

Council of the European Union General Secretariat

Brussels, 25 October 2019

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LIMITE

PECHE

## WORKING PAPER

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## INFORMATION

From:	General Secretariat of the Council
To:	Delegations
Subject:	Proposal for a Council Regulation fixing for 2020 the fishing opportunities for certain fish stocks and groups of fish stocks, applicable in Union waters and, for Union fishing vessels, in certain non-Union waters (13438/19+ADD1, ADD2) - Calculation Tables for 2020 Discard Plan Exemptions and Deductions.

Delegations will find attached information on the above-mentioned subject, as received from the European Commission services.

## Proposal for Atlantic and North Sea Fishing Opportunities 2020 :

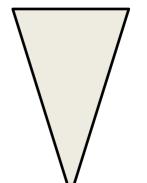
Calculation Tables for 2020 Discard Plan Exemptions and Deductions

24 October 2019

## Generalised Exemption Wording and Structure

n% of  $\Sigma$  annual catches in area x of species y of size z of Vessels (Generic type a) of segment b of mesh size c with device d

Variable	Legend	Data Source (if available) for deduction
n	% de minimis amount	JR / Delegated act
Σ	only releveant in combined deminimis (sum annual catches of several species)	ICES or STECF
х	Area or ICES division	ICES advice
у	Species (or group of species)	ICES advice
Z	< or > MCRS? Or all sizes	ICES advice
а	"Trawlers" or "Beam Trawlers" or "Gill netters" etc	ICES advice
b	TR1 or BT2 etc	FDI/STECF (if useable)
С	80-100mm or >110mm etc	FDI/STECF (if useable)
d	using Grid or other special sorting device	? SEPCON Used?



Size of deduction

Discard	Article	Туре	Species	Area	Gear	Mesh as in exemption	Relevant	Other details	In 2018?	TAC units									
Plan NWW	3a	Survival	Nephrops	6 and 7	All pots, traps, creels	all	Segment all			NEP/5BC6 NEP/07.									
NWW	3b	Survival	Nephrops	7	all bottom trawls	≥100mm	TR1			NEP/07.	NEF/07.								
NWW	3c	Survival	Nephrops	7	all bottom trawls	70-99mm	TR2			NEP/07.									
NWW	3d	Survival	Nephrops	6a	Otter Trawls only	80-110mm	all?			NEP/5BC6									
NWW	4	Survival	Sole	7d (within 6nm )	Otter Trawls, TBN and TBS	80-99mm	TR2	<mcrs under<br="">10m LOA and &lt;221 kW (and depth &lt;30m and tow 90 mins)</mcrs>		SOL/07D.									
NWW	5	Survival	Skates and Rays	6 and 7	all	all	all			SRX/67AKXD	SRX/07D.								
NWW	6a	Survival	Plaice	7d-7g	trammels		Trammels			PLE/7DE.	PLE/7FG.								
NWW	6b	Survival	Plaice	7d-7g	otter trawls		TR1-3			PLE/7DE.	PLE/7FG.								——————————————————————————————————————
NWW	6c	Survival	Plaice	7a-7k	BT2 beam trawls with flip up or benthic release	80-119 mm	BT2	>221 kW		PLE/07A.	PLE/7BC.	PLE/7DE.	PLE/7FG.	PLE/7HJK.					
NWW	6d	Survival	Plaice	7a-7k	BT2 beam trawls within 12 nm and tow <90 mins	80-119 mm	BT2	<24m LOA and ≤221 kW		PLE/07A.	PLE/7BC.	PLE/7DE.	PLE/7FG.	PLE/7HJK.					
NWW	6e	Survival	Plaice	7d	Danish Seines	all	all					PLE/7DE.							
NWW	7	Survival	All Species	5(ex 5a inc. EU 5b) 6 and 7	Pots, traps and creels	N/A	N/A			ALL!									
NWW	8a	de minimis	Whiting	7b-k	bottom trawls and seines and BT 2 beam trawls	Trawls ≥80mm Beams 80- 119 mm	TR1, TR2, BT 2	5%		WHG/7x7A-C									
NWW	8b	de minimis	Sole	7d-7g	Trammels and Gill nets	All	all Trammels and GN	3%		SOL/07D.	SOL/07E.	SOL/7FG.							
NWW	8c	de minimis	Sole	7d,e,f and g	Beam trawls plus Flemish panel	80-199 mm	BT 2	Plus Flemish panel and 3%		SOL/07D.	SOL/07E.	SOL/7FG.	SOL/7HJK						
NWW	8d	de minimis	Haddock	7b-7c and 7e- 7k	bottom trawls and seines and beam trawls	≥80mm	TR 1, TR2, BT1, BT2	5%		HAD/7x7A34									
NWW	8e	de minimis	Horse Mackerel	6 and 7b-k	bottom trawls and seines and beam trawls	All	All	7%		JAX/4BC7D	JAX/2A-14								
NWW	8f	de minimis	Mackerel	6 and 7b-k	bottom trawls and seines and beam trawls	All	All	7%		MAC/2CX14-									
NWW	8g	de minimis	Sole	7a,j,k	Beam trawls plus Flemish panel	80-199 mm	BT 2	Plus Flemish panel and 3%		SOL/07A.	SOL/7HJK.								
NWW	8h	de minimis	Megrim	7	bottom trawls and beam trawls	70-99 mm (TR2) and 80- 199 mm (BT2)	TR2 and BT2	<mcrs 5%="" but="" of<br="">all sizes Megrim</mcrs>		LEZ/07.									
NWW	8i	de minimis	Boarfish	7b,c and 7f-k	bottom trawls	all	all	0.5%		BOR/678-									
NWW	8j	de minimis	Greater Silver Smelt	5b and 6	bottom trawls	≥100mm	TR1	0.6%											
NWW	8k	de minimis	Haddock	6a	bottom trawls	<120mm	TR 1, TR2	<mcrs 3%<="" and="" td=""><td></td><td>HAD/5BC6A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>· · · · · ·</td></mcrs>		HAD/5BC6A									· · · · · ·
NWW	81	de minimis	Brown Shrimp	7a	beam trawls	≥31mm		<mcrs, 0.85%="" of<br="">plaice and 0,15% whiting in the demersal fisheries</mcrs,>											
NS	3a,b	Survival	Nephrops	2a, 3a, 4	Pots, Trawls	see exemption													
NS	4	Survival	Sole	4c (<6nm of coast, outside nursery areas)	otter trawls	80-99mm	TR2	<mcrs under<br="">10m LOA and &lt;221 kW (and depth &lt;30m and tow 90 mins)</mcrs>		SOL/24-C									
NS	5	Survival	All Species	3a and 4	Pots, and Fyke nets	N/A	N/A			ALL									
NS	6.1.a	Survival	Plaice	3a and 4	GNS,GTR,GTN, GEN	all	Set nets				PLE/03AS	PLE/03AN							
NS	6.1.b	Survival	Plaice	3a and 4	Danish Seines	all	?			DI 5 (D · 5 · · · ·	PLE/03AS	PLE/03AN	L						<u> </u>
NS NS	6.1.c 6.2.a	Survival Survival	Plaice	3a and 4 3a	OTB PTB trawls OTB PTB trawls	≥120mm 90-99mm	TR1 TR2	with coltro		PLE/2A3AX4 PLE/2A3AX4	PLE/03AS PLE/03AS	PLE/03AN PLE/03AN							
NS NS	6.2.a 6.2.b	Survival	Plaice Plaice	3a 4	OTB PTB trawls OTB PTB trawls	90-99mm 80-99mm	TR2 TR2	with seltra		PLE/2A3AX4 PLE/2A3AX4	PLE/U3AS	PLE/U3AN							
NS	7.1.a	Survival	Plaice	4 2a and 4	BT2 beam trawls with flip up or	80-119 mm	BT2	>221 kW <mcrs< td=""><td></td><td>PLE/2A3AX4 PLE/2A3AX4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></mcrs<>		PLE/2A3AX4 PLE/2A3AX4									
	-				benthic release					1				I	l	I	I		

