



# FISHERY ASSESSMENT REPORT

## IFFO GLOBAL STANDARD FOR RESPONSIBLE SUPPLY OF FISHMEAL AND FISH OIL



<b>FISHERY:</b>	<b>Blue Whiting (<i>Micromesistius poutassou</i>)</b>
<b>LOCATION:</b>	<b>Iceland (Subareas I-IX, XII, and XIV ) (Combined Stock)</b>
<b>DATE OF REPORT:</b>	<b>9<sup>th</sup> October 2012</b>
<b>ASSESSOR:</b>	<b>Sam Peacock</b>

Global Trust Certification Ltd, Quay side Business Centre, Dundalk, Co. Louth, Ireland Tel: 042 932 0912 Fax 042 938 6864

Issue No; 2; Issue Date; Nov 09

Report Ref: Blue Whiting

CCM Code:

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1. Application Details and Summary of the Assessment Outcome			
<b>Name:</b> Icelandic Association of Fishmeal Manufacturers			
<b>Address:</b>			
<b>Country:</b>		<b>Zip:</b>	
<b>Tel. No.</b>		<b>Fax. No.</b>	
<b>Email address:</b>		<b>Applicant Code</b>	
<b>Key Contact:</b>		<b>Title:</b>	
Certification Body Details			
<b>Name of Certification Body:</b> Global trust Certification Ltd			
<b>Assessor Name:</b>	<b>Peer Reviewer:</b>	<b>Assessment Days:</b>	<b>Initial/Surveillance/Re-certification:</b>
Sam Peacock	Mike Platt	1	Surveillance
<b>Assessment Period</b>	9 <sup>th</sup> October 2012		
Scope Details			
<b>1. Scope of Assessment:</b>		IFFO Global Standard for Responsible Supply – Issue 1	
<b>2. Fishery</b>		Blue Whiting ( <i>Micromesistius poutassou</i> )	
<b>3. Fishery Location</b>		Iceland (Subareas I-IX, XII, and XIV ) (Combined Stock)	
<b>4. Fishery Method</b>		Pelagic trawl	
Outcome of Assessment			
<b>5. Overall Fishery Compliance Rating</b>		LOW	
<b>6. Sub Components of Low Compliance</b>		NONE	
<b>7. Information deficiency</b>		NONE	
<b>8. Peer Review Evaluation</b>		Further Investigation will be required if Approval Status is to be maintained	
<b>9. Recommendation</b>		Remove approval and perform full assessment	

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<b>2. Quality of Information</b>
Good; primarily ICES advice.

<b>3. Compliance Level Achieved</b>
Low
<b>Recommendation</b>
<b>Remove approval and perform full fishery assessment.</b>

<b>4. Guidance for On-site Assessment</b>
<b>Based on High Compliance Findings</b>
<b>Based on Medium Compliance Findings</b>
<b>Key Stakeholders of the Fishery</b>

5. Assessment Determination
<p>There have been no significant changes in the management or enforcement of this fishery. The management plan identified in the original assessment continues to form the basis of international management decisions. The 2012 ICES advice (against which no quota has yet been agreed) recommends a 2013 TAC of no more than 643,000t, which represents adherence to the management plan and a considerable increase on the 2012 TAC of 391,000t.</p> <p>The 2010 ICES advice (and 2011 IFFO RS surveillance report) highlighted the discrepancy between a highly precautionary approach and strict adherence to the management plan. This discrepancy raises concerns over the likely reaction of fishery managers if SSB falls below <math>B_{pa}</math>; however, SSB is currently estimated to be above <math>B_{pa}</math> and increased by a million tons from 2011 to 2012.</p> <p><b>The 2011 TAC was set at 40,000t. However, the realized catches in 2011 were more than twice as high (103,500t) due to quota transfers from 2010 and Russia setting a unilateral quota of 45,000t. For this reason, and given the existing concerns about the reaction of fishery managers to the low estimated SSB in the 2010 ICES advice, the assessment team recommends approval be removed from the fishery.</b> A full assessment should be carried out to determine the reasons behind the unilateral Russian quota, and the likelihood of this happening again.</p>
<b>HIGH COMPLIANCE</b>
A1, A2, A3, B1, B2, D2, D3, E1, E2
<b>MEDIUM COMPLIANCE</b>
C1

