

Version 10

The Choke Mitigation Tool is designed to identify and quantify choke situations, in order to develop contingency plans before the 1st of January 2019 when the full landing obligation is implemented

The tool was originally developed by the NWWAC Advice Drafting Group on the Landing Obligation and has been fine-tuned after the NWWAC and NWW Member States Celtic Seas Expert Group (20-21th June). This is the seventh version and should be considered as a final template.

Notes to the user

The tool consists of 3 parts:

PART 1: Stock Identification

- A separate worksheet is created for each individual stocks, which is managed by an EC TAC. The

PART 2: Quantifying the choke problem (based on 2015 data)

This part of the tool compares the level of catches (landings plus discards) with the available quota across the relevant Member States in order to provide an indication of the likely surplus or deficit between catches and quota availability.

- The analysis is based on 2015 catch and landings data from the STECF database. At the time of completing this table, this was the most recent and complete catch data available (STECF database <https://stecf.jrc.ec.europa.eu/dd/effort/graphs-annex>)
- Please note that for some stocks the discard estimates are calculated based on STECF effort areas, which may differ from the TAC management areas, like plaice and sole in area 7.hjk. In these cases, ICES catch data has been used.
- The catches are compared with both the initial quota (as indicated in the Fishing Opportunity Regulation for 2015 (EU 2015/104) and the final quota which takes into account the actual swaps between Member States during the year as well as the inter-annual flexibilities (i.e. banking and borrowing). The latter data was provided by the EC.
- The result of the calculation identifies the size of the quota surplus or deficit by Member State.
- In the case of a quota deficit (i.e. catches are higher than the quota availability (post swaps)), the column is highlighted as follows:

Yellow: insufficient quota to cover the catches

Red: the relative stability share is zero to start with.

- Each potential choke situation is categorised according to the following definitions based on those developed at the MS workshop on 'Access to Quota' (14 -15 April 2016, Edinburgh):

Category 1: Sufficient quota is available at Member State level.

The choke is due to the distribution of quota within the Member State, such that a region or fleet segment does not have enough quota.

This situation may be resolved by the Member State itself

- Row 22: Highlights the type of choke using the categorisation described above
 - Row 22: Indicates for each Member State whether this stock is mainly caught as a target species, as a by-catch species, or both
 - **Row 22-25: List the proportion** of the species under consideration in the discards for the main
- PART 3: Solutions for choke problem**

This part of the tool is meant to identify which mitigation tools are appropriate for each stock/fishery and how and to what extent the available tools can reduce the deficit between catch and quota. At the end of this section (Row 53), an estimation is required of how much of the choke problem is left after implementation of the mitigation options.

Please indicate, by country, if the action would be useful ("Y", "N" or unknown "?").
Use "SBL" if the exemption is applicable if the stock is not within safe biological limits

Use the M to P columns for further clarification:

M: Economic impact

Please indicate whether the application of the mitigation action would have an economic consequences that may impede the effectiveness of the tool

N: Reason for using the action

Please specify why the mitigation action may be relevant and has the potential for successful implementation.

O: Reason for not using the action

Please specify why the action may be not be relevant and as a result has little potential for successful implementation. This description may include the potential "knock-on" effect of a tool on other stocks and between fisheries.

P: Responsibility

Definitions of the mitigation actions

A. Avoidance actions:

- Closures of specific areas or depth ranges can be spatial, temporal (e.g. closure of spawning, nursery areas) or only restricted to certain gears.
- Real-time catch information (real-time closures) to avoid certain hotspot areas of unwanted catch.
- Voluntary areas differ from the previous as the 'hotspot' area would still be open for vessels on the condition that they use more selective gear. It is the skipper's responsibility to decide whether the risk of entering such area is worthwhile.

B. Selectivity actions:

Specific measures can be adopted by some fleets and there may be continuous scope for further improvements.

Selectivity devices are divided into two different categories: size and species selectivity measures. The former can be achieved by increasing the codend mesh size and/or installing escape panels. The latter refers to sorting devices, and trawl modifications. Knowledge of species specific behavioural responses can be used to increase gear selectivity for certain species, like the use of electric pulses or magnets.

C. Quota:



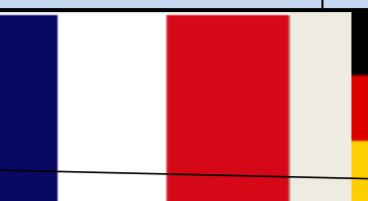




TACs and quota setting measures that could contribute to the alleviation of choke situations:

1. Quota swaps and transfers. These can play a role in dealing with choke situations, depending on

D. Exemptions:

1. High survivability exemptions. These are a possible solution, providing scientific evidence can support the exemption.
2. De minimis exemptions. These are relevant where discards are minor and there is proof that further selectivity is not possible to achieve or there are disproportionate costs associated with the

2016 Cod NS (COD/2A3AX4)

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	27930							
Union TAC + uplift 0,0%	27930							
baseline	Initial quota share 2016 (%)	3,56	20,45	4,40	12,97	11,56	46,93	0,14
	Initial quota 2016 (t)	994	5713	1228	3622	3228	13107	38
potential	Final quota 2016 (after banking and borrowing)	1201	6913	1486	2362	1549	15859	46
	Special conditions							382
STECF data	Reported landings 2016 (t)	1102,73	9271,69	395,49	2091	1330	16889	370,15
	Reported discards 2016 (t)	233	477,6	68,55	68	62	8089	15,88
	Discard rates 2016 (%)	17%	5%	15%	3%	4%	32%	4%
	Total catch 2016 (t)	40464	1336	9749	464	2159	1392	24978

effect swaps 2016

Landing STECF / Initial quota	1,11	1,62	0,32	0,58	0,41	1,29	9,74
Landing STECF / Final quota	0,92	1,34	0,27	0,89	0,86	1,06	8,05
Catches STECF / Initial quota share	1,34	1,71	0,38	0,60	0,43	1,91	10,16
Catches STECF / Final quota	1,11	1,41	0,31	0,91	0,90	1,58	8,39
Estimated Surplus/Deficit by Member State	1,11	1,41	0,31	0,91	0,90	1,58	8,39
Estimated Surplus/Deficit by Member State (t)	-135	-2836	1022	203	157	-9119	42

Choke Category 2 (Regional) or 3 (Biological)?
Indicate:
- Mainly target, by-catch fisheries or both
- Main sources of unwanted catches

2	+	+	0	-	-	+	
	B	T/B	B	T/B	B	T/B	B

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ICES 2015 advice area 7.e-k
<http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2015/2015/cod-7e-k.pdf>

catch options:
Not quantified because of variable discard rates in the recent past.

Table 5.3.10.8 Cod in Divisions VIIe-k. Catch distribution by fleet in 2014 as estimated by ICES:

64 % : otter trawl
17% : beam trawl
16% : seine
0% : gillnets
2% : other

Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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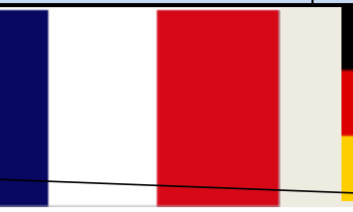




Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown								
	Closed/Restricted Areas	Y	Y	Y	Y	Y	Y	Y	Experience with the cod recovery plan/emergency closure (not carried out in all MS)	
	Real Time Closures (for juveniles and/or spawning aggregations)	Y	Y	Y	Y	Y	Y	Y	Experience with the cod recovery plan	
	Voluntary avoidance actions	Y	Y	Y	Y	Y	Y	Y		
Selectivity	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown								
	Size selectivity - Increasing codend mesh size	N	N	N	N	N	N	na (Y)		
	- Escape panels	N	N	N	N	N	N	na (Y)	in the nephrops fisheries cod is a valuable bycatch	
	Species Selectivity - Sorting devices	Y	Y	N	Y	Y	Y	na (Y)		
	- Trawl modifications e.g. cutaway trawls, raised footrope	Y	Y	Y	Y	Y	Y	Y	under, light, sound, articulated (semi-)rigid grid. Bes More trials are needed, not for the short term	
	- Behavioural response	Y	Y	Y	Y	Y	Y	Y		
Quota	Swapping	Y	Y	Y	Y	Y	Y	Y		
	Interspecies Flexibility	Y	Y	Y	Y	Y	Y	Y		
	Others Quota	N	N	N	N	N	N	N		
	Remove TAC	N	N	N	N	N	N	N		
	Merge TAC regions	N	N	N	N	N	N	N	Interregional flexibility (between stocks) is being discussed	
Exemptions	Indicate how much relief exemptions will provide:	"Y" for yes, "N" for no, "?", "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)								
	High survival	N	N	N	N	N	N	N	There is a survivability exemption in certain coastal fisheries	
	de minimis (based on single TAC)	Y	Y	Y	Y	Y	Y	Y	We should be careful that a de minimis doesn't de-incentivise increasing selectivity	

General conclusions:	There are some possibilities in avoidance, selectivity and de minimis. Swapping is very important for some MS (Belgium, UK), which makes it important that this will stay as flexible as possible in the future.							
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?							

*** Responsibility for this action :**

Individual vessels
Producer Organisation (PO)
Member States: avoid chokes
Regional Member States
European Commission
Council of Ministers
Co-decision

2016 COD SK (COD/03AN)

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	4651							
Union TAC + uplift 0,0%	4651							

baseline	Initial quota share 2016 (%)	0,26	82,69	0,00	2,06	0,52	0,00	14,47
	Initial quota 2016 (t)	12	3846	0	96	24	0	673
<i>potential ammendments</i>								-15
	Final quota 2016 (After banking and Special conditions)	15	3846	0	102	24	0	814
<i>STECF data</i>								
	Reported landings 2016 (t)	0	3070,11	-	95	22	-	643,65
	Reported discards 2016 (t)	-	1050,93	-	15	2,33	-	267,47
	Discard rates 2016 (%)	#VALUE!	26%	#VALUE!	14%	9%	#VALUE!	29%
	Total catch 2016 (t)	#VALUE!	4121	#VALUE!	110	25	#VALUE!	911

<i>effect swaps 2015</i>								
	Landing STECF / Initial quota	0,00	0,80	#VALUE!	0,99	0,92	#VALUE!	0,96
	Landing STECF / Final quota	0,00	0,80	#VALUE!	0,93	0,92	#VALUE!	0,79
	Catches STECF / Initial quota share	#VALUE!	1,07	#VALUE!	1,15	1,04	#VALUE!	1,35
	Catches STECF / Final quota	#VALUE!	1,07	#VALUE!	1,08	1,04	#VALUE!	1,12
	Estimated Surplus/Deficit by Member State	#VALUE!	1,07	#VALUE!	1,08	1,04	#VALUE!	1,12
	Estimated Surplus/Deficit by Member State (t)	#VALUE!	-275	#VALUE!	-8	-1	#VALUE!	-97

Choke Category 2 (Regional) or 3 (Biological)? Indicate:								
- Mainly target, by-catch fisheries or both	2							
- Main sources of unwanted catches		X	T/B	X	B	T/B	X	T/B

Vandamme, Sara:
 ICES 2015 advice area 7.e-k
<http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2015/2015/cod-7e-k.pdf>

catch options:
 Not quantified because of variable discard rates in the recent past.