	1						1						1						
NS	7.2	Survival	Plaice	2a and 4	BT2 beam trawls within 12 nm and tow <90 mins	80-119 mm	BT2	<24m LOA and ≤221 kW and <mcrs< td=""><td></td><td>PLE/2A3AX4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></mcrs<>		PLE/2A3AX4									
NS	8	Survival	Turbot	4	beam trawls	>80mm	BT1 and BT2			T/B/2AC4-C									
NS	9	Survival	Skates and Rays	2a,3a and 4	all	all	all												
NS	10a	de minimis	Sole	2a,3a and 4	Trammels and Gill nets	all	Trammels and Gill nets	<mcrs 3%<="" and="" td=""><td></td><td>SOL/3A/BCD</td><td>SOL/24-C.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></mcrs>		SOL/3A/BCD	SOL/24-C.								
NS	10b	de minimis	Sole	4	Beam trawls with Flemish Panel	80-119 mm	BT2	<mcrs 5%<br="" and="">of sole</mcrs>		SOL/24-C.									
NS	10c	de minimis	sole, haddock, whiting, cod, saithe and hake <mcrs< td=""><td>За</td><td>Nephrops trawls (OTB OTT TBN)</td><td>≥70mm with grid max 35mm</td><td>Nephrops trawls</td><td>4 % of the total annual catches of Norway lobster, common sole, haddock, whiting and Northern prawn, cod, saithe and hake</td><td></td><td>SOL/3A/BCD</td><td>HAD/3A/BCD</td><td>WHG/03A</td><td></td><td>COD/03AN</td><td>COD/03AS</td><td>POK/2A34</td><td>HKE/3A/BC D</td><td></td><td></td></mcrs<>	За	Nephrops trawls (OTB OTT TBN)	≥70mm with grid max 35mm	Nephrops trawls	4 % of the total annual catches of Norway lobster, common sole, haddock, whiting and Northern prawn, cod, saithe and hake		SOL/3A/BCD	HAD/3A/BCD	WHG/03A		COD/03AN	COD/03AS	POK/2A34	HKE/3A/BC D		
NS	10d	de minimis	sole, haddock, whiting, cod, plaice saithe, herring, Norway pout, greater silver smelt and blue whiting, <mcrs< td=""><td>За</td><td>Northern Prawn trawls (OTB)</td><td>≥35 mm mesh wth grid bar spacing max 19mm</td><td>Northern Prawn Trawls</td><td>5 % of the total annual catches of Norway lobster, common sole, haddock, whiting, cod, saithe, plaice, Northern prawn, hake, Norway pout, greater silver smelt, herring and blue whiting</td><td></td><td>SOL/3A/BCD</td><td>HAD/3A/BCD</td><td>WHG/03A</td><td>PLE/03AS</td><td>COD/03AN</td><td>COD/03AS</td><td>Greater silver smelt</td><td>PLE/2A3AX 4 PLE/03AN</td><td>POK/2A34</td><td>Plus Herring, and WHB Norway Pout,</td></mcrs<>	За	Northern Prawn trawls (OTB)	≥35 mm mesh wth grid bar spacing max 19mm	Northern Prawn Trawls	5 % of the total annual catches of Norway lobster, common sole, haddock, whiting, cod, saithe, plaice, Northern prawn, hake, Norway pout, greater silver smelt, herring and blue whiting		SOL/3A/BCD	HAD/3A/BCD	WHG/03A	PLE/03AS	COD/03AN	COD/03AS	Greater silver smelt	PLE/2A3AX 4 PLE/03AN	POK/2A34	Plus Herring, and WHB Norway Pout,
NS	10e	de minimis	whiting and cod <mcrs< td=""><td>4c</td><td>trawls and seines</td><td>OTB, OTT, SDN, SSC 70- 99mm</td><td>TR2</td><td>5% of all sizes cod and whiting; cod limtied to 2% max of that combined amount</td><td></td><td>WHG/2AC4</td><td>COD/2A3AX4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></mcrs<>	4c	trawls and seines	OTB, OTT, SDN, SSC 70- 99mm	TR2	5% of all sizes cod and whiting; cod limtied to 2% max of that combined amount		WHG/2AC4	COD/2A3AX4								
NS	10f	de minimis	whiting and cod <mcrs< td=""><td>4a and 4b</td><td>trawls and seines</td><td>OTB, OTT, SDN, SSC 70- 99mm</td><td>TR2</td><td>6% of all sizes cod and whiting; cod limtied to 2% max of that combined amount</td><td></td><td>WHG/2AC4</td><td>COD/2A3AX4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></mcrs<>	4a and 4b	trawls and seines	OTB, OTT, SDN, SSC 70- 99mm	TR2	6% of all sizes cod and whiting; cod limtied to 2% max of that combined amount		WHG/2AC4	COD/2A3AX4								
NS	10g	de minimis	whiting <mcrs< td=""><td>За</td><td>bottom trawls (OTB, OTT, TBN, PTB)</td><td>90-119 mm with seltra or ≥120 mm</td><td>TR2, TR1 with seltra and TR1 without seltra</td><td>2% of the total annual catches of Norway lobster, cod, haddock, whiting, saithe, common sole, plaice and hake</td><td></td><td>WHG/03A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></mcrs<>	За	bottom trawls (OTB, OTT, TBN, PTB)	90-119 mm with seltra or ≥120 mm	TR2, TR1 with seltra and TR1 without seltra	2% of the total annual catches of Norway lobster, cod, haddock, whiting, saithe, common sole, plaice and hake		WHG/03A									
NS	10h	de minimis	whiting <mcrs< td=""><td>4</td><td>beam trawls</td><td>80-119mm</td><td>BT2</td><td>whiting as 2% of total plaice and sole catches</td><td></td><td>WHG/2AC4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></mcrs<>	4	beam trawls	80-119mm	BT2	whiting as 2% of total plaice and sole catches		WHG/2AC4									

