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WATERS
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North Western Waters Choke Species Analysis

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Discard Action Group, London, 13 February 2018

Landing Obligation – Advice for 2019



NWWAC Choke Mitigation Tool

Area 7.b-k - Haddock - All Gears										
Member States		Belgium	France	Ireland	The Netherlands	UK	Spain			
Union TAC for 2015 (t)		8342								
Union TAC + full uplift 20.24% (ICES discard rate 2015)		11262								
baseline	Initial quota share 2015 (%)	1.11	66.66	22.22	0	10.00	0			
potential	Initial quota 2015 (t)	93	5561	1854	0	834	0			
	Quota after swap (t)	118	5761	1862	6	801	0			
STECF data	Quota 2015 + uplift 2015 (t)	126	7507	2503	0	1126	0			
	Reported landings 2015 (t)	118	5681	2205	1	769	0			
	Reported discards 2015 (t)	680	3130	3285	3	849	812			
	Discard rates 2015 (%)	85%	36%	60%	75%	52%	100%			
	Total catch 2015 (t)	17533	798	8811	5490	4	1618	812		
effect swaps 2015	Landing STECF / Initial quota	1.27	1.02	1.19		0.92				
	Landing STECF / Quota after swap	1.00	0.99	1.18	0.18	0.96				
	Catches STECF / Initial quota share	8.58	1.58	2.96		1.94				
	Catches STECF / Quota after swap	6.74	1.53	2.95	0.73	2.02				
Estimated Surplus/Deficit by Member		6	1	2		1				
Estimated Surplus/Deficit by Member		-672	-1304	-2987	-4	-492	-812			
Choke Category 2 (Regional) or 3 (Biological)? Indicate: - Mainly target, by-catch fisheries or both - Main sources of unwanted catches	3	BYCATCH 97% - BT2	BOTH 72% - TR1 28% - TR2	BOTH 54% - TR1 14% - BT2	BYCATCH 100% - TR2	BYCATCH 52% - TR1 18% - TR2	BYCATCH 100% - TR2			
Mitigation actions:							Must this action have an economic impact	Reason for using the action	Reason for not using the action	Responsibility
Avoidance	Enter avoidance measures 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	NA	NA	NA
	Real Time Closures (for juveniles and/or spawning aggregations)	N	Y	Y	N	Y	N	Y	Appropriate to Haddock fisheries and other fisheries where catches of haddock are minimal and sporadic	Regional Member States, individual vessels
	Voluntary avoidance actions	N	N	N	N	N	N	NA	NA	Avoidance of non-regulatory discards already observed by many fleets
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	Y	Y	Y	Y	Y	Y	Beneficial impact on Haddock and other species	Allocation to fisheries where Haddock is not the main target	
	- Escape panels	Y	Y	Y	Y	Y	Y	NA	NA	NA
	Species Selectivity - Sorting devices	N	Y	Y	Y	Y	Y	NA	NA	NA
Quota	modifications e.g. cutaway	N	Y	Y	Y	Y	N			
	- Behavioural measures	?	?	?	?	?	?			
	Swapping	N	N	N	N	N	N			
	Interspecies Flexibility	Y	Y	Y	Y	Y	Y			
Exemptions	Others Quota	?	?	?	?	?	?			
	Remove TAC	N	N	N	N	N	N			
	Merge TAC regions	N	N	N	N	N	N			
	Indicate how much relief exemption will provide	"Y" for yes, "N" for no, "?" for 0-TAC, "0" for 0-TAC, No "SBL" for stocks outside Safe Biological Limits								
Exemptions	High survival	N	N	N	N	N	N			
	de minimis (based on single TAC)	?	N	N	N	N	N			
	de minimis (based on combined TAC)	Y	Y	Y	Y	Y	Y			
Estimated remaining tonnage of choke after mitigation actions:		Removing a by-catch species like sole in this area from the TAC regime would resolve the choke situation. Similar to dab and flounder in the North Sea area.								

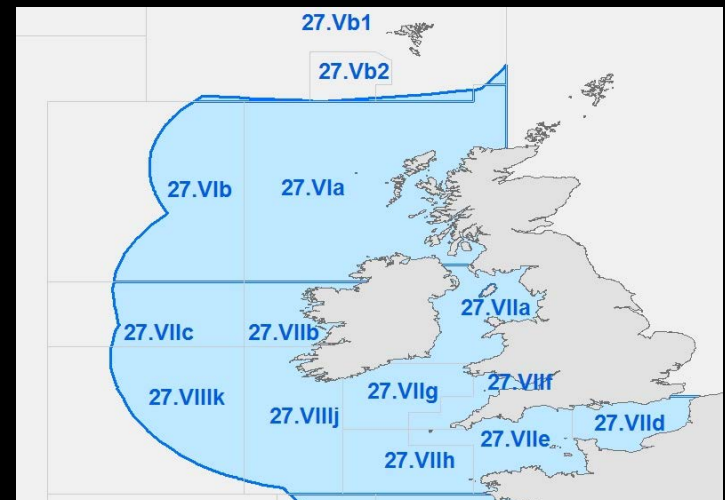
PART 1

PART 2

PART 3

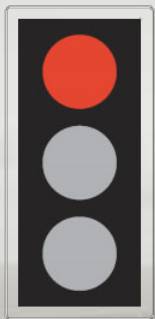
Overview of CMT analysis

- Two workshop
- 34 stocks
- 2015 and 2016 STECF data
- Other issues
 - Specific risk to pelagic fisheries
 - Deep-sea species
 - No quota
 - Restricted TAC



