

Holistic Approach
Towards Safe and Sustainable
Aquaculture Supply Chain

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Putting responsible farming in the hands of producers.





Through traceability and transparency, we develop the necessary trust for consumers.



THE GLOBALG.A.P. AQUACULTURE STANDARD













POST-HARVEST

GLOBALG.A.P. Compound Feed Manufacturing Standard

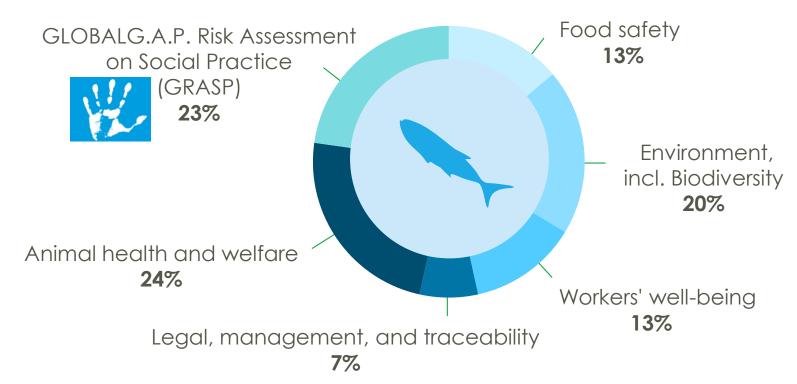
GLOBALG.A.P. Aquaculture Standard

SUPPORTING THE AQUACULTURE SECTOR SINCE 2004



IFA V6 FOR AQUACULTURE STANDARD CONTENT

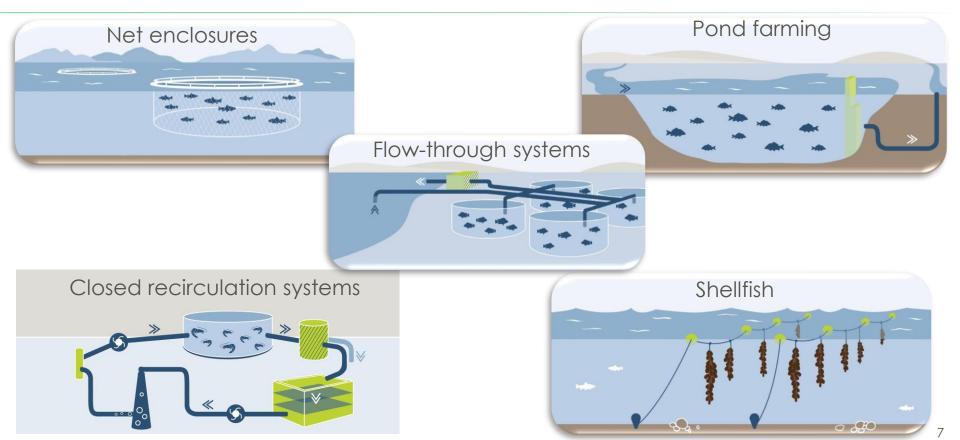
Principles and criteria*





GLOBALG.A.P. CERTIFICATION FOR AQUACULTURE

Available for all types of production systems





GLOBALG.A.P. CERTIFICATION FOR AQUACULTURE

Seaweed (maaroalgae) added as a new product category







- Finfish
- Crustaceans
- Molluscs
- NEW: seaweed (macroalgae)











THE GLOBALG.A.P. SOLUTION

International recognitions for IFA for aquaculture

- Only aquaculture certification standard at primary production level for seafood farming recognized by GFSI (Global Food Safety Initiative)
- Recognized by GSSI (Global Sustainability Seafood Initiative) for all species of finfish, crustaceans, molluscs, and seaweed

Referenced at all times:

- Technical Guidelines on Aquaculture Certification FAO (Food and Agriculture Organization of the United Nations)
- WOAH Aquatic Animal Health Code requirements, assuring health risk mitigation, responsible use of antimicrobials and animal welfare
- Standard implementation contributes to the United Nations Sustainable Development Goals