Table 5.3.10.8 Cod in Divisions VIIe-k. Catch distribution by fleet in 2014 as estimated by ICES:

64 % : otter trawl
 17% : beam trawl
 16%: seine
 0% : gillnets
 2%: other

Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown										
	Closed/Restricted Areas	na	N	na	N	N	na	N				
	Real Time Closures (for juveniles and/or spawning aggregations)	na	Y	na	Y	Y	na	Y				
	Voluntary avoidance actions	na	Y	na	Y	Y	na	Y				

Selectivity	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown										
	Size selectivity - Increasing codend mesh size	na	N	na	N	N	na	N				
	- Escape panels	na	Y	na	N	N	na	Y				
	Species Selectivity - Sorting devices	na	Y	na	N	N	na	Y				
	- Trawl modifications e.g. cutaway trawls, raised footrope	na	Y	na	Y	Y	na	Y		Only on the long term (see NS cod)		
- Behavioural response	na	Y	na	Y	Y	na	Y					



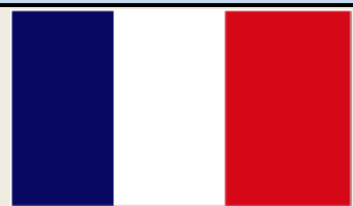




Quota	"Y" for yes, "N" for no, "?", "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits											
	Swapping	na	Y	na	N	Y	na	Y				
	Interspecies Flexibility	na	Y	na	Y	Y	na	Y				Possible, but unlikely for some MS
	Others Quota	na	N	na	N	N	na	N				
	Remove TAC	na	N	na	N	N	na	N				
Merge TAC regions	na	N	na	N	N	na	N					

Exemptions	Indicate how much relief exemptions will provide:	"Y" for yes, "N" for no, "?", "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)										
	High survival	na	N	na	N	N	na	N				there is a survivability exemption in the coastal fisheries
	de minimis (based on single TAC)	na	Y	na	Y	Y	na	Y				
de minimis (based on combined TACs)	na	Y	na	Y	Y	na	Y					

General conclusions:	Similar situation as in the NS with avoidance, selectivity and de minimis as possible solutions. Fewer MS, for Netherlands avoidance and consequently a closure of the fisheries is likely. Possible choke for Denmark and Sweden, seems like the TAC is not following the abundance of the stock										
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?										

* Responsibility for this action :
 Individual vessels
 Producer Organisation (PO)
 Member States: avoid chokes
 Regional Member States
 European Commission
 Council of Ministers
 Co-decision

2016 COD SK (COD/03AS)

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	370							
Union TAC + full uplift 20.24% (ICES discard rate 2015)	370							
baseline	Initial quota share 2016 (%)	0,00	0,00	0,00	1,35	0,00	0,00	37,03
	Initial quota 2016 (t)	0	0	0	5	0	0	137
potential ammendments	Final quota 2016 (After banking and Special conditions)	0	0	0	6	0	0	247
STECF data	Reported landings 2016 (t)	-	-	-	0	0	-	113,3
	Reported discards 2016 (t)	-	-	-	0	-	-	36,3
	Discard rates 2016 (%)	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#VALUE!	#VALUE!	24%
	Total catch 2016 (t)	#VALUE!	#VALUE!	#VALUE!	0	0	#VALUE!	150

Vandamme, Sara:
ICES 2015 advice area 7.e-k
<http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2015/2015/cod-7e-k.pdf>

catch options:
Not quantified because of variable discard rates in the recent past.

Table 5.3.10.8 Cod in Divisions VIIe-k. Catch distribution by fleet in 2014 as estimated by ICES:

64 % : otter trawl
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0% : gillnets
2% : other

effect swaps 2015		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Landing STECF / Initial quota		#VALUE!	#VALUE!	#VALUE!	0,00	#DIV/0!	#VALUE!	0,83
Landing STECF / Final quota		#VALUE!	#VALUE!	#VALUE!	0,00	#DIV/0!	#VALUE!	0,46
Catches STECF / Initial quota share		#VALUE!	#VALUE!	#VALUE!	0,00	#DIV/0!	#VALUE!	1,09
Catches STECF / Final quota		#VALUE!	#VALUE!	#VALUE!	0,00	#DIV/0!	#VALUE!	0,61
Estimated Surplus/Deficit by Member State		#VALUE!	#VALUE!	#VALUE!	0,00	#DIV/0!	#VALUE!	0,61
Estimated Surplus/Deficit by Member State (t)		#VALUE!	#VALUE!	#VALUE!	6	0	#VALUE!	97

Choke Category 2 (Regional) or 3 (Biological)?	Indicate:	Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
- Mainly target, by-catch fisheries or both - Main sources of unwanted catches	2	X	T/B	X	B	T/B	X	T/B

Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown										
	Closed/Restricted Areas	na	N	na	N	N	na	N				
	Real Time Closures (for juveniles and/or spawning aggregations)	na	Y	na	Y	Y	na	Y				
	Voluntary avoidance actions	na	Y	na	Y	Y	na	Y				
Selectivity	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown										
	Size selectivity - Increasing codend mesh size	na	N	na	N	N	na	N				
	- Escape panels	na	Y	na	N	N	na	Y				
	Species Selectivity - Sorting devices	na	Y	na	N	N	na	Y				
	- Trawl modifications e.g. cutaway trawls, raised footrope	na	Y	na	Y	Y	na	Y		Only on the long term (see NS cod)		
- Behavioural response	na	Y	na	Y	Y	na	Y					
Quota	"Y" for yes, "N" for no, "?" if unknown, "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits											
	Swapping	na	Y	na	N	Y	na	Y				
	Interspecies Flexibility	na	Y	na	Y	Y	na	Y				Possible, but unlikely for some MS
	Others Quota	na	N	na	N	N	na	N				
	Remove TAC	na	N	na	N	N	na	N				
Merge TAC regions	na	N	na	N	N	na	N					
Exemptions	Indicate how much relief exemptions will provide: "Y" for yes, "N" for no, "?" if unknown, "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)											
	High survival	na	N	na	N	N	na	N	there is a survivability exemption in the coastal fisheries			
	de minimis (based on single TAC)	na	Y	na	Y	Y	na	Y				
de minimis (based on combined TACs)	na	Y	na	Y	Y	na	Y					

General conclusions:	Similar situation as in the NS with avoidance, selectivity and de minimis as possible solutions. Fewer MS, for Netherlands avoidance and consequently a closure of the fisheries is likely. Possible choke for Denmark and Sweden, seems like the TAC is not following the abundance of the stock										
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?										

* Responsibility for this action :
Individual vessels
Producer Organisation (PO)
Member States: avoid chokes
Regional Member States
European Commission
Council of Ministers
Co-decision

2016 Whiting NS

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	12610							
Union TAC + 0,0%	12610							
baseline	Initial quota share 2016 (%)	2,14	9,25	13,91	2,41	5,35	66,92	0,02
	Initial quota 2016 (t)	270	1167	1754	304	675	8438	2
potential ammendments								0
	Final quota 2016 (After banking and Special conditions)	64	1167	1754	112	601	8438	2
								190
STECF data	Reported landings 2016 (t)	65,1	4839,21	3975,43	71	696,602	9470	5,62
	Reported discards 2016 (t)	679	701,22	2215,56	129	696,91	5920	1,55
	Discard rates 2016 (%)	91%	13%	36%	65%	50%	38%	22%
	Total catch 2016 (t)	29466	744	5540	6191	200	15390	7

effect swaps 2016		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
	Landing STECF / Initial quota	0,24	4,15	2,27	0,23	1,03	1,12	2,81
	Landing STECF / Final quota	1,01	4,15	2,27	0,63	1,16	1,12	2,32
	Catches STECF / Initial quota share	2,76	4,75	3,53	0,66	2,06	1,82	3,59
	Catches STECF / Final quota	11,55	4,75	3,53	1,79	2,32	1,82	2,96
	Estimated Surplus/Deficit by Member State	11,55	4,75	3,53	1,79	2,32	1,82	2,96
	Estimated Surplus/Deficit by Member State (t)	-680	-4373	-4437	-88	-793	-6952	-5

Choke Category 2 (Regional) or 3 (Biological)? Indicate:	2							
- Mainly target, by-catch fisheries or both								
- Main sources of unwanted catches					B			

Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown						
	Closed/Restricted Areas							
	Real Time Closures (for juveniles and/or spawning aggregations)							
Selectivity	Voluntary avoidance actions							
	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown						
	Size selectivity - Increasing codend mesh size							
	- Escape panels							
	Species Selectivity - Sorting devices							
Quota	- Trawl modifications e.g. cutaway trawls, raised footrope							
	- Behavioural response							
	Swapping	"Y" for yes, "N" for no, "?" if unknown, "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits						
Exemptions	Interspecies Flexibility							
	Others Quota							
	Remove TAC							
	Merge TAC regions							
Exemptions	Indicate how much relief exemptions will provide:	"Y" for yes, "N" for no, "?", "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)						
	High survival							
	de minimis (based on single TAC)							
Exemptions	de minimis (based on combined TACs)							

General conclusions:								
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?							