Classification of stocks

High risk



Moderate risk



Low risk



Catches currently exceed the TAC with multiple Member States impacted

Catches are less than TAC but for some Member States catches exceed quota

Catches are below TAC and no Member State catches exceed quota

Celtic Sea



Anglerfish 7



Megrim 7



Pollack 7



Cod 7.b-k



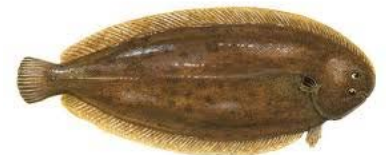
Nephrops 7



Skates & Rays 6 & 7



Haddock 7.b-k



Sole 7.fg & 7.hjk



Hake 6 & 7

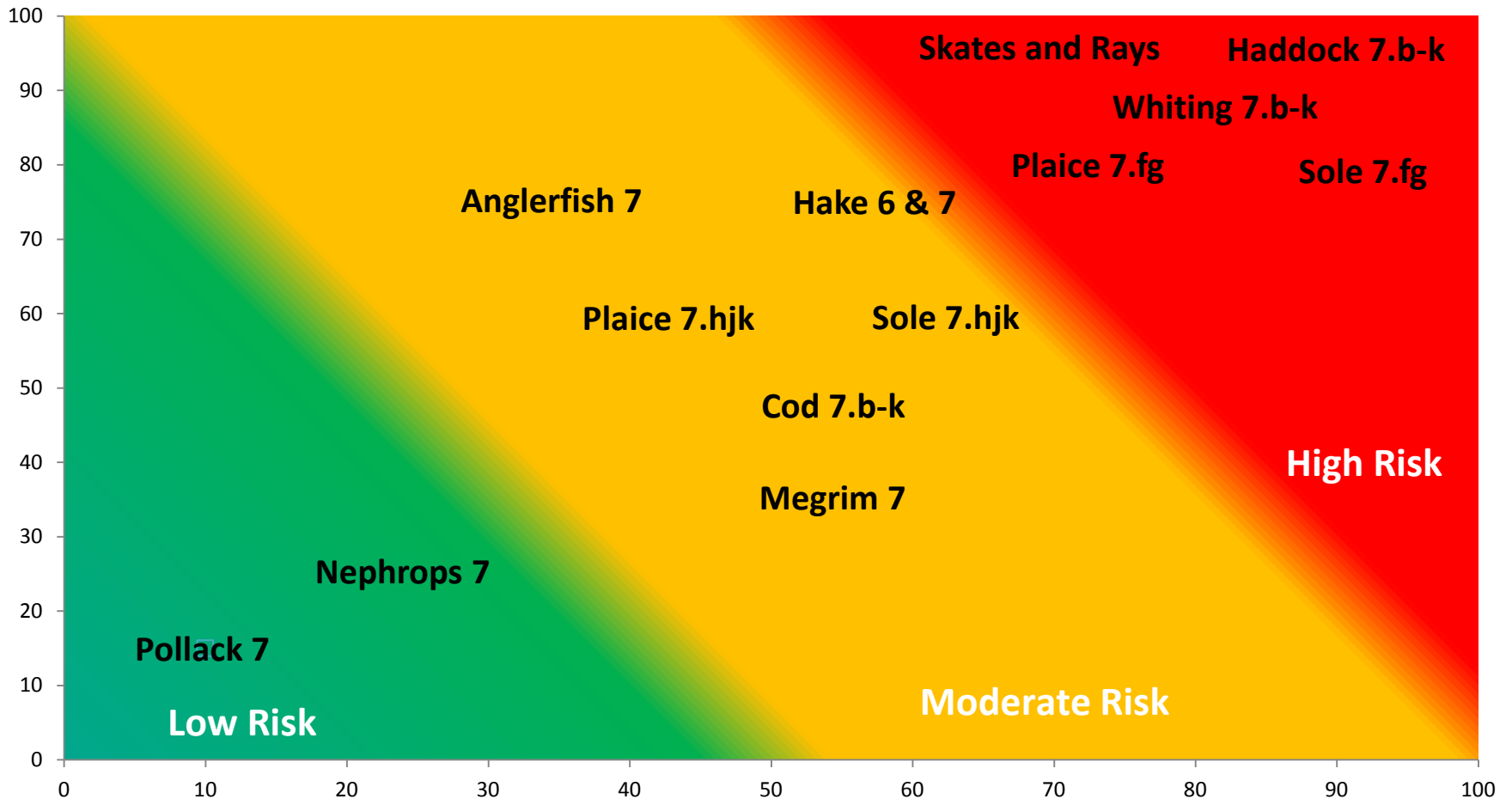


Plaice 7.fg & 7.hjk



Whiting 7.b-k

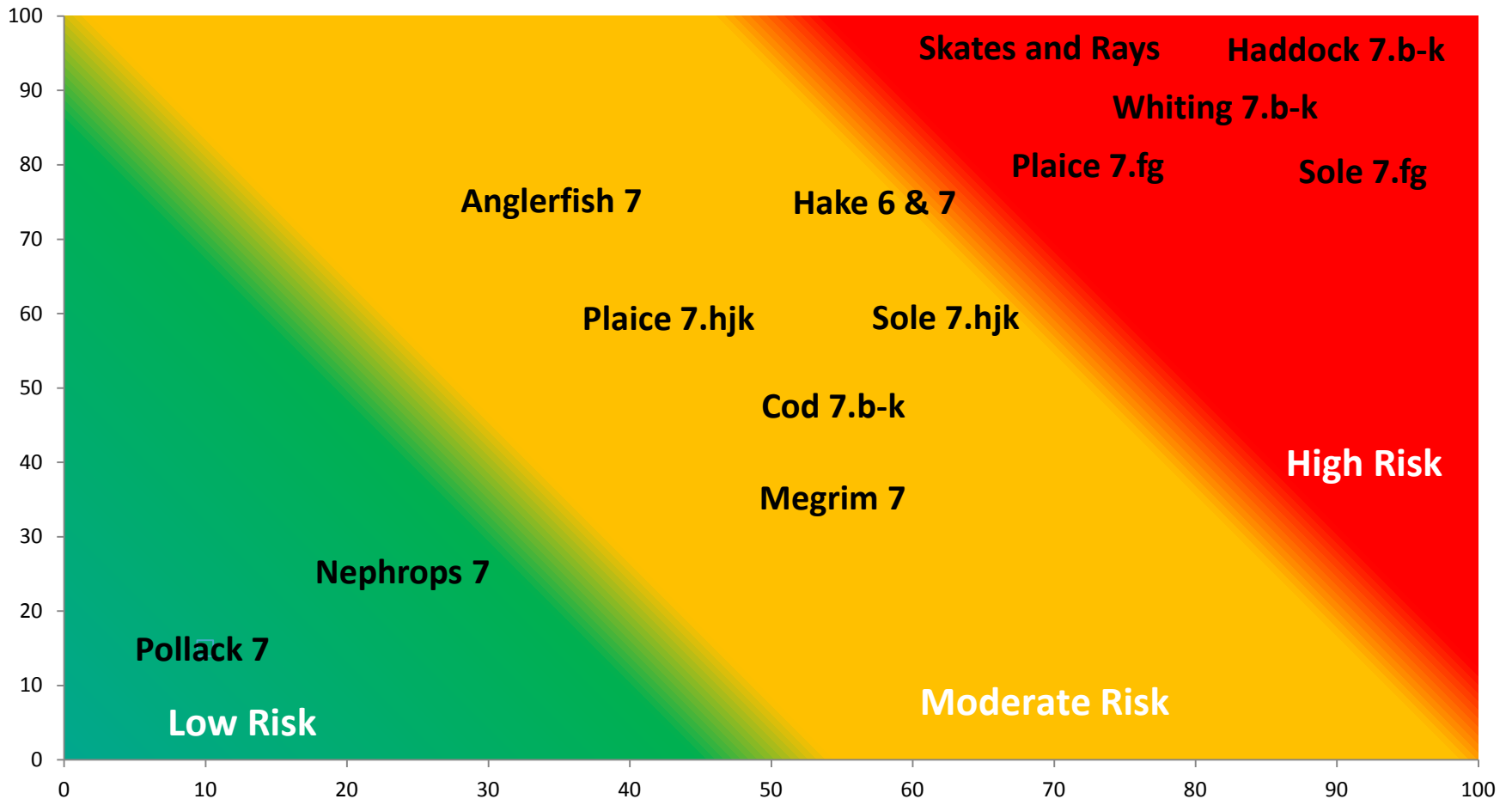
Celtic Sea – by stock



Celtic Sea – by Member State

	ANG	COD	HAD	HKE	LEZ	NEP	PLE 7.fg	PLE 7hjk	POL	SOL 7.fg	SOL 7hjk	RAJ	WHG
BE	N	N	Y	N	N	N	Y	?	N	Y	?	Y	Y
FR	N	N	Y	N	N	N	Y	?	N	Y	?	Y	Y
ES	Y	?	Y	Y	N	N	N	N	N	N	N	Y	?
IE	Y	Y	Y	Y	N	?	Y	N	N	Y	N	Y	Y
NL	N	?	?	Y	N	N	N	N	N	N	N	Y	Y
UK	Y	?	Y	N	Y	N	?	?	N	N	?	Y	N