THE GLOBALG.A.P. SOLUTION

Considers the four pillars of the FAO Technical Guidelines

FAO Technical Guidelines on Aquaculture Certification

Food safety



Only scheme recognized by GFSI for aquaculture at farm level

Animal health and welfare



Covers the
WOAH
Aquatic
Animal Health
Code
requirements

Environmental integrity



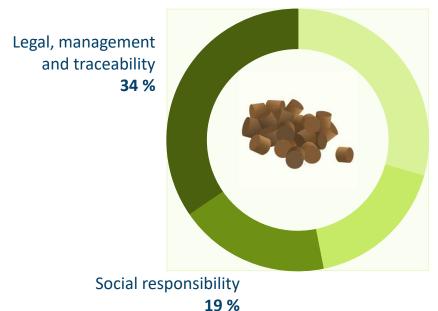
Recognized by GSSI for all species in the GLOBALG.A.P. product list Socioeconomic aspects



GLOBALG.A.P.
Risk Assessment
on Social
Practice is a
mandatory part
of IFA for
aquaculture

Compound feed manufacturer standard v3.1

Control points and criteria*



Feed safety 29 %

Environmental sustainability 18 %

Category	CPCC
Major Must	208
Minor Must	42
Recommendation	8
TOTAL CFM V3	258

^{*}Published December 2021

Tried, tested, and trusted around the world, with GLOBALG.A.P. certified production processes producing over 23 million tons of feed across 30 countries

Compound feed manufacturer standard v3.1

Control points and criteria*

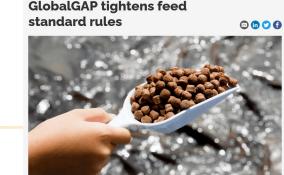


Source: Fishfarmingexpert

Compound feed manufacturer standard v3.1

Control points and criteria*

Main changes



Feed manufacturers certified under the GlobalGAP standard will have to meet stricter criteria for fishmeal, fish oil and soy if they want to keep the certification.

- GHG evaluation for production and feed ingredients
- Workers' health, safety, and welfare
- Responsible sourcing of feed ingredients (terrestrial and marine):
 Sourcing of fish meal and fish oil

FEFAC soy sourcing guidelines

Palm oil products

Source: Fishfarmingexpert





IFA V6

Aquaculture Revision Process and World Consultation Tours



14 webinars covering all continents



21 hours



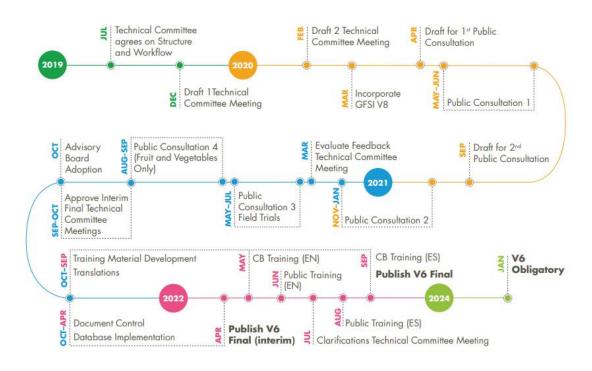
150 stakeholders



4 languages

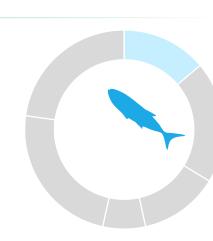


485 comments





- Global Food Safety Initiative (GFSI) requirements still implemented
- Stricter biosecurity requirements
- Entire section on hygiene upgraded to Major Must
- All outsourced processes, products, and materials are verified for compliance with IFA AQ standard requirements
- Depuration for bivalve molluscs
- Compliance with maximum residue limits (MRLs), domestic and international (countries of destination defined in the certificate)
- Negative list of medicines and treatments (including banned under the United Nations Food and Agriculture Organization (FAO)/WHO Codex Alimentarius), independent if allowed in country of production





IFA V6

Environment and biodiversity



- Environmental impact assessment (EIA) extended.
- Environmental Parameters of Relevance Based on the Aquaculture System Used guideline included
- Evaluation of the biodiversity of the benthic fauna and/or recipient water body sediment
- Escape management aiming at zero escapes, with new requirements on climate change-related accidents
- Higher level of responsible raw material sourcing for compound feed, with targeted criteria for fish meal/fish oil, soy, and palm oil
- Collaboration between farms sharing the same water body, including disease control and animal movement