SUMMARY OF LEVEL OF COMPLIANCE					
	The Management Framework and Procedures	Stock assessment procedures and management advice	Precautionary approach	Management measures	Implementation
legal and administrative basis	High Compliance	Medium Compliance	Medium Compliance	Medium Compliance	Medium Compliance
Fisheries management should be concerned with the whole stock unit	High Compliance	Medium Compliance	Medium Compliance	Medium Compliance	Medium Compliance
Management actions should be scientifically based	High Compliance	Medium Compliance	Medium Compliance	Medium Compliance	Medium Compliance
Research in support of fisheries conservation and management should exist	Medium Compliance	High Compliance	Medium Compliance	Medium Compliance	Medium Compliance
Best scientific evidence available should be taken into account when designing conservation and management measures	Medium Compliance	High Compliance	Medium Compliance	Medium Compliance	Medium Compliance
The precautionary approach is applied in the formulation of management plans	Medium Compliance	Medium Compliance	Low Compliance	Medium Compliance	Medium Compliance
The level of fishing permitted should be set according to management advice given by research organisations	Medium Compliance	Medium Compliance	Medium Compliance	Low Compliance	Medium Compliance
Where excess fishing capacity exist, mechanisms should be in established to reduced capacity	Medium Compliance	Medium Compliance	Medium Compliance	High Compliance	Medium Compliance
Management measures should ensure that fishing gear and fishing practices do not have a significant impact on non-target species and the physical environment	Medium Compliance	Medium Compliance	Medium Compliance	High Compliance	Medium Compliance
A management system for fisheries control and enforcement should be established	Medium Compliance	Medium Compliance	Medium Compliance	Medium Compliance	High Compliance
A framework for sanctions of violation of laws and regulations should be efficiently exists	Medium Compliance	Medium Compliance	Medium Compliance	Medium Compliance	High Compliance

**KEY:** Low Compliance   Medium Compliance   High Compliance:  

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**6. Rationale of the Assessment Outcome**

**a. The Management Framework and Procedure**

LEVEL OF COMPLIANCE		a.i. The management of the fishery must include a legal and administrative basis for the implementation of measures and controls to support the conservation of the fishery.	References	Rating
LOW		<p><b>Determination: Icelandic fisheries management continues to be supported by robust legal and administrative foundations.</b></p> <p>Iceland operates a structured, legal fisheries management system to ensure responsible fisheries, focusing on the sustainable utilization of the fish stocks and good treatment of the marine ecosystem. The fisheries management in Iceland is primarily based on extensive research on the fish stocks and the marine ecosystem, decisions made on the conduct of fisheries and allowable catches on the basis of scientific advice, and effective monitoring and enforcement of the fisheries and the total catch. These are the main pillars of the Icelandic fisheries management intended to ensure responsible fisheries and the sustainability of the ocean’s natural resources.</p> <p>For more details please refer to the original fishery assessment report.</p>	R3, R4	HIGH
MEDIUM				
HIGH				
		a.ii. Fisheries management should be concerned with the whole stock unit over its entire area of distribution and take into account fishery removals and the biology of the species	References	Rating
LOW		<p><b>Determination: As at the time of the previous surveillance report, research suggests that there may be more than one Blue Whiting stock in the Northeast Atlantic; however this has still yet to be confirmed and so the current stock unit represents best scientific advice.</b></p> <p>Research by ICES in 2009 suggested, based on genetic and growth rate analyses of the fishery, that there may be more than a single stock in the Northeast Atlantic. While more work is required to confirm the stock composition, the blue whiting populations in areas VIIk and VIIj and further south</p>	R2-R4	HIGH
MEDIUM				
HIGH				