*** Responsibility for this action :**

- Individual vessels
- Producer Organisation (PO)
- Member States: avoid chokes
- Regional Member States
- European Commission
- Council of Ministers
- Co-decision



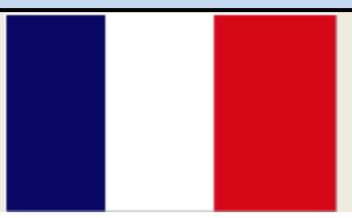




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- 16%: seine
- 0% : gillnets
- 2%: other

2016 Whiting SK (WHG/03A)

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	1031							
Union TAC + 0,0%	1031							
<i>baseline</i>	Initial quota share 2016 (%)	0,00	90,11	0,00	0,00	0,00	0,00	9,60
	Initial quota 2016 (t)	0	929	0	0	0	0	99
<i>potential ammendments</i>	Final quota 2016 (After banking and Special conditions)	0	929	0	3	3	0	99
<i>STECF data</i>	Reported landings 2016 (t)	-	222,85	-	3	2,232	-	62,2
	Reported discards 2016 (t)	-	605,2	-	6	3,76	-	251,6
	Discard rates 2016 (%)	#VALUE!	73%	#VALUE!	67%	63%	#VALUE!	80%
	Total catch 2016 (t)	#VALUE!	828	#VALUE!	9	6	#VALUE!	314

<i>effect swaps 2016</i>		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
	Landing STECF / Initial quota	#VALUE!	0,24	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	0,63
	Landing STECF / Final quota	#VALUE!	0,24	#VALUE!	1,00	0,74	#VALUE!	0,63
	Catches STECF / Initial quota share	#VALUE!	0,89	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	3,17
	Catches STECF / Final quota	#VALUE!	0,89	#VALUE!	3,00	2,00	#VALUE!	3,17
	Estimated Surplus/Deficit by Member State	#VALUE!	0,89	#VALUE!	3,00	2,00	#VALUE!	3,17
	Estimated Surplus/Deficit by Member State (t)	#VALUE!	101	#VALUE!	-6	-3	#VALUE!	-215

Choke Category 2 (Regional) or 3 (Biological)? Indicate:	Value
- Mainly target, by-catch fisheries or both - Main sources of unwanted catches	2

Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown						
	Closed/Restricted Areas							
	Real Time Closures (for juveniles and/or spawning aggregations)							
	Voluntary avoidance actions							

Selectivity	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown						
	Size selectivity - Increasing codend mesh size							
	- Escape panels							
	Species Selectivity - Sorting devices							
	- Trawl modifications e.g. cutaway trawls, raised footrope							
	- Behavioural response							



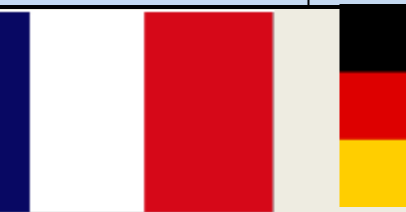




Quota	Swapping	"Y" for yes, "N" for no, "?", "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits						
	Interspecies Flexibility							
	Others Quota							
	Remove TAC							
	Merge TAC regions							

Exemptions	Indicate how much relief exemptions will provide:	"Y" for yes, "N" for no, "?", "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)						
	High survival							
	de minimis (based on single TAC)							
	de minimis (based on combined TACs)							

General conclusions:	200% increase in TAC?
Estimated reduction of the choke problem after "Other" mitigation actions:	

* Responsibility for this action :
 Individual vessels
 Producer Organisation (PO)
 Member States: avoid chokes
 Regional Member States
 European Commission
 Council of Ministers
 Co-decision

2016 Area IIa and IV - Hake

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	3492							
Union TAC + 0,0% uplift	3492							
baseline	Initial quota share 2016 (%)	1,43	57,79	12,80	6,64	3,32	18,01	0,00
	Initial quota 2016 (t)	50	2018	447	232	116	629	0
potential ammendments	final quota 2016 (after banking and borrowing)	65	2018	447	471	64	761	0
	Special conditions				initial 451 t OTH/04-N. quota			
					final 779 t OTH/04-N. quota			
STECF data	Reported landings 2016 (t)	58,94	5444,33	2142,5	802	52,381	7224	30,84
	Reported discards 2016 (t)	8,29	103,63	45,56	13	17,47	4103	0,43
	Discard rates 2016 (%)	12%	2%	2%	2%	25%	36%	1%
	Total catch 2016 (t)	20046	67	5548	2188	815	70	11327

effect swaps 2016		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
	Landing STECF / Initial quota	1,18	2,70	4,79	3,46	0,45	11,48	#DIV/0!
	Landing STECF / Final quota	0,91	2,70	4,79	1,70	0,82	9,49	#DIV/0!
	Catches STECF / Initial quota share	1,34	2,75	4,89	3,51	0,60	18,01	#DIV/0!
	Catches STECF / Final quota	1,04	2,75	4,89	1,73	1,09	14,88	#DIV/0!
	Estimated Surplus/Deficit by Member State	1,04	2,75	4,89	1,73	1,09	14,88	#DIV/0!
	Estimated Surplus/Deficit by Member State (t)	-3	-3530	-1741	-344	-6	-10566	-31

Choke Category 2 (Regional) or 3 (Biological)?	Indicate:	Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
- Mainly target, by-catch fisheries or both - Main sources of unwanted catches	2				B			

Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown							
	Closed/Restricted Areas								
	Real Time Closures (for juveniles and/or spawning aggregations)								
Selectivity	Voluntary avoidance actions								
	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown							
	Size selectivity - Increasing codend mesh size								
	- Escape panels								
Quota	Species Selectivity - Sorting devices								
	- Trawl modifications e.g. cutaway trawls, raised footrope								
	- Behavioural response								
Exemptions	Swapping	"Y" for yes, "N" for no, "?", "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits							
	Interspecies Flexibility								
	Others Quota								
	Remove TAC								
Exemptions	Merge TAC regions								
	Indicate how much relief exemptions will provide:	"Y" for yes, "N" for no, "?", "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)							
	High survival de minimis (based on single TAC)								
	de minimis (based on combined TACs)								

General conclusions:								
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?							

* Responsibility for this action :
 Individual vessels
 Producer Organisation (PO)
 Member States: avoid chokes
 Regional Member States
 European Commission
 Council of Ministers
 Co-decision

Vandamme, Sara:
 ICES 2015 advice area 7.e-k
<http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2015/2015/cod-7e-k.pdf>

catch options:
 Not quantified because of variable discard rates in the recent past.

Table 5.3.10.8 Cod in Divisions VIIe-k. Catch distribution by fleet in 2014 as estimated by ICES:

64 % : otter trawl
 17% : beam trawl
 16% : seine
 0% : gillnets
 2% : other

2016 HAKE (HKE/571214)

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	UK
Union TAC for 2016 (t)	2997							
	2997							
baseline	Initial quota share 2016 (%)	0,00	92,16	0,00	0,00	0,00	0,00	7,84
	Initial quota 20156(t)	0	2762	0	0	0	0	235
potential ammendments	Final quota 2016 (After banking and	0	2762	0	24	4	0	235
	Special conditions				only use of special condition HKE/*03A. part of HKE/2AC4-C quota			
STECF data	Reported landings 2016 (t)	0	623,97	-	5	3,637	-	49,3
	Reported discards 2016 (t)	0	98,7		0	0,15		14,3
	Discard rates 2016 (%)	#DIV/0!	14%	#VALUE!	0%	10%	#VALUE!	22%
	Total catch 2016 (t)	#VALUE!	0	723	#VALUE!	5	2	#VALUE!
effect swaps 2016	Landing STECF / Initial quota	#DIV/0!	0,23	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	0,21
	Landing STECF / Final quota	#DIV/0!	0,23	#VALUE!	0,21	0,91	#VALUE!	0,21
	Catches STECF / Initial quota share	#DIV/0!	0,26	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	0,27
	Catches STECF / Final quota	#DIV/0!	0,26	#VALUE!	0,21	0,38	#VALUE!	0,27
	Estimated Surplus/Deficit by Member State	#DIV/0!	0,26	#VALUE!	0,21	0,38	#VALUE!	0,27
	Estimated Surplus/Deficit by Member State (t)	0	2039	#VALUE!	19	3	#VALUE!	171

Vandamme, Sara:
 ICES 2015 advice area 7.e-k
<http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2015/2015/cod-7e-k.pdf>
 catch options:
 Not quantified because of variable discard rates in the recent past.
 Table 5.3.10.8 Cod in Divisions VIIe-k. Catch distribution by fleet in 2014 as estimated by ICES:
 64 % : otter trawl
 17% : beam trawl
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 2%: other



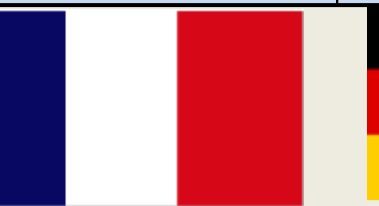




Choke Category 2 (Regional) or 3 (Biological)?	
Indicate:	
- Mainly target, by-catch fisheries or both	2
- Main sources of unwanted catches	

Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
Avoidance				
Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species				
Closed/Restricted Areas				
Real Time Closures (for juveniles and/or spawning aggregations)				
Voluntary avoidance actions				
Selectivity				
Measures above regulatory requirements that may reduce the unwanted catch of a species				
Size selectivity - Increasing codend mesh size				
- Escape panels				
Species Selectivity - Sorting devices				
- Trawl modifications e.g. cutaway trawls, raised footrope				
- Behavioural response				
Quota				
Swapping				
Interspecies Flexibility				
Others Quota				
Remove TAC				
Merge TAC regions				
Exemptions				
Indicate how much relief exemptions will provide:				
High survival				
de minimis (based on single TAC)				
de minimis (based on combined TACs)				

General conclusions:	
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?

