

DATA CHECK OF ICCAT TASK II FOR THE SOUTH ATLANTIC

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ICCAT TASK II data for the South Atlantic consist of kind of country, gear, location unit, catch unit, effort unit, time unit, etc. These kinds of items expressed vary by country, and even in the same year of a country. Furthermore, for example, different catch units, appear in a same time and space strata in a country.

Therefore, number of records was counted by kind of items expressed for each country with which more than 100 records are reported (Table 1 and 2) to check variability in records. There were nine countries which had more than 100 records, these are Argentine, Brazil, Taiwan, Cuba, Japan, Korea, Spain, Uruguay and Brazil-Japan. Result problems on the data for stock analysis are as follows.

Argentine

- No effort data in most years. (The records with effort is only two years, 1967 and 68.)

Brazil

- No effort data in 1973.

- The data of Brazil could be separated two type, though many kinds of location unit and catch unit were expressed. One was the records by weight (MT or GG) in kind of catch, another was by #Fish. The location of operations between two types were clearly different as

#Fish 0-20°S, 25-45°W (tropical waters)
weight(MT or GG) 15-30°S, 35-50°W (off southern Brazil)

MT : round weight in metric ton. GG : yellowfin, bigeye and bluefin are in gilled and gutted weight, albacore in round weight and the rest in dressed weight.

The data by #Fish existed in 1985-88, number of records of it was 12 each year except in 1985 (11 records without January in 1985). The data had only one record each month a year, and kind of location unit expressed varied by month.

- There were two kinds of catch unit, MT and GG, in 1984, though there was only one kind of catch unit in the other years. The number of records were 21 by MT and 41 by GG. Out of them, 18 records existed in the same month and the same location. Whether these two type of records are from the same catch or not was unknown.

- Therefore, it seemed to be possible to use data series by 5x5 in location unit and weight units in 1974-1990 for stock analysis, if the problem of in 1984 could be solved. And these catch units, MT and GG, have to be converted to same unit when the data series would be expressed for analysis.

Taiwan

- The data had three kinds of gear, LL, LLFB (individual foreign-based longliner) and BLL (bottom longline). Two kinds of data series existed except BLL. One was by #Fish in 1967-75 (LLFB) and 1976-91(LL). Another was by MT in 1990-91. In 1990-91, total number of records and fishing effort between two kinds of data series were the same.

Cuba

- The records by 20x20 in kind of location unit appeared only in 1984 and 85 besides the usual records by 5x5 in kind of location unit in whole period, 1976-90.

In 1984, only the records in February were expressed by 20x20 square, and in the other 11 months except February were expressed by 5x5 square. Similarly, in 1985, the records in June, July and August were expressed by 20x20 square, and in the other 9 months were expressed by 5x5 square. The records by 20x20 square existed by in same month nevertheless it is not permitted these records exist by 5⁰. It was supposed that these 20x20 code input was mistaken for 5x5 code.

- The total fishing effort in 1983 was extremely smaller than in the other years. And each total fishing effort of the year in 1980-90 was a multiple of hundred or thousand. Then fishing effort of each record was checked by year. It supposed luck of multiplying by 100 or 1000 in 1982, and it is necessary to check whether the value of fishing effort in 1980-90 was certainly right or not.

| | | | | | | | | | | |
|-----|-----|----|-----|------|-----|------|------|-----|-----|------|
| 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 100 | 100 | - | 100 | 1000 | 100 | 1000 | 1000 | 100 | 100 | 1000 |

100 : All records were a multiple of hundred 1000 : All records were a multiple of thousand

Japan

- Contents of the data series were consistent in kind and unit of catch and effort in all period (1956-91).

Korea

- Two kinds of datasets existed. One was by #Fish in 1967-69. Another was by MT in 1976-91.

- No data in 1970-75.

