

CONSERVATION MEASURE 21-03 (2013)
Notifications of intent to participate in a fishery
for *Euphausia superba*

Species	krill
Area	all
Season	all
Gear	all

1. In order for the Scientific Committee to thoroughly study the notifications to fish for krill for the coming season, all Members of the Commission intending to fish for krill in the Convention Area shall notify the Secretariat of their intention not later than 1 June prior to the annual meeting of the Commission, immediately prior to the season in which they intend to fish, using the pro formas in Annex 21-03/A and Annex 21-03/B.
2. This notification shall include the information prescribed in paragraph 3 of Conservation Measure 10-02 in respect of each vessel proposing to participate in the fishery, with the exception that the notification shall not be required to specify the information referred to in paragraph 3(ii) of Conservation Measure 10-02. Members shall, to the extent practicable, also provide in their notification the additional information detailed in paragraph 4 of Conservation Measure 10-02 in respect to each fishing vessel notified. Members are not hereby exempted from their obligations under Conservation Measure 10-02 to submit any necessary updates to vessel and licence details within the deadline established therein as of issuance of the licence to the vessel concerned.
3. A Member intending to fish pursuant to this conservation measure may only notify in respect to vessels flying its flag or that of another CCAMLR Member at the time of the notification¹.
4. Members shall submit notifications by the due date to facilitate appropriate review by the Commission of notifications to fish for krill in the Convention Area before a vessel commences fishing.
5. Notwithstanding paragraph 4, Members shall be entitled under Conservation Measure 10-02 to authorise participation in a krill fishery by a vessel other than that notified to the Commission in accordance with paragraph 2, if the notified vessel is prevented from participation due to legitimate operational reasons or *force majeure*. In such circumstances the Member concerned shall immediately inform the Secretariat providing:
 - (i) full details of the intended replacement vessel(s) as prescribed in paragraph 2;
 - (ii) a comprehensive account of the reasons justifying the replacement and any relevant supporting evidence or references.

The Secretariat shall immediately circulate this information to all Members.

6. A vessel on either of the IUU Vessel Lists established under Conservation Measures 10-06 and 10-07 shall not be permitted by Members to participate in krill fisheries.

7. The Secretariat shall provide the Commission and its relevant subsidiary bodies with information regarding substantial discrepancies between notifications and actual catches in the krill fishery in the latest season.

¹ Consistent with Conservation Measure 10-02 any vessel notified would need to be flagged to the notifying Member before entering the fishery.

ANNEX 21-03/A

**NOTIFICATION OF INTENT TO PARTICIPATE IN A FISHERY
FOR *EUPHAUSIA SUPERBA***

General information

Member: _____

Fishing season: _____

Name of vessel: _____

Expected level of catch (tonne): _____

Intended fishing subareas and divisions

This conservation measure applies to notifications of intentions to fish for krill in Subareas 48.1, 48.2, 48.3 and 48.4 and Divisions 58.4.1 and 58.4.2. Intentions to fish for krill in other subareas and divisions must be notified under Conservation Measure 21-02.

Subarea/division	Tick the appropriate boxes
48.1	<input type="checkbox"/>
48.2	<input type="checkbox"/>
48.3	<input type="checkbox"/>
48.4	<input type="checkbox"/>
58.4.1	<input type="checkbox"/>
58.4.2	<input type="checkbox"/>

Fishing technique: Tick the appropriate boxes
 Conventional trawl
 Continuous fishing system
 Pumping to clear codend
 Other method: Please specify _____

Product types and methods for direct estimation of green weight of krill caught

Product type	Method for direct estimation of green weight of krill caught, where relevant (refer to Annex 21-03/B) ¹
Whole frozen	
Boiled	
Meal	
Oil	
Other product, please specify	

¹ If the method is not listed in Annex 21-03/B, then please describe in detail _____

Net configuration

Net measurements	Net 1		Net 2		Other net(s)	
Net opening (mouth)						
Maximum vertical opening (m)						
Maximum horizontal opening (m)						
Net circumference at mouth ¹ (m)						
Mouth area (m ²)						
Panel average mesh size ³ (mm)	Outer ²	Inner ²	Outer ²	Inner ²	Outer ²	Inner ²
1st panel						
2nd panel						
3rd panel						
...						
Final panel (Codend)						

¹ Expected in operational conditions.

² Size of outer mesh, and inner mesh where a liner is used.

³ Inside measurement of stretched mesh based on the procedure in Conservation Measure 22-01.

Net diagram(s): _____

For each net used, or any change in net configuration, refer to the relevant net diagram in the CCAMLR fishing gear library if available (www.ccamlr.org/node/74407), or submit a detailed diagram and description to the forthcoming meeting of WG-EMM. Net diagrams must include:

1. Length and width of each trawl panel (in sufficient detail to allow calculation of the angle of each panel with respect to water flow.)
2. Mesh size (inside measurement of stretched mesh based on the procedure in Conservation Measure 22-01), shape (e.g. diamond shape) and material (e.g. polypropylene).

3. *Mesh construction (e.g. knotted, fused).*
4. *Details of streamers used inside the trawl (design, location on panels, indicate 'nil' if streamers are not in use); streamers prevent krill fouling the mesh or escaping.*

Marine mammal exclusion device

Device diagram(s): _____

For each type of device used, or any change in device configuration, refer to the relevant diagram in the CCAMLR fishing gear library if available (www.ccamlr.org/node/74407), or submit a detailed diagram and description to the forthcoming meeting of WG-EMM.