* Responsibility for this action :
 Individual vessels
 Producer Organisation (PO)
 Member States: avoid chokes
 Regional Member States
 European Commission
 Council of Ministers
 Co-decision

2016 Ling NS

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	2912							
Union TAC + full uplift 0%	2912							
baseline	Initial quota share 2016 (%)	0,65	9,99	5,56	6,18	0,21	76,99	0,41
	Initial quota 2016 (t)	19	291	162	180	6	2242	12
potential ammendments					initial 23 t LIN/04-N.			
	Final quota 2016 (After banking and Special conditions)	14	291	162	43	1	2713	12
					final 55 t LIN/04-N.			
STECF data	Reported landings 2016 (t)	13,84	1351,84	309,23	95	0,057	2705	11,39
	Reported discards 2016 (t)	5,14	0,69	8,69	0,06	0	1372	0
	Discard rates 2016 (%)	27%	0%	3%	0%	0%	34%	0%
	Total catch 2016 (t)	5873	1353	318	95	0	4077	11

effect swaps 2016		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
	Landing STECF / Initial quota	0,73	4,65	1,91	0,53	0,01	1,21	0,95
	Landing STECF / Final quota	0,97	4,65	1,91	2,21	0,10	1,00	0,95
	Catches STECF / Initial quota share	1,00	4,65	1,96	0,53	0,01	1,82	0,95
	Catches STECF / Final quota	1,32	4,65	1,96	2,21	0,10	1,50	0,95
	Estimated Surplus/Deficit by Member State	1,32	4,65	1,96	2,21	0,10	1,50	0,95
	Estimated Surplus/Deficit by Member State (t)	-5	-1062	-156	-52	0	-1364	1

Choke Category 2 (Regional) or 3 (Biological)?		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Indicate:	2							
	- Mainly target, by-catch fisheries or both							
	- Main sources of unwanted catches							

Vandamme, Sara
 ICES 2015 advice area 7.e-k
<http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2015/2015/cod-7e-k.pdf>
 catch options:
 Not quantified because of variable discard rates in the recent past.
 Table 5.3.10.8 Cod in Divisions VIIe-k. Catch distribution by fleet in 2014 as estimated by ICES:
 64 % : otter trawl
 17% : beam trawl
 16%: seine
 0% : gillnets
 2%: other

Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown		
	Closed/Restricted Areas Real Time Closures (for juveniles and/or spawning aggregations) Voluntary avoidance actions			
	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown		
Selectivity	Size selectivity - Increasing codend mesh size - Escape panels			
	Species Selectivity - Sorting devices - Trawl modifications e.g. cutaway trawls, raised footrope - Behavioural response			
	Swapping Interspecies Flexibility Others Quota Remove TAC Merge TAC regions	"Y" for yes, "N" for no, "?" if unknown, "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits		
Exemptions	Indicate how much relief exemptions will provide:	"Y" for yes, "N" for no, "?", "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)		
	High survival de minimis (based on single TAC)			
	de minimis (based on combined TACs)			

General conclusions:							
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?						

* Responsibility for this action :
 Individual vessels
 Producer Organisation (PO)
 Member States: avoid chokes
 Regional Member States
 European Commission
 Council of Ministers
 Co-decision

2016 Ling NS

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	87							
Union TAC + full uplift	87							
baseline	Initial quota share 2016 (%)	0,00	0,00	0,00	0,00	0,00	0,00	0,00
	Initial quota 2016 (t)	6			6		2242	19
potential ammendments	Final quota 2016 (After banking and Special conditions)	0	0	0	2	0	2713	23
STECF data	Reported landings 2016 (t)	0	0	0	1	0	438,22	17,1
	Reported discards 2016 (t)	5,14	0	0	0,01	0	3,57	2,7
	Discard rates 2016 (%)	100%	#DIV/0!	#DIV/0!	1%	#DIV/0!	1%	14%
	Total catch 2016 (t)	468	5	0	0	1	442	20
effect swaps 2016	Landing STECF / Initial quota	0,00	#DIV/0!	#DIV/0!	0,17	#DIV/0!	0,20	0,90
	Landing STECF / Final quota	#DIV/0!	#DIV/0!	#DIV/0!	0,50	#DIV/0!	0,16	0,74
	Catches STECF / Initial quota share	0,86	#DIV/0!	#DIV/0!	0,17	#DIV/0!	0,20	1,04
	Catches STECF / Final quota	#DIV/0!	#DIV/0!	#DIV/0!	0,51	#DIV/0!	0,16	0,86
	Estimated Surplus/Deficit by Member State	#DIV/0!	#DIV/0!	#DIV/0!	0,51	#DIV/0!	0,16	0,86
	Estimated Surplus/Deficit by Member State (t)	-5	0	0	1	0	2271	3

Vandamme, Sara
 ICES 2015 advice area 7.e-k
<http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2015/2015/cod-7e-k.pdf>
 catch options:
 Not quantified because of variable discard rates in the recent past.
 Table 5.3.10.8 Cod in Divisions VIIe-k. Catch distribution by fleet in 2014 as estimated by ICES:
 64 % : otter trawl
 17% : beam trawl
 16% : seine
 0% : gillnets
 2% : other

Choke Category 2 (Regional) or 3 (Biological)? Indicate: - Mainly target, by-catch fisheries or both - Main sources of unwanted catches								Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
Mitigation actions:											
Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown									
	Closed/Restricted Areas Real Time Closures (for juveniles and/or spawning aggregations) Voluntary avoidance actions										
	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown									
Selectivity	Size selectivity - Increasing codend mesh size - Escape panels Species Selectivity - Sorting devices - Trawl modifications e.g. cutaway trawls, raised footrope - Behavioural response										
	Swapping Interspecies Flexibility Others Quota Remove TAC Merge TAC regions	"Y" for yes, "N" for no, "?", "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits									
	Indicate how much relief exemptions will provide:	"Y" for yes, "N" for no, "?", "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)									
Exemptions	High survival de minimis (based on single TAC)										
	de minimis (based on combined TACs)										
General conclusions:											
Estimated reduction of the choke problem after "Other" mitigation actions:		200% increase in TAC?									

*** Responsibility for this action :**

- Individual vessels
- Producer Organisation (PO)
- Member States: avoid chokes
- Regional Member States
- European Commission
- Council of Ministers
- Co-decision

2016 PLAICE NS (PLE/2A3AX4)

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	119390							
Union TAC + uplift 2,6%	122494							
baseline	Initial quota share 2016 (%)	6,31	20,52	1,18	5,92	39,46	29,20	0,00
	Initial quota 2016 (t)	7538	24499	1414	7067	47112	34864	0
<i>potential ammendments</i>	Final quota 2016 (After banking and Special conditions)	8742	25136	1451	7855	62767	35770	0
<i>STECF data</i>	Reported landings 2016 (t)	6671,57	18848,45	173,81	4215	31854,508	18807	9,14
	Reported discards 2016 (t)	4534,81	1615,11	182,44	5633	28409	10822	0,06
	Discard rates 2016 (%)	40%	8%	51%	57%	47%	37%	1%
	Total catch 2016 (t)	131776	11206	20464	356	9848	60264	9
<i>effect swaps 2016</i>	Landing STECF / Initial quota	0,89	0,77	0,12	0,60	0,68	0,54	#DIV/0!
	Landing STECF / Final quota	0,76	0,75	0,12	0,54	0,51	0,53	#DIV/0!
	Catches STECF / Initial quota share	1,49	0,84	0,25	1,39	1,28	0,85	#DIV/0!
	Catches STECF / Final quota	1,28	0,81	0,25	1,25	0,96	0,83	#DIV/0!
	Estimated Surplus/Deficit by Member State	1,28	0,81	0,25	1,25	0,96	0,83	#DIV/0!
	Estimated Surplus/Deficit by Member State (t)	-2464	4672	1095	-1993	2503	6141	-9
Choke Category 2 (Regional) or 3 (Biological)?								
Indicate:								
- Mainly target, by-catch fisheries or both		T/B	T	B	T	T/B	B	B
- Main sources of unwanted catches		BT2				BT2		

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 ICES 2015 advice area 7.e-k
<http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2015/2015/cod-7e-k.pdf>

catch options:
 Not quantified because of variable discard rates in the recent past.

Table 5.3.10.8 Cod in Divisions VIIe-k. Catch distribution by fleet in 2014 as estimated by ICES:

64 % : otter trawl
 17% : beam trawl
 16%: seine
 0% : gillnets
 2%: other

Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown										
	Closed/Restricted Areas	N	N	N	N	N	N	N			Plaice box is already in place, but not deemed very effective. Given the good situation of the stock, new restricted areas are highly unlikely nor useful	
	Real Time Closures (for juveniles and/or spawning aggregations)	N	N	N	N	N	N	N				
Selectivity	Voluntary avoidance actions	Y	Y	Y	Y	Y	Y	Y				
	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown										
	Size selectivity - Increasing codend mesh size	Y	Y	Y	Y	Y	Y	Y	Yes, especially in BT2, loss of sole catches			
	- Escape panels	N	N	N	N	N	N	N	in nephrops			
	Species Selectivity - Sorting devices	Y	Y	N	Y	Y	Y	N	lower catch of plaice in comparison with sole in pulse fishery			
Quota	- Trawl modifications e.g. cutaway trawls, raised footrope	N	N	N	N	Y	N	N				
	- Behavioural response	Y	Y	Y	Y	Y	Y	Y			Only a possible solution on the long term, more insights are needed.	
Exemptions	Indicate how much relief exemptions will provide:	"Y" for yes, "N" for no, "?" for 0-TAC, "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits										
	Swapping	Y	N	N	Y	Y	Y	Y				
	Interspecies Flexibility	Y	Y	Y	Y	Y	Y	Y				
	Others Quota	N	N	N	N	N	N	N				
	Remove TAC	N	N	N	N	N	N	N				
Exemptions	Merge TAC regions	N	N	N	N	N	N	N				
	High survival <i>de minimis</i> (based on single TAC)	Y	Y	Y	Y	Y	Y	Y		Already in place for potts and fykes		
	<i>de minimis</i> (based on combined TACs)	Y	?	Y	N	?	N	N				

General conclusions:	Large number of bycatch undersized plaice in BT2. Possible lowering of the TAC in the future is a serious threat. Swapping is an important mitigation tool, should be flexible in the future. Several trials on high survivability (UK, DK, BE, NL); could solve any potential chokes if the outcomes are promising. Mixed opinions on combined <i>de minimis</i> .
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?

*** Responsibility for this action :**
 Individual vessels
 Producer Organisation (PO)
 Member States: avoid chokes
 Regional Member States
 European Commission
 Council of Ministers
 Co-decision

2016 PLAICE sk (PLE/03AN)

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	11531							
Union TAC + 0,0% uplift	11531							
<i>baseline</i>	Initial quota share 2016 (%)	0,00	79,45	0,00	0,41	15,28	0,00	4,26
	Initial quota 2016 (t)	0	9161	0	47	1762	0	491
<i>potential ammendments</i>	Final quota 2016 (After banking and Special conditions)	0	9161	0	44	1762	0	491
<i>STECF data</i>	Reported landings 2016 (t)	0	5849,39	217,64	14	1482,449	0	217,64
	Reported discards 2016 (t)	0	434,95	125,63	0,24	18,33	0	125,63
	Discard rates 2016 (%)	0%	7%	37%	2%	1%	0%	37%
	Total catch 2016 (t)	8486	6284	343	14	1501	0	343

<i>effect swaps 2016</i>		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
	Landing STECF / Initial quota	#DIV/0!	0,64	#DIV/0!	0,30	0,84	#DIV/0!	0,44
	Landing STECF / Final quota	#DIV/0!	0,64	#DIV/0!	0,32	0,84	#DIV/0!	0,44
	Catches STECF / Initial quota share	#DIV/0!	0,69	#DIV/0!	0,30	0,85	#DIV/0!	0,70
	Catches STECF / Final quota	#DIV/0!	0,69	#DIV/0!	0,32	0,85	#DIV/0!	0,70
	Estimated Surplus/Deficit by Member State	#DIV/0!	0,69	#DIV/0!	0,32	0,85	#DIV/0!	0,70
	Estimated Surplus/Deficit by Member State (t)	0	2877	-343	30	261	0	148

Choke Category 2 (Regional) or 3 (Biological)?
Indicate:
- Mainly target, by-catch fisheries or both
- Main sources of unwanted catches

2

Vandamme, Sara:
ICES 2015 advice area 7.e-k
<http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2015/2015/cod-7e-k.pdf>

catch options:
Not quantified because of variable discard rates in the recent past.