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	<p>are likely to be one stock, separate from the stock found in the Northeast Waters.</p> <p>However, ICES advice is that until this is clarified further, any TAC that is agreed upon should take into account the entire blue whiting population. The next ICES advice published for this fishery, due in September 2012, should provide an update on any progress towards more accurate stock definitions. In other fisheries (e.g. sandeel) the EU has rapidly implemented ICES recommendations on stock definition changes.</p>		
	a.iii .Management actions should be based on long-term conservation objectives	References	Rating
LOW	<p><b>Determination: <i>The stock is still managed using the internationally-agreed plan identified by the original assessment. This plan includes long-term objectives, and is considered by ICES to follow the precautionary approach.</i></b></p> <p>The long-term objectives of the international management plan for the fishery were agreed by Norway, the EU, the Faroe Islands, and Iceland, and endorsed by NEAFC in November 2008. The agreement includes the following:</p> <ul style="list-style-type: none"> <li>• The Parties agree to implement a long term management plan for the fisheries on the Blue Whiting stock, which is consistent with the precautionary approach, aiming at ensuring harvest within safe biological limits and designed to provide for fisheries consistent with maximum sustainable yield, in accordance with advice from ICES.</li> <li>• As a priority, the long term plan shall ensure with high probability that the size of the stock is maintained above 1.5 million tonnes (<math>B_{lim}</math>).</li> <li>• The Parties shall aim to exploit the stock with a fishing mortality of 0.18 on relevant age groups as defined by ICES.</li> </ul> <p>ICES evaluated this management plan in 2008 and found it to be adherent to the precautionary approach.</p>	R3, R4	HIGH
MEDIUM			

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**b. Stock Assessment Procedures and Management Advice**

LEVEL OF COMPLIANCE	bi. Research in support of fisheries conservation and management should exist.	References	Rating
LOW	<p><b>Determination: <i>National and international research continues to be carried out on this stock. There have been no major changes since the time of the initial assessment.</i></b></p> <p>The Marine Research Institute of Iceland, a Government Agency, is responsible for research into fisheries conservation and is supported by the Icelandic Directorate. The MRI undertakes surveys which are used in fishery management both nationally and internationally by NEAFC.</p> <p>The Blue whiting stock is assessed using a Stochastic Multi-Species model (SMS) applied to data including commercial catch-at-age statistics and data from a broad international survey. ICES advice for this fishery continues to be based on three main survey indices: Norwegian spawning ground survey 1993–2003; International ecosystem survey in the Nordic seas 2000–2011 (IESNS); International blue whiting spawning stock survey (IBWSS) 2004–2011.</p> <p>For more details of the research carried out on the Blue Whiting stock, please refer to the original assessment.</p>	R2-R4	HIGH
MEDIUM			
HIGH			

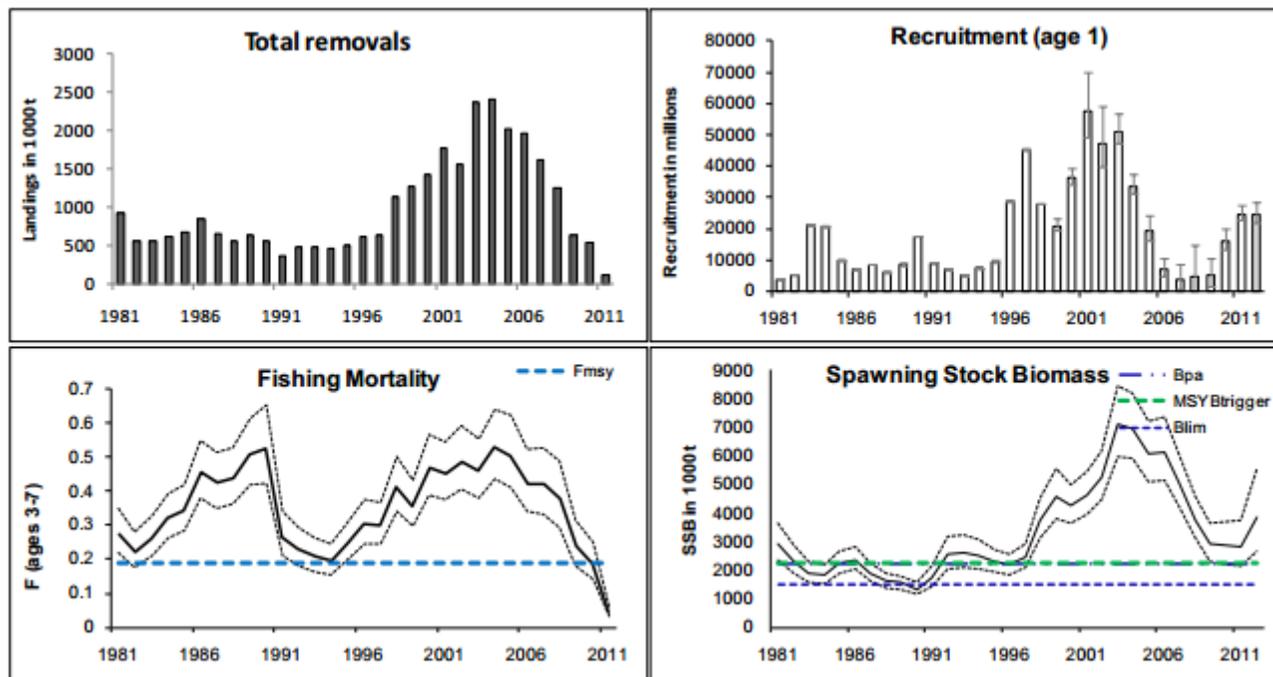
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Blue whiting in Subareas I-IX, XII, and XIV. Summary of stock assessment (weights in thousand tonnes; the estimated shaded recruitment is assumed equal to the 2011 recruitment). Top right: SSB and F over the years. From the 2012 ICES advice.

