

2017 the fishing opportunities for certain fish stocks and groups of fish stocks, applicable in Union Waters and for Union vessels, in certain non-Union waters.

Calculation of TAC top ups in respect of the non paper: 14611/16

ICES data	Anglerfish Villabde
ICES catch TAC	7914
ICES landings TAC	7914
Adjusted discards (fleets)	79
New Catch advice	1%
	7993

Step 1	Deduct <i>de minimis</i> from ICES total catch figure	adjusted catch advice 2016	7993
		<i>de minimis</i>	0%
		Contr. to total catches	0%
		<i>de minimis</i> deduction (A)	0
Step 2	Deduct discards fleets not under LO	Total discards 2016	79
		Contribution to discards by fleets not under LO (Landings under Lo/total landings)	99,6%
		Discards by fleets not under LO to be deducted (B)	78,83
		Total deduction A+B	78,83
		New catch TAC	7914,3
		TAC top up % relative to ICES landings TAC	0,004%
		top up	0

Comments
No ICES discard data STECF discards 1%
adjusted by STECF data
Threshold for inclusion
All gillnets >200mm included under LO
Contribution by gear to discards
All gillnets >200mm included under LO contribute 0.4% to overall discards
Excluded discards
0,40%
Total under LO =0.4% continuing discards =99.6%

ANF VIIIc IXa

ICES - no discards in assessment

STECF no discards identified

No de minimis requested

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No top up can be calculated

ICES data	Haddock VII
ICES catch TAC	1286
ICES landings TAC	682
ICES discards	604
Discard rate (all fleets)	47,0%

STECF TR1 and TR2

Step	Description	Value
Step 1	Deduct <i>de minimis</i> from ICES total catch figure	ICES catch advice 2016
		1286
		<i>de minimis</i>
		0%
	Contr. to total catches	0%
	<i>de minimis</i> deduction (A)	0
Step 2	Deduct discards fleets not under LO	Total discards 2016
		604
		Contribution to discards by fleets not under LO (Landings under LO/total landings)
		62,6%
		If no data under previous step consider ICES discard rate
		Discards by fleets not under LO to be deducted (B)
		378
		Total deduction A+B
		378
		New catch TAC
	908	
	TAC top up % relative to ICES landings TAC	
	33,1%	
	top up	429

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LO applies where total landings of all species consist of more than 10% of haddock, whiting, cod and saithe.

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Comments
Advice TAC follows direction of ICES advice uplift to be applied to applied to 2016 TAC proposal of 1299t
Threshold for inclusion
STECF identify on basis of vessel no. TR1 31% included TR2 15% included.
Contribution by gear to discards
TR1 contribute 15.1% of all discards
TR2 contribute 81.6% of all discards
Excluded discards
TR1: 31% of 15.1%=4.68%
TR2: 15% of 81.6%= 12.2%
Total under LO =16.8%
continuing discards =83.2%
However
On basis of landings as threshold for inclusion TR1=98%, TR2 = 53% (giving 14.7% and 43.2%) so 57.99% of discards included 42% of discards continue
Average: 62.6% excluded

ICES data	Haddock Vib (XII, XIV)
ICES catch TAC	4690
ICES landings TAC	4130
ICES discards	560
Discard rate (all fleets)	11,9%

Step 1	Deduct <i>de minimis</i> from ICES total catch figure
	ICES <u>catch</u> advice 2016 4690
	<i>de minimis</i> 0%
	Contr. to total catches 0%
	<i>de minimis</i> deduction (A) 0

Step 2	Deduct discards fleets <u>not</u> under LO
	Total discards 2016 560
	Contribution to discards by fleets <u>not</u> under LO (Landings under Lo/total landings) 74,8%
	If no data under previous step consider ICES discard rate 0,0%
	Discards by fleets <u>not</u> under LO to be deducted (B) 419
	Total deduction A+B 419
	New catch TAC 4271
	TAC top up % relative to ICES landings TAC 3,42%
	top up 141

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LO applies where total landings of all species consist of more than 5% of haddock, whiting, cod and saithe.