								saithe, plaice, haddock, whiting, cod										
NS	10i	de minimis	plaice <mcrs< td=""><td>4</td><td>Nephrops trawls</td><td>80-99mm with SEPNEP</td><td>TR2 with SepNep</td><td>whiting, cod, Northern prawn, common sole and Norway lobster;</td><td></td><td>PLE/2A3AX4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></mcrs<>	4	Nephrops trawls	80-99mm with SEPNEP	TR2 with SepNep	whiting, cod, Northern prawn, common sole and Norway lobster;		PLE/2A3AX4								
NS	10j	de minimis	All Species	4b and 4c	brown shrimp beam trawls	all	BT1 and BT2	all species		n/a								
NS	10k	de minimis	horse mackerel	4	bottom trawls (OTB, OTT, PTB, TBB)	80-99mm	TR2	7%		JAX/4BC7D	JAX/2A-14							
NS	10	de minimis	Mackerel	4	bottom trawls (OTB, OTT, PTB, TBB)	80-99mm	TR3	7%		MAC/2A34								
NS	10m	de minimis	combined sprat, sandeel, norway pout and blue whiting	3a and 4	trawls and seines (OTB OTM OTT PTB PTM SDN SPR SSC TB TBN)	>80mm (Northern Prawn fishery+ also selectivity devices)	TR1 and TR2	combined sprat, sandeel, norway pout and blue whiting as 1% of all total annual catches in demersal fisheries and fishery Northern Prawn		?								
NS	10n	de minimis	ling <mcrs< td=""><td>4</td><td>long lines</td><td>LLS</td><td>LLS</td><td>3% Total Annual Catches of Ling in hake LLS fishery</td><td></td><td>LIN/04-C</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></mcrs<>	4	long lines	LLS	LLS	3% Total Annual Catches of Ling in hake LLS fishery		LIN/04-C								
sww	3	Survival	Nephrops	8 and 9	bottom trawls (OTB, OTT, PTB, TBN, TBS, TB, TBB, OT, PT and TX)	all	all											
SWW	4	Survival	Skates and Rays	8 and 9	all	all	all											
sww	5	Survival	Red Seabream	9a (voracera) and 10 (hooks and lines)	9a (voracera) and 9a 8 and 10 (hooks and lines)	9a (voracera) and 9a 8 and 10 (hooks and lines)	9a (voracera) and 9a 8 and 10 (hooks and lines)											
sww	6a	de minimis	Hake	8 and 9	trawls and seines (gear codes: OTT, OTB, PTB, OT, PT, TBN, TBS, TX, SSC, SPR, TB, SDN, SX, SV)	all	all	5%		HKE/8C3411	HKE/8ABDE							
sww	6b	de minimis	Sole	8a and 8b	beam trawl and bottom trawls (gear codes: OTB, OTT, PTB, TBN, TBS, TBB, OT, PT and TX)			5%		SOL/8AB.								
SWW	6c	de minimis	Sole	8a and 8b	trammel nets and gillnets (gear codes: GNS, GN, GND, GNC, GTN, GTR and GEN)			3%		SOL/8AB.								
sww	6d	de minimis	Alfonsinos	10	hooks and lines (gear codes: LHP, LHM, LLS, LLD			5%		DS								
sww	6e	de minimis	Horse Mackerel	8 and 9	beam trawl, bottom trawls and seines (gear codes: OTB, OTT, PTB, TBN, TBS, TBB, OT, PT, TX, SSC, SPR, SDN, SX, SV)			7%		JAX/09	JAX/2A-14	JAX/08C						
sww	6f	de minimis	Horse Mackerel	8, 9 and 10 and and CECAF areas 34.1.1, 34.1.2, 34.2.0;	using gillnets and trammels (gear codes: GNS, GND, GNC, GTR, GTN)			3%		JAX/09	JAX/2A-14	JAX/08C	JAX/X34PR T	JAX/341PR T	JAX/341SP N	NB delegated TACs? Demersal trawls in those areas unlikely?		

