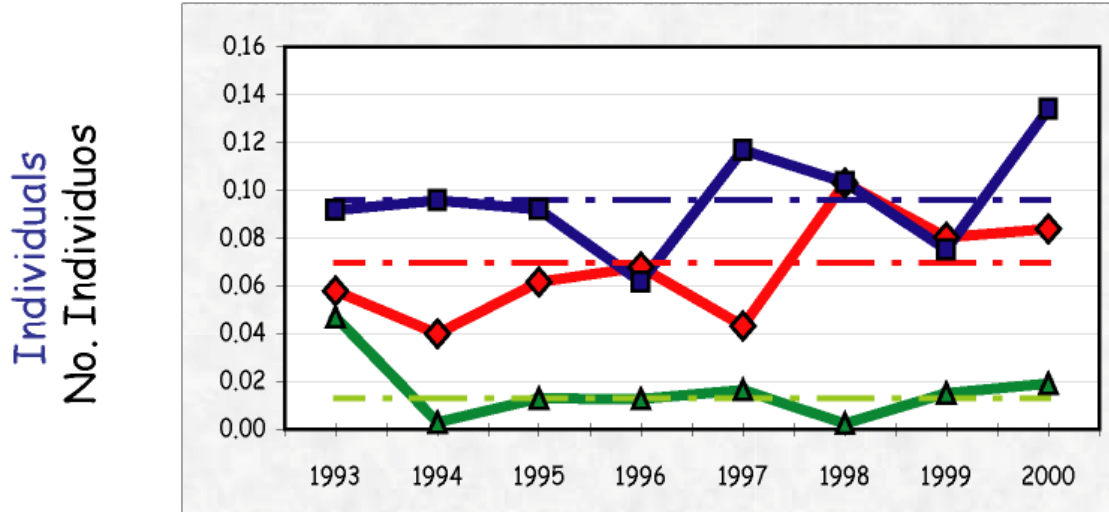


Figura 8. Marlin negro: captura incidental por lance y captura incidental total estimada.

Figure 8. Black marlin: bycatch per set and estimated total bycatch.

Bycatch per set–Captura incidental por lance



Estimated bycatch–Captura incidental estimada

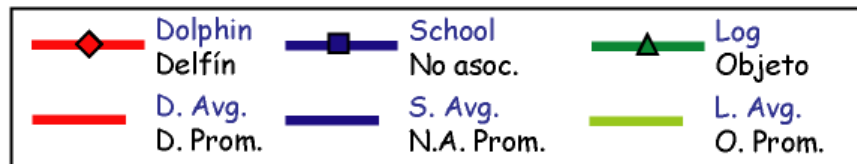
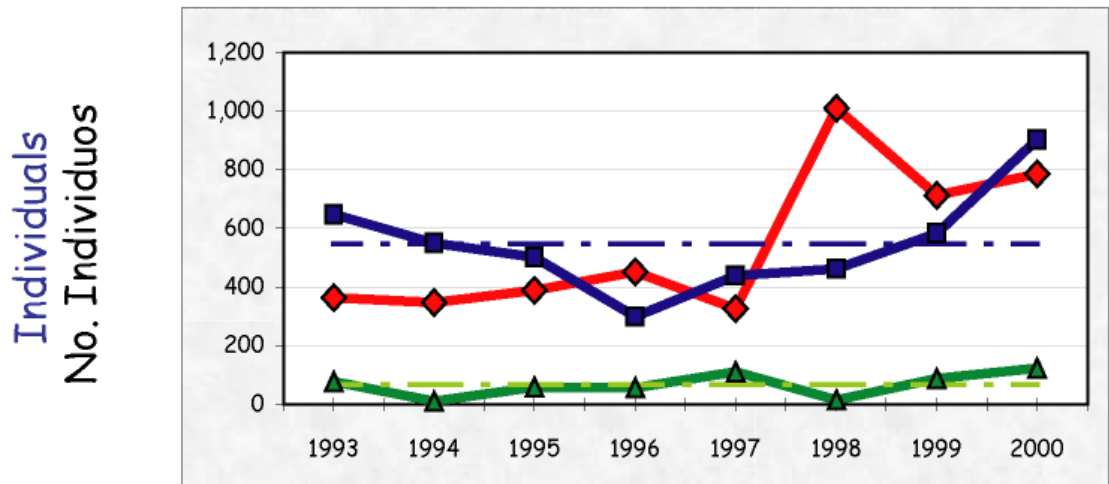
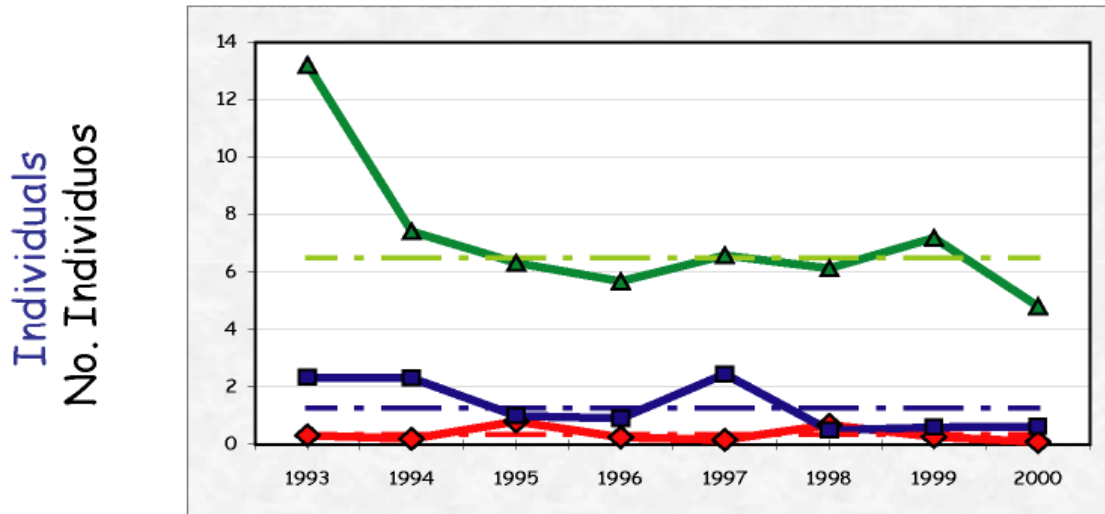