Spain

- Data had three kinds of gear, LL and LLHB (homo-based longline).
- LL data only in 1991, only in swordfish.
- LLHB data had a few kinds of location unit and catch unit. At first in the viewpoint of catch unit, total number of records and fishing effort each year between by MT and by #Fish were the same. Next for location unit, the records by ICCAT Area and by 5x5 square existed. There were #94 and #95 of ICCAT Area in the data by ICCAT Area, both #94 and #95 mean the area of the north Atlantic. Therefore data series by ICCAT Area is not available for south Atlantic stock analysis. On the other hands, records by 5x5 square consisted of operations in the south Atlantic only. However data series by 5x5 is not so available for stock analysis because it was for only three years.

Uruguay

- No data in 1985.
- Yearly was expressed in 1983 and 84 as time unit, and Quarterly in 1986.
- Two types of data series by weight (MT or CNV.RD) and by #Fish for 1982-86 exist. In 1982, both number of total record and effort by #Fish and by CNV.RD (Original data was "GG DWT R", all those are converted to round weight in metric tons) were the same. It was supposed both the data were from the same catch. However, two types of data series between by weight and by #Fish in each 1983-86 (except 85) did not have same number of total record and effort.

| year | kind of catch | record |
|------|----------------|---------|
| 1982 | CNV.RD : #Fish | 10 : 10 |
| 1983 | MT : #Fish | 26 : 27 |
| 1984 | MT : #Fish | 66 : 67 |
| 1986 | MT : #Fish | 40 : 47 |

Therefore the records between different kind of the data series were compared with the time and space of the record by year.

- 1983: It was confirmed that 26 records of the each data series between by MT and by #Fish were the same for location. The data series by MT had 1 more record 39S50W which the data series of #Fish did not have.
- 1984: It was confirmed that 66 records of the each data series between by MT and by #Fish were the same for location. The data series by MT had 1 more record 20S35W which the data series of #Fish did not have.
- 1986: There are 4 data series in this year. The data series in the kind of effort between by Days fishing and #Hook were the same for total number of records, effort and location. It was confirmed that 40 records of the each data series between by MT and by #Fish were the same for location. The data series by MT had 7 more records; 15S35W, 19S23W, 21S35W, 22S35W, 36S47W, 40S43W, of 1st Qt and 35S49W of 4th Qt which the data series by #Fish did not have.
- In 1987, the data series by GG and by Filet existed, and number of records of these two data series is 9 and 16, respectively. It was confirmed that 9 records of the each data series between by GG and by Filet were the same for location. The data series by Filet had 7 more records; 36S49W 36S50W 37S51W 37S52W 37S53W 37S54W 39S51W which the data series of GG did not have.

Brazil-Japan

- There were two kinds of catch unit CNV.RD and MT. Since CNV.RD correspond to MT for stock analysis, it could be regarded that one kind of the data series were consistent in 1977-91.

Table 1. Number of records, period of data submitted, total years submitted, and kind of data submitted by country in ICCAT TASK II data for south Atlantic. The data of the country which had more than 100 records was checked in detail.

| Country | No.Rec | Periods | Years | Gear |
|-----------------|--------|---------------------|-------|--------------|
| Argentina | 153 | 60-67, 67-68, 76-77 | 9 | LL |
| Brazil | 770 | 72-90 | 19 | LL |
| Taiwan | 4647 | 67-92 | 16 | LL, LB, LLFB |
| Cuba | 922 | 76-90 | 15 | LL |
| Japan | 7683 | 56-92 | 36 | LL |
| Korea | 1897 | 67-69, 76-91 | 19 | LL |
| South Africa | 25 | 84-86 | 2 | LL |
| Spain | 926 | 88-90 | 3 | LL, LLHB |
| USA | 56 | 88-92 | 4 | LL |
| USSR | 72 | 76-86 | 10 | LLMB |
| Uruguay | 412 | 81-84, 86-87 | 6 | LL |
| Brazil-Korea | 36 | 76-78 | 2 | LL |
| Brazil-Japan | 529 | 77-91 | 15 | LL |
| JP-SH-OB | 24 | 88-90 | 2 | LL |
| Brazil-Taiwan | 37 | 91 | 1 | LL |
| Brazil-Honduras | 6 | 91 | 1 | LL |