Table 5.3.10.8 Cod in Divisions VIIe-k. Catch distribution by fleet in 2014 as estimated by ICES:

64 % : otter trawl
17% : beam trawl
16%: seine
0% : gillnets
2%: other



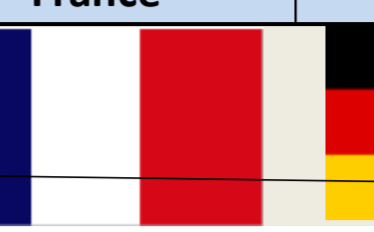

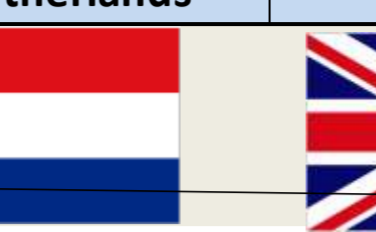

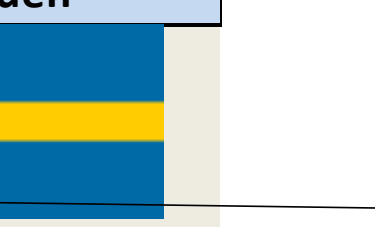
Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown		
	Closed/Restricted Areas			
	Real Time Closures (for juveniles and/or spawning aggregations)			
	Voluntary avoidance actions			
Selectivity	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown		
	Size selectivity - Increasing codend mesh size			
	- Escape panels			
	Species Selectivity - Sorting devices			
Quota	- Trawl modifications e.g. cutaway trawls, raised footrope			
	- Behavioural response			
	Swapping	"Y" for yes, "N" for no, "?", "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits		
	Interspecies Flexibility			
Exemptions	Others Quota			
	Remove TAC			
	Merge TAC regions			
	Merge TAC regions			
Exemptions	Indicate how much relief exemptions will provide:	"Y" for yes, "N" for no, "?", "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)		
	High survival			
	de minimis (based on single TAC)			
	de minimis (based on combined TACs)			

General conclusions:								
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?							

* Responsibility for this action :
Individual vessels
Producer Organisation (PO)
Member States: avoid chokes
Regional Member States
European Commission
Council of Ministers
Co-decision

2016 PLAICE KG

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	2347							
	2347							
<i>baseline</i>	Initial quota share 2016 (%)	0,00	0,00	0,00	0,98	0,00	0,00	20,92
	Initial quota 2016 (t)	0	0	0	23	0	0	491
<i>potential ammendments</i>	Final quota 2016 (After banking and Special conditions)	0	0	0	23	0	0	594
<i>STECF data</i>	Reported landings 2016 (t)	0	0	0	1	0	0	121,2
	Reported discards 2016 (t)	0	0	0	0	0	0	130,4
	Discard rates 2016 (%)	0%	#DIV/0!	#DIV/0!	0%	#DIV/0!	0%	52%
	Total catch 2016 (t)	253	0	0	1	0	0	252

<i>effect swaps 2016</i>		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
	Landing STECF / Initial quota	#DIV/0!	#DIV/0!	#DIV/0!	0,04	#DIV/0!	#DIV/0!	0,25
	Landing STECF / Final quota	#DIV/0!	#DIV/0!	#DIV/0!	0,04	#DIV/0!	#DIV/0!	0,20
	Catches STECF / Initial quota share	#DIV/0!	#DIV/0!	#DIV/0!	0,04	#DIV/0!	#DIV/0!	0,51
	Catches STECF / Final quota	#DIV/0!	#DIV/0!	#DIV/0!	0,04	#DIV/0!	#DIV/0!	0,42
	Estimated Surplus/Deficit by Member State	#DIV/0!	#DIV/0!	#DIV/0!	0,04	#DIV/0!	#DIV/0!	0,42
	Estimated Surplus/Deficit by Member State (t)	0	0	0	22	0	0	342

Choke Category 2 (Regional) or 3 (Biological)? Indicate:	
- Mainly target, by-catch fisheries or both - Main sources of unwanted catches	2

Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown		
	Closed/Restricted Areas			
	Real Time Closures (for juveniles and/or spawning aggregations)			
	Voluntary avoidance actions			

Selectivity	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown		
	Size selectivity - Increasing codend mesh size			
	- Escape panels			
	Species Selectivity - Sorting devices			
	- Trawl modifications e.g. cutaway trawls, raised			
	footrope			
	- Behavioural response			

Quota	Swapping	"Y" for yes, "N" for no, "?", "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits		
	Interspecies Flexibility			
	Others Quota			
	Remove TAC			
	Merge TAC regions			



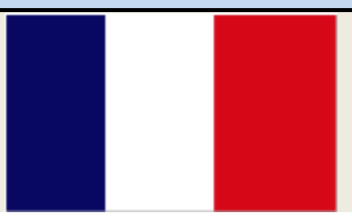




Exemptions	Indicate how much relief exemptions will provide:	"Y" for yes, "N" for no, "?", "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)		
	High survival			
	de minimis (based on single TAC)			
	de minimis (based on combined TACs)			

General conclusions:							
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?						

Vandamme, Sara
 ICES 2015 advice area 7.e-k
<http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2015/2015/cod-7e-k.pdf>
 catch options:
 Not quantified because of variable discard rates in the recent past.
 Table 5.3.10.8 Cod in Divisions VIIe-k. Catch distribution by fleet in 2014 as estimated by ICES:
 64 % : otter trawl
 17% : beam trawl
 16%: seine
 0% : gillnets
 2%: other

* Responsibility for this action :
 Individual vessels
 Producer Organisation (PO)
 Member States: avoid chokes
 Regional Member States
 European Commission
 Council of Ministers
 Co-decision

2016 Turbot and Brill NS (T/B.2ac4-c)

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	4488							
Union TAC + uplift 0,0%	4488							
baseline	Initial quota share 2016 (%)	7,33	15,66	1,89	4,01	55,55	15,44	0,11
	Initial quota 2016 (t)	329	703	85	180	2493	693	5
potential ammendments	Final quota 2016 (After banking and Special conditions)	329	703	85	363	2551	839	5
STECF data	Reported landings 2016 (t)	514	541,75	38,37	266	2737,636	562	0,44
	Reported discards 2016 (t)	238,05	2,08	0,17	54	951	102	0,01
	Discard rates 2016 (%)	32%	0%	0%	17%	26%	15%	2%
	Total catch 2016 (t)	6008	752	544	39	3689	664	0

effect swaps 2016		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
	Landing STECF / Initial quota	1,56	0,77	0,45	1,48	1,10	0,81	0,09
	Landing STECF / Final quota	1,56	0,77	0,45	0,73	1,07	0,67	0,09
	Catches STECF / Initial quota share	2,29	0,77	0,45	1,78	1,48	0,96	0,09
	Catches STECF / Final quota	2,29	0,77	0,45	0,88	1,45	0,79	0,09
	Estimated Surplus/Deficit by Member State	2,29	0,77	0,45	0,88	1,45	0,79	0,09
	Estimated Surplus/Deficit by Member State (t)	-423	159	46	43	-1137	175	5

Choke Category 2 (Regional) or 3 (Biological)? Indicate:		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
	2							
	- Mainly target, by-catch fisheries or both	WB	WB	WB	WB	WB	WB	WB
	- Main sources of unwanted catches							

Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown										
	Closed/Restricted Areas	N	N	N	N	N	N	N				
	Real Time Closures (for juveniles and/or spawning aggregations)	N	N	N	N	N	N	N				
	Voluntary avoidance actions	?	?	?	?	?	?	?				

Selectivity	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown										
	Size selectivity - Increasing codend mesh size	N	N	N	N	N	N	na (N)				
	- Escape panels	N	N	N	N	N	N	na (N)				
	Species Selectivity - Sorting devices	Y in nephrops fi	Y in nephrops	N	Y in nephrops	Y in nephrops	Y in nephrops	na (Y in nephrops)	valuable bycatch, fishermen are partly dependa	Lack of quatum	Economic impact	IND/GOV
	- Trawl modifications e.g. cutaway trawls, raised footrope	N	N	N	N	N	N	na (N)				
- Behavioural response of fish	N	N	N	N	N	N	na (N)	in nephrops				

Quota	"Y" for yes, "N" for no, "?" if unknown, "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits											
	Swapping	Y	Y	Y	Y	Y	Y	na (Y)				
	Interspecies Flexibility	N	N	N	N	N	N	na (N)				
	Others Quota											
	Bycatch Quota											
Remove TAC	Y*	?	N	Y*	?	N	na (N)	relative stability				
Merge TAC regions	N	N	N	N	N	N	na (N)					

Exemptions	Indicate how much relief exemptions will provide: "Y" for yes, "N" for no, "?" if unknown, "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)											
	High survival	?	?	?	?	?	?	na (?)	based on outcome ongoing research			
	de minimis (based on single TAC)	Y	Y	Y	Y	Y	?	na (Y)	only part of the solution			
de minimis (based on combined TACs)	Y	?	Y	N	?	N	na (?)					