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Comments
Threshold for inclusion
STECF identify TR1 75% included TR2 13% included.
Contribution by gear to discards TR1 contribute 19.7% of all discards TR2 contribute 80.3% of all discards
Excluded discards TR1: 75% of 19.7%=14.77% TR2: 13% of 80.3%= 10.439%
Total under LO =25.2% Continuing discards =74.8%

ICES data	Hake IIIa
ICES catch TAC	3822
ICES landings TAC	3371
ICES discards	451
Discard rate (all fleets)	11,8%

Step 1	Deduct <i>de minimis</i> from ICES total catch figure	ICES <u>catch</u> advice 2016	3822	Comments
		<i>de minimis</i>	0%	
		Contr. to total catches	0%	No de minimis
		<i>de minimis</i> deduction (A)	0	
Step 2	Deduct discards fleets <u>not</u> under LO	Total discards 2016	451	Threshold for inclusion
		Contribution to discards by fleets not under LO (Landings under Lo/total landings)	100,0%	Longlines have 0% discard rate
		if no data under previous step consider ICES discard rate	0,0%	
		Discards by fleets not under LO to be deducted (B)	451	
		Total deduction A+B	451	Contribution by gear to discards
		New catch TAC	3371	No fleet under LO contributing to discards
		TAC top up % relative to ICES landings TAC	0,0%	
		top up	0	

**LO in North Sea applies to : LL only all catches.
No contribution to discards, therefore no top up.**

ICES data	Hake VI, VII
ICES catch TAC	69409
ICES landings TAC	62729
ICES discards	6680
Discard rate (all fleets)	9,6%

Step 1	Deduct <i>de minimis</i> from ICES total catch figure	ICES catch advice 2016	69409
		<i>de minimis</i>	0%
		Contr. to total catches	0%
		<i>de minimis</i> deduction (A)	0
Step 2	Deduct discards fleets not under LO	Total discards 2016	6680
		Contribution to discards by fleets not under LO (Landings under Lo/total landings)	93,36%
		if no data under previous step consider ICES discard rate	0,0%
		Discards by fleets not under LO to be deducted (B)	6236
		Total deduction A+B	6236
		New catch TAC	63173
		TAC top up % relative to ICES landings TAC	0,71%
		top up	444

Comments
Threshold for inclusion
STECF data - no of vessels included TR1 = 2%, TR2 =1% Gillnets 100% LL 100%
Contribution by gear to discards
TR1 contribute 45.4% of all discards TR2 contribute 42.4% of all discards Gillnets contribute 5% longlines 0.3%
Excluded discards
TR1: 2% by 45.4%= 0.9% TR2: 1% of 42.4% = 0.42% Gillnets 5% LL=0.3%
Total under LO =6.63%
Continuing discards =93.36%

ICES data	Hake Villadbe
ICES catch TAC	46292
ICES landings TAC	41837
ICES discards	4455
Discard rate (all fleets)	9,6%

Step 1	Deduct de minimis from ICES total catch figure	
	ICES catch advice 2016	46292
	de minimis	7%
	Contr. to total catches	23%
de minimis deduction (A)		745

Step 2	Deduct discards fleets not under LO	
	Total discards 2016	4455
	Contribution to discards by fleets <u>not</u> under LO	16,6%
Discards by fleets not under LO to be deducted (B)		740
Total deduction A+B		1485

New catch TAC	44807
TAC top up % relative to ICES landings TAC	7,1%
top up	2970

Comments
Contribution from Trawls = 23%,
Threshold for inclusion
All TR1 gear, (>100mm)
Gillnets 100%
LL 100%
Contribution by gear to discards
TR1 contribute 45.4% of all discards
Gillnets contribute 40.6%
longlines 0%
Excluded discards
TR1 contribute 45.4% of all discards
Gillnets contribute 40.6%
longlines 0%

ICES data	S Hake
ICES catch TAC 2016	8049
ICES landings TAC 2016	6838
ICES discards 2016	1211
Discard rate (all fleets)	15,05%