Table 2. Number of records and effort for the record type (kind of square, catch, effort and time) by country, gear used and year in ICCAT TASK II data for south Atlantic.

| Kind of catch | | MT | | Round weight in metric tons | |
|----------------|----------|------------------|--------|--|-----------------------------------|
| #FISH | | | | Number of fish | |
| GG DWT R | | | | yellowfin, bigeye and bluefin are in gilled and gutted weight, albacore in round weight and the rest in dressed weight | |
| CNV. RD | | | | Original data was "GG DWT R", all those are converted to round weight in metric tons | |
| FILET | | | | Filet | |
| kind of effort | | NO DATA | | Not available | |
| #HOOK | | | | Number of hooks | |
| D. FISH | | | | Days fishing | |
| ARGENTINE | | Total rec. = 153 | | | |
| Gear=LL | | | | | |
| Square | Catch | Effort | Time | rec. | effort |
| 1960 5x5 | MT | NO DATA | MONTHS | 21 | 0 |
| 1961 5x5 | MT | NO DATA | MONTHS | 17 | 0 |
| 1962 5x5 | MT | NO DATA | MONTHS | 17 | 0 |
| 1963 5x5 | MT | NO DATA | MONTHS | 22 | 0 |
| 1964 5x5 | MT | NO DATA | MONTHS | 16 | 0 |
| 1967 20x20 | MT | #HOOKS | MONTHS | 20 | 739000 |
| 1968 20x20 | MT | #HOOKS | MONTHS | 30 | 1107800 |
| 1976 5x10 | MT | NO DATA | MONTHS | 3 | 0 |
| 20x20 | MT | NO DATA | MONTHS | 1 | 0 |
| 1977 5x5 | GG DWT R | NO DATA | MONTHS | 6 | 0 |
| | | | | 1972 10x10 | GG DWT R #HOOKS MONTHS 12 620860 |
| | | | | 1973 1x1 | GG DWT R NO DATA YEARLY 26 0 |
| | | | | 1974 5x5 | GG DWT R #HOOKS MONTHS 18 721830 |
| | | | | 1975 5x5 | GG DWT R #HOOKS MONTHS 30 810865 |
| | | | | 1976 5x5 | MT #HOOKS MONTHS 35 1093305 |
| | | | | 1977 5x5 | MT #HOOKS MONTHS 34 1243815 |
| | | | | 1978 5x5 | GG DWT R #HOOKS MONTHS 42 1282780 |
| | | | | 1979 5x5 | GG DWT R #HOOKS MONTHS 29 1282565 |
| | | | | 1980 5x5 | GG DWT R #HOOKS MONTHS 32 1189110 |
| | | | | 1981 5x5 | GG DWT R #HOOKS MONTHS 43 1221705 |
| | | | | 1982 5x5 | GG DWT R #HOOKS MONTHS 48 1619785 |
| | | | | 1983 5x5 | GG DWT R #HOOKS MONTHS 66 2297315 |
| | | | | 1984 5x5 | MT #HOOKS MONTHS 21 281450 |
| | | | | 5x5 | GG DWT R #HOOKS MONTHS 44 2204992 |
| | | | | 1985 10x10 | #FISH #HOOKS MONTHS 5 152033 |
| | | | | 20x20 | #FISH #HOOKS MONTHS 1 28798 |
| | | | | 5x5 | MT #HOOKS MONTHS 35 874075 |
| | | | | 5x5 | #FISH #HOOKS MONTHS 5 37800 |
| BRAZIL | | Total rec. = 770 | | | |
| Gear=LL | | | | | |
| Square | Catch | Effort | Time | rec. | effort |