LEVEL OF COMPLIANCE	b.ii Best scientific evidence available should be taken into account when designing conservation and management measures	References	Rating
LOW	<p><b>Determination: <i>Fishery management continues to follow the long-term management plan identified in the original assessment. The plan has been independently verified by ICES as adherent to the precautionary approach and following best scientific evidence.</i></b></p>	R2-R4	HIGH
MEDIUM			
HIGH			<p>The management plan agreed by Norway, the EU, the Faroe Islands and Iceland, and subsequently endorsed by NEAFC in 2008, uses i) a target fishing mortality (<math>F = 0.18</math>) if SSB is above Bpa, ii) a linear reduction to <math>F = 0.05</math> if SSB is between Bpa and Blim, and iii) <math>F = 0.05</math> if SSB is below Blim. ICES evaluated the plan in 2008 and concluded that it is in accordance with the precautionary approach.</p> <p>There have been no significant changes in the ICES advice for management of this fishery since the time of the original assessment.</p>

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**c. The Precautionary Approach**

LEVEL OF COMPLIANCE	c.i The precautionary approach is applied in the formulation of management plans.	References	Rating								
LOW	<p><b>Determination: <i>The 2011 surveillance assessment awarded the fishery a medium compliance in this section due to the discrepancy between the management plan and a highly precautionary approach, which would have led to a closed fishery in 2011. For the 2012 season this discrepancy is less pronounced but still present, and so the fishery retains a score of medium compliance.</i></b></p> <p>The management plan used to determine quotas for this fishery has been reviewed by ICES as adhering to the precautionary approach; however the 2010 ICES advice highlighted the potential discrepancy between management-plan-based quotas and a highly precautionary approach (see table 1). A fully precautionary approach would have led to a closed fishery, whereas the management plan implied a quota of 40,100t (which was eventually adopted). In the 2011 advice, ICES again noted that the management-plan-based quota (391,000t) was greater than the precautionary-approach-based quota (315,000t). The 2012 quota was eventually set at 391,000t, again in line with the management plan.</p> <p><b>Table 1 – ICES management advice options for 2011. From the 2010 ICES advice.</b></p> <table border="1"> <thead> <tr> <th>Management Objective (s)</th> <th>Landings in 2011</th> </tr> </thead> <tbody> <tr> <td>Transition to an <b>MSY approach</b> with caution at low stock size</td> <td>50 700 to 223 000 for transition to the MSY framework by 2011 and 2015, respectively</td> </tr> <tr> <td>Cautiously avoid impaired recruitment <b>(Precautionary Approach)</b></td> <td>Zero landings</td> </tr> <tr> <td>Cautiously avoid impaired recruitment and achieve other objective(s) of a <b>management plan</b> (e.g., catch stability)</td> <td>40 100 tonnes</td> </tr> </tbody> </table> <p>SSB saw a substantial increase in the 2012 ICES advice, to the extent that stock biomass is now considerably above <math>B_{pa}</math>; however, future assessors should be aware of the discrepancy described</p>	Management Objective (s)	Landings in 2011	Transition to an <b>MSY approach</b> with caution at low stock size	50 700 to 223 000 for transition to the MSY framework by 2011 and 2015, respectively	Cautiously avoid impaired recruitment <b>(Precautionary Approach)</b>	Zero landings	Cautiously avoid impaired recruitment and achieve other objective(s) of a <b>management plan</b> (e.g., catch stability)	40 100 tonnes	R1-R5	MEDIUM
Management Objective (s)		Landings in 2011									
Transition to an <b>MSY approach</b> with caution at low stock size		50 700 to 223 000 for transition to the MSY framework by 2011 and 2015, respectively									
Cautiously avoid impaired recruitment <b>(Precautionary Approach)</b>	Zero landings										
Cautiously avoid impaired recruitment and achieve other objective(s) of a <b>management plan</b> (e.g., catch stability)	40 100 tonnes										
MEDIUM											
HIGH											