BENTHIC FAUNA AND RECIPIENT WATER BODY SEDIMENT FOR ALL SYSTEMS









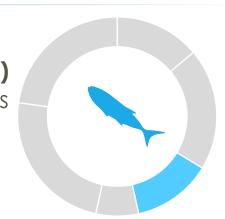
Benthic biodiversity, chemical indicators, and possible accumulation of chemical residues in the recipient water body sediment

FOR ALL FARMING SYSTEMS





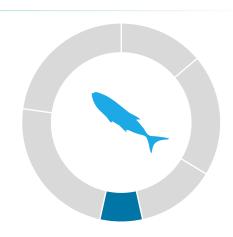
- GLOBALG.A.P. Risk Assessment on Social Practice (GRASP)
 continues to be a compulsory part of the IFA requirements
 for aquaculture with GRASP v2
- Entire section on workers' health, safety, and welfare upgraded
- Diving operation requirements expanded
- Worker handling training for increased compliance with hygiene and animal health criteria





NEW IN IFA V6

- Introduction of three values (metrics) necessary as part of the audit report, in addition to the audit criteria:
 - Percentage of mortalities linked to causes of death
 - Average fish meal and fish oil percentage (including origin), and fish in: fish out information
 - Economic feed conversion ratio (eFCR) the quantity of feed used to produce the quantity of fish harvested (net production refers to the live weight)





NEW IN IFA V6

Animal health and welfare



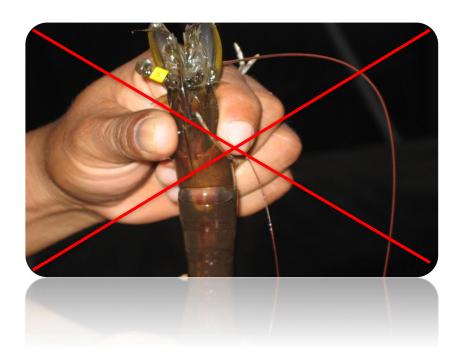
- Predator exclusion plan extended
- Aquaculture health plan (AHP) provides transparency on antimicrobials, the management of chemical use, and a negative list of prohibited substances
- Banning of seedlings sourced from shrimp females with eyestalk ablation
- Environmental enrichment concept adopted
- Stricter humane slaughter practices reference the WOAH Aquatic Animal Health Code
- Prevention of pathogen spreading expanded
- Animal welfare parameters established for transport
- Aquatic species welfare training extended to include workers at all stages of production



ANIMAL WELFARE-SHRIMP REPRODUCTION

Broodstock and seedlings

As of April 2024, only larvae originating from shrimp females without eyestalk ablation will be accepted.





NEW IN IFA V6

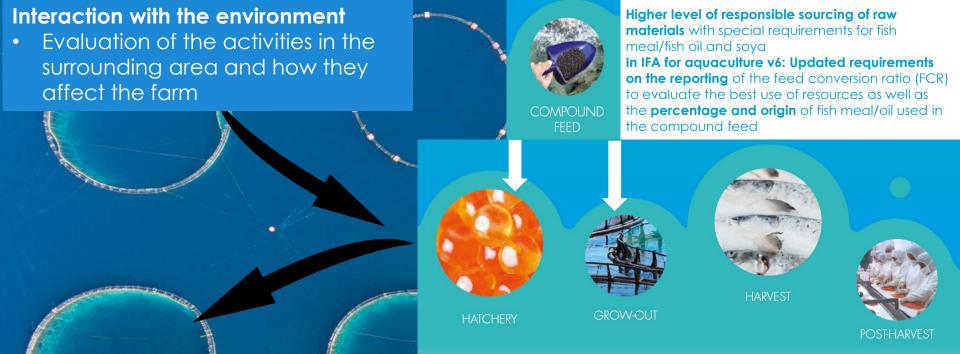
Continuous improvement

Stages of a continuous improvement plan



- 1. Producer analyzes current practices using real data
- Reporting is used to identify areas that can be improved
- 3. Producer sets measurable goals for improvement
- 4. New measures are implemented in farm practices
- 5. Implementation is checked and progress reviewed at annual CB audit
- 6. The continuous improvement plan is revised based on progress

- Producers are required to implement a plan to analyze current practices at farm level.
- Producers then identify "hot spots" and set clear, measurable goals for improvement in a defined area.
- Year-on-year, producers demonstrate their efforts towards improving aspects such as sustainability, food safety, and workers' well-being.