								 		r			 		
sww	6g	de minimis	Mackerel		beam trawl, bottom trawls and seines (gear codes: OTB, OTT, PTB, TBN, TBS, TBB, OT, PT, TX, SSC, SPR, SDN, SX, SV)		7%		MAC/8C3411	MAC/2CX14-					
SWW	6h	de minimis	Mackerel		gillnets (gear codes: GNS, GND, GNC, GTR, GTN)		3%		MAC/8C3411	MAC/2CX14-					
SWW	6i	de minimis	Megrim		beam trawl, bottom trawls and seines (gear codes: OTB, OTT, PTB, TBN, TBS, TBB, OT, PT, TX, SSC, SPR, SDN, SX, SV)		5%		LEZ/8ABDE	LEZ/8C3411					
SWW	6j	de minimis	Megrim	8 and 9	gillnets (gear codes: GNS, GND, GNC, GTR, GTN)		4%		LEZ/8ABDE	LEZ/8C3411					
sww	6k	de minimis	Plaice		beam trawl, bottom trawls and seines (gear codes: OTB, OTT, PTB, TBN, TBS, TBB, OT, PT, TX, SSC, SPR, SDN, SX, SV)		5%		PLE/8/3411						
SWW	61	de minimis	Plaice	8 and 9	gillnets (gear codes: GNS, GND, GNC, GTR, GTN)		3%		PLE/8/3411						
sww	6m	de minimis	Anglerfish	8 and 9	beam trawl, bottom trawls and seines (gear codes: OTB, OTT, PTB, TBN, TBS, TBB, OT, PT, TX, SSC, SPR, SDN, SX, SV		5%		ANF/8ABDE	ANF/8C3411					
sww	6n	de minimis	Anglerfish		gillnets and trammels (gear codes: GNS, GND, GNC, GTR, GTN)		4%		ANF/8ABDE	ANF/8C3411					
SWW	60	de minimis	Whiting		beam trawls bottom trawls and seines (gear codes: OTB, OTT, PTB, TBN, TBS, TBB, OT, PT, TX, SSC, SPR, SDN, SX, SV		5%		WHG/08						
SWW	6p	de minimis	Whiting		gillnets (gear codes: GNS, GND, GNC, GTR, GTN)		4%		WHG/08						
sww	6q	de minimis	Pollack		beam trawl, bottom trawls and seines (gear codes: OTB, OTT, PTB, TBN, TBS, TBB, OT, PT, TX, SSC, SPR, SDN, SX, SV)		5%		POL/8ABDE	POL/08C	POL/9/3411				
SWW	6r	de minimis	Pollack	8 and 9	gillnets (gear codes: GNS, GND, GNC, GTR, GTN)		2%		POL/8ABDE	POL/08C	POL/9/3411				

	2020 De	ductions	
TAC	Pre-deduction	Deduction (rounded) %	COM Proposed TAC
Plaice PLE/03AS	1607	-29.00%	1141
Plaice PLE/07A.	3299	-15.42%	2790
Plaice PLE/7DE.	11529	-20.60%	9154
Plaice PLE/7FG.	2295	-12.71%	2003
Sole SOL/3ABC24	539	-1.15%	533
Sole 7FG	1559	-2.02%	1528
Sole Bay of Biscay 8AB	3768	-2.71%	3666
Haddock HAD/7X7A34	11418	-4.90%	10859
Northern Hake HKE/8ABDE	42235	-1.65%	41538
Southern Hake HKE/8C3411	7406	-2.66%	7209
Megrims LEZ/07.	19093	-1.89%	18732
Megrims LEZ/8ABDE	1888	-4.98%	1794
Megrims LEZ/8C3411	2176	-4.00%	2089
Anglerfish ANF/8ABDE	9458	-4.76%	9008
Anglerfish ANF/8C3411	4196	-4.12%	4023
Whiting WHG/08.	2276	-3.22%	2203
Horse Mackerel JAX/4BC7D	14014	-1.79%	13763
Horse Mackerel JAX08c	11474	-2.57%	11179
Horse Mackerel JAX2A-14	72480	-2.57%	70617
Turbot TB/2AC4-C	6208	-5.34%	5876

ICES data	Sole Bay of Biscay 8AB
ICES Total catch TAC	3768
ICES Wanted TAC	3645
ICES Unwanted	123

2018 catches

#### landings discards coverage raised discard catches

-	-	TAC before deductions	3768	Comments
	figure			
		de minimis A	5%	de minimis amount
		Contribution (article 6b)	23%	Beam Trawls and Bottom
				Trawls contribution
		de minimis B	3%	de minimis amount
		Contribution (article 6c)	51%	trammel and gillnet
				contribution
		Contr. to total catches	2.71%	
		de minimis deduction	102.0	
		Total deduction *	102	
		Proposed TAC	3666	
		TAC deduction % relative to ICES catch TAC	-2.71%	
	•	-		1

Art 6b	8a 8b	270.9 451.4	4.25 38.27	10.87% 58.80%	39.10 65.09	310.00 516.49
	sum	722.3	42.52	0.6967	104.18347	826.48
Art 6c	8a 8b	1301.9 n 1535.1	ot provide u 38			1796.799

Total estimated discards in t 327.71 2623.28

reported 2018 quota	3467.33 proportion	
2019 FDI		
Total landings	3476.20	
Total discards	42.50	
Total catches	3518.70	
6b catches	826.48	23.49%
6c catches	1796.80	51.06%
	2623.28	

ICES data	Southern Hake HKE/8C3411	Relevant Articles:
MSY Upper	7406	
ICES Total catch TAC	6615	
ICES Wanted TAC	5679	
ICES Unwanted	936	

#### 2018 catches (declared) 8267.234

Art 6a sum landings discards coverage raised discards 2018 discard rate

TAC before deductions	7406	Comments
de minimis	5%	de minimis amount
Contribution (Art. 6a)	53.27%	Trawls and seines
Contr. to total catches	2.66%	
de minimis deduction	197.3	
Total deduction	197	J
Proposed TAC	7209	
TAC deduction % relative to ICES catch TAC	-2.66%	J
	de minimis Contribution (Art. 6a) Contr. to total catches de minimis deduction Total deduction Proposed TAC	de minimis 5% Contribution (Art. 6a) 53.27% Contr. to total catches 2.66% de minimis deduction 197.3 Total deduction 197 Proposed TAC 7209