Figura 9. Pez vela: captura incidental por lance y captura incidental total estimada.
 Figure 9. Sailfish: bycatch per set and estimated total bycatch.

Bycatch per set–Captura incidental por lance



Estimated bycatch–Captura incidental estimada

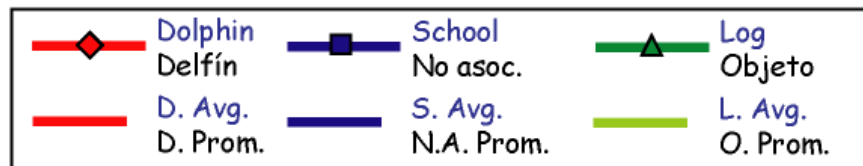
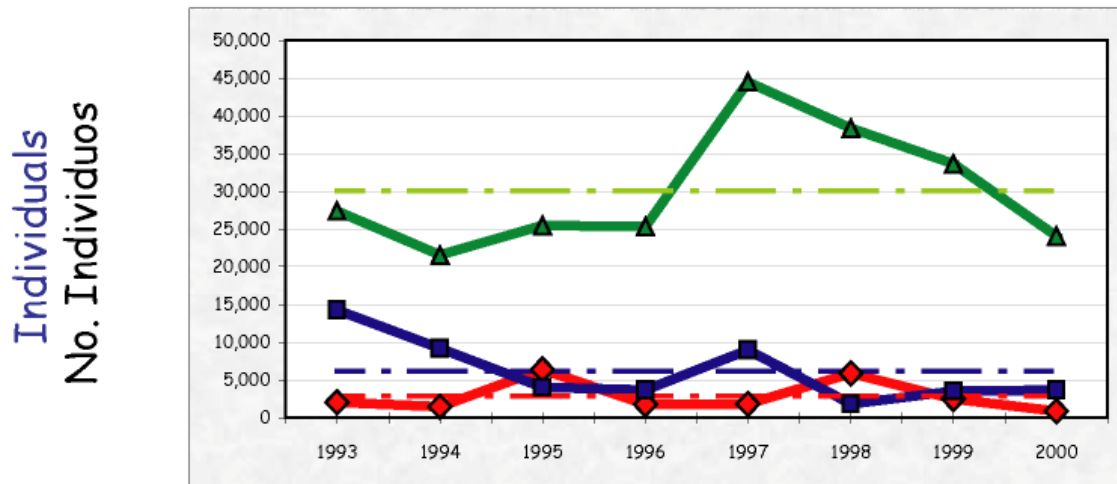
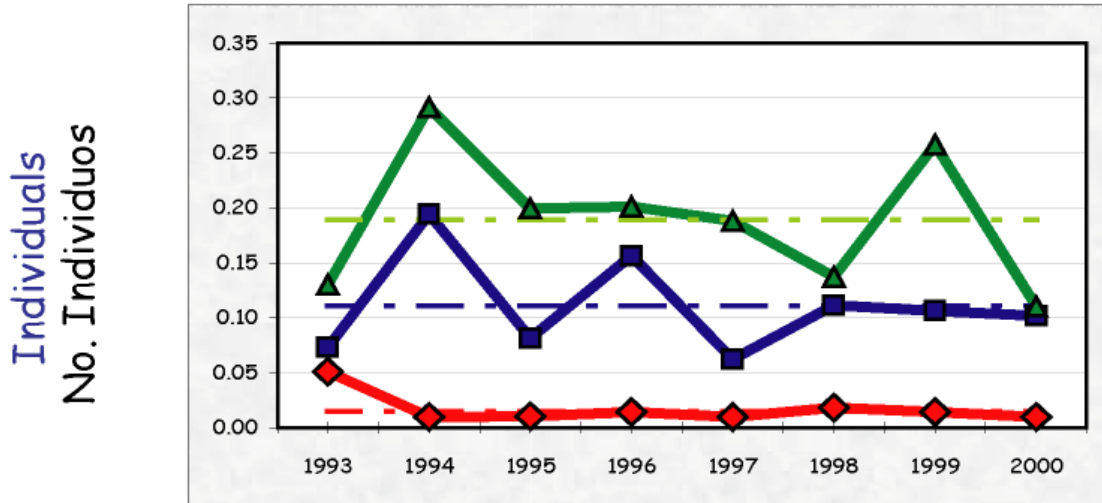


