

AEWA EUROPEAN GOOSE MANAGEMENT PLATFORM



**7th MEETING OF THE
AEWA EUROPEAN GOOSE MANAGEMENT
INTERNATIONAL WORKING GROUP**



21-23 June 2022, Helsinki, Finland

**STATUS REPORT OF
THE ADAPTIVE FLYWAY MANAGEMENT PROGRAMME (AFMP) FOR THE
EAST GREENLAND/SCOTLAND & IRELAND POPULATION OF BARNACLE
GOOSE**

Prepared by EGMP Secretariat and Data Centre

Summary:

This document provides an overview of the East Greenland/Scotland & Ireland AFMP elements and related deliverables, status of the work and documents for the current 6-year cycle from 2020-2026. It includes an overview of the activities that are conducted on an annual and triannual basis, as well as the progress on activities that need to be completed by the end of the 6-year cycle.

The purpose of this document is to keep an overview of the AFMP implementation status and ensure that progress as well as any issues are tracked and identified. This overview shall be a dynamic document that is updated periodically and submitted to each EGM IWG meeting within the 6-year cycle.

Action requested from the EGM IWG:

The EGM IWG is requested to take note of the AFMP status report and provide further guidance to the Secretariat and Data Centre.

Moreover, the EGM IWG is requested to acknowledge the proposed timeline for the following deadlines in 2022-2023, in addition to the routine tasks:

1. For the population model an assessor must be appointed. In addition, an agreement on the interval of the production of the model estimates has to be reached by EGM IWG8 in 2023;
2. Compilation of the impact models report and evaluation of use before EGM IWG8 in 2023;
3. EGMP National Reports 2022/2023, to be submitted for EGM IWG8 in 2023;
4. Agreement reached on how to “coordinate” offtake when needed by EGM IWG8 in 2023.

Introduction

The Adaptive Flyway Management Programme for the East Greenland/Scotland & Ireland population of Barnacle Goose (GBG AFMP) was first adopted for implementation by the European Goose Management International Working Group (EGM IWG) at the EGM IWG5 in June 2020 and submitted for final adoption, including the pending sections, at EGM IWG6 in June 2021.

The 7th Meeting of the AEWA European Goose Management International Working Group is being hosted by the Finnish Ministry of the Environment and the Finnish Ministry of Agriculture and Forestry.

Implementation of the activities outlined in the AFMP has started in 2020. Several activities, including the annual workplan, have been discussed and implemented by the Barnacle Goose Task Force. These activities are reported separately in document AEWA/EGMIWG/7.13. The population status and assessment report of the East Greenland/Scotland & Ireland population of Barnacle Goose is provided in document AEWA/EGMIWG/7.10.

As described in the AFMP, the management evaluation and adaptation of the East Greenland/Scotland & Ireland population of Barnacle Goose follows four iterative phases running in parallel (Figure 1).

1. A 10/12 year cycle of the ISSMP;
2. Two 6-year cycles of the AFMP, and within the AFMP:
 3. Two 3-year cycles of monitoring of the total population size and assessing if the actual size of the population is below the 200% threshold and approaching the FRP;
 4. 1-year cycles of monitoring in Scotland, Iceland and Greenland, as well as update of work plans