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	<p>above and the issues which may reduce the compliance of the fishery if SSB should fall below <math>B_{pa}</math>.</p> <p>The assessment team considers a score of medium compliance to be appropriate at this time.</p>	
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**d. Management Measures**

LEVEL OF COMPLIANCE	d.i The level of fishing permitted should be set according to management advice given by research organisations.	References	Rating
LOW	<p><b>Determination: <i>The total international TAC for 2012 was set according to the advice provided by ICES for adherence to the agreed management plan. However, landings in 2011 were more than double the agreed TAC, which raises further concerns about the reaction of fishery managers to low biomass estimates.</i></b></p> <p>Historically, the total TACs and landings agreed by the members of the management plan have been considerably higher than the ICES recommendations. When it was agreed in 2008, the management plan was intended to take full effect from 2011, with a 35% reduction in TAC each year until then. Quotas have seen significant annual reductions since 2008 (TAC was 1.8 million tonnes in 2007, 1.25 million tonnes in 2008; 606,000t in 2009), and have recently begun to accurately reflect the management plan. In 2010 the agreed TAC (548,000t) was only slightly higher than the recommended TAC (540,000t). The 2011 and 2012 TACs have been set in accordance with ICES advice. The most recent ICES advice was published in September 2012 and saw a substantial increase in the maximum recommended landings; the 2013 quota associated with this advice has not yet been agreed.</p> <p>Figure 1 lists ICES recommendations, TACs and landings in the international fishery since 1987. The 2011 quota was set at 40,000t. The 2012 ICES advice revealed that total landings in 2011 were 105,000t, with the ICES working group report stating “The advice for 2011 to follow the management plan (TAC 40,100 t) was partly followed, however the realized catches in 2011 (103,500t) was more</p>	R1-R6	LOW
MEDIUM			
HIGH			