- Chemical use: Aquaculture health plan (AHP) with detailed operation instructions;
 Chemical use management; Negative list of prohibited substances.
- **Diseases:** The prevention of the spread of pathogens is covered in eight principles and criteria.
- Escapes: Escape management aims at zero escapes. Attention to climate change related escapes, including cages structures.

 Evidence required of no significant negative impact on the biodiversity of the benthic fauna and/or recipient water body sediment/water column

- Prevention of interaction with predators
- Collaboration with farms sharing the same water body, including disease control, movement of animals, predators, and the evaluation of macro fauna







GLOBALG.A.P. CERTIFICATION FOR AQUACULTURE (cs of 31.01.2023)

36 SPECIES FROM GLOBALG.A.P. CERTIFIED PRODUCTION

01	Adriatic sturgeon [Acipenser naccarii]	19	Nile tilapia [Oreochromis niloticus]
02	Arctic char [Salvelinus alpinus]	20	Pangasius tra [Pangasianodon hypophthalmus]
03	Atlantic cod [Gadus morhua]	21	Pink dentex [Dentex gibbosus]
04	Atlantic halibut [Hippoglossus hippoglossus]	22	Rainbow trout [Oncorhynchus mykiss]
05	Atlantic salmon [Salmo salar]	23	Red drum [Sciaenops ocellatus]
06	Barramundi [Lates calcarifer]	24	Red porgy [Pagrus pagrus]
07	Bluespotted seabream [Pagrus caeruleostictus]	25	Red seabream [Pagrus major]
08	Brook trout [Salvelinus fontinalis]	26	Red tilapia [Oreochromis mossambicus × Oreochromis niloticus]
09	Brown trout [Salmo trutta fario]	27	Russian sturgeon [Acipenser gueldenstaedtii]
10	Coho salmon [Oncorhynchus kisutch]	28	Senegalese sole [Solea senegalensis]
11	Common dentex [Dentex dentex]	29	Sharpsnout sea bream [Diplodus puntazzo]
12	European seabass [Dicentrarchus labrax]	30	Shi drum [Umbrina cirrosa]
13	Flathead grey mullet [Mugil cephalus]	31	South african abalone [Haliotis midae]
14	Giant tiger prawn [Penaeus monodon]	32	Starry sturgeon [Acipenser stellatus]
15	Gilthead seabream [Sparus aurata]	33	Sterlet sturgeon [Acipenser ruthenus]
16	Greater amberjack [Seriola dumerili]	34	Turbot [Scophthalmus maximus]
17	Hybrid striped bass [Morone saxatilis x Morone chrysops]	35	White grouper [Epinephelus aeneus]
18	Meagre [Argyrosomus regius]	36	Whiteleg shrimp [Litopenaeus vannamei]
			4



GLOBALG.A.P. CERTIFICATION FOR AQUACULTURE

28 COUNTRIES WITH GLOBALG.A.P. CERTIFIED AQUACULTURE PRODUCTION (AS OF 31/01/23)



- Albania
- 2 Australia
- 3 Chile
- 4 Colombia
- 5 Croatia
- 6 Denmark
- 7 Ecuador
- 8 Faroe Islands
- France
- 10 Greece
- 11 Honduras
- 12 Iceland
- 13 Ireland
- 14 Italy
- 15 Mauritius
- 16 Nicaragua
- 17 Norway
- 18 Poland
- 19 Portugal
- 20 Saudi Arabia
- 21 South Africa
- 22 Spain
- 23 Taiwan
- 24 Turkey

- 25 United Kingdom
- 26 United States
- 27 Uzbekistan
- 28 Vietnam



For buyers, producers and consumers

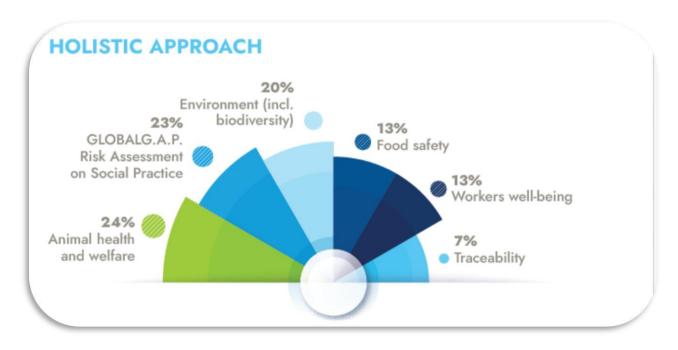
1. Traceability and reliability throughout the supply chain