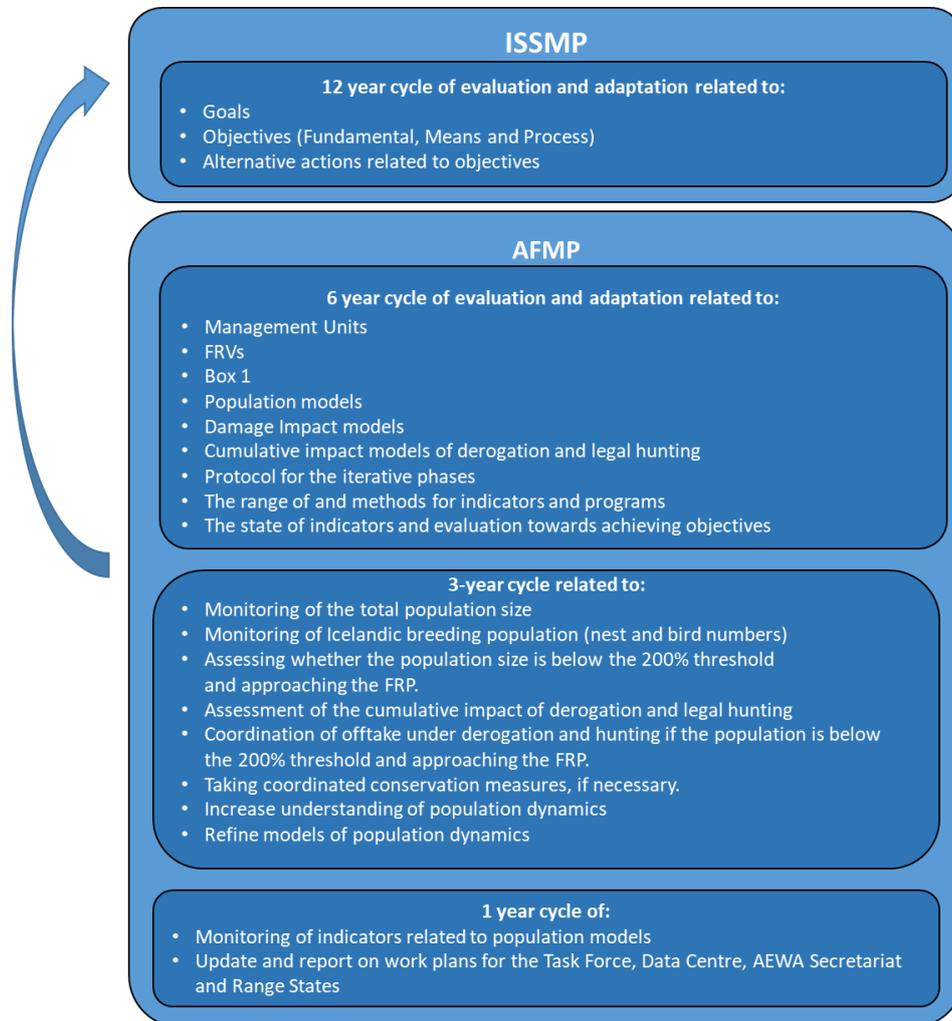


Figure 1. Flow chart of the management evaluation and adaptation of the East Greenland/Scotland & Ireland population of the Barnacle Goose, taken from the GBG AFMP adopted on 23 June 2021, at EGM IWG6.

In Table 1 below, a full overview is given on the AFMP elements and related deliverables, status of the work and documents for the current cycle 2020-2026. In the next cycle of the AFMP, elements related to the 6-year cycle (with the exception of collection and evaluation of indicators and the annual workplans) are only evaluated and adapted, if the Range States see a compelling reason for doing so and/or new scientific knowledge suggests a re-evaluation, unless otherwise is stated under the individual element in the table. If an evaluation shall take place, fiscal and staff resources must be in place, unless otherwise is stated under the individual element in the table.

In Table 2 a full overview of available monitoring data in the East Greenland/Scotland and Ireland Barnacle Goose population is provided.

Table 1. Overview of AFMP elements and related deliverables, status of the work and documents for the current cycle 2020-2026. In the next cycle of the AFMP elements related to the 6-year cycle (with the exception of collection and evaluation of indicators point 4a as well as Annex 1: Annual workplans) are only evaluated and adapted, if the Range States see a compelling reason for doing so and/or new scientific knowledge suggests a re-evaluation, unless otherwise is stated under the individual element in the table. If an evaluation shall take place, fiscal and staff resources must be in place, unless otherwise is stated under the individual element in the table.

Cells highlighted in blue require additional funding and resources.

Process/Element	Deliverable	Status	Document	Funding
6-year cycle of the AFMP				
1. Definition of MUs	Agreement of one MU as of EGM IWG4 in Perth 2019	Finalized	AFMP	n/a
2. Definitions of Favourable Reference Values (FRVs)	Agreement of FRVs as of EGM IWG4 in Perth 2019	Finalized	AFMP	n/a
3. Cumulative impact of derogation and legal hunting	Population model	Finalized	AFMP	n/a
4a. Monitoring indicators and programmes (1. collection of data and 2. evaluation)	1. Collection of data for indicators: Every 3 year by 1 April for indicator: <ul style="list-style-type: none"> • I.1¹ By 31. Dec. 2025 <ul style="list-style-type: none"> • I.2², II.1³, III.1⁴, III.2⁵, III.3⁶, IV.1⁷, V.1⁸, VI.1⁹: 	For indicator IV.1 “Habitat negatively affected” Range States will need to collect information from the organisations responsible for managing conservation areas on the damage caused by Barnacle Goose two times during the lifetime of this AFMP.	EGMP Database + EGMP Indicator report	Fiscal and personnel resources are in place.

¹ Population size compared to the Favourable Reference Population (FRP)

² Range extent compared to Favourable Reference Range (FRR)

³ Relative change in damage payments

⁴ Risk of zoonotic influenza transmission to the general public

⁵ Number of bird strikes with aircrafts caused by Barnacle Goose

⁶ Number of Barnacle Geese passing over commercial airports

⁷ Area of natural habitat or habitat of threatened species negatively affected by Barnacle Goose

