**7th Meeting of the Compliance Committee (CC7)**

*Ravenala Attitude Hotel, Balaclava, Mauritius*

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**CC-07-11**

Proposal for a new Conservation and Management Measure for the establishment of a SIOFA Vessel Monitoring System – REV1

Delegation of the European Union

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| **Abstract** | |
| Article 6(1)(h) of the SIOFA Agreement requires the Meeting of the Parties to develop rules and procedures for the monitoring, control and surveillance of fishing activities in order to ensure compliance with conservation and management measures adopted by the Meeting of the Parties including, where appropriate, a system of verification incorporating vessel monitoring and observation. Some basic VMS provisions are contained in paragraphs 4 to 13 of CMM 2018/10. MoP5 agreed to develop a SIOFA Vessel Monitoring System.  The purpose of this proposal, which reprises the EU’s proposal to MoP8 (MoP-08-16\_rev1), is to establish a CMM setting out the framework of the SIOFA VMS covering all key aspects including the scope of application, definitions, nature and specifications of the VMS, prevention of tampering and actions in case of suspected breach, use and release of VMS data requiring / not requiring the consent of CCPs, closed and interim protected areas, as well as data security and confidentiality. The proposal takes it into account the endorsement by MoP8 of a hybrid approach (MoP8 report, paragraph 170) and comments received from other CCPs on earlier versions.  Noting the agreement of MoP8 to hold an intersessional working process among interested CCPs for further discussions of the technical details of the proposed VMS (MoP8 report, paragraph 172) and the recruitment of a compliance/VMS manager in the SIOFA Secretariat, the EU proposes that an intersessional working group be set up to develop detailed Standards, Specifications and Procedures (SSPs) for data formats and transmission, data confidentiality and security requirements, etc.  The EU intends to provide funding to SIOFA to support the work of the proposed working group, the acquisition and entry into operation of the SIOFA VMS and related costs (e.g., staff training). | |
| **Recommendations** | |
| 1. For CC7 to recommend the adoption of the proposed CMM. 2. For CC7 to recommend the establishment of an intersessional working group to define SSPs for the SIOFA VMS. | |

***EU proposal for a Conservation and Management Measure  
for the establishment of a SIOFA Vessel Monitoring System***

**The Meeting of the Parties to the Southern Indian Ocean Fisheries Agreement:**

*RECALLING* Article 6(1)(h) of the Southern Indian Ocean Fisheries Agreement (SIOFA) which requires the Meeting of the Parties to develop rules and procedures for the monitoring, control and surveillance of fishing activities in order to ensure compliance with conservation and management measures adopted by the Meeting of the Parties including, where appropriate, a system of verification incorporating vessel monitoring and observation of vessels operating in the Agreement Area;

*MINDFUL* of Article 18(3) of the Agreement for the Implementation of the Provisions of the United Nations Convention on the Law of the Sea of 10 December 1982 relating to the Conservation and Management of Straddling Fish Stocks and Highly Migratory Fish Stocks (UNFSA) which outlines the duties of the flag State, including to take measures to ensure recording and timely reporting of vessel position, catch of target and non-target species, fishing effort and other relevant fisheries data, and to ensure the monitoring, control and surveillance of vessels, their fishing operations and related activities by, inter alia, the development and implementation of vessel monitoring systems;

*FURTHER MINDFUL* of the importance of international cooperation in the fight against illegal, unreported and unregulated (IUU) fishing, in particular through the exchange of information and effective monitoring, control and surveillance;

*RECALLING* Article 13 of the SIOFA Conservation and management measure for the Monitoring of Fisheries in the Agreement Area (CMM 2019/10) to develop specifications and propose rules and procedures for the establishment of a SIOFA Vessel Monitoring System;

*MINDFUL* of the key principles upon which the vessel monitoring system should be based, including the confidentiality and security of information handled by the system, and its efficiency, cost-effectiveness and flexibility;

***ADOPTS* the following Conservation and Management Measure (CMM) in accordance with Articles 4 and 6 of the Agreement:**

