# North Western Waters Choke Species Analysis NWW Member States & NWW Advisory Council October 2017

### **Executive summary**

The issue of choke species has been highlighted as the biggest single problem in implementing the landing obligation. Extensive work has been carried out by the Member Regional Groups and the Advisory Councils on the key choke species and the potential solutions to reduce the risk of fisheries being closed as a result of these species.

On the basis of this work, the North Western Waters Advisory Council (NWWAC) has developed a Choke Mitigation tool (CMT) which provides a means for the identification of choke situations for key stocks. It is designed to help assess what tools – improvements in selectivity; avoidance; quota flexibilities; and exemptions included in Article 15 of the CFP - are appropriate for individual stocks/fisheries to mitigate choke situations. It also provides a qualitative assessment of how and to what extent the available tools can reduce the deficit between catch and fishing opportunities.

Two expert workshops have been convened by the NWWAC and the NWW Regional group to work through the different stocks in the Celtic Sea, West of Scotland, the Irish Sea and Channel using the CMT. The threat of choking fisheries has been assessed for each of these stocks/fisheries and sea basins. The stocks covered were:

Celtic Sea	West of Scotland	Irish Sea	Channel
Anglerfish VII	Anglerfish VI	Cod VIIa	Cod VIId
Cod VIIb-k	Blue Ling VI and VII	Haddock VIIa	Plaice VIId,e
Haddock VIIb-k	Cod VIa	Plaice VIIa	Sole VIId
Hake VI and VII	Cod VIb	Sole VIIa	Sole VIIe
Megrim VII	Haddock VIa	Whiting VIIa	Skates and Rays VIId
Nephrops VII	Haddock VIb		
Plaice VIIf,g	Ling VI and VII		
Plaice VII h,j,k	Megrim VI		
Pollack VII	Nephrops VI		
Skates & Rays VI and VII	Saithe VI		
Sole VIIf,g	Tusk V,VI,VII		
Sole VIIh,j,k	Whiting VI		
Whiting VIIb-k			

The aim was to use this analysis to identify residual choke issues that can only be addressed at Union level with alternative measures over and above the existing tools available. The purpose of the workshop was not to predict the exact nature and extent of chokes as this will be dependent on future stock and TAC developments. The specificities of individual chokes will change over time.

Each of the stocks was classified depending on the extent of the problem as follows:

- "High risk" catches are well in excess of current fishing opportunities and even with all the available mitigation tools applied there is a high risk of choke for multiple Member States.
- "Moderate risk" catches are in excess of fishing opportunities for one or more Member States and the risk of choke is significant for these Member States but mitigation tools potentially can solve the problem.
- "Low or no apparent risk" catches are in line with fishing opportunities and the risk of choke is low or there is no apparent risk with the mitigation tools available.

The stocks were classified as a "high", "moderate" or "low" risk taken as a whole across Member States. However, a stock classified as "moderate" or "low" risk may actually be deemed to be of "high risk" to an individual Member State. Particular stocks may have specific issues unique to that Member State which may not be immediately solvable with the tools available or the Member State involved is reliant on swaps (i.e. in cases where a Member State has no quota for a particular species but has reported catches).

Based on STECF catch data from 2015 (most recently available) and implied TAC top-ups to take account of catches previously discarded, the main findings by sea basin for the different stocks using the CMT were as follows:

# Celtic Sea High Risk – catches exceed the TAC with multiple Member States impacted

Species	Member States	Relevant Mitigation	Conclusion
	Impacted	Actions	
Haddock VIIb-k	BE, ES, FR,	Improving selectivity	Significant deficit between catches
	IE, NL, UK	Avoidance	and quotas across MS
		ISF	Mitigation actions unlikely to
			prevent choking of fisheries
Skates and Rays	BE, ES, FR,	Avoidance	Significant deficit between catches
VI & VII	IE, UK	High survivability	and quotas across MS
			Mitigation actions unlikely to
			prevent choking of fisheries
Whiting VIIb-k	BE, ES, FR,	Improving selectivity	Mitigation actions likely to reduce
	IE, NL, UK	Avoidance	the risk of choking significantly
		De minimis	
Plaice VIIf,g	BE, FR, IE	High survivability	Mitigation actions likely to reduce
		Improving selectivity	the risk of choking significantly
Sole VIIf,g	BE, FR, IE	High survivability	Mitigation actions likely to reduce
		Improving selectivity	the risk significantly
		De minimis	
		ISF	