General conclusions:	0										
Estimated reduction of the choke problem after "Other" mitigation actions:											

* Responsibility for this action :
 Individual vessels
 Producer Organisation (PO)
 Member States: avoid chokes
 Regional Member States
 European Commission
 Council of Ministers
 Co-decision

2016 Skates and Rays NS

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	1313							
Union TAC + uplift (0,0%)	1313							
baseline	Initial quota share 2016 (%)	16,83	0,69	2,67	0,84	14,32	64,66	0,00
	Initial quota 2016 (t)	221	9	35	11	188	849	0
potential ammendments	Final quota 2016 (After banking and carryovers)	228	9	35	52	237	849	0
	Special conditions							
STECF data	Reported landings 2016 (t)	193,47	0	40,95	11	213,286	?	0,01
	Reported discards 2016 (t)	0	489,06	22,37	0			0,08
	Discard rates 2016 (%)	0%	100%	35%	0%	0%	#VALUE!	#DIV/0!
	Total catch 2016 (t)	970	489	63	11	213	?	0

effect swaps 2016		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
	Landing STECF / Initial quota	0,88	0,00	1,17	1,00	1,13	#VALUE!	#DIV/0!
	Landing STECF / Final quota	0,85	0,00	1,17	0,21	0,90	#VALUE!	#DIV/0!
	Catches STECF / Initial quota share	0,88	54,34	1,81	1,00	1,13	#VALUE!	#DIV/0!
	Catches STECF / Final quota	0,85	54,34	1,81	0,21	0,90	#VALUE!	#DIV/0!
	Estimated Surplus/Deficit by Member State	0,85	54,34	1,81	0,21	0,90	#VALUE!	#DIV/0!
	Estimated Surplus/Deficit by Member State (t)	35	-480	-28	41	24	#VALUE!	0

Choke Category 2 (Regional) or 3 (Biological)?		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Indicate:	2				reported landings DEU to EU for 2016: 49,4 t			
- Mainly target, by-catch fisheries or both		B	B	T	B	B	B	B
- Main sources of unwanted catches								

Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species								Yes, bycatch	High concentration for certain species		
	"Y" for yes, "N" for no, "?" if unknown											
	Closed/Restricted Areas	Y	Y	Y	Y	Y	Y	Y				
	Real Time Closures (for juveniles and/or spawning aggregations)	N	N	N	N	N	N	N				
	Voluntary avoidance actions	Y	Y	Y	Y	Y	Y	Y				

Selectivity	Measures above regulatory requirements that may reduce the unwanted catch of a species								in nephrops and grids in shrimp			
	"Y" for yes, "N" for no, "?" if unknown											
	Size selectivity - Increasing codend mesh size	N	N	N	N	N	N	N				
	- Escape panels	N	N	N	N	N	N	N				
	Species Selectivity - Sorting devices	Y	Y	N	Y	Y	Y	Y				
	- Trawl modifications e.g. cutaway trawls, raised footrope	N	N	N	N	N	N	N				
	- Behavioural response	N	N	N	N	N	N	N				

Quota	"Y" for yes, "N" for no, "?", "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits								Many species, maybe for some species it would be a solution to change it into a forbidden species			
	Swapping	Y	Y	Y	Y	Y	N	Y				
	Interspecies Flexibility	N	N	N	N	N	N	N				
	Others Quota	N	N	N	N	N	N	N				
	Remove TAC	Y	Y	Y	Y	Y	Y	Y				
	Merge TAC regions	N	N	N	N	N	N	N				

Exemptions	Indicate how much relief exemptions will provide:								Noted that this is an option. Again, many species, the moment you proof high survivability for one species, you probably have to do additional research for other species			
	"Y" for yes, "N" for no, "?", "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)											
	High survival	Y	Y	Y	Y	Y	Y	Y				
	de minimis (based on single TAC)	N	N	N	N	N	N	N				
	de minimis (based on combined TACs)	N	N	N	N	N	N	N				

General conclusions:	There is a common opinion between the MS that the current management with the combined TAC (many species) isn't working. We should work towards a more species-by-species approach, which would result in a combination of avoidance, forbidden species and high survivability. Possible to start with a high survivability exemption in 2019, with an obligation to do further research on different species. A separate working group is working on a package of solutions.											
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?											

*** Responsibility for this action :**

- Individual vessels
- Producer Organisation (PO)
- Member States: avoid chokes
- Regional Member States
- European Commission
- Council of Ministers
- Co-decision

2016 Skates and Rays SK and KG

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden	
Union TAC for 2016 (t)									
		47							
baseline		0,00	78,72	0,00	0,00	0,00	0,00	21,28	
potential ammendments		0	37	0	0	?	0	10	
Final quota 2016 (After banking and Special conditions)								10	
STECF data					0	?		0	
Reported landings 2016 (t)								44,9	
Reported discards 2016 (t)								100%	
Discard rates 2016 (%)		#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	45	
Total catch 2016 (t)		#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!		
effect swaps 2016									
Landing STECF / Initial quota		#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#VALUE!	#VALUE!	0,00	
Landing STECF / Final quota		#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	0,00	
Catches STECF / Initial quota share		#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	4,49	
Catches STECF / Final quota		#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	4,49	
Estimated Surplus/Deficit by Member State		#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	4,49	
Estimated Surplus/Deficit by Member State (t)		#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	-35	
Choke Category 2 (Regional) or 3 (Biological)? Indicate: - Mainly target, by-catch fisheries or both - Main sources of unwanted catches		2							B
									TR2;35-69mm

Vandamme, Sarah
 ICES 2015 advice area 7.e-k
<http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2015/2015/cod-7e-k.pdf>
 catch options:
 Not quantified because of variable discard rates in the recent past.
 Table 5.3.10.8 Cod in Divisions VIIe-k. Catch distribution by fleet in 2014 as estimated by ICES:
 64 % : otter trawl
 17% : beam trawl
 16%: seine
 0% : gillnets
 2%: other

Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
Avoidance				
Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species				
Closed/Restricted Areas				
Real Time Closures (for juveniles and/or spawning aggregations)				
Voluntary avoidance actions				
Selectivity				
Measures above regulatory requirements that may reduce the unwanted catch of a species				
Size selectivity - Increasing codend mesh size				
- Escape panels				
Species Selectivity - Sorting devices				
- Trawl modifications e.g. cutaway trawls, raised				
footrope				
- Behavioural response				
Quota				
Swapping				
Interspecies Flexibility				
Others Quota				
Remove TAC				
Merge TAC regions				
Exemptions				
Indicate how much relief exemptions will provide:				
High survival				
de minimis (based on single TAC)				
de minimis (based on combined TACs)				
General conclusions:				
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?			

* Responsibility for this action :
 Individual vessels
 Producer Organisation (PO)
 Member States: avoid chokes
 Regional Member States
 European Commission
 Council of Ministers
 Co-decision

2016 SOLE NS (SOL/24-C)

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	13069							
Union TAC + uplift 1,4%	13252							
<i>baseline</i>	Initial quota share 2016 (%)	8,45	3,86	1,69	6,76	76,30	4,35	0,00
	Initial quota 2016 (t)	1104	505	221	883	9971	568	0
<i>potential ammendments</i>	Final quota 2016 (After banking and Special conditions)	988	512	224	958	10466	576	0
<i>STECF data</i>	Reported landings 2016 (t)	776,8	357,94	365,91	841	9395,404	706	0
	Reported discards 2016 (t)	272,67	18,62	10,17	73	1143	69	0
	Discard rates 2016 (%)	26%	5%	3%	8%	11%	9%	NA
	Total catch 2016 (t)	14030	1049	377	914	10538	775	0

<i>effect swaps 2016</i>		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
	Landing STECF / Initial quota	0,70	0,71	1,66	0,95	0,94	1,24	#DIV/0!
	Landing STECF /Final quota	0,79	0,70	1,63	0,88	0,90	1,23	#DIV/0!
	Catches STECF / Initial quota share	0,95	0,75	1,70	1,04	1,01	1,36	#DIV/0!
	Catches STECF / Final quota	1,06	0,74	1,68	0,95	1,01	1,35	#DIV/0!
	Estimated Surplus/Deficit by Member State	1,06	0,74	1,68	0,95	1,01	1,35	#DIV/0!
	Estimated Surplus/Deficit by Member State (t)	-62	136	-152	44	-73	-199	0

Choke Category 2 (Regional) or 3 (Biological)? Indicate: - Mainly target, by-catch fisheries or both - Main sources of unwanted catches	2							
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Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown		
	Closed/Restricted Areas			
	Real Time Closures (for juveniles and/or spawning aggregations)			
	Voluntary avoidance actions			

Selectivity	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown		
	Size selectivity - Increasing codend mesh size			
	- Escape panels			
	Species Selectivity - Sorting devices			
	- Trawl modifications e.g. cutaway trawls, raised footrope			
	- Behavioural response			

Quota	Swapping	"Y" for yes, "N" for no, "?", "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits		
	Interspecies Flexibility			
	Others Quota			
	Remove TAC			
	Merge TAC regions			

Exemptions	Indicate how much relief exemptions will provide:	"Y" for yes, "N" for no, "?", "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)		
	High survival			
	de minimis (based on single TAC)			
	de minimis (based on combined TACs)			

General conclusions:	Not considered as a likely choke species			
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?			

* Responsibility for this action :
 Individual vessels
 Producer Organisation (PO)
 Member States: avoid chokes
 Regional Member States
 European Commission
 Council of Ministers
 Co-decision

2016 SOLE SK KG (SOL/3A/BCD)

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	391							
Union TAC + 0,0% uplift (?)	391							
baseline	Initial quota share 2016 (%)	0,00	83,89	0,00	4,86	8,18	0,00	3,07
	Initial quota 2016 (t)	0	328	0	19	32	0	12
potential ammendments	Final quota 2016(After banking and Special conditions)	0	328	0	21	20	0	12
STECF data	Reported landings 2016 (t)	-	69,08	-	17	15,78	-	13,5
	Reported discards 2016 (t)		0,58		0	0		7,2
	Discard rates 2016 (%)	#VALUE!	1%	#VALUE!	0%	0%	#VALUE!	35%
	Total catch 2016 (t)	#VALUE!	70	#VALUE!	17	16	#VALUE!	21
effect swaps 2016	Landing STECF / Initial quota	#VALUE!	0,21	#VALUE!	0,89	0,49	#VALUE!	1,13
	Landing STECF / Final quota	#VALUE!	0,21	#VALUE!	0,81	0,80	#VALUE!	1,13
	Catches STECF / Initial quota share	#VALUE!	0,21	#VALUE!	0,89	0,49	#VALUE!	1,73
	Catches STECF / final quota	#VALUE!	0,21	#VALUE!	0,81	0,80	#VALUE!	1,73
	Estimated Surplus/Deficit by Member State	#VALUE!	0,21	#VALUE!	0,81	0,80	#VALUE!	1,73
	Estimated Surplus/Deficit by Member State (t)	#VALUE!	258	#VALUE!	4	4	#VALUE!	-9

Choke Category 2 (Regional) or 3 (Biological)?								
Indicate: - Mainly target, by-catch fisheries or both - Main sources of unwanted catches	2							

Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown							
	Closed/Restricted Areas								
	Real Time Closures (for juveniles and/or spawning aggregations)								
Selectivity	Voluntary avoidance actions								
	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown							
	Size selectivity - Increasing codend mesh size								
	- Escape panels								
Quota	Species Selectivity - Sorting devices								
	- Trawl modifications e.g. cutaway trawls, raised footrope								
	- Behavioural response								
Exemptions	Swapping	"Y" for yes, "N" for no, "?", "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits							
	Interspecies Flexibility								
	Others Quota								
	Remove TAC								
Exemptions	Merge TAC regions								
	Indicate how much relief exemptions will provide:	"Y" for yes, "N" for no, "?", "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)							
	High survival de minimis (based on single TAC)								
	de minimis (based on combined TACs)								

General conclusions:								
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?							

