



منظمة الأغذية  
والزراعة  
للأمم المتحدة

联合国  
粮食及  
农业组织

Food  
and  
Agriculture  
Organization  
of  
the  
United  
Nations

Organisation  
des  
Nations  
Unies  
pour  
l'alimentation  
et  
l'agriculture

Organización  
de las  
Naciones  
Unidas  
para la  
Agricultura  
y la  
Alimentación

## COORDINATING WORKING PARTY ON FISHERY STATISTICS

Twentieth Session

Victoria, Seychelles, 21-24 January 2003

Report by CCAMLR

CWP-20

January 2003

Agenda Items: 6, 7, 10, 13, 17

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### I. REPORT FROM CCAMLR

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*SUMMARY*

This paper outlines developments in fishery statistics and related information which have been undertaken by CCAMLR since CWP-19 (July 2001). Major tasks have included the further development of the Catch Documentation Scheme for toothfish, publication of species identification sheets for scientific observers and development of a vessel registry.

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## AGENCY REPORT (agenda item 6)

### Main purpose and usage of statistics

[no change since CWP-19] – Fisheries statistics are used primarily for assessing and managing fisheries and the marine ecosystem within the CCAMLR Convention Area.

### Catch data structure

[no change since CWP-19] – Types of catch, effort and biological data collected include: date, position, depth, fishing duration, gear characteristics, catch by species (including by-catch and incidental catches), and length frequencies. Data resolution ranges from single events (ie haul-by-haul) to aggregated data (eg by 0.5 x 1.0 degree rectangle and 10-day period).

#### *(i) Reporting policy in relation to nationality of catch*

In 2002, CCAMLR agreed that, whilst acknowledging that joint ventures may occur, joint ventures should not allow non-CCAMLR flagged vessels to fish inside the Convention Area. Any sort of devolution of the responsibilities of Flag States should be avoided and only vessels under the jurisdiction of CCAMLR Flag States should be issued with licences to fish in the Convention Area (Conservation Measure 10-02). The Commission felt that this requirement clarifies the responsibilities attached to CCAMLR Members in respect of any joint ventures to fish in the Convention Area.

## **II. Observer program**

[no change since CWP-19] - A Scheme of International Scientific Observation was adopted in 1992 under Article XXIV of the CCAMLR Convention. This Scheme is designed to gather and validate scientific information essential for assessing the status of populations of Antarctic marine living resources, and the impact of fishing on populations of harvested, related and dependent species. The conditions of the Scheme are equally applicable to fishing vessels and research vessels. Conservation measures require that at least one international scientific observer appointed under the Scheme should be aboard each fishing vessel operating in new or exploratory fisheries, or established fisheries targeting toothfish, crabs, icefish or squid. The placement of scientific observers in krill fisheries and other fisheries is encouraged.

## **III. Vessel monitoring system**

Conservation Measure 10-04 (Automated Satellite-Linked VMS) has been revised. Contracting Parties are now required to notify the Secretariat of the movement of flagged fishing vessels in to, and out of, statistical subareas and divisions within the Convention Area. Notifications are required within two working days of the vessels' movements. In addition, the 'tamper-proof' requirement of the ship-mounted VMS unit has been strengthened.

#### **IV. Fishery-independent data**

[no change since CWP-19] – Datasets include data collected under CCAMLR’ Ecosystem Monitoring Program, fishery survey data, remote sensing data, research data and trade data.

**BY-CATCH STATISTICS** (agenda item 7)

#### **V. Species identification**

CCAMLR has published a set of species identification sheets to assist scientific observers in making accurate identification of as many species as possible that appear in longline and trawl catches. The aim has been to compress as much information into a simple format that will allow observers to identify most species as quickly as possible. Scientific observers have been encouraged to provide further information and feedback on the sheets, including presentation and content, in their observer reports. A revised version of these sheets will be published in early 2003.

In 1999, the book ‘Identification of Seabirds of the Southern Ocean’ was published jointly by CCAMLR and the Museum of New Zealand Te Papa Tongarewa. This identification guide was written and illustrated especially for scientific observers, and takes into account the requirements of CCAMLR’s Scheme of International Scientific Observation. The guide is published in English, French, Russian and Spanish, and is available to observers working on board fishing vessels in Antarctic waters. The book covers the identification of 36 species of birds from the Southern Ocean that have been caught in fishing gear or have been seen feeding from fishing boats. Penguins, cormorants, and some of the most abundant and characteristic Southern Ocean seabirds do not appear in the guide because the book focuses only on scavenging species associated with fisheries.

#### **VI. Collection of data on by-catch**

Data on by-catch are submitted by Flag States and scientific observers. These data are routinely assessed by CCAMLR’s Scientific Committee, and intersessional work is underway to improve the quality of these datasets. This work includes the re-conciliation of catch data (eg between STATLANT data and haul-by-haul data), development of additional measurements recorded by scientific observers and inclusion of data from tag-recapture studies of by-catch species.