**Definitions**

1. The following definitions shall apply to this CMM:
2. “Automatic location communicator” (ALC) means a satellite-based on-board device that is capable of continuously, automatically and independently of any intervention of the vessel, transmitting VMS position reports;
3. “Fisheries monitoring centre” (FMC) means the authority or agency of a Flag CCP responsible for managing the VMS for its flagged fishing vessels;
4. “Vessel Monitoring System” (VMS) means a satellite-based monitoring system which, at regular intervals, provides VMS position reports;
5. “SIOFA VMS” means the SIOFA Vessel Monitoring System established under this CMM;
6. “Manual reporting” means the transmission via alternative means of the position reporting of a fishing vessel when an ALC fails to transmit VMS position reports;
7. VMS position reports include:
8. the fishing vessel’s IMO number and SIOFA identifier;
9. Flag of the fishing vessel;
10. the current geographical position (latitude and longitude) of the vessel;
11. the date and time (UTC) of the fixing of the position of the vessel;
12. the vessel’s speed; and
13. the vessel’s course.

**Objective**

1. The main objective of the SIOFA VMS is to monitor in an automatic, continuous and cost-effective manner the movements and activity of fishing vessels operating in the Agreement Area to ensure compliance with SIOFA CMMs.

**Application**

1. The SIOFA VMS shall apply to all fishing vessels flying the flag of a Contracting Party, cooperating non-Contracting Party or participating fishing entity (CCP) that are entered onto the SIOFA Record of Authorised Vessels and operating in the Agreement Area, as defined in Article 3 of the Agreement, or in designated ports as provided for in paragraph 2 of CMM 2020/08 (Port Inspection).

**Nature and specifications of the SIOFA VMS**

1. The SIOFA VMS shall be administered by the SIOFA Secretariat under the guidance of the Meeting of the Parties.
2. Each CCP shall ensure that all fishing vessels flying their flag entered onto the SIOFA Record of Authorised Vessels and operating in the Agreement Area are fitted with an operational ALC that complies with the minimum standards for ALCs described in Annex 1.
3. Each CCP shall ensure that all fishing vessels flying their flag referred to in paragraph 3 report VMS position reports automatically while they are operating in the Agreement Area either:
   1. to the Secretariat via their FMC; or
   2. simultaneously to both the Secretariat and their FMC.
4. CCPs that choose to report under option (a) of paragraph 6 shall automatically forward VMS position reports to the Secretariat without delay but not later than one hour after receipt.

7bis. CCPS shall ensure that VMS position reports are reported automatically[[3]](#footnote-3) by each of their vessels while operating in the Agreement Area:

1. at least once every hour as provided for in paragraph 24 of CMM 2021/15 (Management of Demersal Stocks), and;
2. at least once every two hours in other circumstances.
3. The Meeting of the Parties shall establish VMS position report format and transmission standards, specifications and procedures prior to the entry into operation of the SIOFA VMS.
4. Each CCP shall ensure that their FMC can automatically receive and, for those CCPs whose vessels transmit VMS position reports in accordance with paragraph 6 a), transmit VMS position reports from ALCs. Each CCP shall provide backup and recovery procedures in case of system failures.
5. Each CCP shall provide the Secretariat with the name, address, email, and telephone numbers of the relevant authorities of its FMC and shall designate a VMS Point of Contact for the purposes of any communication regarding the SIOFA VMS (“VMS Point of Contact”). Each CCP shall notify the Secretariat of any changes to these details within 30 days after such changes take effect and the Secretariat shall promptly notify this information to the other CCPs and make it available on the non-public area of the SIOFA website.
6. Each CCP shall ensure that in vessels flying their flag:
7. the ALC is not tampered with in any way;
8. VMS position reports are not altered in any way;
9. the antenna or antennae are connected to the ALC and not obstructed in any way;
10. the power supply of the ALC is not interrupted in any way;
11. the ALC is not removed from the vessel except for the purpose set out in paragraph 15; and
12. The satellite navigation decoder and transmitter shall be fully integrated and housed in the same tamper-proof physical enclosure.
13. ALCs are not required to transmit VMS position reports when the fishing vessel is in port for a period of more than one week, subject to prior notification to the Flag CCP and, if the Flag CCP requires, to the Secretariat. The Flag CCP shall ensure that
14. if the ALC stops transmitting VMS position reports while in port, the vessel remains in that port until the ALC on board starts transmitting VMS position reports again; and
15. the ALC is transmitting VMS position reports before the fishing vessel leaves port.