* Responsibility for this action :
 Individual vessels
 Producer Organisation (PO)
 Member States: avoid chokes
 Regional Member States
 European Commission
 Council of Ministers
 Co-decision

SAITHE NS SK KG

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	31284							
Union TAC + 0,0% uplift	31284							
baseline	Initial quota share 2016 (%)	0,07	0,00	0,00	21,82	0,00	0,00	1,19
	Initial quota 2016 (t)	23	0	0	6.825	0	0	371
potential ammendments	Final quota 2016(After banking and Special conditions)	15	0	0	7169	111	0	371
								880
STECF data	Reported landings 2016 (t)	15,557	-	-	6310	110,889	8807	1225,1
	Reported discards 2016 (t)				24		11854	88,7
	Discard rates 2016 (%)	#VALUE!	#VALUE!	#VALUE!	0%	#VALUE!	57%	7%
	Total catch 2016 (t)	#VALUE!	#VALUE!	#VALUE!	6334	#VALUE!	20661	1314
effect swaps 2016	Landing STECF / Initial quota	0,68	#VALUE!	#VALUE!	0,92	#DIV/0!	#DIV/0!	3,30
	Landing STECF / Final quota	1,02	#VALUE!	#VALUE!	0,88	1,00	#DIV/0!	3,30
	Catches STECF / Initial quota share	#VALUE!	#VALUE!	#VALUE!	0,93	#VALUE!	#DIV/0!	3,54
	Catches STECF / final quota	#VALUE!	#VALUE!	#VALUE!	0,88	#VALUE!	#DIV/0!	3,54
	Estimated Surplus/Deficit by Member State	#VALUE!	#VALUE!	#VALUE!	0,88	#VALUE!	#DIV/0!	3,54
	Estimated Surplus/Deficit by Member State (t)	#VALUE!	#VALUE!	#VALUE!	835	#VALUE!	-20661	-63

Karin Linderholm:
SE quota in IV in NEZ, code (POK/04 N.)

Choke Category 2 (Regional) or 3 (Biological)?								
Indicate:								
- Mainly target, by-catch fisheries or both	2							
- Main sources of unwanted catches								

Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown						
	Closed/Restricted Areas							
	Real Time Closures (for juveniles and/or spawning aggregations)							
Selectivity	Voluntary avoidance actions							
	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown						
	Size selectivity - Increasing codend mesh size							
	- Escape panels							
	Species Selectivity - Sorting devices							
Quota	- Trawl modifications e.g. cutaway trawls, raised footrope							
	- Behavioural response							
	Swapping	"Y" for yes, "N" for no, "?", "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits						
	Interspecies Flexibility							
Exemptions	Others Quota							
	Remove TAC							
	Merge TAC regions							
Exemptions	Indicate how much relief exemptions will provide:	"Y" for yes, "N" for no, "?", "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)						
	High survival							
	de minimis (based on single TAC)							
	de minimis (based on combined TACs)							

General conclusions:								
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?							

- * Responsibility for this action :**
- Individual vessels
 - Producer Organisation (PO)
 - Member States: avoid chokes
 - Regional Member States
 - European Commission
 - Council of Ministers
 - Co-decision

Megrim NS

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	2639							
Union TAC + uplift 0,0%	2639							
<i>baseline</i>	Initial quota share 2016 (%)	0,30	0,00	0,00	0,27	0,00	0,00	0,00
	Initial quota 2016 (t)	8	0	0	7	0	0	0
<i>potential ammendments</i>	Final quota 2016(After banking and Special conditions)	40	0	0	8	12	0	0
<i>STECF data</i>	Reported landings 2016 (t)	1,107	-	-	0	1,674	1350	0
	Reported discards 2016 (t)				0		92	0
	Discard rates 2016 (%)	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#VALUE!	6%	NA
	Total catch 2016 (t)	#VALUE!	#VALUE!	#VALUE!	0	#VALUE!	1442	0
<i>effect swaps 2016</i>	Landing STECF / Initial quota	0,14	#VALUE!	#VALUE!	0,00	#DIV/0!	#DIV/0!	#DIV/0!
	Landing STECF / Final quota	0,03	#VALUE!	#VALUE!	0,00	0,14	#DIV/0!	#DIV/0!
	Catches STECF / Initial quota share	#VALUE!	#VALUE!	#VALUE!	0,00	#VALUE!	#DIV/0!	#DIV/0!
	Catches STECF / final quota	#VALUE!	#VALUE!	#VALUE!	0,00	#VALUE!	#DIV/0!	#DIV/0!
	Estimated Surplus/Deficit by Member State	#VALUE!	#VALUE!	#VALUE!	0,00	#VALUE!	#DIV/0!	#DIV/0!
	Estimated Surplus/Deficit by Member State (t)	#VALUE!	#VALUE!	#VALUE!	8	#VALUE!	-1442	0

Choke Category 2 (Regional) or 3 (Biological)? Indicate: - Mainly target, by-catch fisheries or both - Main sources of unwanted catches	2							
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Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown						
	Closed/Restricted Areas							
	Real Time Closures (for juveniles and/or spawning aggregations)							
	Voluntary avoidance actions							

Selectivity	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown						
	Size selectivity - Increasing codend mesh size							
	- Escape panels							
	Species Selectivity - Sorting devices							
	- Trawl modifications e.g. cutaway trawls, raised							
	footrope							
	- Behavioural response							

Quota	"Y" for yes, "N" for no, "?", "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits							
	Swapping							
	Interspecies Flexibility							
	Others Quota							
	Remove TAC							
	Merge TAC regions							

Exemptions	Indicate how much relief exemptions will provide:	"Y" for yes, "N" for no, "?", "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)						
	High survival							
	de minimis (based on single TAC)							
	de minimis (based on combined TACs)							

General conclusions:								
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?							

*** Responsibility for this action :**

- Individual vessels
- Producer Organisation (PO)
- Member States: avoid chokes
- Regional Member States
- European Commission
- Council of Ministers
- Co-decision

Haddock NS

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	40655							
Union TAC + full uplift 17,3%	47688							
baseline	Initial quota share 2016 (%)	0,87	0,00	0,00	3,81	0,00	0,00	0,60
	Initial quota 2016 (t)	354	0	0	1.549	0	0	245
potential ammendments	Final quota 2016(After banking and Special conditions)	389	0	0	1598	0	0	287
								707
STECF data	Reported landings 2016 (t)	52,557	-	-	535	0	26656	117,25
	Reported discards 2016 (t)				6		5454	2,13
	Discard rates 2016 (%)	#VALUE!	#VALUE!	#VALUE!	1%	#VALUE!	17%	2%
	Total catch 2016 (t)	#VALUE!	#VALUE!	#VALUE!	541	#VALUE!	32110	119
effect swaps 2016	Landing STECF / Initial quota	0,15	#VALUE!	#VALUE!	0,35	#DIV/0!	#DIV/0!	0,48
	Landing STECF / Final quota	0,14	#VALUE!	#VALUE!	0,33	#DIV/0!	#DIV/0!	0,41
	Catches STECF / Initial quota share	#VALUE!	#VALUE!	#VALUE!	0,35	#VALUE!	#DIV/0!	0,49
	Catches STECF / final quota	#VALUE!	#VALUE!	#VALUE!	0,34	#VALUE!	#DIV/0!	0,42
	Estimated Surplus/Deficit by Member State	#VALUE!	#VALUE!	#VALUE!	0,34	#VALUE!	#DIV/0!	0,42
	Estimated Surplus/Deficit by Member State (t)	#VALUE!	#VALUE!	#VALUE!	1057	#VALUE!	-32110	875

Karin Linderholm:
SE quota in IV in NEZ, code (HAD/04-N.)

Choke Category 2 (Regional) or 3 (Biological)?	
Indicate: - Mainly target, by-catch fisheries or both - Main sources of unwanted catches	2

Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown							
	Closed/Restricted Areas								
	Real Time Closures (for juveniles and/or spawning aggregations)								
Selectivity	Voluntary avoidance actions								
	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown							
	Size selectivity - Increasing codend mesh size								
	- Escape panels								
Quota	Species Selectivity - Sorting devices								
	- Trawl modifications e.g. cutaway trawls, raised footrope								
	- Behavioural response								
Exemptions	Swapping	"Y" for yes, "N" for no, "?", "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits							
	Interspecies Flexibility								
	Others Quota								
	Remove TAC								
Exemptions	Merge TAC regions								
	Indicate how much relief exemptions will provide:	"Y" for yes, "N" for no, "?", "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)							
	High survival								
	de minimis (based on single TAC)								
	de minimis (based on combined TACs)								

General conclusions:	
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?