Celtic Sea – 2015 vs 2016



West of Scotland



Saithe 6



Megrim 6



Anglerfish 6



Cod 6.a & 6.b



Nephrops 6



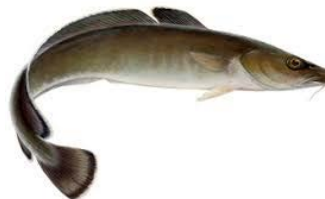
Tusk 5, 6 & 7



Haddock 6.a & 6.b



Blue Ling 6 & 7

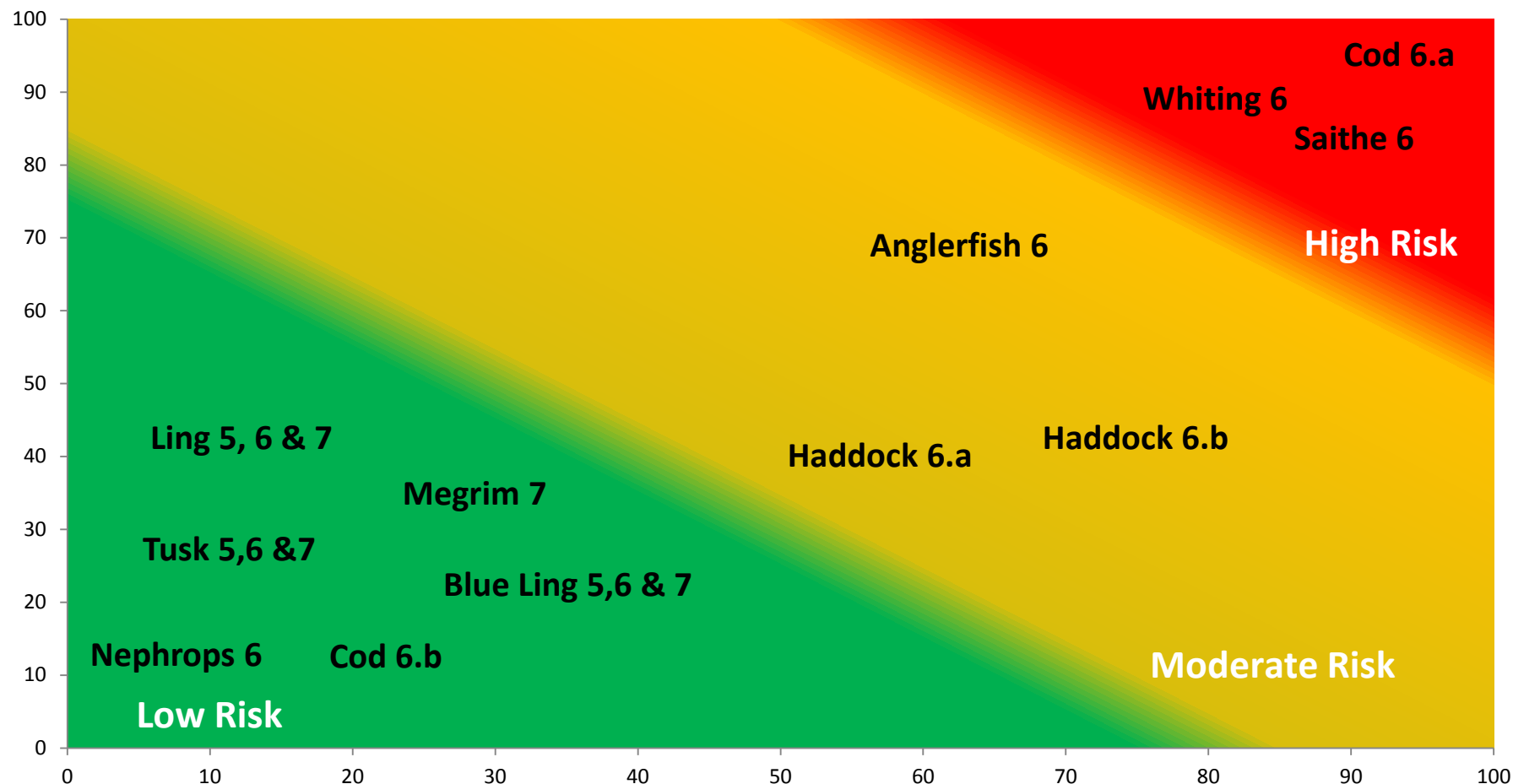


Ling 6 & 7



Whiting 6

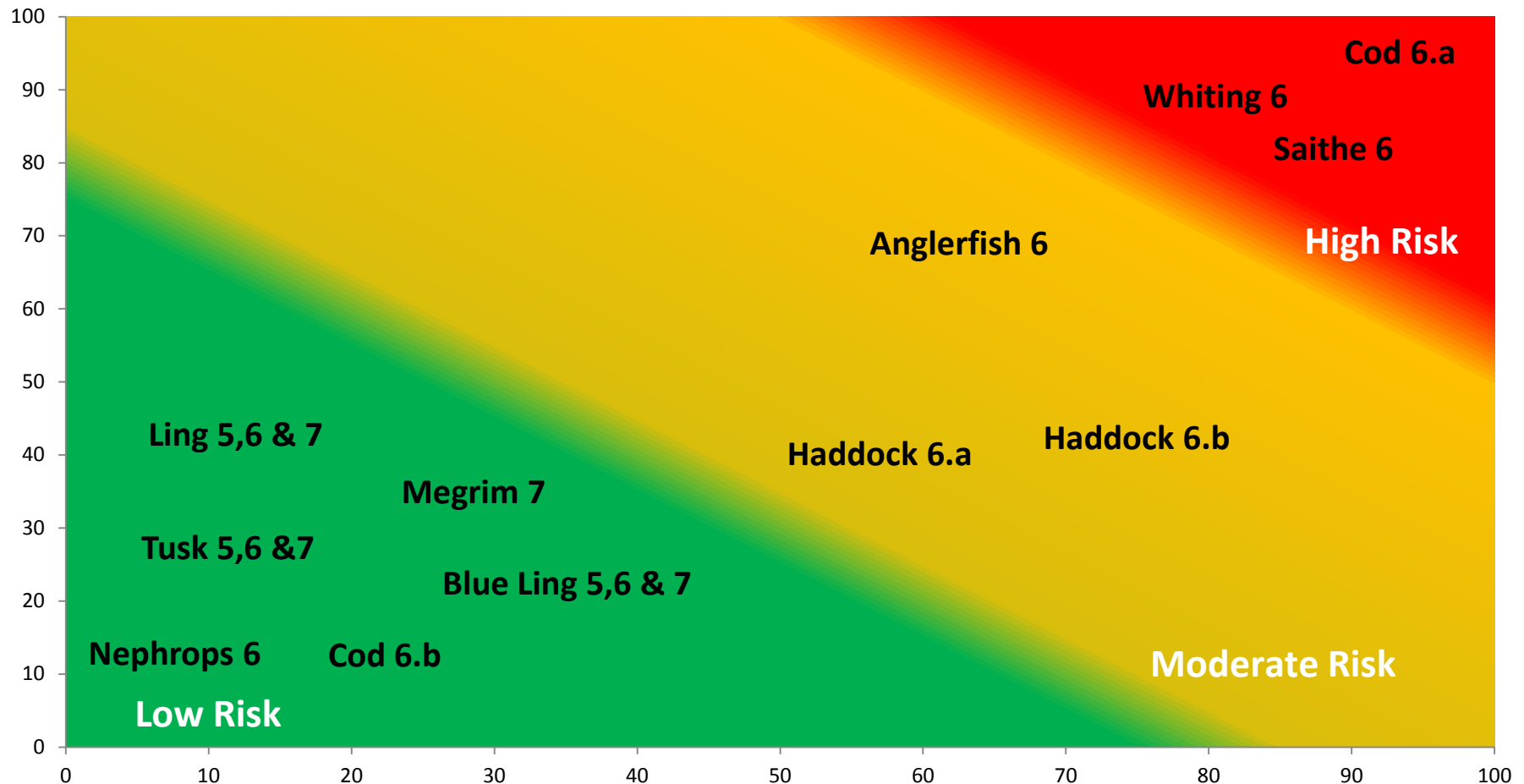
West of Scotland – by stock



West of Scotland – by Member State

	ANG	BLI	COD 6.a	COD 6.b	HAD 6.a	HAD 6.b	LEZ	LIN	NEP	POK	WHG	USK
BE	N	N	N	N	N	N	N	?	N	N	N	?
DE	N	N	N	N	N	N	N	N	N	N	N	N
FR	N	N	Y	N	N	N	N	N	N	Y	N	N
ES	N	N	?	N	Y	N	N	N	N	Y	Y	?
IE	Y	?	Y	N	Y	Y	?	?	N	N	Y	N
NL	N	N	?	N	Y	N	N	N	N	Y	Y	?
UK	Y	N	Y	N	Y	Y	N	N	N	Y	Y	N