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		<p>than twice as high due to quota transfers from 2010 and that Russia set an unilateral quota of 45,000 tonnes.” Taking into account the existing concerns over the extent to which a TAC of 40,000t was precautionary (see section C1), the assessment team cannot award anything other than low compliance under this clause. The fishery should be subjected to a full assessment to better understand the international management of the stock, and hence the probability of a similar response to low biomass estimates in future.</p>		
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Year	ICES Advice	Predicted Catch corresp. to advice	Agreed TAC	ICES catch
1987	TAC for northern areas; no advice for southern areas	950	-	665
1988	TAC for northern areas; no advice for southern areas	832	-	558
1989	TAC for northern areas; no advice for southern areas	630	-	627
1990	TAC for northern areas; no advice for southern areas	600	-	562
1991	TAC for northern areas; no advice for southern areas	670	-	370
1992	No advice	-	-	475
1993	Catch at <i>status quo</i> F (northern areas); no assessment for southern areas	490	-	481
1994	Precautionary TAC (northern areas); no assessment for southern areas	485	650 <sup>1</sup>	459
1995	Precautionary TAC for combined stock	518	650 <sup>1</sup>	579
1996	Precautionary TAC for combined stock	500	650 <sup>1</sup>	646
1997	Precautionary TAC for combined stock	540		672
1998	Precautionary TAC for combined stock	650		1125
1999	Catches above 650 000 t may not be sustainable in the long run	650		1256
2000	F should not exceed the proposed $F_{pa}$	800		1412
2001	F should not exceed the proposed $F_{pa}$	628		1780
2002	Rebuilding plan	0		1556
2003	F should be less than the proposed $F_{pa}$	600		2321
2004	Achieve 50% probability that F will be less than $F_{pa}$	925		2378
2005	Achieve 50% probability that F will be less than $F_{pa}$	1075		2027
2006	F old management plan	1500	2100 <sup>2</sup>	1966
2007	F should be less than the proposed $F_{pa}$	980	1847 <sup>3</sup>	1612
2008	F should be less than $F_{pa}$	835	1250 <sup>4</sup>	1246
2009	Maintain stock above $B_{pa}$	384	606 <sup>5</sup>	636
2010	Follow the agreed management plan	540	548	540
2011	See scenarios	40–223	40	105
2012	Follow the agreed management plan	391	391	
2013	Follow the agreed management plan	643		

Weights in thousand tonnes.  
<sup>1</sup>NEAFC proposal for NEAFC regions 1 and 2.  
<sup>2</sup>Agreed TAC from four Coastal States of 2 million tonnes, and an additional allocation to Russia in the international zone of 100 000 t.  
<sup>3</sup>Agreed TAC from four Coastal States of 1.7 million tonnes, and an additional allocation to Russia and Greenland of 147 000 t.  
<sup>4</sup>Agreed TAC from four Coastal States of 1.1 million tonnes, and an additional allocation to Russia and Greenland.  
<sup>5</sup>Agreed TAC from four Coastal States of 0.59 million tonnes, and an additional allocation to Russia (0.016 million tonnes).

**Fig 1 - Blue whiting in Subareas I–IX, XII, and XIV (Combined stock). ICES advice, management, and landings. Weights in '000t. From the September 2012 ICES advice.**

LEVEL OF COMPLIANCE		d.ii Where excess fishing capacity exist, mechanisms should be in established to reduced capacity to allow for the recovery of the stock to sustainable levels.	References	Rating
LOW		<p><b>Determination: <i>The capacity-reducing mechanisms identified in the original assessment continue to be functional and effective.</i></b></p> <p>Iceland operates a vessel registration, licensing and permit system which is necessary to obtain quota within the Individual transfer quota system. The Marine Policy focuses on economic utilisation of stocks. The system acts to create disincentives for allowing excess capacity in fisheries. Other technical measures, including season, permanent and temporary closures act to manage effort and capacity within the permitted fleet.</p>	R3, R4	HIGH
MEDIUM				
HIGH				
LEVEL OF COMPLIANCE		d.iii Management measures should ensure that fishing gear and fishing practices do not have a significant impact on non-target species and the physical environment.	References	Rating
LOW		<p><b>Determination: <i>The original assessment found sufficient measures in place to ensure that this fishery minimises its impact on non-target species and the environment. There have been no significant changes since that time.</i></b></p> <p>Iceland adopts various measures to ensure the protection of small fish and vulnerable habitats, such as regulations on the type of fishing gear allowed in different areas and the closing of fishing grounds. Such measures include rules on the minimum mesh size and the use of small-fish sorting grids.</p> <p>Midwater or Pelagic trawls are the principal fishing gear used in blue whiting. These operate without touching the bottom and are frequently trawled at depths of a few hundred meters, where the minimum mesh size in the cod end is 40 mm. This pelagic gear is considered to have little direct effect on the habitat and seabed.</p> <p>Research in the Norwegian fishery reports little by-catch during the blue whiting spawning season,</p>	R3, R4	HIGH
MEDIUM				
HIGH				