Comments

Step 1	Deduct de minimis from ICES total catch figure	ICES catch TAC 2015 <i>de minimis</i> Contr. to total catches <i>de minimis deduction (A)</i>	8049 7% 22,68% 128	36% of trawlers by number are included under the LO which contribute 63% to catch of hake ==22.68% total contribution to overall catch
Step 2	Deduct discards fleets not under LO	Total discards 2016	1211	Threshold for inclusion
		Contribution to discards by fleets not under LO	63,57%	STECF identify by vessel number all bottom trawls 36% of vessel included All gill netters all longlines
		If no data under previous step consider ICES discard rate	15,05%	Contribution by gear to discards
		Discards by fleets not under LO to be deducted (B)	770	All bottom trawlers contribute 97.6% of discards Gillnetters contribute 1.3% longlines 0% discards
		Total deduction A+B	898	Excluded discards
	New catch TAC	7151	bottom trawl (36% of 97.6%)	
	TAC top up % relative to ICES landings TAC	4,58%	Gillnetters 1.3% Longlines zero	
				Total under LO =36.43%
		Top up	313	Continuing discards =63.57%

ICES data	Megrim VI
ICES catch TAC	5948
ICES landings TAC	5242
ICES discards	706
Discard rate (all fleets)	11,9%

MEG IV and VI advice:
total catch 8567t, landings 4900t (65% to area VI.)
rockall componet (catch 397t, landings

advice	5947,55
Landings	
Advice	5242

STECF Data For TR1 and TR2

Step 1	Deduct <i>de minimis</i> from ICES total catch	ICES catch advice 2016	5948	Comments
		<i>de minimis</i>	0%	
		Contr. to total catches	0%	
		<i>de minimis</i> deduction (A)	0	
Step 2	Deduct discards fleets <u>not</u> under LO	Total discards 2016	706	Threshold for inclusion (same criteris as Haddock VI)
		Contribution to discards by fleets not under LO (Landings under Lo/total landings)	37,6%	STECF identify (vessel numbers) TR1 75% included TR2 13% included.
		If no data under previous step consider ICES discard rate	0,0%	Contribution by gear to discards
		Discards by fleets not under LO to be deducted (B)	265	TR1 contribute 79.7% of all discards
		Total deduction A+B	265	TR2 contribute 20.3% of all discards
		New catch TAC	5682,2	Excluded discards
		TAC top up % relative to ICES landings TAC	8,40%	TR1 75%* 79.7%=59.775%
		TAC top up % if no deduction of de minimis		TR2 13%* 20.3% =2.63%
		New catch TAC	5682	Total under LO =62.4%
		TAC top up %	8,4%	
				Continuing discards =37.6%
		top up	440	

LO applies where total landings of all species consist of more than 5% of haddock, whiting, cod and saithe.

Nephrops in IV N Sea	ICES advice		wanted catch	landings	Discards	Rates	5% de minimis	top up	Non-zero top up
	catch								
Botney Gut	5	895	895		0	0,00%	53,7	-53,7	0
Farn Deep	6	1143	1020		123	10,76%	68,58	54,42	54,42
Fladen	7	12699	12656		43	0,34%	761,94	-718,94	0
Firth Forth	8	2518	2190		358	14,05%	152,88	205,12	205,12
Moray Firth	9	1025	1028		5	0,49%	61,38	-56,38	0
Noup	10	40	38		2	5,00%	2,4	-0,4	0
Horn's Reef	33	1119	1119		0	0,00%	67,14	-67,14	0
Devil's Hole	34	492	459		33	6,71%	29,52	3,48	3,48
other rectangles	other	376	376		0	0	22,56	-22,56	0
Overall		20335	19771		564	0,027735		-656,1	263,02
de min rate	0,06								263,02
							TAC		
									263,02

