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Changes to legislation: There are outstanding changes not yet made to Council Regulation (EU) 2017/127. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details)

ANNEX V

CCAMLR CONVENTION AREA

PART C

General information

ANNEX 21-03/A

NOTIFICATION OF INTENT TO PARTICIPATE IN A FISHERY FOR EUPHAUSIA SUPERBA

| Member: | |
|---|--|
| Fishing season: | |
| Name of vessel: | |
| Expected level of catch (tonne): . | |
| Vessel's daily processing capacity Intended fishing subareas and div | |
| | s to notifications of intentions to fish for krill in Subareas 48.1, 58.4.1 and 58.4.2. Intentions to fish for krill in other subareas der Conservation Measure 21-02. |
| Subarea/Division | Tick the appropriate boxes |
| 48.1 | |
| 48.2 | |
| 48.3 | |
| 48.4 | |
| 58.4.1 | |
| 58.4.2 | |
| Fishing technique: | Tick the appropriate boxes |
| | □ Conventional trawl |
| | □ Continuous fishing system |
| | □ Pumping to clear codend |
| | □ Other method: Please specify |
| Product types and methods for dir | rect 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) ^a |
| a If the method is not listed in Annex 21- | 03/B, then please describe in detail |
| | |

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| Whole froze | n | | | | | |
|--|---------------------|--------------------|---------------------|--------------------|--------------------|--------------------|
| Boiled | | | | | | |
| Meal | | | | | | |
| Oil | | | | | | |
| Other produc | et, please spe | ecify | | | | |
| a If the metho | od is not listed in | Annex 21-03/B, t | hen please describe | e in detail | | |
| Net configura | ation | | | | | |
| Net | Net 1 | | Net 2 | | Other net | <u>(s)</u> |
| measureme | nts | | | | | |
| Net opening (mouth) | | | | | | |
| Maximum vertical opening (m) | | | | | | |
| Maximum horizontal opening (m) | | | | | | |
| Net circumference at mouth ^a (m) | e | | | | | |
| Mouth area (m ²) | | | | | | |
| Panel average mesh size ^c | Outer ^b | Inner ^b | Outer ^b | Inner ^b | Outer ^b | Inner ^b |
| (mm) | | | | | | |
| 1st panel 2nd panel | | | | | | |
| | | | | | | _ |
| 3rd panel | | | | | | |
| Final panel (Codend) | | | | | | |
| a Expected in | operational cond | litions. | | | | |
| b Size of oute | r mesh, and inner | r mesh where a lir | ner is used. | | | |

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

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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)

ANNEX 21-03/B

GUIDELINES FOR ESTIMATING THE GREEN WEIGHT OF KRILL CAUGHT

| Method | Equation | Parameter | | | |
|--------|----------|-------------|------|-------------------|------|
| (kg) | | Description | Type | Estimation method | Unit |

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

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

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| Holding tank volume | W * L * H * ρ * 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 = volume- to-mass conversion factor | Variable | Volume- to-mass conversion | kg/litre |
| | | H = depth of krill in tank | Haul-specific | Direct observation | m |
| Flow meter ^a | V * F _{krill} * ρ | V = volume of krill and water combined | Haul ^a -specific | Direct observation | litre |
| | | F _{krill} = fraction of krill in the sample | Haul ^a -specific | Flow meter volume correction | |
| | | ρ = volume- to-mass conversion factor | Variable | Volume- to-mass conversion | kg/litre |
| Flow meter ^b | (V * ρ) – M | V = volume of krill paste | Haul ^a -specific | Direct observation | litre |
| | | M = amount of water added to the process, converted to mass | Haul ^a -specific | Direct observation | kg |
| | | ρ = density of krill paste | Variable | Direct observation | kg/litre |
| Flow scale | M * (1 – F) | M = mass of krill and water combined | Haul ^b -specific | Direct observation | kg |
| | | F = fraction of water in the sample | Variable | Flow scale mass correction | _ |
| Plate tray | (M – M _{tray}) * | $M_{tray} = mass$ of empty tray | Constant | Direct observation | kg |

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

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

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| | | | | prior to fishing | |
|--------------------|-----------------------------------|---|---------------|--|----------|
| | | 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 * ρ * π/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 = volume- to-mass conversion factor | Variable | Volume- to-mass conversion | kg/litre |
| | | L = codend length | Haul-specific | Direct observation | m |
| Other | Please specify | | | | |

a Individual haul when using a conventional trawl, or integrated over a six-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 \pm 0,05 m) |
| Every month ^a | 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 |

a A new period will commence when the vessel moves to a new subarea or division.

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

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

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| 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 \pm 0,1 m) |
|---------------------------------------|---|
| | Estimate the green weight of krill caught (using equation) |
| Flow meter ^a | |
| Prior to fishing | Ensure that the flow meter is measuring whole krill (i.e. prior to processing) |
| More than once per month ^a | Estimate the volume-to-mass conversion (p) derived from the drained mass of krill in a known volume (e.g. 10 litres) taken from the flow meter |
| Every haul ^b | 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 meter ^b | |
| Prior to fishing | Ensure that both flow meters (one for the krill product and one for the water added) are calibrated (i.e. show the same, correct reading) |
| Every week ^a | Estimate the density (ρ) of the krill product (ground krill paste) by measuring the mass of a known volume of krill product (e.g. 10 litres) taken from the corresponding flow meter |
| Every haul ^b | Read both flow meters, and calculate the total volumes of the krill product (ground krill paste) and that of the water added; density of the water is assumed to be 1 kg/litre |
| | Estimate the green weight of krill caught (using equation) |
| Flow scale | 1 |
| Prior to fishing | Ensure that the flow scale is measuring whole krill (i.e. prior to processing) |
| Every haul ^b | Obtain a sample from the flow scale and: |

a A new period will commence when the vessel moves to a new subarea or division.

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

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| | 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 | <u> </u> |
| 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 month ^a | 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 month ^a | 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 \pm 0,1 m) |
| | Estimate the green weight of krill caught (using equation) |
| a A new period will commence when the v | essel moves to a new subarea or division. |

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

system.

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