| Year | Size | #FISH | #HOOKS | MONTHS | rec. | effort |
|------|-------|----------|--------|--------|---------|--------|
| 1986 | 5x10 | | | 1 | 41580 | |
| | 10x10 | | | 7 | 333355 | |
| | 20x20 | | | 1 | 46130 | |
| | 5x5 | MT | | 15 | 201435 | |
| | 5x5 | #FISH | | 3 | 124460 | |
| 1987 | 10x10 | #FISH | | 10 | 454899 | |
| | 20x20 | #FISH | | 2 | 90118 | |
| | 5x5 | GG DWT R | | 46 | 1556806 | |
| 1988 | 5x10 | #FISH | | 2 | 81788 | |
| | 10x20 | #FISH | | 2 | 90286 | |
| | 10x10 | #FISH | | 8 | 241878 | |
| | 5x5 | GG DWT R | | 49 | 1963997 | |
| 1989 | 5x5 | GG DWT R | | 43 | 2486578 | |
| 1990 | 5x5 | GG DWT R | | 55 | 3042136 | |

TAIWAN
Total rec. = 4647
Gear=LLFB
1535 rec.

| Year | Size | Catch | Effort | Time | rec. | effort |
|------|------|-------|--------|--------|------|----------|
| 1967 | 5x5 | #FISH | | MONTHS | 7 | 954427 |
| 1968 | 5x5 | #FISH | | MONTHS | 132 | 19176130 |
| 1969 | 5x5 | #FISH | | MONTHS | 228 | 24661982 |
| 1970 | 5x5 | #FISH | | MONTHS | 261 | 19631296 |
| 1971 | 5x5 | #FISH | | MONTHS | 241 | 35646420 |
| 1972 | 5x5 | #FISH | | MONTHS | 211 | 39206880 |
| 1973 | 5x5 | #FISH | | MONTHS | 123 | 37995528 |
| 1974 | 5x5 | #FISH | | MONTHS | 182 | 32720542 |
| 1975 | 5x5 | #FISH | | MONTHS | 150 | 29386736 |

Gear=LL
2823 rec.

| Year | Size | Catch | Effort | Time | rec. | effort |
|------|------|-------|--------|--------|------|----------|
| 1976 | 5x5 | #FISH | | MONTHS | 116 | 5048436 |
| 1977 | 5x5 | #FISH | | MONTHS | 157 | 9086815 |
| 1978 | 5x5 | #FISH | | MONTHS | 215 | 21924922 |
| 1979 | 5x5 | #FISH | | MONTHS | 160 | 28873400 |
| 1980 | 5x5 | #FISH | | MONTHS | 236 | 32176800 |
| 1981 | 5x5 | #FISH | | MONTHS | 267 | 38376100 |
| 1982 | 5x5 | #FISH | | MONTHS | 263 | 45333316 |
| 1983 | 5x5 | #FISH | | MONTHS | 168 | 20701200 |
| 1984 | 5x5 | #FISH | | MONTHS | 131 | 15258600 |
| 1985 | 5x5 | #FISH | | MONTHS | 167 | 42394100 |
| 1986 | 5x5 | #FISH | | MONTHS | 203 | 42834800 |
| 1987 | 5x5 | #FISH | | MONTHS | 207 | 39452300 |
| 1988 | 5x5 | #FISH | | MONTHS | 109 | 64041600 |
| 1989 | 5x5 | #FISH | | MONTHS | 86 | 54962872 |
| 1990 | 5x5 | MT | | MONTHS | 103 | 66269488 |
| | 5x5 | #FISH | | MONTHS | 103 | 66269488 |
| 1991 | 5x5 | MT | | MONTHS | 66 | 32641912 |
| | 5x5 | #FISH | | MONTHS | 66 | 32641912 |

Gear=BLL
289 rec.