Figura 10. Tiburón sedoso: captura incidental por lance y captura incidental total estimada.
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Bycatch per set–Captura incidental por lance



Estimated bycatch–Captura incidental estimada

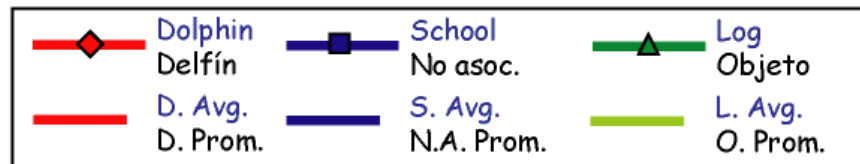
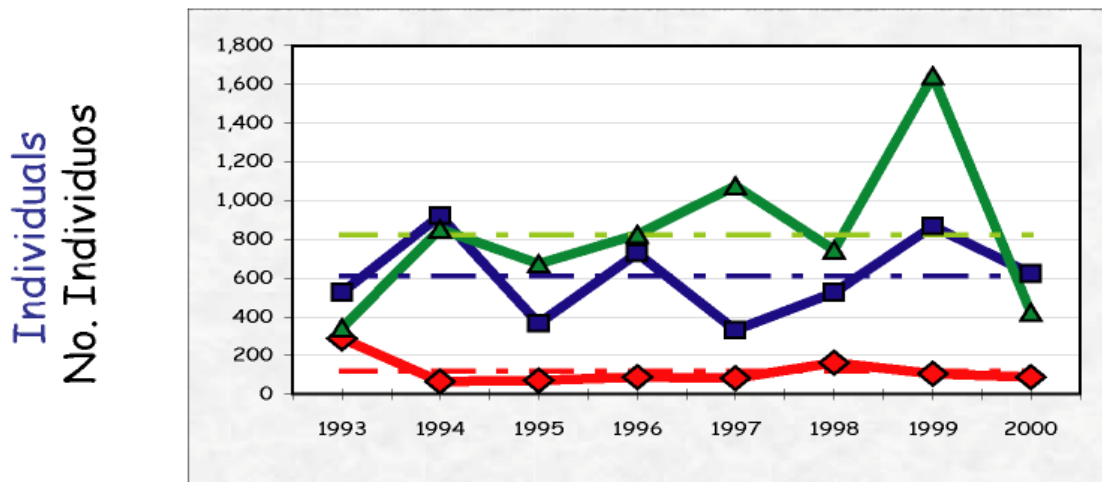
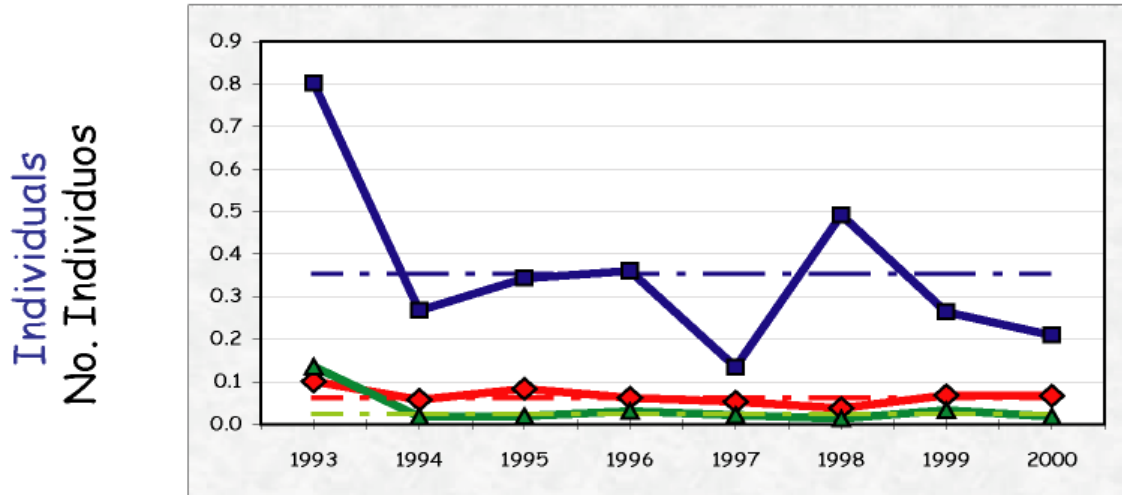