**Procedure for manual reporting**

1. In the event of non-reception of four consecutive, expected programmed VMS positions, the Secretariat shall notify the CCP whose flag the vessel is flying. The Flag CCP shall immediately notify the vessel Master and direct the Master to provide it with manual reports of the vessel’s position every four hours. The Flag CCP shall transmit this manual reporting to the Secretariat or require that the fishing vessel transmit this manual reporting to the Secretariat.
2. The Flag CCP shall ensure that the manual reports include at least the information referred to in paragraph 1(f)(i), (iii) and (iv). If automatic reporting to the SIOFA VMS has not been re-established within 60 days of the commencement of manual reporting, the Flag CCP shall order the vessel to cease fishing, stow all fishing gear and return immediately to port in order to undertake repairs or replacement.
3. Following a technical failure or non-functioning of the ALC, the Flag CCP shall ensure that the fishing vessel only leaves port once the ALC fitted on board is fully functioning to the satisfaction of the competent authorities of the Flag CCP. By derogation, the Flag CCP may authorise the fishing vessel to leave port with a non-functioning satellite-tracking device for its repair or replacement.
4. The Flag CCP shall ensure that the vessel recommences fishing in the Agreement Area only when the ALC has been confirmed as operational by its FMC. Four consecutive, programmed VMS positions must have been received by the FMC to confirm that the ALC is fully operational.

16bis. Notwithstanding paragraphs 13 to 16, where the Flag CCP confirms that the ALC on board the vessel is functioning normally, but the Secretariat is not receiving the vessel’s VMS position reports, the Secretariat shall immediately take steps to resolve any technical or other issue that is preventing it from receiving the VMS position reports. If the VMS position reports cannot be retrieved by the Secretariat after the issue has been resolved, the Flag CCP shall send these VMS position reports to the Secretariat via manual reporting and provide the Secretariat with any assistance as may be necessary.

**Measures to prevent tampering with ALCs**

1. Each CCP shall ensure that the ALCs fitted on board vessels flying their flag are tamper resistant, that is, are of a type of and configuration that prevent the input or output of false positions, and that they are not capable of being over-ridden, whether manually, electronically or otherwise, in accordance with the minimum standards for ALCs set out in Annex 1.
2. Each CCP shall prohibit vessels flying their flag to destroy, damage, switch off, render inoperative or otherwise interfere with the ALC, unless their competent authorities have authorised its repair or replacement.
3. In the event that a CCP or the Secretariat obtains information that indicates an ALC on board a fishing vessel operating in the Agreement Area does not meet the requirements of Annex 1 or there is evidence that the ALC has been tampered with, it shall immediately notify the Secretariat, and the fishing vessel’s Flag CCP which shall:
4. investigate the suspected breach of this measure as soon as possible; and
5. depending on the outcome of the investigation, if necessary suspend the vessel from fishing until an ALC that meets the specifications outlined in Annex 1 is operational on board the vessel; and
   1. communicate actions taken to the Meeting of the Parties, including the outcome of the investigation within 30 days of its completion.
6. Nothing in this measure shall prevent a CCP from applying additional or more stringent measures to prevent tampering of ALCs on board vessels flying its flag.