| Year | Size | Catch | Effort | Time | rec. | effort |
|------|------|-------|--------|--------|------|----------|
| 1989 | 5x5 | #FISH | | MONTHS | 29 | 994189 |
| 1990 | 5x5 | MT | | MONTHS | 54 | 7554765 |
| | 5x5 | #FISH | | MONTHS | 54 | 7554765 |
| 1991 | 5x5 | MT | | MONTHS | 76 | 28071298 |
| | 5x5 | #FISH | | MONTHS | 76 | 28071298 |

CUBA
Total rec. = 922
Gear=LL

| Year | Size | Catch | Effort | Time | rec. | effort |
|------|-------|-------|--------|--------|------|----------|
| 1976 | 5x5 | #FISH | | MONTHS | 61 | 2666291 |
| 1977 | 5x5 | #FISH | | MONTHS | 71 | 3751597 |
| 1978 | 5x5 | #FISH | | MONTHS | 57 | 4564381 |
| 1979 | 5x5 | #FISH | | MONTHS | 97 | 5025324 |
| 1980 | 5x5 | #FISH | | MONTHS | 88 | 4438210 |
| 1981 | 5x5 | #FISH | | MONTHS | 75 | 2551800 |
| 1982 | 5x5 | #FISH | | MONTHS | 56 | 2903400 |
| 1983 | 5x5 | #FISH | | MONTHS | 75 | 30619 |
| 1984 | 20x20 | #FISH | | MONTHS | 8 | 4324000 |
| | 5x5 | #FISH | | MONTHS | 50 | 37112000 |
| 1985 | 20x20 | #FISH | | MONTHS | 21 | 964500 |
| | 5x5 | #FISH | | MONTHS | 66 | 4225700 |
| 1986 | 5x5 | #FISH | | MONTHS | 60 | 34133000 |
| 1987 | 5x5 | #FISH | | MONTHS | 33 | 25712000 |
| 1988 | 5x5 | #FISH | | MONTHS | 31 | 3149900 |
| 1989 | 5x5 | #FISH | | MONTHS | 31 | 1728500 |
| 1990 | 5x5 | #FISH | | MONTHS | 42 | 17315000 |

JAPAN
Total rec. = 7683
Gear=LL

| Year | Size | Catch | Effort | Time | rec. | effort |
|------|------|-------|--------|--------|------|----------|
| 1956 | 5x5 | #FISH | | MONTHS | 6 | 38480 |
| 1957 | 5x5 | #FISH | | MONTHS | 57 | 2669539 |
| 1958 | 5x5 | #FISH | | MONTHS | 38 | 2816628 |
| 1959 | 5x5 | #FISH | | MONTHS | 71 | 6371547 |
| 1960 | 5x5 | #FISH | | MONTHS | 113 | 10905355 |
| 1961 | 5x5 | #FISH | | MONTHS | 237 | 19516516 |
| 1962 | 5x5 | #FISH | | MONTHS | 245 | 32510520 |
| 1963 | 5x5 | #FISH | | MONTHS | 275 | 28351972 |
| 1964 | 5x5 | #FISH | | MONTHS | 293 | 39079072 |
| 1965 | 5x5 | #FISH | | MONTHS | 452 | 53939152 |
| 1966 | 5x5 | #FISH | | MONTHS | 337 | 31735888 |
| 1967 | 5x5 | #FISH | | MONTHS | 254 | 17094988 |
| 1968 | 5x5 | #FISH | | MONTHS | 247 | 18457256 |
| 1969 | 5x5 | #FISH | | MONTHS | 258 | 17263954 |
| 1970 | 5x5 | #FISH | | MONTHS | 269 | 18303672 |
| 1971 | 5x5 | #FISH | | MONTHS | 226 | 14977600 |
| 1972 | 5x5 | #FISH | | MONTHS | 213 | 16017753 |
| 1973 | 5x5 | #FISH | | MONTHS | 189 | 16337810 |
| 1974 | 5x5 | #FISH | | MONTHS | 103 | 9782775 |
| 1975 | 5x5 | #FISH | | MONTHS | 143 | 11564240 |
| 1976 | 5x5 | #FISH | | MONTHS | 54 | 3346185 |
| 1977 | 5x5 | #FISH | | MONTHS | 68 | 5685401 |
| 1978 | 5x5 | #FISH | | MONTHS | 86 | 9498870 |
| 1979 | 5x5 | #FISH | | MONTHS | 111 | 24993028 |
| 1980 | 5x5 | #FISH | | MONTHS | 215 | 25100892 |
| 1981 | 5x5 | #FISH | | MONTHS | 227 | 23534176 |
| 1982 | 5x5 | #FISH | | MONTHS | 248 | 34811588 |
| 1983 | 5x5 | #FISH | | MONTHS | 163 | 20289132 |
| 1984 | 5x5 | #FISH | | MONTHS | 212 | 38633744 |
| 1985 | 5x5 | #FISH | | MONTHS | 316 | 37304440 |
| 1986 | 5x5 | #FISH | | MONTHS | 268 | 24798028 |
| 1987 | 5x5 | #FISH | | MONTHS | 214 | 21037016 |
| 1988 | 5x5 | #FISH | | MONTHS | 337 | 38341576 |
| 1989 | 5x5 | #FISH | | MONTHS | 344 | 45417168 |
| 1990 | 5x5 | #FISH | | MONTHS | 363 | 53942376 |