Figura 11. Tiburón martillo: captura incidental por lance y captura incidental total estimada.
 Figure 11. Hammerhead shark: bycatch per set and estimated total bycatch.

Bycatch per set–Captura incidental por lance



Estimated bycatch–Captura incidental estimada

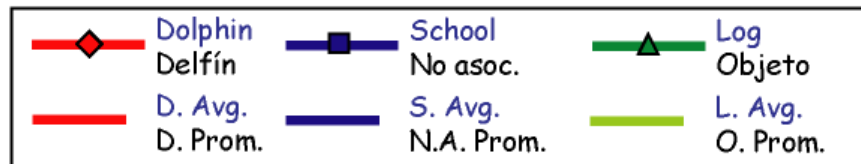
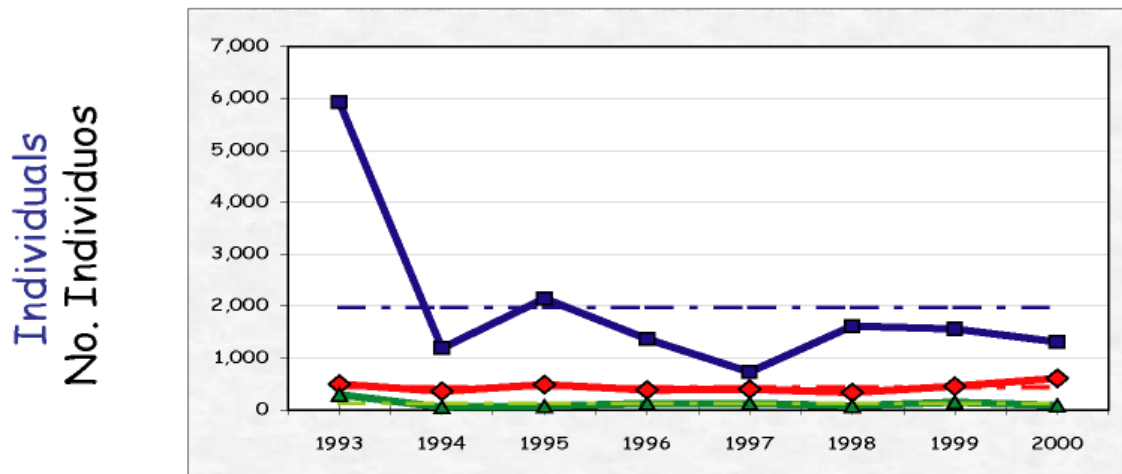


Figura 12. Manta: captura incidental por lance y captura incidental total estimada.

Figure 12. Manta ray: bycatch per set and estimated total bycatch.