53.27%

8c	2077.59	1349.68	99.94%	1350.49	3428.08	39.39%	
9a	1832.36	579.44	99.30%	583.52	2415.88	24.15%	
	3909.95	1929.12		1934.01	5843.96	33.09%	

reported 2018 quota	8267.23 proportion	
2019 FDI		
Total landings	8141.71	
Total raised discards	2828.90	
Total catches	10970.61	
6a catches	5843.96	

ICES data	Northern Hake HKE/8ABDE	Relevant Articles:
MSY Upper	4223	5
ICES Total catch TAC	3918	1
ICES Wanted TAC		
ICES Unwanted		

#### 2018 catches (declared) 25304.69

landings	discards	coverage	raised disca catches	2018 discard rate
----------	----------	----------	----------------------	-------------------

Deduct de minimis from ICES total catch	TAC before deductions	42235	Comments
figure	de minimis Art.6a	5%	de minimis amount
	Contribution	32.99%	Trawls and Seines
	Contr. to total catches	1.65%	
	de minimis deduction	696.6	
	Total deduction	697	
	Proposed TAC	41538	
	TAC deduction % relative to ICES catch TAC	-1.65%	

Art 6a	8a	3056.7	499.79	51.82%	964.47	4021.17	23.98%	
	8b	4300.1	662.18	79.77%	830.11	5130.21	16.18%	
	8d	95.2	3.69	65%	5.65	100.85	5.60%	
	sum	7356.80	1161.97		1794.58	9151.38	19.61%	

exempted fleet contribution to catches from 2018 data (2019 FDI) 36.16%

reported 2018 quota 2019 FDI	25304.69 proportion
Total landings	25759.70
Total raised discards	1981.98
Total catches	27741.68
6a catches	9151.38

32.99%

ICES data	Megrims LEZ/07.	Relevant Articles:
ICES Total catch TAC	19093	
ICES Wanted TAC		
ICES Unwanted		

Step 1	Deduct de minimis from ICES total catch	TAC before deductions	19093	Comments
	figure			
		de minimis 8h		de minimis amount
		Contribution	37.86%	Exempted vessels
				contribution to catches from FDI 2019
		Contr. to total catches	1.89%	
		de minimis deduction	361.4	
		Total deduction	361	
		Proposed TAC	18732	
		TAC deduction % relative to ICES catch TAC	-1.89%	

	proportion
reported 2018	10939.52
Total landings all 7	10924.60
raised discards all 7	1094.90
total catches all 7	12019.50

Landings Art 8h Discards Art 8h catches Art 8h 4266.83 284.25 4551.08

37.86%

ICES data	Mergrims LEZ/8ABDE	Relevant Articles:
ICES Total catch TAC	1888	
ICES Wanted TAC		
ICES Unwanted		

Step 1	Deduct de minimis from ICES total catch	TAC before deductions	1888	Comments
	figure			
		de minimis 6i	5%	de minimis amount
		Contribution	99%	beam trawl, bottom trawls
				and seines
		de minimis 6j	4%	de minimis amount
		Contribution	1%	gillnets and trammels
		Contr. to total catches	4.98%	
		de minimis deduction	94.0	
		Total deduction	94	
		Proposed TAC	1794	
		TAC deduction % relative to ICES catch TAC	-4.98%	
		-		Ť

reported 2018 quota 2019 FDI	1224.87
Total landings	1968.17
Total raised discards	154.82
Total catches	2122.99
6i catches	2092.06
6j catches	26.56

98.54% 1.25%

	8c 9 10 and cecaf 34.1.1	
ICES data	Mergrims LEZ/8C3411	Relevant Articles:
ICES Total catch TAC	2176	
ICES Wanted TAC		
ICES Unwanted		

Step 1	Deduct de minimis from ICES total catch	TAC before deductions	2176	Comments
	figure			
		de minimis 6i	5%	de minimis amount
		Contribution	78.9%	beam trawl, bottom trawl
				and seines
		de minimis 6j	4%	de minimis amount
		Contribution	1.4%	gillnets and trammels
		Contr. to total catches	4.00%	
		de minimis deduction	87.1	
		Total deduction	87	
		Proposed TAC	2089	
		TAC deduction % relative to ICES catch TAC	-4.00%	
	•			1

reported 2018 quota	939
2019 FDI	
Total landings	935.479
Total raised discards	397.8921
Total catches	1333.3711
6i catches	1051.97
6j catches	18.5

939

78.90% 1.39%

ICES data	Anglerfish ANF/8ABDE	Relevant Articles:
ICES Total catch TAC	9458	
ICES Wanted TAC		
ICES Unwanted		

Step 1	Deduct de minimis from ICES total catch	TAC before deductions	9458	Comments
t	figure			
		de minimis 6m	5%	de minimis amount
		Contribution	77%	beam trawl, bottom trawls
				and seines
		de minimis 6n	4%	de minimis amount
		Contribution	23%	gillnets and trammels
		Contr. to total catches	4.76%	
		de minimis deduction	449.8	
				ĺ
		Total deduction	450	ĺ
		Proposed TAC	9008	l
		TAC deduction % relative to ICES catch TAC	-4.76%	
		-		İ

reported 2018 quota	6603.26
2019 FDI	
Total landings	6788.2491
Total raised discards	18.091
Total catches	6806.3401
6m catches	5217.829
6n catches	1570

76.66% 23.07%

8c 9 10 and cecaf 34.1.1			
ICES data	Anglerfish ANF/8C3411	Relevant Articles:	
ICES Total catch TAC	4196		
ICES Wanted TAC			
ICES Unwanted			

Step 1	Deduct de minimis from ICES total catch	TAC before deductions	4196	Comments
	figure			
		de minimis 6m	5%	de minimis amount
		Contribution	39.8%	beam trawl, bottom trawls
				and seines
		de minimis 6n	4%	de minimis amount
		Contribution	53.3%	gillnets and trammels FDI
		Contr. to total catches	4.12%	
		de minimis deduction	173.0	ĺ
				ĺ
		Total deduction	173	
		Proposed TAC	4023	İ
		TAC deduction % relative to ICES catch TAC	-4.12%	
	1			

reported 2018 quota	2001.45 proportion	
2019 FDI		
Total landings	1922.00	
Total raised discards	105.71	
Total catches	2027.71	
6m catches	807.37	39.82%
6n catches	1080.36	53.28%