| Year | Size | #FISH | #HOOKS | MONTHS | rec. | effort |
|-------------------|-------|--------|--------|--------|--------|----------|
| 1991 | 5x5 | | | | 431 | 48870120 |
| KOREA | | | | | | |
| Total rec. = 1897 | | | | | | |
| Gear=LL | | | | | | |
| Square | Catch | Effort | Time | rec. | effort | |
| 1967 | 5x5 | #FISH | #HOOKS | MONTHS | 27 | 850831 |
| 1968 | 5x5 | #FISH | #HOOKS | MONTHS | 21 | 365668 |
| 1969 | 5x5 | #FISH | #HOOKS | MONTHS | 33 | 607946 |
| 1976 | 5x5 | MT | #HOOKS | MONTHS | 83 | 7245889 |
| 1977 | 5x5 | MT | #HOOKS | MONTHS | 157 | 8509108 |
| 1978 | 5x5 | MT | #HOOKS | MONTHS | 140 | 7589259 |
| 1979 | 5x5 | MT | #HOOKS | MONTHS | 106 | 5117339 |
| 1980 | 5x5 | MT | #HOOKS | MONTHS | 80 | 5721883 |
| 1981 | 5x5 | MT | #HOOKS | MONTHS | 110 | 9054507 |
| 1982 | 5x5 | MT | #HOOKS | MONTHS | 137 | 9559182 |
| 1983 | 5x5 | MT | #HOOKS | MONTHS | 133 | 12296075 |
| 1984 | 5x5 | MT | #HOOKS | MONTHS | 115 | 11204879 |
| 1985 | 5x5 | MT | #HOOKS | MONTHS | 152 | 11790559 |
| 1986 | 5x5 | MT | #HOOKS | MONTHS | 119 | 8990497 |
| 1987 | 5x5 | MT | #HOOKS | MONTHS | 120 | 6104431 |
| 1988 | 5x5 | MT | #HOOKS | MONTHS | 113 | 5137524 |
| 1989 | 5x5 | MT | #HOOKS | MONTHS | 107 | 5376533 |
| 1990 | 5x5 | MT | #HOOKS | MONTHS | 59 | 1201301 |
| 1991 | 5x5 | MT | #HOOKS | MONTHS | 85 | 2847220 |