**Use and Release of VMS position reports**

1. All requests for access to VMS position reports must be made to the Secretariat by a VMS Point of Contact by electronic means using the appropriate template[[4]](#footnote-4) at least 5 working days in advance of the intended use, except for the purposes of paragraph 22 c), and in accordance with the procedures set out in paragraphs 23 to 28.
2. Upon request of a CCP, the Secretariat shall only provide VMS position reports without the permission of the Flag CCP for the exclusive purposes of:
3. planning for active surveillance operations and/or boarding and inspection at sea within 72 hours of the expected start of the operations in the Agreement Area;
4. active surveillance operations and/or boarding and inspection at sea in the Agreement Area;
5. supporting search and rescue activities undertaken by a competent Maritime Rescue Coordination Centre (MRCC) subject to the terms of an Arrangement between the Secretariat and the competent MRCC. Such Arrangement shall be reported to the Meeting of the Parties.
6. For the purpose of implementing paragraph 22 a) and b):
7. Boarding and inspection at sea shall be undertaken in accordance with CMM 2021/14 (High Seas Boarding and Inspection Procedures), including its paragraph 7;
8. each CCP shall only make available VMS position reports relevant to the planned or active surveillance operations and/or boarding and inspection at sea in the Agreement Area to the requesting CCP’s inspectors and any other government officials for whom it is deemed necessary to access the reports;
9. CCPs shall ensure that such inspectors and government officials keep the VMS position reports confidential and only use the reports for the purposes described in paragraph 22 a) and b);
10. CCPs shall be allowed to retain VMS position reports provided by the Secretariat for the purposes described in paragraph 22 a) and b) until 72 hours after the time that the active operation has concluded. Except in the circumstances outlined in paragraph 23 e), CCPs shall submit a written confirmation to the Secretariat of the deletion of the VMS position reports immediately after the 72 hours’ period;
11. CCPs’ inspectors and government officials authorities shall be allowed to retain VMS position reports provided by the Secretariat for the purposes described in paragraph 22 a) and b) for longer than the periods specified in paragraph 23 d) only if it is part of an investigation, judicial or administrative proceeding of an alleged violation of the provisions of the Agreement, any CMMs or decisions adopted by the Meeting of the Parties. CCPs shall inform the Secretariat of the purposes and expected timing of the additional period of retention before the expiration of the initial period and the Secretariat shall promptly notify the concerned Flag CCP of the additional period. CCPs shall submit a written confirmation to the Secretariat of the deletion of the VMS position reports as soon as the purposes have been achieved or immediately after the additional period of retention has expired, whichever is earlier.
12. For the purpose of paragraph 22 a), CCPs requesting VMS position reports shall provide the Secretariat the geographic area of the planned surveillance and/or inspection activity. In this case, the Secretariat shall provide the most recent available VMS position reports for the notified geographic area at a specified point in time no more than 48 hours prior to the commencement of each surveillance and/or boarding and inspection activity. In the event that the planned surveillance and/or boarding and inspection activity does not proceed, the CCP shall notify the Secretariat, destroy the VMS position reports, and confirm their destruction to the Secretariat in writing, without delay. Regardless of whether the planned surveillance and/or boarding and inspection activity were conducted or not, the Secretariat shall notify the Flag CCP that the VMS position reports were provided to the CCP no later than 7 days after the VMS data provision, and, if applicable, that they have received confirmation that the reports have been destroyed.
13. For the purpose of paragraph 22 b), the Secretariat shall provide VMS data from the previous 10 days, for vessels detected during the active surveillance and/or boarding and inspection activity by a CCP, and VMS position reports for all vessels within 1000 n miles of the surveillance and/or boarding and inspection activity location. The Secretariat shall provide regular updates of VMS position reports to the CCP for theurationn of the active surveillance and/or inspection activity. CCPs conducting the active surveillance and/or boarding and inspection activity shall provide the Secretariat and the VMS Point of Contact of the Flag CCP with a report including the name of the vessel or aircraft on active surveillance and/or inspection activity. This information shall be made available without undue delay after the surveillance and/or boarding and inspection activities are complete.
14. For the purpose of paragraph 22 c), upon the request of a CCP, the Secretariat shall provide VMS position reports without the permission of the Flag CCP for the purposes of supporting search and rescue activities undertaken by a competent MRCC subject to the arrangement between the Secretariat and the competent MRCC, including in relation to the provision of VMS position reports to the requesting CCP, and the protection and destruction of those reports.
15. Other than the purposes set out in paragraph 22, the Secretariat shall only provide VMS position reports to a requesting CCP or to the SIOFA Scientific Committee and its subsidiary bodies where the VMS position reports relates to vessels flagged to CCPs that have provided prior written consent through their VMS Point of Contact for the reports to be shared.
16. CCPs may request VMS position reports for their own flagged vessels from the Secretariat.