ICES data	Whiting WHG/08.	Relevant Articles:
ICES Total catch TAC	2276	
ICES Wanted TAC	1593	
ICES Unwanted	683	

Step 1	Deduct de minimis from ICES total catch	TAC before deductions	2276	Comments
	figure			
		de minimis 60	5%	de minimis amount
		Contribution	33.99%	beam trawl, bottom trawls
				and seines
		de minimis 6p	4%	de minimis amount
		Contribution	38.03%	gillnets and trammels FDI
		Contr. to total catches	3.22%	
		de minimis deduction	73.3	ĺ
				ĺ
		Total deduction	73	
		Proposed TAC	2203	İ
		TAC deduction % relative to ICES catch TAC	-3.22%	1
				i

33.99% 38.03%

reported 2018 quota	proportion	
2019 FDI		
Total landings	1547.42	
Total raised discards	1329.50	
Total catches	2876.92	
6o catches	977.96	
6p catches	1094.15	
	2072.10	

7b-k, 8, 9 and 10; Union waters of CECAF 34.1.1			
ICES data	Haddock HAD/7X7A34	Relevant Articles:	
ICES MSY lower	11418		
ICES Total catch TAC			
ICES Wanted TAC			
ICES Unwanted			

Step 1	Deduct de minimis from ICES total catch	TAC before deductions	11418	Comments
-	figure			
		de minimis 8d	5%	de minimis amount
		Contribution	98%	Bottom Trawls Seines and
				beam trawls 2019 ICES Table
				8*
		Contr. to total catches	4.90%	
		de minimis deduction	559.5	
		Total deduction	559	
		Proposed TAC	10859	
		TAC deduction % relative to ICES catch TAC	-4.90%	
				]

* ICES	t	%
Gill nets	213.27	3%
removed from total catches	12331.73	98%
total catches	12545	

Reported 2018 Catches	12886.42 proportion	
2019 FDI 7b-k		
Total landings	6609.2501	
Tota discards	12039.30281	
Total catches	18648.55	
Art 8d catches	18793.14	

100.78% <--- ! use ICES fleet / catches

ICES data	Sole 7FG	Relevant Articles:
ICES Total catch TAC	1559	
ICES Wanted TAC		
ICES Unwanted		

Step 1	Deduct de minimis from ICES total catch	TAC before deductions	1559	Comments
	figure			
		de minimis 8b	3%	de minimis amount
		Contribution	0.31%	
				gillnet contribution FDI 2019
		de minimis 8c	3%	de minimis amount
		Contribution	67.08%	Beam Trawls contribution F
				2019
		Contr. to total catches	2.02%	
		de minimis deduction	31.5	
				ĺ
		Total deduction	32	
		Proposed TAC	1527	Ī
		TAC deduction % relative to ICES catch TAC	-2.02%	Ì
	1			t

2019 FDI	proportion	
Total landings 7f	494.11	
Total discards	42.55	
coverage	90.46%	
raised discards	47.04	
total catches	541.15	
Total landings 7g	356.62	
Total discards	28.95	
coverage	70.74%	
raised discards	40.92	
total catches	397.54	
Total Catches 7fg	938.69	
catches Art 8b	2.90	0.31%
catches Art 8c	629.71	67.08%

ICES data	Turbot (and Brill) T/B/2AC4-C	
ICES Total catch Turbot only	3649	
ICES Wanted	3138	
ICES Unwanted	511	

Article 8

Step 1 Deduct dead discards from ICES total	(Turbot component)	3649	Comments
catch figure			
	(Brill component)	2559	
	TAC before deductions (Turbot+Brill)	6208	
	Contributionto catches	94.02%	Beam trawl FDI 2019
	discard rate	12.07%	Discard rate FDI 2018
	dead discards	80%	dead discards 80%**
	Contr. to dead discards	9.08%	
	Contr. to total dead discards	9.08%	
	dead discard deduction	331.3	
	New Turbot part of TAC	3318	
	Addition of Brill component	2559	
	Proposed TAC	5876	
	TAC deduction % relative to ICES catch TAC	-5.34%	

\*\*From North Sea Joint recommendation No data on distribution of survival range? Most cases will be closer to 20 or 43%? 30% was for pulse trawls - not beam

2018 ICES Turbot catches 2018 ICES Turbot landings 2018 ICES Turbot discards discard rate	3626 3140 486 < all gears (not just beams) 13% < all gears (not just beams)	20-43% survival 80-57% dead discards
2019 Fdi	proportion	
Total Turbot landings	3160.44	
Total Turbot discards	397.19	
Total Turbot catches	3557.63	
landings Art.8 exemption	2941.09	
discards Art.8 exemption	403.69	12.07%
catches Art.8 exemption	3344.78	94.02%

ICES data	Plaice PLE/7DE.	7d	7e
ICES Total catch TAC*	11529	9073	2456
ICES Wanted TAC	6419	4697	1722
ICES Unwanted			

Step 1	Deduct dead discards from ICES total	TAC before deductions	11529	Comments
	catch figure			
		Contribution		Trammel contrib to catches
	Article 6.1.a ->		5%	7D+7E
		discard rate	34.8%	discard rate
		dead discards	51%	dead discards
		Contr. to total dead discards	0.90%	
		dead discard deduction	104.1	
		Contribution		Otter trawls contrib to catches
	Article 6.1.b->			7D+7E
		discard rate		discard rate
		dead discards	36%	dead discards
		Contr. to total dead discards	4.93%	
		dead discard deduction	568.6	
		Contribution		Beam Trawls contrib to catches
	Article 6.1.c and d ->			7D+7E
		discard rate		discard rate
		dead discards		dead discards 87%**
		Contr. to total dead discards	14.77%	
		dead discard deduction	1702.3	
		Contribution	n/a	Danish Seines contrib to
				catches 7D+7E is 42t therfore
	Article 6.1.e->			not significant and not used
		discard rate	n/a	
		dead discards	n/a	
		Contr. to total dead discards	n/a	
		dead discard deduction	n/a	
		SUM dead discard deduction	2375.0	
		Total deduction	2375	
		Proposed TAC	9154	Ī
		TAC deduction % relative to ICES catch TAC	-20.60%	1
				Ī
			1	1
			1	