| Year | Size | Category | #FISH | #HOOKS | MONTHS | rec. | effort |
|------------------|----------|----------|--------|--------|--------|----------|--------|
| SPAIN | | | | | | | |
| Total rec. = 926 | | | | | | | |
| Gear=LLHB | | | | | | | |
| 770 rec. | | | | | | | |
| Square | Catch | Effort | Time | rec. | effort | | |
| 1975 | ICCAT AR | MT | #HOOKS | MONTHS | 24 | 11197000 | |
| | ICCAT AR | #FISH | #HOOKS | MONTHS | 24 | 11197000 | |
| 1976 | ICCAT AR | MT | #HOOKS | MONTHS | 24 | 9026000 | |
| | ICCAT AR | #FISH | #HOOKS | MONTHS | 24 | 9026000 | |
| 1977 | ICCAT AR | MT | #HOOKS | MONTHS | 24 | 10805000 | |
| | ICCAT AR | #FISH | #HOOKS | MONTHS | 24 | 10805000 | |
| 1978 | ICCAT AR | MT | #HOOKS | MONTHS | 24 | 15497000 | |
| | ICCAT AR | #FISH | #HOOKS | MONTHS | 24 | 15497000 | |
| 1979 | ICCAT AR | MT | #HOOKS | MONTHS | 24 | 9206000 | |
| | ICCAT AR | #FISH | #HOOKS | MONTHS | 24 | 9206000 | |
| 1980 | ICCAT AR | MT | #HOOKS | MONTHS | 24 | 12369000 | |
| | ICCAT AR | #FISH | #HOOKS | MONTHS | 24 | 12369000 | |
| 1981 | ICCAT AR | MT | #HOOKS | MONTHS | 12 | 12711000 | |
| | ICCAT AR | #FISH | #HOOKS | MONTHS | 12 | 12711000 | |
| 1982 | ICCAT AR | MT | #HOOKS | MONTHS | 12 | 16770000 | |
| | ICCAT AR | MT | #HOOKS | YEARLY | 1 | 8450000 | |
| | ICCAT AR | #FISH | #HOOKS | MONTHS | 12 | 16770000 | |
| | ICCAT AR | #FISH | #HOOKS | YEARLY | 1 | 8450000 | |
| 1983 | ICCAT AR | MT | #HOOKS | MONTHS | 12 | 22232000 | |
| | ICCAT AR | #FISH | #HOOKS | MONTHS | 12 | 22232000 | |
| 1984 | ICCAT AR | MT | #HOOKS | MONTHS | 24 | 32802000 | |
| | ICCAT AR | #FISH | #HOOKS | MONTHS | 24 | 32802000 | |
| 1985 | ICCAT AR | MT | #HOOKS | MONTHS | 12 | 8714900 | |
| | ICCAT AR | #FISH | #HOOKS | MONTHS | 12 | 8714900 | |

| Year | Size | Category | #FISH | #HOOKS | MONTHS | rec. | effort |
|----------|----------|----------|--------|--------|---------|----------|--------|
| 1986 | ICCAT AR | MT | #HOOKS | MONTHS | 12 | 9596300 | |
| | ICCAT AR | #FISH | #HOOKS | MONTHS | 12 | 9596300 | |
| 1988 | 5x5 | MT | #HOOKS | MONTHS | 8 | 7338301 | |
| | 5x5 | #FISH | #HOOKS | MONTHS | 8 | 7338301 | |
| 1989 | 5x5 | MT | #HOOKS | MONTHS | 48 | 12926582 | |
| | 5x5 | #FISH | #HOOKS | MONTHS | 48 | 12926582 | |
| ICCAT AR | MT | #HOOKS | MONTHS | 12 | 7924420 | | |
| ICCAT AR | #FISH | #HOOKS | MONTHS | 12 | 7924420 | | |
| 1990 | 5x5 | MT | #HOOKS | MONTHS | 76 | 13667260 | |
| | 5x5 | #FISH | #HOOKS | MONTHS | 76 | 13667260 | |
| ICCAT AR | MT | #HOOKS | MONTHS | 12 | 8244530 | | |
| ICCAT AR | #FISH | #HOOKS | MONTHS | 12 | 8244530 | | |
| Gear=LL | | | | | | | |
| 156 rec. | | | | | | | |
| Square | Catch | Effort | Time | rec. | effort | | |
| 1991 | 5x5 | MT | #HOOKS | MONTHS | 78 | 12569880 | |
| | 5x5 | #FISH | #HOOKS | MONTHS | 78 | 12569880 | |