Nep VI	Total Catch at current discard rate	Landings at current discard rate	Discard	Discard rate	7% de minimis	top up	Non Zero top up
outside	376	376	0	0	22,82	-22,82	0
11	3814	3610	204	5,35%	266,98	-62,98	0
12	6419	6196	223	3,47%	449,33	-226,33	0
13	5755	5276	479	8,32%	402,85	76,15	76,15
13	992	909	83	8,37%	69,44	13,56	13,56
Totals	17306	16317	985	5,7%	1211,42	-222,42	89,71

de min rate	0,07						TAC	16406,74
de min amount	remaining	16094,58			0,550%			89,71

Nep VII	Total Catch at current discard rate	Landings at current discard rate	Discard	Discard rate	7% de minimis	top up	Non Zero top up
14	995	941	54	5,4%	69,65	-15,65	0
15	11248	9376	1872	14,9%	787,36	1084,64	1084,64
16	3100	3100	0	0,0%	217	-217	0
17	489	456	33	6,7%	34,23	-1,23	0
18	235	235	0	0,0%	16,45	-16,45	0
19	838	599	239	28,5%	58,66	180,34	180,34
20-21	2063	1807	256	12,4%	144,41	111,59	111,59
22	3552	2727	825	23,2%	248,64	576,36	576,36
Totals	22520	19241,00	3279	14,6%	1576,4	1702,6	1952,93

de min rate	0,07						TAC	21189,93
de min amount	1458,31	remaining	20943,6		10,1498%			1952,93

Nep IIIa	Total Catch at current discard rate	Landings at current discard rate	Discard	Discard rate	0% de minimis	top up	Non Zero top up
Nep IIIa	13098	12715	383	2,9%			

de min rate	0,06						TAC	12715
de min amount	#VALUE!				0,00%			0

De Minimis applied Survival exemption (80mm trawls with 35mm grid, top panel 270mmdiamond/140 smp. MCRS total length 105mm, cp length 59mm)

Nep VIIIc

Stock under survivability exemption.

No tac top up possible

NEP VIIIadbe

No tac top up

The TAC should correspond to ICES landings advice of 3214t because of survivability exemption.

Nephrops in Area IX

Stock under survivability exemption.

No tac top up possible

Plaice VIII,IX

Not possible to calculate the TAC adjustment
because discards are unknown.

No discard rate from STECF

No top up possible

ICES data	Plaice VI
ICES catch TAC	no advice
ICES landings TAC	
ICES discards	
Discard rate (all fleets)	

Statement Stock

No increase

ICES data	Plaice III Kat
ICES catch TAC	3058
ICES landings TAC	2065
ICES discards	993
Discard rate (all fleets)	32,5%

amended 23/11

Total catch 8333
Landings 6199
Allocation to IIIa
Total Catch 3058, landings 2065

STECF

Step 1	Deduct <i>de minimis</i> from ICES total catch figure	ICES catch advice 2016	3058	Comments
		<i>de minimis</i>	0%	
		Contr. to total catches	0%	
		<i>de minimis</i> deduction (A)	0	
Step 2	Deduct discards fleets <u>not</u> under LO	Total discards 2016	993	Threshold for inclusion
		Contribution to discards by fleets not under LO (Landings under Lo/total landings)	35,5%	All TR1 fleet no discards from TBB
		If no data under previous step consider ICES discard rate	0,0%	
		Discards by fleets not under LO to be deducted (B)	353	Contribution by gear to discards
		Total deduction A+B	353	TR1 contribution to discards 64.5%,
		New catch TAC	2705	no applicable discards from Beam Trawls
		TAC top up % relative to ICES landings TAC	31,0%	Excluded discards
		TAC top up % if no deduction of <i>de minimis</i>		TR1: 64.5%
		New catch TAC	2705	Total under LO =64.5%
		TAC top up %	31,0%	Continuing discards =35.5%
		top up	640	

LO applies to : catches of plaice by Beam trawl (>120mm)
Trawls greater than 100mm (TR1)

NO Deminimis exemptions

ICES data	Pollock
ICES catch TAC	5225
ICES landings TAC	5215
ICES discards	10
Discard rate (all fleets)	0,2%

Commerical catch in 2014- 5255t,
discards 10t.....
STECF id 1% discard rate, for entire VII TAC