\*\* ILVO report shows 20% survival for tows of 81-121 mins Improves to 40% for tows <81 mins unable to break down contribution of KW threshold in exemption therefor precautionary STECF 18-06 of 93% mortality as tows of >221 KW not limited in time ILVO report page 15, 50% of fleet survival 12-35%,

ILVO report page 15, 50% of fleet survival 12-35%, correpsonds to 19% in other studies. Therefore 20% survival 80% dead discard for 50% fleet. Other 50% at STECF max range of 93% 93 % fleet 80.50% fleet 86.5 average

STECF / FDI 2019 unable to calculate Art. 6 c and d as no data available at approporiate level of disaggregation ICES 7d - unwanted catches not disaggregated

8960

ICES 2018 TOTAL CATCHES 7DE

	6500		
ICES 2018 TOTAL DISCARDS 7DE			
2018 FIXED NETS catches ICES			
	landings	discards	catches as % of total catch (all gears)
7d assumptions*	214.92	153.68	
7e assumptions	82.20	4.90	87.10 4%
7de	297.12	158.58	455.70 5%
* assumes same proportion of d	liscards as landings		
ICES 2018 landings 7de	297.12		
ICES 2018 discards 7de	158.58	35%	<- discard rate (of this gear)
ICES 2018 Catches 7de	455.70	5%	<- of Total catches (all gears)
2018 OTTER trawl catches ICES			
	landings	discards	catches as % of total catch (all gears)
7d assumptions*	1552.20	1109.94	2662.14 39%
7e assumptions	378.12	117.60	495.72 23%
7de	1930.32	1227.54	3157.86 35%
* assumes same proportion of d	iscards as landings		
ICES 2018 landings 7de	1930.32		
ICES 2018 discards 7de	1227.54	39%	<- discard rate (of this gear)
ICES 2018 Catches 7de	3157.86		<- of Total catches (all gears)
2018 beam trawl catches ICES			
	landings	discards	catches as % of total catch (all gears)
7d assumptions*	1631.80		
7e assumptions	1150.80		
7de	2782.60	1529.46	4312.06 48%
* assumes same proportion of d	liscards as landings		
ICES 2018 landings 7de	2782.60		
ICES 2018 discards 7de	1529.46	35%	<- discard rate (of this gear)
ICES 2018 Catches 7de	4312.06	48%	<- of Total catches (all gears)
2010			
2018 "other gears" catches ICES		disserves	antaban an N aftertal antab (all as and
	landings	discards	catches as % of total catch (all gears)
7d assumptions*	581.08		
7e assumptions	32.88		
7de	613.96	425.32	1039.28 12%
* assumes same proportion of d	liscards as landings		
ICES 2018 landings 7de	613.96		
ICES 2018 discards 7de	425.32		
ICES 2018 Catches 7de	1039.28	12%	<- of Total catches (all gears)

ICES data	Plaice PLE/7FG.
ICES Total catch TAC*	2295
ICES Wanted TAC	
ICES Unwanted	

Step 1	Deduct dead discards from ICES total	TAC before deductions	2295	Comments
	catch figure			
		Contribution		Trammel contrib to catches not
	Article 6.1.a ->		n/a	applicable <1%
		discard rate	n/a	discard rate
		dead discards	n/a	dead discards
		Contr. to total dead discards	n/a	
		dead discard deduction	n/a	
		Contribution		
	Article 6.1.b->		29%	Otter trawls contrib to catches
		discard rate	35.3%	discard rate
		dead discards	36%	dead discards
		Contr. to total dead discards	3.74%	
		dead discard deduction	85.7	
		Contribution		
	Article 6.1.c and d ->		34%	Beam Trawls contrib to catches
		discard rate		discard rate
		dead discards	87%	dead discards 87%**
		Contr. to total dead discards	8.98%	
		dead discard deduction	206.0	
			ļ	
		SUM dead discard deduction	291.8	
			ļ	
			ļ	
			ļ	
		Total deduction	292	
		Proposed TAC	2003	ļ
		TAC deduction % relative to ICES catch TAC	-12.71%	
				1

\*\* ILVO report shows 20% survival for tows of 81-121 mins

Improves to 40% for tows <81 mins

unable to break down contribution of KW threshold in exemption therefor precautionary STECF 18-06 of 93% mortality as tows of >221 KW not limited in time

ILVO report page 15, 50% of fleet survival 12-35%, correpsonds to 19% in other studies. Therefore 20% survival 80% dead discard for 50% fleet. Other 50% at STECF max range of 93%

93 % fleet 80 50% fleet 86.5 average

STECF / FDI 2019 unable to calculate Art. 6 c and d as no data available at approporiate level of disaggregation

ICES 2018 TOTAL CATCHES 7FG	930	
2018 OTTER trawl catches ICES landings	discards	catches
7fg	177.24	96.52 273.76
* assumes same proportion of discards as landings		
ICES 2018 landings 7de	177.24	
ICES 2018 discards 7de	96.52	35% <- discard rate (of this gear)
ICES 2018 Catches 7de	273.76	29% <- of Total catches (all gears)
2018 beam trawl catches ICES landings	discards	catches
7fg	223.66	96.52 320.18
* assumes same proportion of discards as landings		
ICES 2018 landings 7de	223.66	
ICES 2018 discards 7de	96.52	30% <- discard rate (of this gear)
ICES 2018 Catches 7de	320.18	34% <- of Total catches (all gears)

ICES data	Plaice PLE/07A. Relevant Articles:		
ICES Total catch TAC*	3299		
ICES Wanted TAC	1931	Not like nephrops, not higher	
ICES Unwanted	1368	SD+DD Together 40:60	

### \*2018 TAC of 1793t

Step 1	Deduct dead discards from ICES total	TAC before deductions	3299	Comments	]
	catch figure				
		Contribution (% of Catches)	43.0%	Beam trawl ICES	
		discard rate	60%	Discard rate of Beam trawls ICES	
		dead discards	60%	max dead discards 60% in ICES	
				assumptions in forecast	
		Contr. to total dead discards	15.42%		-
					<- similar to % Table
					8 in ICES advice
		dead discard deduction	508.7		
		Total deduction	509		
		Proposed TAC	2790		
		TAC deduction % relative to ICES catch TAC	-15.42%		
					4
					J

3299

Discard values available from 2004. Estimates of modelled discards for 1981–2003 (WKIRISH3; ICES, 2017). Only the dead fraction of discards (estimated to be 0.6) is accounted for in the model. In the forecast discard values are raised to include the live portion.