Collection of acoustic data

Provide information on the echosounders and sonars used by the vessel.

Type (e.g. echosounder, sonar)			
Manufacturer			
Model			
Transducer frequencies (kHz)			

Collection of acoustic data (detailed description): _____

*Outline steps which will be taken to collect acoustic data to provide information on the distribution and abundance of *Euphausia superba* and other pelagic species such as myctophiids and salps (SC-CAMLR-XXX, paragraph 2.10).*

GUIDELINES FOR ESTIMATING THE GREEN WEIGHT OF KRILL CAUGHT

Method	Equation (kg)	Parameter			
		Description	Type	Estimation method	Unit
Holding tank volume	$W*L*H*\rho*1\ 000$	W = tank width	Constant	Measure at the start of fishing	m
		L = tank length	Constant	Measure at the start of fishing	m
		ρ = density of the sample	Variable	Volume-to-mass conversion	kg/litre
		H = depth of krill in tank	Haul-specific	Direct observation	m
Flow meter	$V*F_{krill}*\rho$	V = volume of krill and water combined	Haul ¹ -specific	Direct observation	litre
		F_{krill} = fraction of krill in the sample	Haul ¹ -specific	Flow meter volume correction	-
		ρ = density of krill in the sample	Variable	Volume-to-mass conversion	kg/litre
Flow scale	$M*(1-F)$	M = mass of krill and water combined	Haul ² -specific	Direct observation	kg
		F = fraction of water in the sample	Variable	Flow scale mass correction	-
Plate tray	$(M-M_{tray})*N$	M_{tray} = mass of empty tray	Constant	Direct observation prior to fishing	kg
		M = mean mass of krill and tray combined	Variable	Direct observation, prior to freezing with water drained	kg
		N = number of trays	Haul-specific	Direct observation	-
Meal conversion	$M_{meal}*MCF$	M_{meal} = mass of meal produced	Haul-specific	Direct observation	kg
		MCF = meal conversion factor	Variable	Meal to whole krill conversion	-
Codend volume	$W*H*L*\rho*\pi/4*1\ 000$	W = codend width	Constant	Measure at the start of fishing	m
		H = codend height	Constant	Measure at the start of fishing	m
		ρ = density of the sample	Variable	Volume-to-mass conversion	kg/litre
		L = codend length	Haul-specific	Direct observation	m
Other	<i>Please specify</i>				

¹ Individual haul when using a conventional trawl, or integrated over a six-hour period when using the continuous fishing system.

² Individual haul when using a conventional trawl, or a two-hour period when using the continuous fishing system.

Observation steps and frequency

Holding tank volume

- At the start of fishing Measure the width and length of the holding tank (if the tank is not rectangular in shape, then additional measurements may be required; precision ± 0.05 m)
- Every month¹ Estimate the volume-to-mass conversion derived from the drained mass of krill in a known volume (e.g. 10 litres) taken from the holding tank
- Every haul Measure the depth of krill in the tank (if krill are held in the tank between hauls, then measure the difference in depth; precision ± 0.1 m)
Estimate the green weight of krill caught (using equation)

Flow meter

- Prior to fishing Ensure that the flow meter is measuring whole krill (i.e. prior to processing)
- Every month¹ Estimate the volume-to-mass conversion (ρ) derived from the drained mass of krill in a known volume (e.g. 10 litres) taken from the flow meter
- Every haul² Obtain a sample from the flow meter and:
 measure the volume (e.g. 10 litres) of krill and water combined
 estimate the flow meter volume correction derived from the drained volume of krill
Estimate the green weight of krill caught (using equation)

Flow scale

- Prior to fishing Ensure that the flow scale is measuring whole krill (i.e. prior to processing)
- Every haul² Obtain a sample from the flow scale and:
 measure the mass of krill and water combined
 estimate the flow scale mass correction derived from the drained mass of krill
Estimate the green weight of krill caught (using equation)

Plate tray

- Prior to fishing Measure the mass of the tray (if trays vary in design, then measure the mass of each type; precision ± 0.1 kg)
- Every haul Measure the mass of krill and tray combined (precision ± 0.1 kg)
Count the number of trays used (if trays vary in design, then count the number of trays of each type)
Estimate the green weight of krill caught (using equation)

Meal conversion

- Every month¹ Estimate the meal to whole krill conversion by processing 1 000 to 5 000 kg (drained mass) of whole krill
- Every haul Measure the mass of meal produced
Estimate the green weight of krill caught (using equation)

Codend volume

- At the start of fishing Measure the width and height of the codend (precision ± 0.1 m)
- Every month¹ Estimate the volume-to-mass conversion derived from the drained mass of krill in a known volume (e.g. 10 litres) taken from the codend
- Every haul Measure the length of codend containing krill (precision ± 0.1 m)
Estimate the green weight of krill caught (using equation)

¹ Measured at least monthly (more frequently if feasible); a new monthly period will commence when the vessel moves to a new subarea or division.

² Individual haul when using a conventional trawl, or integrated over a six-hour period when using the continuous fishing system.