For buyers, producers and consumers

2. Balanced implementation of relevant aspects





For buyers, producers and consumers

- 3. Extensive offer of certified aquaculture products at the market
 - ✓ Covering: finfish, crustaceans, molluscs, seaweed
 - √ 36 species certified, linked to the scientific name in 28 countries

EXTENSIVE OFFER TO THE AQUACULTURE MARKET

2.8 million metric tons are produced under GLOBALG.A.P. certified production processes annually, covering all species of:



FINFISH



CRUSTACEANS



MOLLUSCS



SEAWEED





For buyers, producers and consumers

4. Integrity: verification of consistent implementation worldwide



GLOBALG.A.P. INTEGRITY REPORT 2021

CONTENTS

WELCOME LETTER

TRAINING

INTEGRITY ASSESSMENT

BRAND INTEGRITY

COMPLAINT MANAGEMENT

CUSTOMER SUPPORT



For buyers, producers and consumers

5. B2C: communication to consumers through the GGN label





The GGN label

- Cross-category, consumer-facing label
- Stands for certified, responsible farming and transparency





COMMUNICATION B2C

POSSIBLE LABELING





THE GLOBALG.A.P. PORTFOLIO

Aquaculture solutions

Chain of Custody

GRASP v2

IFA v6Aquaculture

Compound Feed Manufacturing v3

Minimum IFA AQ certification



Chain of Custody

GRASP v2

IFA v6Aquaculture

Compound Feed Manufacturing v3

IFA AQ certification with voluntary NON-GM add-on and label



Chain of Custody

GRASP v2

IFA v6Aquaculture

Compound Feed Manufacturing v3

Minimum IFA AQ certification for GGN label



THE GGN LABEL

Making certified, responsible farming visible

Products with the GGN label are available at:



































































36 COUNTRIES WHERE CONSUMERS CAN FIND PRODUCTS WITH THE GGN LABEL (AS OF 31/01/23)







1	Aι	IS	П

2 Belgium

3 Bulgaria

4 China

5 Croatia

6 Cyprus

- 7 Czech Republic
- 8 Denmark
- 9 Ecuador
- 10 Estonia
- 11 France

- 12 Germany
 - 13 Greece
 - 14 Hungary
- 15 Ireland 16 Italy
- 20 Moldova21 Netherlands

apan

Latvia

Lithuania

- 22 Norway
 - 23 Peru
 - 24 Poland
 - 25 Portugal
 - 26 Romania

- 27 Serbia
- 28 Singapore
- 29 Slovakia
- 30 Slovenia
- 31 South Africa

- 32 Spain
- 33 Sweden
- 34 Switzerland
- 35 United Kingdom
- 36 United States



SEAFOOD WITH THE GGN LABEL

Both in packaging for end consumer and fresh counters





SEAFOOD WITH THE GGN LABEL th in packaging for end consumer and fresh counters

Algal oil-fed salmon to hit German shelves this week











Kaufland's packaging highlights the salmon's algal oil input. Photo: Veramaris.

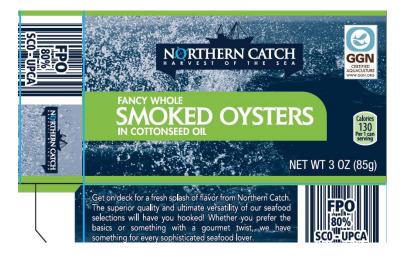














H&NGROUP

Soon with the new GGN label logo

– Crystal Harvest –

EUROPEAN SEA BASS

BRONZINI



KEEP FROZEN

DELICATE AND FULL FLAVOR

PREMIUM HAND-CUT

SKIN-ON **FILLETS**



NET WT 16 OZ (1LB) 453a

Crystal Harvest

INDIVIDUALLY VACUUM PACKED **Nutrition Facts** SAFE HANDLING INSTRUCTIONS Keep frozen, do not refreeze. Raw fish, to be thoroughly cooked before consumption. Internal temperature should reach 145°F. 180 Calories THAWING INSTRUCTIONS For best results remove fillets from individually vacuum packed wrapping.
Cover fillets and thaw under refrigeration. FARM RAISED • PRODUCT OF TURKEY A favorite serving suggestion is to pan fry the fillet, in a separate pan sauté olive oil, asparagus, cherry tomatoes, Kalamata olives, salt, pepper & red chili flakes to taste. Cover sea bass with sauté

