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by

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Japanese fleets fished in Subareas 3, 4 and 5 and in Statistical Area 6 during 1972, taking a total of 34,900 tons. This is 8,400 tons lower than in 1971, although the 1972 figure is still of preliminary nature. Principal species caught were squids (18,691 tons), butterfish (3,661 tons), herring (3,296 tons) and redfish (3,016 tons).

Subarea 3

A. STATUS OF THE FISHERIES

The catch by Japanese trawlers in Subarea 3 decreased from 8,136 tons in 1971 to 1,567 tons in 1972. Fishing grounds were mainly in 3L and 3P for redfish and in 3P for herring.

Table 1. Catch in Subarea 3, 1968-72

| Year                  | 1968  | 1969 | 1970  | 1971  | 1972* |
|-----------------------|-------|------|-------|-------|-------|
| Hours fished          | 1,043 | 410  | 1,861 | 3,106 |       |
| Total catch<br>(tons) | 1,672 | 810  | 3,511 | 8,136 | 1,567 |
| Herring               | -     | -    | 0     | -     | 611   |
| Redfish               | 774   | 533  | 2,586 | 7,600 | 743   |
| Argentine             | 145   | 106  | 793   | 444   | 157   |
| Flatfishes            | 38    | 21   | 4     | 1     | 1     |
| Cod                   | 574   | 83   | 49    | 14    | 0     |
| Haddock               | 6     | 1    | 6     | -     | -     |

\* Preliminary

## B. SPECIAL RESEARCH STUDIES

### 1. Biological Studies

Length measurements for redfish were made on board commercial trawlers in Division 3P.

#### Subarea 4

### A. STATUS OF THE FISHERIES

In this Subarea the catch remained virtually unchanged from 1970 and 1971. Fishing grounds are basically the same as in the previous year, argentine in Division 4V and redfish on the eastern slope of Division 4V.

Table 2. Catch in Subarea 4, 1968-72

| Year                  | 1968  | 1969  | 1970  | 1971  | 1972* |
|-----------------------|-------|-------|-------|-------|-------|
| Hours fished          | 1,075 | 896   | 2,176 | 1,673 |       |
| Total catch<br>(tons) | 2,012 | 1,936 | 4,779 | 4,499 | 4,512 |
| Redfish               | 524   | 251   | 967   | 1,164 | 2,273 |
| Argentine             | 1,086 | 1,256 | 2,940 | 2,879 | 456   |
| Herring               | 9     | 14    | 100   | 88    | 1,526 |
| Silver hake           | 76    | 213   | 128   | 9     | 63    |
| White hake            | -     | -     | 17    | 31    | 24    |
| Flatfishes            | 28    | 21    | 9     | 1     | 24    |
| Cod                   | 21    | 39    | 154   | 6     | 22    |
| Haddock               | 18    | 20    | 13    | 1     | -     |

\* Preliminary

## B. SPECIAL RESEARCH STUDIES

### 1. Biological Studies

Length measurements for redfish, silver hake, yellowtail flounder, herring and argentine were made on board commercial trawlers.

Subarea 5

A. STATUS OF THE FISHERIES

The catch of Japanese trawlers in Subarea 5 decreased from 16,900 tons in 1971 to 12,500 tons in 1972. Catches of squid and butterfish increased, while catches of argentine and herring decreased. The fleets operated mainly in Sub-division 5Ze.

Table 3. Catch in Subarea 5, 1968-72

| Year                  | 1968 | 1969  | 1970   | 1971   | 1972*  |
|-----------------------|------|-------|--------|--------|--------|
| Hours fished          | 540  | 8,216 | 9,310  | 10,196 |        |
| Total catch<br>(tons) | 724  | 8,789 | 10,722 | 16,938 | 12,538 |
| Squid                 | 113  | 3,902 | 5,086  | 5,008  | 7,862  |
| Butterfish            | 328  | 1,291 | 1,724  | 867    | 1,396  |
| Herring               | 1    | 527   | 1,222  | 3,109  | 1,159  |
| Mackerel              | 1    | 197   | 463    | 322    | 209    |
| Silver hake           | 52   | 229   | 73     | 195    | 115    |
| White hake            | -    | -     | 158    | 109    | 156    |
| Red hake              | -    | -     | 1      | 7      | 186    |
| Argentine             | -    | 976   | 368    | 5,739  | 97     |
| Cod                   | 2    | 45    | 15     | 19     | 96     |
| Flatfishes            | 2    | 79    | 138    | 7      | 6      |
| Haddock               | 3    | 9     | 1      | 11     | -      |

\*Preliminary

B. SPECIAL RESEARCH STUDIES

1. Biological Studies

Length measurements were carried out on cod, silver hake, herring, mackerel, argentine, butterfish and common American squid.

a) Common American Squid Stock assessment in the subarea combined with Statistical Area 6 was made on the basis of daily catch records by Japanese trawlers throughout four seasons from 1968-69 to 1971-72. The results of this analysis is presented in the Research Document.

b) Butterfish Otolith of the fish caught in the Subarea 5 and Statistical Area 6 was prepared for age determination.

#### Statistical Area 6

##### A. STATUS OF THE FISHERIES

Japanese catch in this area increased from 13,700 tons in 1971 to 16,300 tons in 1972. Among the main species caught by Japanese trawlers, there was substantial increase in squid and decrease in butterfish.

Table 4. Catch in Statistical Area 6, 1968-72

| Year                  | 1968  | 1969  | 1970   | 1971   | 1972*  |
|-----------------------|-------|-------|--------|--------|--------|
| Hours fished          | 4,056 | 8,623 | 16,112 | 13,564 |        |
| Total catch<br>(tons) | 6,536 | 8,133 | 18,933 | 13,688 | 16,280 |
| Squid                 | 1,619 | 3,805 | 8,275  | 6,578  | 10,829 |
| Butterfish            | 3,198 | 2,010 | 6,897  | 4,914  | 2,265  |
| Mackerel              | 311   | 326   | 1,036  | 838    | 895    |
| White hake            | -     | -     | 58     | 105    | 328    |
| Red hake              | -     | -     | 2      | 7      | 206    |
| Silver hake           | 30    | 44    | 255    | 80     | 90     |

\*Preliminary

##### B. SPECIAL RESEARCH STUDIES

See special research studies for Subarea 5.