#### Moderate Risk - catches are less than TAC but for some Member States catches exceed quota

Species	Member States Impacted	Relevant Mitigation Actions	Conclusion
Hake VI & VII	ES, IE	Quota swaps Improving selectivity ISF De minimis	Mitigation actions likely to reduce the risk of choking significantly High dependence on quota swaps
Anglerfish VII	ES, IE, UK	Quota swaps De minimis	High dependence on quota swaps
Cod VIIb-k (excluding VIId)	IE, UK	Quota swaps Improving selectivity Avoidance	Mitigation actions likely to reduce the risk of choking significantly High dependence on quota swaps
Sole VIIh,j,k	BE, FR	High survivability	Mitigation actions likely to reduce

		Remove TAC	the risk of choking significantly
		Quota swaps	
Plaice VIIh,j,k	FR	High survivability	Mitigation actions likely to reduce
		Remove TAC	the risk of choking significantly
Megrim VII	UK	Quota swaps	Dependence on quota swaps

#### Low or no apparent risk - catches are below the TAC and no Member State catches exceed quota

Species	Member States	Relevant Mitigation	Conclusion
	Impacted	Actions	
Nephrops VII	IE, BE	Quota Swaps	Low risk
Pollack VII	None	NA	No apparent risk

# **West of Scotland**

#### <u>High Risk – catches exceed the TAC with multiple Member States impacted</u>

Species	Member States Impacted	Relevant Mitigation Actions	Conclusion
Cod VIa	FR, IE, UK	Improving selectivity Avoidance	Zero TAC Mitigation actions unlikely to fully resolve the issues Change in management approach required
Saithe VIa	ES, FR, NL, UK	ISF De minimis	Significant deficit between catches and quotas across MS Mitigation actions unlikely to prevent choking of fisheries
Whiting VIa	IE, NL, UK	Improving selectivity Avoidance	Mitigation actions likely to reduce the risk significantly

#### <u>Moderate Risk - catches are less than TAC but for some Member States catches exceed quota</u>

Species	Member States Impacted	Relevant Mitigation Actions	Conclusion
Anglerfish VI	IE, UK	Quota swaps De minimis	Dependence on quota swaps
Haddock VIa	ES, IE, NL ,UK	Improving selectivity Avoidance Quota swaps Inter area flexibility	Mitigation actions likely to reduce the risk of choking significantly
Haddock VIb	IE, UK	Improving selectivity ISF De minimis	Mitigation actions likely to reduce the risk of choking significantly

#### Low or no apparent risk - catches are below the TAC and no Member State catches exceed quota

Species	Member States Impacted	Relevant Mitigation Actions	Conclusion
Blue Ling V, VI &	None	NA	No apparent risk

VII			
Cod VIb	None	NA	No apparent risk
Ling V, VI, VII	None	NA	No apparent risk
Megrim VI	IE	Quota swaps	Low risk
Nephrops VI	None	NA	No apparent risk
Tusk V, VI, VII	ES	Quota swaps	Low risk

# **Irish Sea**

## <u>High Risk – catches exceed the TAC with multiple Member States impacted</u>

Species	Member States	Relevant Mitigation	Conclusion
	Impacted	Actions	
Cod VIIa	BE, IE, UK	Improving selectivity	Mitigation actions likely to reduce
		Avoidance	the risk of choking significantly
Whiting VIIa	BE, IE, UK	Improving selectivity	Significant deficit between catches
		Removal of TAC	and quotas across MS
			Mitigation actions unlikely to
			prevent choking of fisheries

#### Moderate Risk - catches are less than TAC but for some Member States catches exceed quota

Species	Member States Impacted	Relevant Mitigation Actions	Conclusion
Haddock VIIa	UK	Improving selectivity ISF	Mitigation actions likely to reduce the risk of choking significantly
Sole VIIa	BE	High survivability De minimis Avoidance	Mitigation actions likely to reduce the risk of choking significantly

#### Low or no apparent risk - catches are below the TAC and no Member State catches exceed quota

Species	Member States Impacted	Relevant Mitigation Actions	Conclusion
Plaice VIIa	BE	Quota swaps	Low risk

# **Channel**

#### <u>High Risk – catches exceed the TAC with multiple Member States impacted</u>

Species	Member States	Relevant Mitigation	Conclusion	
	Impacted	Actions		
Plaice VIId, e	BE, FR, NL, UK	Improving selectivity	TAC uplift in 2016/2017 has	
		High survivability	largely removed choke risk	
		Inter area flexibility		
Skates & Rays	BE, FR, UK	Avoidance measures	Significant deficit between catches	
VIId		High survivability	and quotas across MS	
			Mitigation actions unlikely to	
			prevent choking of fisheries	