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## **VII. Collection of data on incidental catches of seabirds and marine mammals**

In 2002, CCAMLR's Scientific Committee requested that the matter of improving and standardising the reporting of by-catch of non-fish species (e.g. seabirds, turtles) be raised with CWP. Specifically, CCAMLR seeks standard information on incidental catches of seabirds and other species arising from fishing on grounds within the geographic range of species occurring in CCAMLR's Convention Area.

An example of the type of data collected by CCAMLR is provided (Attachment A).

### **CATCH DOCUMENTATION SCHEME (agenda item 10)**

CCAMLR has implemented a number of measures in recent years in order to combat the problem of IUU fishing on toothfish stocks. These measures include:

- Catch Documentation Scheme (CDS);
- Flag State licensing requirement for all vessels in the fisheries;
- Conservation Measures setting catch limits all toothfish fisheries in the Convention's waters;
- mandatory vessel monitoring systems;
- port inspections of vessels carrying toothfish;
- promotion of compliance by both Contracting and non-Contracting Parties; and
- marking of vessels and fishing gear.

The CDS aims to:

- monitor the international trade in toothfish;
- identify the origins of toothfish imported into or exported from the territories of Contracting Parties;
- determine whether toothfish imported into or exported from the territories of Contracting Parties, if caught in the Convention Area, was caught in a manner consistent with CCAMLR conservation measures; and
- gather additional catch data for the scientific evaluation of the stocks.

To meet this objective, all landings, transshipments and importations of toothfish into the territories of Contracting Parties must be accompanied by a completed Catch Document specifying a range of information relating to the volume and location of catch, and the name and Flag State of the vessel.

The CDS is open to all Flag States irrespective of whether they are Members of CCAMLR or not. Non-Contracting Parties to CCAMLR are also encouraged to participate in this Scheme. Participating countries need to ensure that their vessels are provided with Catch Documents for presentation to Contracting Party authorities as required.

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The core element of the Scheme is a database where participating countries can access Catch Documents and related information through a secure Internet connection.

In addition, CCAMLR plans to develop a standard set of summary CDS data which would be published annually as part of CCAMLR's Statistical Bulletin. CCAMLR seeks input from CWP and other international organisations in order to determine what type of data reporting might be required for their work. Examples of standard summary CDS data are as follows:

- Landings (processed weights and estimated live weights) by area, calendar year;
- Landed weights (processed weights) by calendar year, Flag State and area caught;
- Landings (processed weights) by port and calendar year;
- Landings and Exports (processed weights) by calendar year, Flag State, area caught and importing country; and
- Re-exports (processed weights) by calendar year, export country and import country.

#### **FIRMS PARTNERSHIP** (agenda item 13)

In October 2002, CCAMLR considered a proposed partnership with FIGIS-FIRMS. The Commission noted that the information system proposed in this FAO initiative might, when further developed, provide benefits for CCAMLR. However, it was felt unnecessary to undertake any formal partnership at this stage. Through its continuing interaction with CWP and FAO, CCAMLR's Secretariat will keep the Commission and Scientific Committee informed of relevant developments.

#### **STATLANT ISSUES** (agenda item 17)

### **VIII. Change to the annual reporting period**

CCAMLR has now adopted the 'CCAMLR fishing season' as the annual interval for reporting fishery activities. The 'CCAMLR fishing season' begins on 1 December and ends on 30 November of the following year. All fisheries managed by CCAMLR now operate within this general annual interval, and the 'CCAMLR fishing season' has replaced the previously used 'split-year'.

Starting in 2003, CCAMLR's annual Statistical Bulletin will report catch and effort by 'CCAMLR fishing season', and the timely publication of these data will require a change to the reporting period and submission deadline for STATLANT 08 data from CCAMLR's Convention Area. It is proposed that STATLANT data for the 12-month period ending 30 November should be submitted to CCAMLR by 31 January of the following year.

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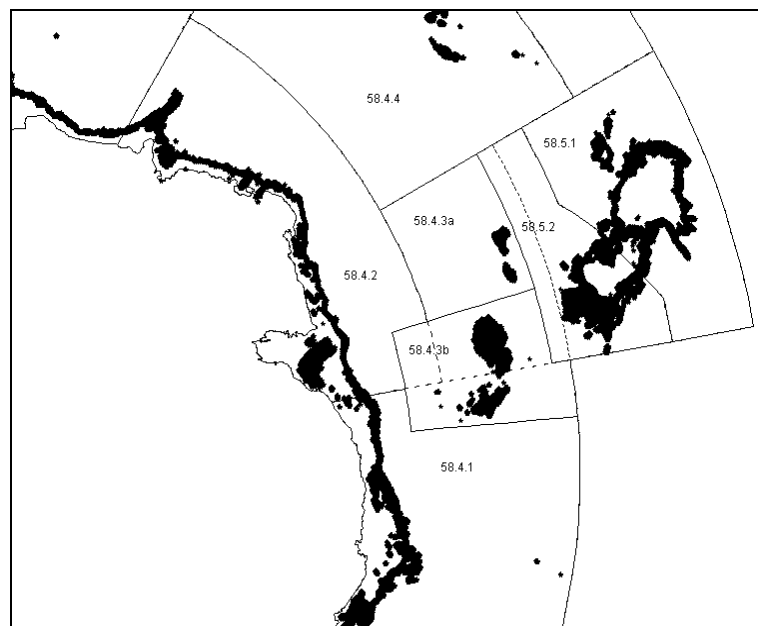
## IX. Changes to statistical boundaries