| Year | Size | Category | #FISH | #HOOKS | MONTHS | rec. | effort |
|------------------|-------|----------|--------|---------|--------|---------|--------|
| URUGUAY | | | | | | | |
| Total rec. = 412 | | | | | | | |
| Gear=LL | | | | | | | |
| Square | Catch | Effort | Time | rec. | effort | | |
| 1981 | 5x5 | MT | #HOOKS | MONTHS | 7 | 163111 | |
| 1982 | 1x1 | #FISH | #HOOKS | MONTHS | 10 | 717719 | |
| | 1x1 | CVN.RD | #HOOKS | MONTHS | 10 | 717719 | |
| 1983 | 1x1 | MT | #HOOKS | YEARLY | 26 | 2461855 | |
| | 1x1 | #FISH | #HOOKS | YEARLY | 27 | 2463775 | |
| 1984 | 1x1 | MT | #HOOKS | YEARLY | 66 | 4733455 | |
| | 1x1 | #FISH | #HOOKS | YEARLY | 67 | 4745775 | |
| 1986 | 1x1 | MT | D.FISH | QUARTER | 40 | 666 | |
| | 1x1 | MT | #HOOKS | QUARTER | 40 | 1220028 | |
| | 1x1 | #FISH | D.FISH | QUARTER | 47 | 685 | |
| | 1x1 | #FISH | #HOOKS | QUARTER | 47 | 1269130 | |
| 1987 | 1x1 | GG DWT R | #HOOKS | YEARLY | 9 | 1011215 | |
| | 1x1 | FILET | #HOOKS | YEARLY | 16 | 1099076 | |

| Year | Size | Category | #FISH | #HOOKS | MONTHS | rec. | effort |
|------------------|-------|----------|--------|--------|--------|---------|--------|
| BRAS-JPN | | | | | | | |
| Total rec. = 329 | | | | | | | |
| Gear=LL | | | | | | | |
| Square | Catch | Effort | Time | rec. | effort | | |
| 1977 | 5x5 | CVN.RD | #HOOKS | MONTHS | 9 | 256000 | |
| 1978 | 5x5 | CVN.RD | #HOOKS | MONTHS | 40 | 1419893 | |
| 1979 | 5x5 | CVN.RD | #HOOKS | MONTHS | 28 | 1153661 | |
| 1980 | 5x5 | CVN.RD | #HOOKS | MONTHS | 41 | 1274702 | |
| 1981 | 5x5 | CVN.RD | #HOOKS | MONTHS | 23 | 1174090 | |
| 1982 | 5x5 | CVN.RD | #HOOKS | MONTHS | 43 | 2230816 | |
| 1983 | 5x5 | CVN.RD | #HOOKS | MONTHS | 36 | 1771839 | |
| 1984 | 5x5 | MT | #HOOKS | MONTHS | 18 | 1079956 | |
| 1985 | 5x5 | MT | #HOOKS | MONTHS | 30 | 851679 | |
| 1986 | 5x5 | MT | #HOOKS | MONTHS | 60 | 2242426 | |
| 1987 | 5x5 | CVN.RD | #HOOKS | MONTHS | 54 | 2217591 | |
| 1988 | 5x5 | MT | #HOOKS | MONTHS | 56 | 2420670 | |
| 1989 | 5x5 | CVN.RD | #HOOKS | MONTHS | 28 | 2212619 | |
| 1990 | 5x5 | CVN.RD | #HOOKS | MONTHS | 36 | 2192710 | |
| 1991 | 5x5 | CVN.RD | #HOOKS | MONTHS | 27 | 1008440 | |