* Responsibility for this action :
 Individual vessels
 Producer Organisation (PO)
 Member States: avoid chokes
 Regional Member States
 European Commission
 Council of Ministers
 Co-decision

Haddock SK KG

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	3761							
Union TAC + unknown uplift %	3761							
baseline	Initial quota share 2016 (%)	0,51	0,00	0,00	5,34	0,00	0,00	9,94
	Initial quota 2016 (t)	19	0	0	201	0	0	374
potential ammendments	Final quota 2016(After banking and Special conditions)	0	0	0	214	92	0	374
STECF data	Reported landings 2016 (t)	0	-	-	123	90,705	-	129,1
	Reported discards 2016 (t)				1			20,4
	Discard rates 2016 (%)	#VALUE!	#VALUE!	#VALUE!	1%	#VALUE!	#VALUE!	14%
	Total catch 2016 (t)	#VALUE!	#VALUE!	#VALUE!	124	#VALUE!	#VALUE!	150
effect swaps 2016	Landing STECF / Initial quota	0,00	#VALUE!	#VALUE!	0,61	#DIV/0!	#VALUE!	0,35
	Landing STECF / Final quota	#DIV/0!	#VALUE!	#VALUE!	0,57	0,99	#VALUE!	0,35
	Catches STECF / Initial quota share	#VALUE!	#VALUE!	#VALUE!	0,62	#VALUE!	#VALUE!	0,40
	Catches STECF / final quota	#VALUE!	#VALUE!	#VALUE!	0,58	#VALUE!	#VALUE!	0,40
	Estimated Surplus/Deficit by Member State	#VALUE!	#VALUE!	#VALUE!	0,58	#VALUE!	#VALUE!	0,40
	Estimated Surplus/Deficit by Member State (t)	#VALUE!	#VALUE!	#VALUE!	90	#VALUE!	#VALUE!	225

Choke Category 2 (Regional) or 3 (Biological)?								
Indicate: - Mainly target, by-catch fisheries or both - Main sources of unwanted catches	2							

Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown						
	Closed/Restricted Areas							
	Real Time Closures (for juveniles and/or spawning aggregations)							
Selectivity	Voluntary avoidance actions							
	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown						
	Size selectivity - Increasing codend mesh size							
	- Escape panels							
Quota	Species Selectivity - Sorting devices							
	- Trawl modifications e.g. cutaway trawls, raised footrope							
	- Behavioural response							
Exemptions	Swapping	"Y" for yes, "N" for no, "?", "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits						
	Interspecies Flexibility							
	Others Quota							
	Remove TAC							
Exemptions	Merge TAC regions							
	Indicate how much relief exemptions will provide:	"Y" for yes, "N" for no, "?", "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)						
	High survival							
	de minimis (based on single TAC)							
	de minimis (based on combined TACs)							

General conclusions:								
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?							

* Responsibility for this action :

- Individual vessels
- Producer Organisation (PO)
- Member States: avoid chokes
- Regional Member States
- European Commission
- Council of Ministers
- Co-decision

Anglerfish NS

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	11267							
Union TAC + uplift 0,0%	11267							
baseline	Initial quota share 2016 (%)	3,53	0,00	0,00	3,81	0,00	0,00	0,09
	Initial quota 2016 (t)	398	0	0	429	0	0	10
potential ammendments	Final quota 2016(After banking and Special conditions)	324	0	0	258	92	0	10
STECF data	Reported landings 2016 (t)	253,275	-	-	234	90,705	10405	10,18
	Reported discards 2016 (t)				0		425	0,17
	Discard rates 2016 (%)	#VALUE!	#VALUE!	#VALUE!	0%	#VALUE!	4%	2%
	Total catch 2016 (t)	#VALUE!	#VALUE!	#VALUE!	234	#VALUE!	10830	10
effect swaps 2016	Landing STECF / Initial quota	0,64	#VALUE!	#VALUE!	0,55	#DIV/0!	#DIV/0!	1,02
	Landing STECF / Final quota	0,78	#VALUE!	#VALUE!	0,91	0,99	#DIV/0!	1,02
	Catches STECF / Initial quota share	#VALUE!	#VALUE!	#VALUE!	0,55	#VALUE!	#DIV/0!	1,04
	Catches STECF / final quota	#VALUE!	#VALUE!	#VALUE!	0,91	#VALUE!	#DIV/0!	1,04
	Estimated Surplus/Deficit by Member State	#VALUE!	#VALUE!	#VALUE!	0,91	#VALUE!	#DIV/0!	1,04
	Estimated Surplus/Deficit by Member State (t)	#VALUE!	#VALUE!	#VALUE!	24	#VALUE!	-10830	0

Choke Category 2 (Regional) or 3 (Biological)?
Indicate:
 - Mainly target, by-catch fisheries or both
 - Main sources of unwanted catches

2




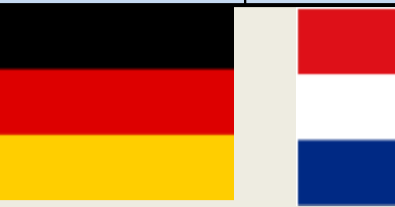



Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown							
	Closed/Restricted Areas								
	Real Time Closures (for juveniles and/or spawning aggregations)								
Selectivity	Voluntary avoidance actions								
	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown							
	Size selectivity - Increasing codend mesh size								
	- Escape panels								
Quota	Species Selectivity - Sorting devices								
	- Trawl modifications e.g. cutaway trawls, raised footrope								
	- Behavioural response								
Exemptions	Swapping	"Y" for yes, "N" for no, "?", "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits							
	Interspecies Flexibility								
	Others Quota								
	Remove TAC								
Exemptions	Merge TAC regions								
	Indicate how much relief exemptions will provide:	"Y" for yes, "N" for no, "?", "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)							
	High survival de minimis (based on single TAC)								
	de minimis (based on combined TACs)								

General conclusions:									
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?								

*** Responsibility for this action :**
 Individual vessels
 Producer Organisation (PO)
 Member States: avoid chokes
 Regional Member States
 European Commission
 Council of Ministers
 Co-decision

2016 Horse Mackerel NS (JAX/4BC7D)

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	11650							
Union TAC + uplift 0,0%	11650							
baseline	Initial quota share 2016 (%)	0,11	47,37	3,93	4,18	28,52	11,28	0,64
	Initial quota 2016 (t)	13	5519	458	487	3323	1314	75
potential ammendments	Final quota (After banking and Special conditions)	63	6678	554	2467	3472	1590	91
STECF data	Reported landings 2016 (t)	53			1930	2945,714	438	0
	Reported discards 2016 (t)	0			46		48	0
	Discard rates 2016 (%)	0%	#VALUE!	#VALUE!	2%	#VALUE!	10%	#DIV/0!
	Total catch 2016 (t)	#VALUE!	53	#VALUE!	#VALUE!	1976	3429	486
effect swaps 2016	Landing STECF / Initial quota	4,08	#VALUE!	#VALUE!	3,96	0,89	0,33	0,00
	Landing STECF / Final quota	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
	Catches STECF / Initial quota share	4,08	#VALUE!	#VALUE!	4,06	1,03	0,37	0,00
	Catches STECF / Final quota	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
	Estimated Surplus/Deficit by Member State	0,84	#VALUE!	#VALUE!	0,80	0,99	0,31	0,00
	Estimated Surplus/Deficit by Member State (t)	10	#VALUE!	#VALUE!	491	43	1104	91

Choke Category 2 (Regional) or 3 (Biological)?								
Indicate:	2				T/B			
- Mainly target, by-catch fisheries or both								
- Main sources of unwanted catches								

Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance	Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown						
	Closed/Restricted Areas							
	Real Time Closures (for juveniles and/or spawning aggregations)							
Selectivity	Voluntary avoidance actions							
	Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown						
	Size selectivity - Increasing codend mesh size							
	- Escape panels							
Quota	Species Selectivity - Sorting devices							
	- Trawl modifications e.g. cutaway trawls, raised footrope							
	- Behavioural response							
Exemptions	Swapping	"Y" for yes, "N" for no, "?", "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits						
	Interspecies Flexibility							
	Others Quota							
	Remove TAC							
Exemptions	Merge TAC regions							
	Indicate how much relief exemptions will provide:	"Y" for yes, "N" for no, "?", "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)						
	High survival							
	de minimis (based on single TAC)							
	de minimis (based on combined TACs)							

General conclusions:								
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?							

* Responsibility for this action :

- Individual vessels
- Producer Organisation (PO)
- Member States: avoid chokes
- Regional Member States
- European Commission
- Council of Ministers
- Co-decision

Norway pout NS SK KG

Member States		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Union TAC for 2016 (t)	129000							
Union TAC +uplift 0,0%	129000							
baseline	Initial quota share 2016 (%)	0,00	0,00	0,00	0,00	0,00	0,00	0,00
	Initial quota 2016 (t)							0
potential ammendments	Final quota (After banking and Special conditions)							0
STECF data	Reported landings 2016 (t)							3,7
	Reported discards 2016 (t)							256,7
	Discard rates 2016 (%)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0%	#DIV/0!	99%
	Total catch 2016 (t)	3689	0	0	0	3429	0	260

Karin Linderholm:
We think it is important to include Norway pout as that is a choke for SE (no quota share, but unavoidable bycatch in thh fishery for Northern prawn).
We think it could be worth to consider to include all TAC-species in the tool to get the full picture. That is species such as tusk, blue ling, nephrops and pandalus.

DR 2014-2016: 97, 22, 99%

Daniel Valentinsson:
740 t landings in 2015- just 2-3 tonnes in 2014 and 2016

effect swaps 2016		Belgium	Denmark	France	Germany	The Netherlands	UK	Sweden
Landing STECF / Initial quota		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Landing STECF / Final quota		#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!
Catches STECF / Initial quota share		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Catches STECF / Final quota		#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!
Estimated Surplus/Deficit by Member State		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Estimated Surplus/Deficit by Member State (t)		0	0	0	0	-3429	0	-260
Choke Category 2 (Regional) or 3 (Biological)? Indicate:	2							B
- Mainly target, by-catch fisheries or both								
- Main sources of unwanted catches								35-69 mm (Pandalus)

Mitigation actions:	Would this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility*
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Avoidance

Enter avoidance measure beyond existing measures that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown			
Closed/Restricted Areas				?
Real Time Closures (for juveniles and/or spawning aggregations)				?
Voluntary avoidance actions				?

Selectivity

Measures above regulatory requirements that may reduce the unwanted catch of a species	"Y" for yes, "N" for no, "?" if unknown			
Size selectivity - Increasing codend mesh size				N
- Escape panels				N
Species Selectivity - Sorting devices				N
- Trawl modifications e.g. cutaway trawls, raised footrope				N
- Behavioural response				?

Quota

Swapping	"Y" for yes, "N" for no, "?", "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits			
Interspecies Flexibility				
Others Quota				
Remove TAC				
Merge TAC regions				

Exemptions

Indicate how much relief exemptions will provide:	"Y" for yes, "N" for no, "?", "0" (0-TAC) or "Little" (Discard Rate >> DM) or "sufficient" (Discard Rate < DM)			
High survival				N
de minimis (based on single TAC)				N
de minimis (based on combined TACs)				?

General conclusions:	Probable choke for SE, no quota share. Bycatch occur mainly in fisheries for Northern prawn.						
Estimated reduction of the choke problem after "Other" mitigation actions:	200% increase in TAC?						

* Responsibility for this action :
 Individual vessels
 Producer Organisation (PO)
 Member States: avoid chokes
 Regional Member States
 European Commission
 Council of Ministers
 Co-decision