Since CWP-19, the following changes have been made to boundaries of statistical subareas and divisions within CCAMLR's Convention Area (see Figure):

- The boundary of Division 58.4.3 has been redefined as the waters bounded by a line starting at 56°S, 60°E; thence due east to 56°S, 80°E; thence due north to 55°S, 80°E; thence due east to 55°S, 86°E ; thence due south to 64°S, 86°E latitude; thence due west to 64°S, 73°10'E; thence due north to 62°S, 73°10'E; thence due west to 62°S, 60°E; thence due north to the starting point.
- Changes to Division 58.4.3 have consequential changes to adjacent Divisions 58.4.1, 58.4.2 and 58.5.2.
- Division 58.4.3 has also been sub-divided into:

58.4.3a (Elan Bank) bounded by a line starting at 56°S, 60°E; thence due east to 56°S, 73°10'E; thence due south to 62°S, 73°10'E; thence due west to 62°S 60°E thence due north to the starting point; and

58.4.3b (BANZARE Bank) bounded by a line starting at 56°S, 73°10'E; thence due east to 56°S, 80°E; thence due north to 55°S, 80°E; thence due east to 55°S, 86°E; thence due south to 64°S, 86°E thence due west to 64°S, 73°10'E thence due north to the starting point.



Boundaries of Division 58.4.3 and adjacent areas (solid line), showing the newly created Subdivision 58.4.3a (Elan Bank) and Subdivision 58.4.3b (BANZARE Bank). Previous boundaries for Division 58.4.3 are indicated (dashed line). (Areas in the fishable depth range 500 to 1 500 m are shown in black.)

## ATTACHMENT A

## CCAMLR Data on By-catch and Incidental Catch Collected by Scientific Observers

## Form L5(i): General Information

Vessel name: \_\_\_\_\_ Call sign: \_\_\_\_\_ Date of observation: \_\_\_/\_\_\_/\_\_\_

## Form L5(ii): Hauling Information

Set number: \_\_\_\_\_ Estimated number of hooks lost: \_\_\_\_\_ Number of hooks observed: \_\_\_\_\_

Haul interrupted (entanglement):  yes  no Total interruption time (hrs): \_\_\_\_\_

Bird scaring device used while hauling:  yes  no Offal dumped during haul:  yes  no

	Date	Time	Latitude	Longitude	Bottom Depth
Start hauling					
End hauling					
Start hauling observation					
End hauling observation					
Start hauling observation					
End hauling observation					
Start hauling observation					
End hauling observation					

## Form L5(iii): Environmental Conditions During Hauling

Wind: speed \_\_\_\_\_ direction \_\_\_\_\_ Sea: height (m) \_\_\_\_\_ direction \_\_\_\_\_

Swell: height (m) \_\_\_\_\_ direction \_\_\_\_\_ Barometer: \_\_\_\_\_ (mb)  ↑  ↓  —

Cloud amount: \_\_\_\_\_ Temperature (°C): air \_\_\_\_\_ surface water \_\_\_\_\_

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Daylight	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Moonlight	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
t	night	nautical	day	nautical	night	t:	none	<half	half	>half	full
period:		dawn		dusk							

**Form L5(iv): Marine Mammal Interaction with Longline**

Time	Species Code	Estimated Abundance (500 m radius)	Observed Attempting to Feed on Fish Caught on Line Yes / No
Total number of fish on the line observed to have been damaged or eaten by marine mammals:			

**Form L5(v): Seabird By-catch**

Species Code	Time Taken Aboard	Observed Personally Yes / No	Released Alive/ Dead	Cause of Injury	Sample Retained Yes / No	Type of Sample	Label N°	Band Found Yes / No	Band N°

**Form L5(vi): Catch Composition**

Was the haul Observed for fish/invertebrate by catch  yes  no  
(Yes/No):

Estimate the percentage of the haul observed for by \_\_\_\_\_  
catch (%):

Species Code	Discarded Yes / No	Number	Estimation code	Weight (kg)	Estimation code	Comments

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