West of Scotland – 2015 vs 2016



Irish Sea



Cod 7.a



Plaice 7.a



Sole 7.a

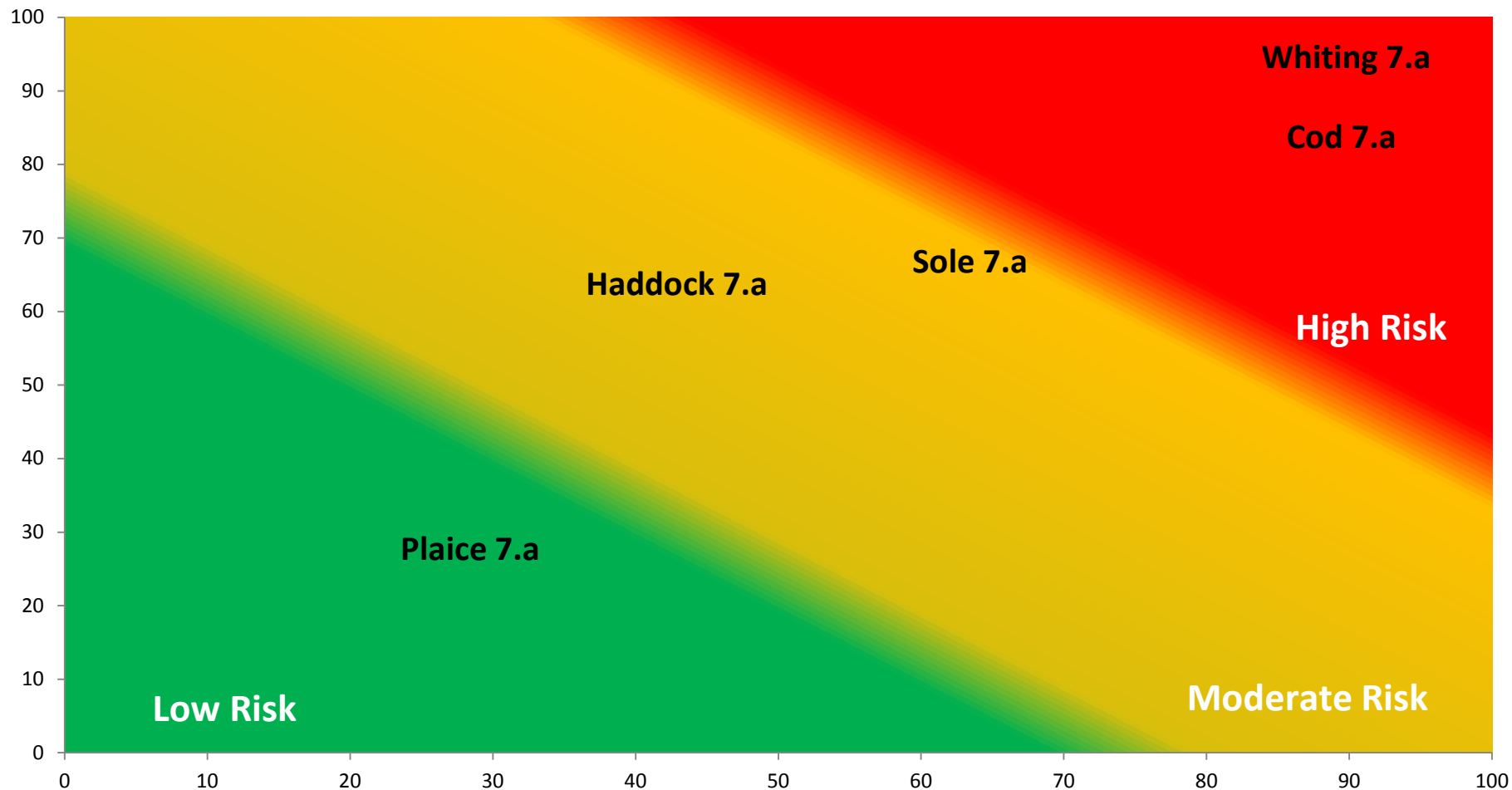


Haddock 7.a



Whiting 7.a

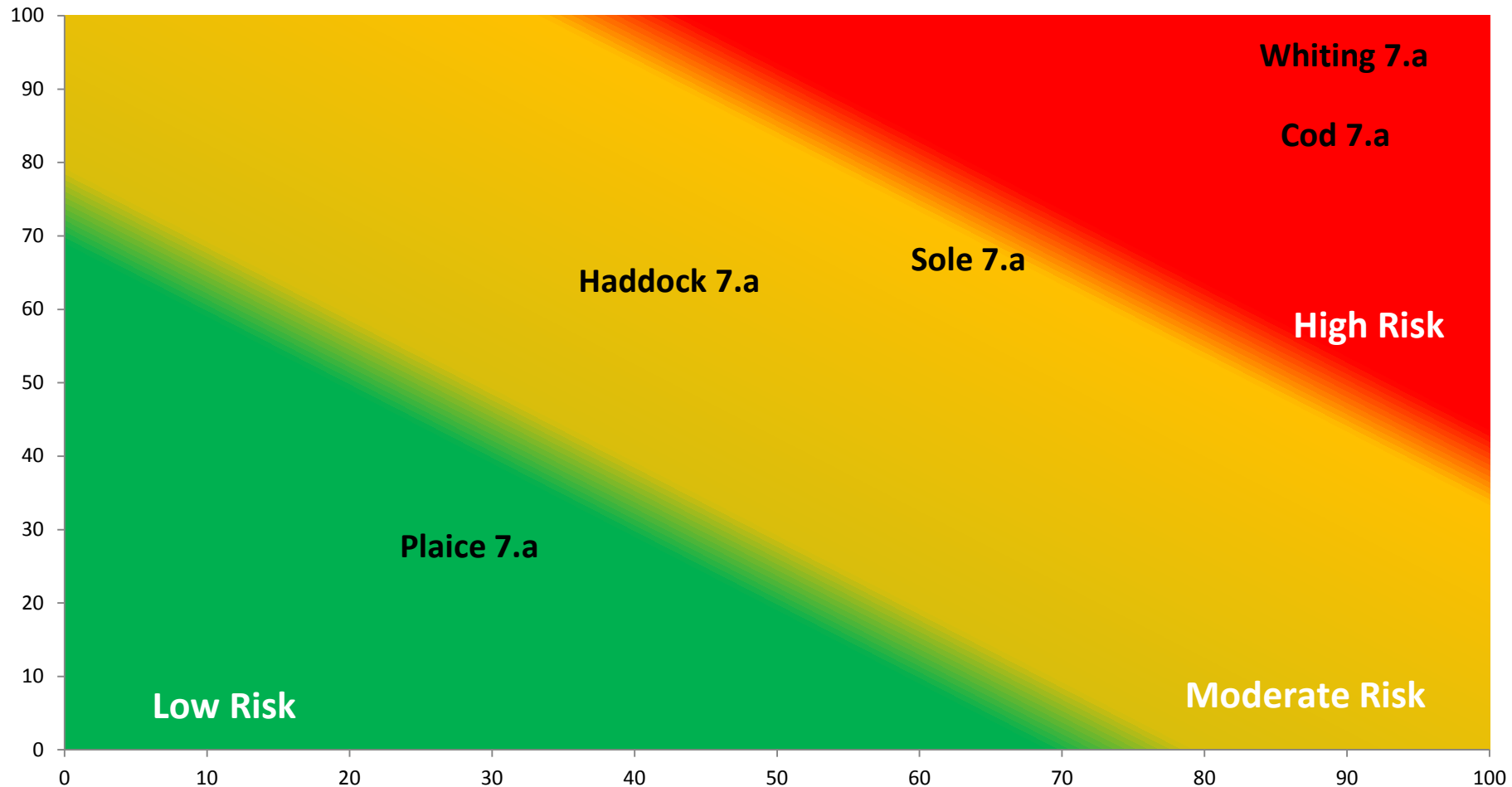
Irish Sea – by stock



Irish Sea – by Member State

	COD	HAD	PLE	SOL	WHG
BE	Y	?	Y	Y	Y
FR	N	N	N	N	N
IE	Y	?	N	?	Y
UK	Y	Y	N	?	Y

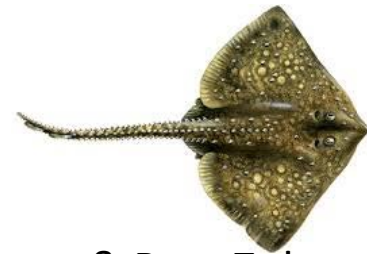
Irish Sea – 2015 vs 2016



Channel



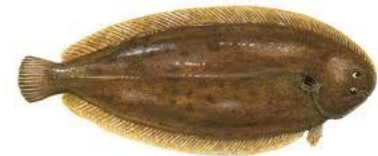
Cod 7.d



Skates & Rays 7.d

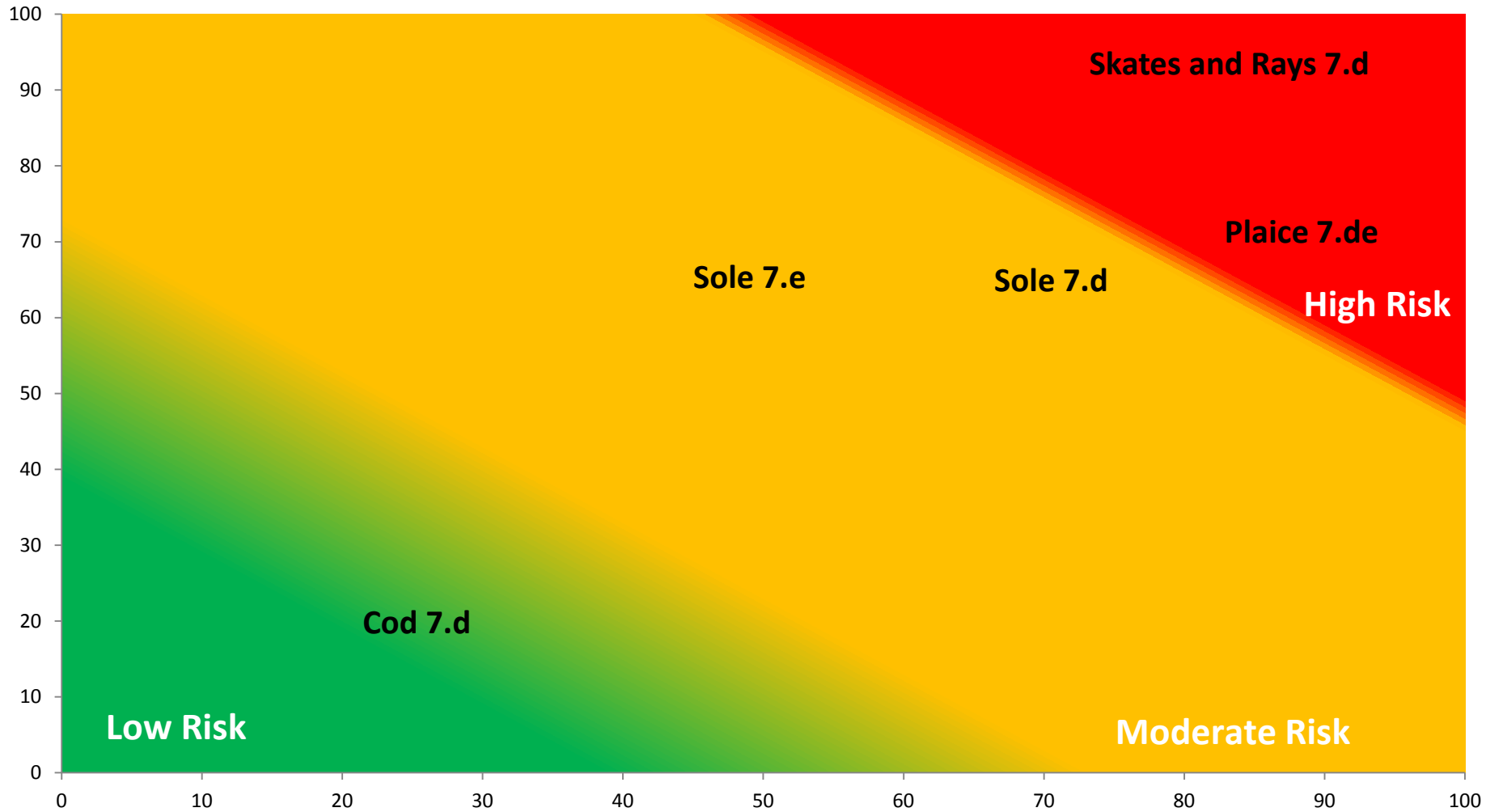


Plaice 7.de



Sole 7.de

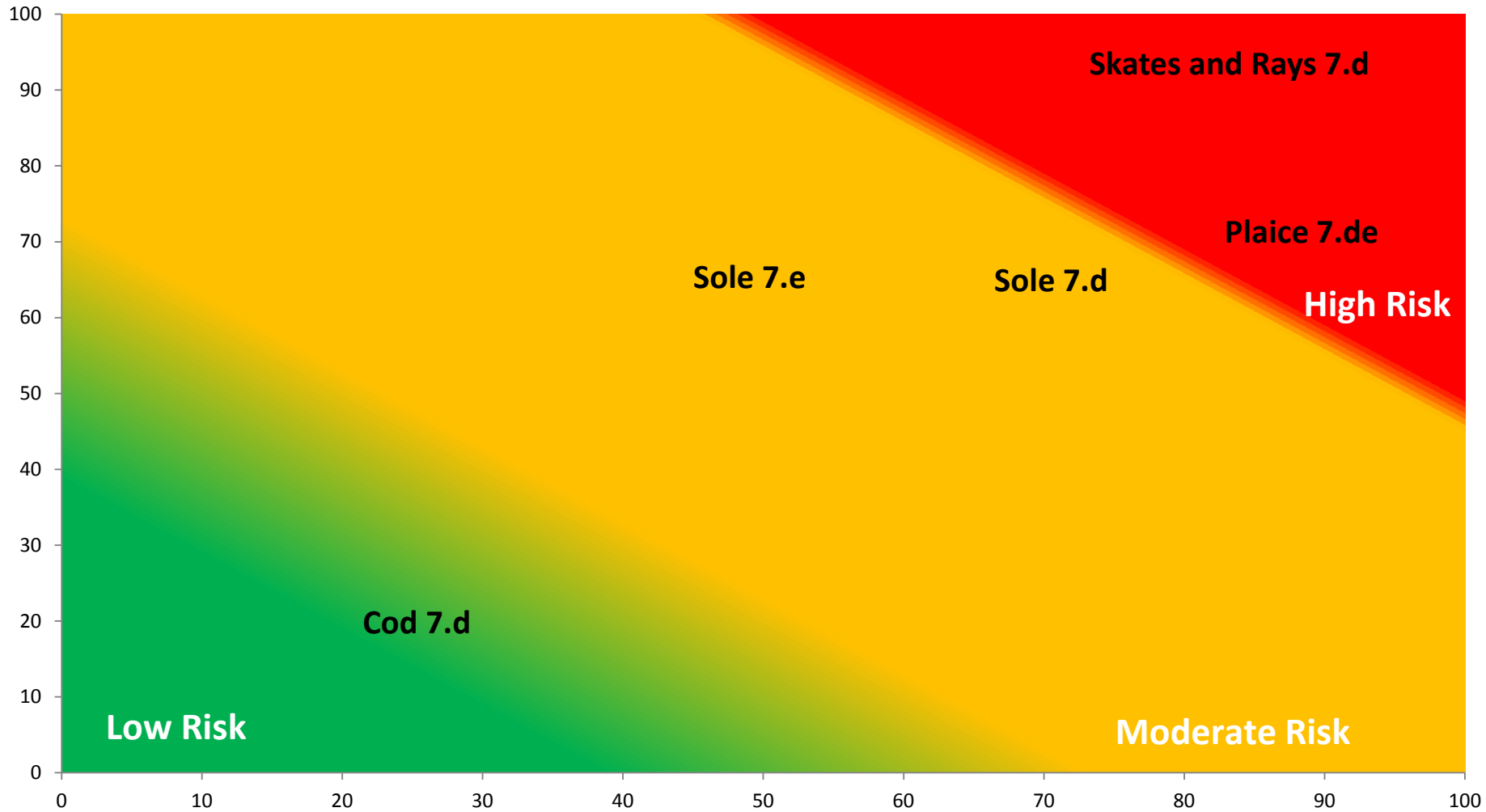
Channel – by stock



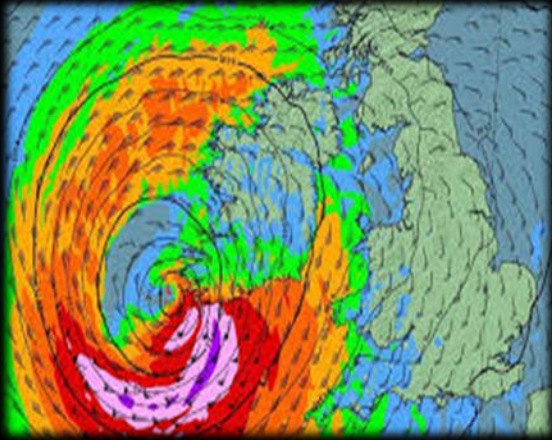