**Closed areas and interim protected areas**

1. If VMS position reports received by the Secretariat indicates the presence of a fishing vessel in closed areas, or of a fishing vessel excluding those using line and trap methods in an interim protected area, as defined in paragraph 44 and Annex 3 of CMM 2020/01 (Interim Management of Bottom Fishing), the Secretariat shall notify the Flag CCP. The Flag CCP shall investigate the matter and provide an explanation within 5 working days to the Secretariat. The explanation shall be provided by the Secretariat to the Compliance Committee for consideration at its next annual meeting.

**Data security and confidentiality**

1. All CCPs, the Secretariat, the SIOFA Scientific Committee and its subsidiary bodies, and any SIOFA VMS provider shall ensure the secure and confidential treatment of VMS data in their respective electronic data processing facilities, in particular where the processing involves transmission over a network.
2. The Meeting of the Parties shall adopt detailed data security and confidentiality provisions prior to the entry into operation of the SIOFA VMS and shall review the applicability and appropriateness of CMM 2016/03 (Data Confidentiality) to VMS position report security, confidentiality, management and use.

**Entry into operation**

1. The SIOFA VMS shall enter into operation at a date to be determined by the Meeting of the Parties.
2. Upon entry into operation of the SIOFA VMS, paragraphs 4 to 13 of CMM 2019/10 (Monitoring) shall be superseded and replaced by this CMM.

**Review**

1. Following the entry into operation of the SIOFA VMS, the Secretariat shall report annually to the Meeting of the Parties on the implementation of, and compliance with, this CMM.
2. After two years of implementation, the Meeting of the Parties shall conduct a review of this CMM and consider improving it as appropriate.

***Annex 1  
Minimum standards for Automatic Location Communicators (ALCs) used in the SIOFA VMS***

1. The Automatic Location Communicator (ALC) shall continuously, automatically and independently of any intervention by the fishing vessel, communicate VMS position reports referred to in paragraph 1(f) of this conservation measure.
2. The position reports referred to in paragraph 1(f) shall be obtained from a satellite-based positioning system.
3. ALCs fitted to fishing vessels must be capable of transmitting the position reports referred to in paragraph 1(f) recorded at least every fifteen minutes.
4. ALCs fitted to fishing vessels must be tamper-proof so as to preserve the security and integrity of the position reports referred to in paragraph 1(f).
5. Storage of information within the ALC must be safe, secure and integrated within a single unit under normal operating conditions.
6. It must not be reasonably possible for unauthorised persons to alter any of the VMS position reports stored in the ALC, including the frequency of position reporting to the FMC.
7. Any features built into the ALC or terminal software to assist with servicing shall not allow unauthorised access to any areas of the ALC that could potentially compromise the operation of the VMS.
8. ALCs shall be installed on fishing vessels in accordance with the manufacturer’s specifications and applicable standards.
9. Under normal satellite navigation operating conditions, positions derived from the data forwarded must be accurate to within 100 metres (2 × Distance Root Mean Squared; 2DRMS) i.e., 99 per cent of the positions must be within this range.
10. The satellite navigation decoder and transmitter shall be fully integrated and housed in the same tamper-proof physical enclosure.

1. Restricted documents may contain confidential information. Please do not distribute restricted documents in any form without the explicit permission of the SIOFA Secretariat and the data owner(s)/provider(s). [↑](#footnote-ref-1)
2. Documents available only to members invited to closed sessions. [↑](#footnote-ref-2)
3. In the event that the connection between the ALC and the satellite is temporarily unavailable, the data referred to in paragraph 1(f) of this Measure shall still be collected but shall instead be transmitted as soon as the satellite connection becomes available again. [↑](#footnote-ref-3)
4. The template shall be developed by the Secretariat and submitted to the Compliance Committee and the Meeting of the Parties for consideration. [↑](#footnote-ref-4)