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	<p>but does report some catches of juveniles as well as saithe and redfish when this fishery has continued later in the season.</p> <p>Overall ICES has stated that the Blue Whiting is a relatively clean fishery and that by-catch rates are minimal. Data on the effects of the fishery on ETP species is limited. However, a period of monitoring in the UK blue whiting fishery was undertaken and did not record any dolphin by-catch. Under Icelandic legislation all fishing vessels are to keep a Fishery Log-book. Birds and Mammals that are caught in fishing gear must be reported in this Log-book. The Fishery Log-book is returned to the Directory of Fisheries once a month. The Directory of Fisheries then sends the reports to the Marine Research Institute where the information is used in their scientific work. The onsite audit verified this level of documentation.</p> <p>For more information on management measures, please refer to the original assessment report.</p>	
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**e. Implementation**

LEVEL OF COMPLIANCE	e.i There should be a framework for sanctions of violation of Laws and regulations.	References	Rating
LOW	<p><b>Determination: <i>The original assessment identified an efficient framework of sanctions for violations of laws and regulations. There have been no major changes since that time.</i></b></p> <p>The legal and administrative framework consists of laws and regulations that specify and allow the Ministry through the services of the Directorate to prosecute and charge fines through the Courts of Iceland for infringement of fishery regulations.</p> <p>Breaches of the law and regulations on fisheries management are subject to fines or revoking of the fishing permit, irrespective of whether such conduct is by intent or negligence. Major or repeated intentional offenses are subject to up to six years imprisonment. If the catch of a vessel exceeds the</p>	R3, R4	HIGH
MEDIUM			
HIGH			

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		allowable catch, the relevant company or individual must obtain an additional catch quota for the relevant species. If this is not done within a certain timeframe, the fishing permit may be revoked as well as a charge having to be paid for the illegal catch.		
LEVEL OF COMPLIANCE		e.ii A management system for fisheries control and enforcement should be established.	References	Rating
LOW		<p><b>Determination: <i>The original assessment concluded that an effective management system was in place. There have been no significant changes since that time.</i></b></p> <p>All commercial fisheries are subject to authorization by the Directorate of Fisheries. The Iceland Coast Guard, which falls under the auspices of the Ministry of Justice, monitors the fisheries of vessels operating in Icelandic waters, as well as monitoring closed areas. There are also strict requirements for the keeping of e- logbooks on-board all fishing vessels and they must be made available for fishery inspectors.</p> <p>The Icelandic Directorate of Fisheries is responsible for monitoring and inspecting vessels both at sea, through an observer programme and ashore, through a network of official landing sites where all catches are registered by officials who report to a central database. Thus 60 ports of landings in Iceland send electronic data daily to the Directorate. A total of approximately 50.000 landings are registered in the system every year. All vessels must be registered, licensed and the Directorate issues fishing permits and allocates catch quotas.</p>	R3, R4	HIGH
MEDIUM				
HIGH				

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## References

R1 – ICES blue whiting advice October 2010:

<http://www.ices.dk/committe/acom/comwork/report/2010/2010/whb-comb.pdf>

R2 – ICES blue whiting advice September 2011:

<http://www.ices.dk/committe/acom/comwork/report/2011/2011/whb-comb.pdf>

R3 – Icelandic blue whiting IFFO RS initial fishery assessment:

<http://www.iffonet.net/downloads/IFFO%20RS/Whole%20Fish/Iceland%20-%20Blue%20Whiting.pdf>

R4 – Icelandic blue whiting IFFO RS surveillance assessment, 2011:

<http://www.iffonet.net/downloads/IFFO%20RS/Whole%20Fish/Blue%20whiting%20-%20Iceland%20Annual%20Report.pdf>

R5 – EU fishing quotas 2012:

[http://ec.europa.eu/fisheries/documentation/publications/poster\\_tac2012\\_en.pdf](http://ec.europa.eu/fisheries/documentation/publications/poster_tac2012_en.pdf)

R6 – ICES Blue Whiting advice September 2012:

<http://www.ices.dk/committe/acom/comwork/report/2012/2012/whb-comb.pdf>

R7 – ICES WGWIDE working group report, Blue Whiting, 2012:

<http://www.ices.dk/reports/ACOM/2012/WGWIDE/Sec%2008%20Blue%20Whiting.pdf>

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Issue: 1 .0

Report Ref:

CC Code:

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