STECF Data For TR1 and TR2

Step	Description	Value	Comments
Step 1	Deduct de minimis from ICES total catch figure	ICES catch advice 2016	5225
		<i>de minimis</i>	0%
		Contr. to total catches	0%
		de minimis deduction (A)	0
Step 2	Deduct discards fleets <u>not</u> under LO	Total discards 2016	10
		Contribution to discards by fleets <u>not</u> under LO (Landings under Lo/total landings)	51,1%
		If no data under previous step consider ICES discard rate	0,0%
		Discards by fleets not under LO to be deducted (B)	5
		Total deduction A+B	5
		New catch TAC	5219,9
		TAC top up % relative to ICES landings TAC	0,09%
		TAC top up % if no deduction of de minimis	
		New catch TAC	5220
		TAC top up %	0,1%
		top up	5

ICES data	Sole VIID
ICES catch TAC	2487
ICES landings TAC	2257
ICES discards	230
Discard rate (all fleets)	9,2%

Step 1	Deduct de minimis from ICES total catch figure	ICES <u>catch</u> advice 2016	2487	Comments
		<i>de minimis (for some gears)</i>	3%	
	Beam Trawl	<i>Contribution</i>	42,9%	trammel nets contribute 42.9% of catch
	Gill; net	<i>Contribution</i>	3%	
		<i>Contr. to total catches de minimis deduction (A)</i>	34,4% 2,32% 57,7	TBB contribute 34.4% to total catch
Step 2	Deduct discards fleets <u>not</u> under LO	Total discards 2016	230	Threshold for inclusion
		Contribution to discards by fleets <u>not</u> under LO (Landings under Lo/total landings)	32,2%	All beam trawls All gillnets all bottom trawls <100mm with 5% sole (STECF id 43% of vessels by number)
		If no data under previous step consider ICES discard rate	0,0%	
		Discards by fleets not under LO to be deducted (B)	74,1	Contribution by gear to discards Beam trawls contribute 37.1% to discards Gill nets contribute 7.9% to discards Demersal Trawls contribute 53%
		Total deduction A+B	132	Excluded discards
		New catch TAC	2355	Beam trawls contribute 37.1% Gillnets 7.9% Bottom trawls contribute (53% of 43%)=22.79%
		TAC top up % relative to ICES landings TAC	4,35%	Total under LO =67.79%
	TAC top up % if no deduction of de minimis		Continuing discards =32.21%	
	New catch TAC			
	TAC top up %			

Sole Vile

ICES data	Sole Vile
ICES catch TAC	1198
ICES landings TAC	1178
ICES discards	20
STECF discards	
Discard rate (all fleets)	1,7%
New Catch	

STECF data	BT2	GN1	Total
discard rate:	1%	0%	
catches	52%	9%	
contr. discard	5%	0%	5%
contr. discard not LO			95%
Discards (t)			
BT2			6,23
GN1			0,00
BT2 + GN1			6,23
Total discards			125
discards not under LO			118,36

Step	Description	ICES catch advice 2016	Value	Comments
Step 1	Deduct de minimis from ICES total catch figure	ICES catch advice 2016	1178	
	<i>de minimis</i>		3%	Comments <i>de minimis</i> applies to gillnets only in Vile,f,g contribute 7.4% to overall catch
	Contr. to total catches		7%	
	de minimis deduction		2,62	
	<i>de minimis</i>		3%	De minimis applies for beam trawls in Vile,f and g (gear >80mm) with more than 5% catch (64% by number) contribute 51.6% to total catch therefore =rate 51.6% *64%= 33%,
Contr. to total catches		33%		
	de minimis deduction		0,03	
	de minimis deduction (A)		2,64	
Step 2	Deduct discards fleets not under LO	Total discards 2016	20,00	Threshold for inclusion
		Contribution to discards by fleets not under LO	96,9%	Beam trawls with >5% catch of sole; contribute 4.9% to discards all gill nets; no contribution to discards
		If no data under previous step consider ICES discard rate	1,7%	
		Discards by fleets not under LO to be deducted (B)	19,38	Contribution by gear to discards Beam trawls ; STECF identify 64% of vessels by number included
		Total deduction A+B	22,02	Excluded discards
		New catch TAC	1156	Beam Trawls (4.9% of 64%)= 3.1% Gillnets =0%
	TAC top up % relative to ICES landings TAC	-1,9%	Total under LO =3.1%	
				Continuing discards =96.9%