Channel – by Member State

	COD	PLE 7.de	SOL 7.d	SOL 7.e	RAJ 7.d
BE	N	Y	Y	?	Y
FR	N	Y	N	N	Y
NL	?	Y	N	N	Y
UK	?	Y	N	N	Y

Channel – 2015 vs 2016



Summary – 2015 vs 2016



2015

- 12 stocks
 - o 6 problematic
 - o 6 partially/fully solvable

2016

- 9 stocks

2015

- 13 stocks
 - o 6 partially/fully solvable
 - o 5 heavily reliant on swaps

2016

- 17 stocks

2015

- 10 stocks
- Additional 5 stocks not evaluated

2016

- 9 stocks

Summary – 2015 vs 2016

- Overall picture more or less the same
- Quality of discard data ↓
- 3 High risk stocks → moderate
 - Plaice 7.de: Benchmark 2015
 - Cod 7.a
 - Saithe 6.a

} Reduction in catches
- **Reduction in discards:** Whiting 7.a but still remains high risk
- **Significant differences between ICES and STECF**
 - Haddock 7.b-k
 - Tusk, and anglerfish: ICES discard rate 0
 - Skates and rays 7.d: reported discards 0

Conclusions

- CMT is an extremely useful tool
- Identification of residual problems per fisheries

BUT

- Not a crystal ball
- Fisheries are dynamic so predicting choke situation is difficult
- More detailed analysis of the likely impacts on MS and fleets



Next Steps

- **Conclusions COM seminar (15th November 2018)**
- **NWW MS Group**
- **STECF EWG 18-02 – selectivity in NWW fisheries**
- **NWWAC advice**
- **Other regions?**