#### Moderate Risk - catches are less than TAC but for some Member States catches exceed quota

Species	Member States Impacted	Relevant Mitigation Actions	Conclusion
Sole VIId	BE	High survivability De minimis Inter area flexibility	Mitigation actions likely to reduce the risk of choking significantly
Sole VIIe	BE	High survivability De minimis Inter area flexibility	Mitigation actions likely to reduce the risk of choking significantly

#### Low or no apparent risk - catches are below the TAC and no Member State catches exceed quota

Species	Member States Impacted	Relevant Mitigation Actions	Conclusion
Cod VIId	None	ISF	Low risk

#### **Additional Issues**

- Bycatches of demersal stocks in pelagic fisheries and bycatches of pelagic species in demersal species, which are in some cases are poorly documented have also been identified as adding to the risk of choke issues in the fisheries in North Western waters. Insufficient data and information on the extent of these bycatches makes assessment difficult. More (or less) fisheries could be choked depending on multiple factors relating to the fisheries and the Member States involved. Specific examples of demersal bycatch in pelagic fisheries include whiting bycatch in the Celtic Sea herring fishery and hake in the mackerel fishery. Specific examples of pelagic bycatch in demersal fisheries include horse mackerel/mackerel and boarfish in mixed demersal fisheries in the Celtic Sea and also West of Scotland as well as whiting in the Channel. A more detailed analysis using the CMT has been completed by the Pelagic Advisory Council (PELAC).
- There are 6 deep-sea stocks relevant to NWW where the risk of choking fisheries is unclear. In recent years fisheries for deep sea species have declined and there are now only a few directed fisheries for these stocks. For most Member States they are caught only as a bycatch. No evaluation using the Choke Mitigation Tool has been completed for these stocks because the STECF data is incomplete or unreliable, the level of fishery is very low or Member States do not catch their quota and traditionally swap it out. Generally for these stocks, discards, where reported, are quite low (typically less than 5%) and the TACs tend to match the actual catches indicating a low choke risk. This is not to say that there are no choke issues and it is up to the individual MS to evaluate this further. The impact of effort displacement from fisheries for deep sea species into fisheries for other species (e.g. anglerfish) need also to be considered as this may have implications for other stocks where the risk is assessed currently as low to moderate.
- The workshops have also identified 24 stocks in NWW for which a particular Member State or a group of Member States have no quota. While ES are the Member State most impacted, BE, DE, FR IE, NL and UK are also affected. The workshops found that for around 9 to 10 of these species the risk of such species choking fisheries is moderate to high. For these stocks there is heavy reliance on swaps to reduce the choke risk.

• Spurdog or picked dogfish are currently managed under a heavily restricted TAC and they are essentially treated as a prohibited species. Under this management regime they are not a choke species although as with the deep-sea species this is not to say that there will not be choke issues with this stock in the future depending on how it evolves.

#### **Conclusions**

- The choke mitigation tool has proven to be an extremely useful way to identify and evaluate the risk of choke species. The results can be used to identify fisheries in which there is a high risk of residual problems that will persist without additional tools or measures over and above what is contained in the CFP and supporting legislation.
- In using the CMT, the limitations of the available discard and landing data, and the different approach by ICES and STECF to raising discard estimates should be recognised. The analysis can only indicate qualitatively there are potential problems for specific stocks and the most relevant mitigation tools to reduce the choke risk for these stocks.
- The choke species issue is complex and the exposure to the risk of choke species varies between stocks, fisheries and Member States. The NWW is characterised by many different stocks and fisheries that all interact. This dynamic system makes predicting choke situation even more difficult, and hence there is a need for further evaluation covering the high risk stocks to identify which fisheries for these stocks are particularly problematic.
- The analysis has identified 12 stocks where there is a high risk of residual choke issues. For 6 of these stocks whiting VIIb-k; sole and plaice VIIf,g; whiting VI, cod VIIa; plaice VIId,e the available measures and tools will significantly reduce the choke risk provide they are used appropriately. For the other 6 stocks haddock VIIb-k, skates and rays VI and VII, cod VIa, saithe VI, whiting VIIa and skates and rays VIId,e additional measures or a different management approach is likely to be required to prevent multiple fisheries from being choked.
- The analysis has identified 13 stocks where there is a moderate risk of residual choke issues for one or more Member States. The available tools and measures can significantly reduce this risk for these species. For at least 5 of these stocks the Member States impacted are reliant on swaps.
- For 10 stocks the risk of residual choke issues is low. There are further 5 stocks which were not assessed but where the risk is deemed to be low.
- In cases where there is a high risk of choking which cannot be readily solved with the available tools and measures a more detailed analysis of the likely impacts on Member States and fleets is required. Discussion between the Commission and Member States on what additional measures could be taken to reduce the risk would seem appropriate.