⁸ Number of people enjoying watching geese

⁹ Relative change in cost of goose management

	2. Evaluation of the state of these and towards achieving objectives is done every 6-year, thus by 2026.	Evaluation of the state of these and towards achieving objectives are done by the EGMP Data Centre in the period up to the EGM IWG8 meeting in 2026.		
4b. Monitoring indicators and programmes	Development and evaluation of the range and methods for indicators and programmes	Finalized	AFMP	n/a
5. Protocols for the iterative phases	<p>Protocols for:</p> <ol style="list-style-type: none"> 1. Indicators related to objectives 2. Indicators related to population model 3. Offtake assessment 4. Damage impact assessment 	<ol style="list-style-type: none"> 1. Protocol for collection indicators related to objectives is available under factsheet in the AFMP, however the assessment of the indicators need to be agreed. 2. Protocol for collection and use of indicators related to population models is available at the EGMP database. 3. Protocol for offtake assessment is awaiting agreements on assessment output, eg. which scenarios shall be investigated and by who. 4. Protocol for the damage impact assessment are awaiting finalization of the impact models and agreements on use. 	AFMP EGMP Database	Fiscal and personnel resources are in place.

Annex 1: Annual workplans	Annual workplans	Workplans reviewed and updated by the Task Forces annually and reported to the EGM IWG. On a biannual basis, reporting on the workplans will be conducted via the EGMP National Reports.	TF report and recommendations EGMP National Reports (submitted for EGM IWG8 in June 2023)	Fiscal and personnel resources are in place.
Annex 2. Box 1 of the ISSMP for the Barnacle Goose	Box 1 report	Finalized	AFMP	n/a
Annex 3. Population models	See point 3	See point 3	See point 3	See point 3
Annex 4. Impact models	Development of impact models. Compilation of the report and evaluation of use before EGM IWG8 2023.	Development of an impact model by Norway and UK has been initiated, however a compilation and evaluation of its use in goose management must be done.	AFMP + EGMP Impact report	Fiscal and personnel resources must be found to compile and evaluate the use of the impact models in goose management.
Annex 5. Indicator factsheet	See point 4	See point 4	See point 4	See point 4
Annex 6. Protocol for the iterative phase	See point 5	See point 5	See point 5	See point 5
3-year cycle within the AFMP				
Process	Deliverable	Status	Document	Funding
The state of population size and Icelandic breeding population	Triannual updates of raw data on the EGMP Database . Update on model estimates at Gitlab EGMP . A compilation is presented in the EGMP Population Status and Assessment Report	Triannual update of raw data. Periodic updates of model estimates and compilation in the EGMP Population Status and Assessment Report need to be decided.	Raw data: EGMP Database Model estimates: EGMP Gitlab EGMP Population Status and Assessment Report	Fiscal and personnel resources are in place to collect and compile monitoring information. Modeller/Assessor must be appointed to provide annual model estimates in years between assessment

Assessment of 200% threshold of the FRP	Triannual update of the EGMP Population Status and Assessment Report	Next in 2023	EGMP Population Status and Assessment Report	Assessor must be appointed
Assessment of the cumulative impact of offtake	Triannual update of the EGMP Population Status and Assessment Report	Next in 2023	EGMP Population Status and Assessment Report	Assessor must be appointed
Coordination of offtake if the population is below 200%	To be decided by the EGM IWG	Latest population size estimate is below the 200% population threshold of the FRP.	EGMP Population Status and Assessment Report 2021	Depends on what is decided by the EGM IWG
Taking coordinated conservation measures, if necessary.	To be decided by the EGM IWG	Coordination of offtake is recommended	EGMP Population Status and Assessment Report 2021	Funded by National initiatives
1-year cycle within the AFMP				
Process	Deliverable	Status	Document	Funding
Monitoring of indicators related to population models	Annual update of raw data on the EGMP Database . Update of model estimates at Gitlab EGMP . A compilation is presented in the EGMP Population Status and Assessment Report	Annual update of raw data. Periodic updates of model estimates and compilation in the EGMP Population Status and Assessment Report need to be decided.	Raw data: EGMP Database Model estimates: EGMP Gitlab EGMP Population Status and Assessment Report	Fiscal and personnel resources are in place to collect and compile monitoring information.
Update and report on work plans for the Task Force, Data Centre, AEWA Secretariat and Range States	<ul style="list-style-type: none"> Annex 1 in AFMP for Task Force workplan AEWA Sec and DC Report 	Review annually by Task Force, Data Centre, AEWA Secretariat and Range States	<ul style="list-style-type: none"> Annex 1 in AFMP AEWA Sec and DC Report 	Fiscal and personnel resources are in place.

Table 2. Overview of available monitoring data in the East Greenland/Scotland and Ireland Barnacle Goose population. X data collected (nearly) annually and reported to EGMP, x data collected (nearly) annually, (x) data collected in part of the country and/or not annually, - no data collected or reported to the EGMP, * 0 or not relevant range state in this respect.				
	UK	Ireland	Iceland	Greenland
Flyway total every 3 year)	X	X	*	*
Islay March count - annual	X	*	*	*
Other totals in Scotland - annual	X	-	-	
Breeding bird count on Iceland	*	*	X	*
Offtake	X	X	X	- / (x)
Productivity	X	-	-	
Wings	X	*	X	*
Survival	-	-	-	-