STECF / FDI 2019 unable to calculate Art. 6 c and d as no data available at approporiate level of disaggregation

From ICES

ICES:	Proportion	
Catch all gears	830	
landings beam trawls	143.55	
discards beam trawls	213.3	60% <- discard rate (of this gear)
total catches beam trawls	356.85	43% <- of Total catches (all gears)

ICES data	Horse Mackerel JAX08c	Relevant Articles:
ICES Total catch TAC 8c only	11474	
ICES Wanted TAC		
ICES Unwanted		

Step 1	Deduct de minimis from ICES total catch	TAC before deductions	11474	Comments
	figure			
				de minimis amount
				beam trawl, bottom trawls
				and seines
				de minimis amount
				Gill nets
		de minimis C	Err!	de minimis amount
		Contribution	Err!	Pelagic discard plans
		Contr. to total catches	2.57%	
		de minimis deduction	294.4	
		Total deduction	294	
		Proposed TAC	11180	
		TAC deduction % relative to ICES catch TAC	-2.57%	
	·	•		

\* Insufficient data provided to STECF data call therefore ICES 2018 discard rate used

NB. No data provided for pelagic vessels	
ICES advice:	
landings	99072
discards	2609
catches	101681

2.57%

Union waters of 2a, 4a; 6, 7a-c, 7e-k, 8a, 8b, 8d and 8e; Union and international waters of 5b; international waters of 12 and 14

ICES data	Horse Mackerel JAX2A-14
ICES Total catch	72480
ICES Wanted TAC	
ICES Unwanted	

-	Deduct de minimis from ICES total catch	TAC before deductions	72480	Comments
	figure			
				de minimis amount
				beam trawl, bottom trawls
				and seines
				de minimis amount
-	Deduct de minimis from ICES total catch figure			Comments
				de minimis amount
				beam trawl, bottom trawls
				and seines
Step 3 NS	Deduct de minimis from ICES total catch			Comments
	figure			
				de minimis amount
				TR2 Trawls only
Step 4 Pelagic		de minimis C		de minimis amount
		Contribution		Pelagic discard plans
TOTAL		Contr. to total catches		TOTAL*
		de minimis deduction	1859.7	
		Total deduction	1860	
		Proposed TAC	70620	
		TAC deduction % relative to ICES catch TAC	-2.57%	

\* Insufficient data provided to STECF data call therefore ICES 2018 discard rate used NB. No data provided for pelagic vessels

ICES 2018	
Total Catch	101682
landings	99072
discards	2609
discard rate	2.57%

	Union Waters 4b, 4c and 7d
ICES data	Horse Mackerel JAX/4BC7D
ICES Total catch	14014
ICES Wanted TAC	
ICES Unwanted	

Ste	p 1 Deduct de minimis from ICES total catch	TAC before deductions	14014	Comments
	figure			
			1 70%	
		Contr. to total catches	1.79%	
		de minimis deduction	251	
		Total deduction	251	
		Proposed TAC	13763	
		TAC deduction % relative to ICES catch TAC	-1.79%	

# \* Insufficient data provided to STECF data call therefore ICES 2018 discard rate used

NB. No data provided for pelagic vessels ICES 2018	
Total Catch	14773
landings	14508
discards	265
discard rate	1.79%
Total Catch landings discards	14508 265

3a Union waters of Sub divisions 22-24				
ICES data	Sole SOL/3A/BC24	Relevant Articles:		
ICES Total catch TAC	539			
ICES Wanted TAC				
ICES Unwanted				

Step 1	Deduct de minimis from ICES total catch	TAC before deductions	539	Comments	
	figure				
		de minimis A	4%	Nephrops trawls* (OTB TBN)	* ≥70mm with grid max 35mm from STECF 18-06 and NS JR
		Contribution	3%		2701111 With ghid max 351111 Hold STECF 18-06 and NS JK
		de minimis B		Northern Prawn trawls**	
			5%	(OTB)	** ≥35 mm mesh wth grid bar spacing max 19mm from STECF 18-06 and NS JR
		Contribution	1%		
		de minimis C	3%	de minimis amount	
		Contribution	33%	Trammels and Gill nets	
		Contr. to total catches	1.2%		
		de minimis deduction	6.2		
					FDI 2019
					landings 366.7
					discards 9.524686
		Total deduction	6		catches 376.2247
		Proposed TAC	533		exemption 123.4 33%
		TAC deduction % relative to ICES catch TAC	-1.15%		
				l	

NB Provisional figures as uses 2017 data at this time - subject to update by nonpaper

ICES data	Plaice 03AS	Relevant Articles:
ICES Total catch TAC	1607	10d (Pandulus)
ICES Wanted TAC		
ICES Unwanted		

Step 1	Deduct de minimis from ICES total catch	TAC before deductions	1607	Comments	
	figure				
		de minimis B		Northern Prawn trawls**	** ≥35 mm mesh wth grid bar spacing max 19mm not available in
				(OTB)	ICES advice or 2017 FDI. JR contains data for only one MS
		· · · · · ·	5%		,
		Contribution	0%		
		Contribution		Art 6.1	
		Contr. to total catches	29%		
		de minimis deduction	466.0	ICES Discard rate*	
		de minimis deddedon	400.0		6.1.c
					survival
					8-44%
		Total deduction	466	1	22-54% discards
		Proposed TAC	1141		
		TAC deduction % relative to ICES catch TAC	-29.00%	1	

\* ICES discard rate used at this time - provisional and subject to change

ICES 2018 Catches	4846
ICES 2018 Landings	3459
ICES 2018 Discards	1387

29%