CONTAINS: Fish (See Bass) PACKED FOR H & N GROUP INC

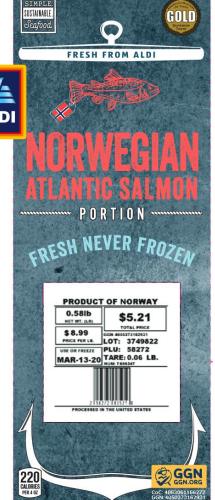




Mediterranean Sea Bass, also known as Bronzini, is an iconic fish of Europe. This fish offers a delicate flavor with a medium firm texture.

688mg OF OMEGA 3 PER 112g SERVING









ATLANTIC SALMON

WITH 4% SALT AND WATER SOLUTION



5-7 PREMIUM SALMON FILLETS

INDIVIDUALLY VACUUM PACKED • SKINLESS & BONELESS • CENTER CUT PORTIONS

WITH PEC BRING ANTIBI WHICH BE FARM

Nutrit

About 7 servings Serving Size

Amount ner serving Calorie

Saturated Fat 4 Trans Fat 0g Cholesterol 75mg

Sodium 300mg Total Carbohydrate 0g

Dietary Fiber 0g

Total Sugars 0g Includes 0g Added Sugars

Protein: 30g

Calcium 10mg

Iron Oma

DISTRIBUTED BY

JESSUP, MD 20794

SPE, INC.

Vitamin D 10.9mcg

Potassium 600mg

"The % Daily Value (DV) talls you how much a nutrient in a serving of food contributes to a daily diet. 2,000 calories a day is used for

M480 EFTA

INGREDIENTS: ATLANTIC SALMON (COLOR

ADDED THROUGH FEED), WATER, SALT

CONTAINS: FISH (ATLANTIC SALMON) WARNING: MAY CONTAIN BONES

Total Fat 24g

NET WT 40 OZ (2.5 LB) 1.13KG 25%

13%

0%

0%

50%

0%

0%

15%

STORAGE: Salmon portions must be kept frozen until ready to use. Once thawed, salmon should be consumed within two days. DO NOT REFREEZE.

Cook to an internal temperature of 145°F or until salmon separates easily. Cook thoroughly before consumption.

TRACEABILITY

ATLANTIC SALMON (Salmo Salar)

COUNTRY OF ORIGIN: NORWAY HARVEST METHOD: FARM RAISED (2.5% PEN DENSITY)







Responsibly farmed

DO NOT REFREEZE

www.ggn.org. KEEP FROZEN UNTIL READY TO USE

GGN









AQUACULTURE PRODUCTS WITH THE GGN LABEL

Asian market

Singapore



China













GLOBALG.A.P. Transition tool

New Integrated Farm Assurance Version 6 Transition Tools for Seamless Certification

15 August 2023

Three new transition tools are now available to support producers in their transition to the newest version of the flagship GLOBALG.A.P. standard, Integrated Farm Assurance (IFA) version 6.

IFA v6 spearheads the journey toward smart farm assurance solutions, having undergone significant content changes from IFA v5 to offer a smarter, more intuitive standard. The new transition tools provide a valuable resource that allows producers to cross-reference the two versions and identify necessary adaptations for IFA v6.

Three transition tools are available for producers – one for the aquaculture and two for the fruit and vegetables product category. The transition tool for aquaculture is available for the transition to both IFA v6 Smart and IFA v6 GFS, whereas there are two separate transition tools for the Smart and GFS editions of IFA v6 for fruit and vegetables.

You can find the "Transition Tool IFA v5.4-1-GFS and IFA v5.2 to IFA v6 Smart/GFS for aquaculture here

You can find the "Transition Tool IFA v5.2 to IFA v6 Smart for fruit and vegetables" here

You can find the "Transition Tool IFA v5.4-1-GFS to IFA v6 GFS for fruit and vegetables" here

Visit our website to download the transition tool here.



GLOBALG.A.P. ACADEMY TRAINING COURSE



20 - 24 November 2023

For producers, professionals, and consultants in the aquaculture sector

https://public.onlineacademy.globalgap.org/catalog/info/id:1313



Questions?





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