Net top up

de minimis and discarding greater than ICES advice: no top up

ICES data	Sole VII,f,g
ICES catch TAC	806
ICES landings TAC	782
ICES discards	24
Discard rate (all fleets)	3,0%

Step 1	Deduct <i>de minimis</i> from ICES total catch figure	ICES catch advice 2016	806	Comments
		<i>de minimis</i> (for some gears)	3%	VIIe,f and g (gear >80mm) with increased selectivity STECF id overall catch contribution of 30.6%
	Beam Trawl	Contribution	18,6%	
	Gill; net	Contribution	3%	3% <i>de minimis</i> applies to all gillnets in VIIe,f,g contribution to catches = 4%
		Contr. to total catches	4%	
			0,68%	
		<i>de minimis</i> deduction (A)	5	
Note			5,5	It is not possible to link gears with area using STECF information.
Step 2	Deduct discards fleets not under LO	Total discards 2016	24	Threshold for inclusion
		Contribution to discards by fleets not under LO (Landings under Lo/total landings)	87,8%	All trammel and gill nets Beam trawls (61% by number)
		if no data under previous step consider ICES discard rate	0,0%	contribution to discard under the LO
		Discards by fleets not under LO to be deducted (B)	21	Gillnets 0% discard beam trawls contribute 20% to discards.
		Total deduction A+B	27	Excluded discards
		New catch TAC	779	for beam trawl 20% of 61%= 12.2%
		TAC top up % relative to ICES landings TAC	-0,3%	Total under LO 12.2%
		TAC top up % if no deduction of <i>de minimis</i>		Continuing discards =87.8%
		New catch TAC	785	
		TAC top up %	0,4%	

Continuing discards and *de minimis* higher than current advice;
do not include *de minimis* (extent of application uncertain)

ICES data	Sole III a
ICES catch TAC	555
ICES landings TAC	534
ICES discards	21
Discard rate (all fleets)	3,8%

STECF

Step 1	Deduct <i>de minimis</i> from ICES total catch figure	ICES <u>catch</u> advice 2016	555	Comments
	<i>de minimis</i>		2%	2% de minimis for beam trawlers contribution to catch: STECF identify in IIIa 70-99mm trawls ;41.7% (assuming all have grids)
	Contr. to total catches		41,7%	
	<i>de minimis</i> deduction		4,629	
	<i>de minimis</i>		3%	de minimis for gillnetters STECF id 16.5% contribution by all GN in IIa,3B1
	Contr. to total catches		16,5%	
	<i>de minimis</i> deduction		77	
	Total de minimis		82	
Step 2	Deduct discards fleets <u>not</u> under LO	Total discards 2016	21	Threshold for inclusion
	Contribution to discards by fleets <u>not</u> under LO (Landings under Lo/total landings)		17,4%	All bottom Trawls All beam Trawls all gill nets
	If no data under previous step consider ICES discard rate		0,0%	Contribution to discard under the LO
	Discards by fleets <u>not</u> under LO to be deducted (B)		4	All trawls (14.3 and 65.2) =79.5% beam trawls no data gillnets 3.1%
	Total deduction A+B		81	Excluded discards
	New catch TAC		474	Total under LO =82.6%
	TAC top up % relative to ICES landings TAC		-11,2%	Continuing discards =17.4%
	TAC top up % if no deduction of <i>de minimis</i>			Uncertainty in application of <i>de minimis</i> , <i>de minimis</i> not applied in calculation
	New catch TAC		551	
	TAC top up %		3,2%	
	TOP up (t)		17	

Landing obligation applies to SOLE in
IV and II with trawls 80-99mm,
Area IIIa with trawls 70-99mm
All areas Beam Trawls 80-119mm
all gill nets