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COMMISSION OF THE EUROPEAN COMMUNITIES

COM(83) 481 final

Brussels, 25th July 1983

REPORT

COMMISSION EXPERT GROUP ON METHODOLOGY IN THE DISTRIBUTION
OF THE NORTH SEA HERRING STOCK

COM(83) 481 final

EXPLANATORY MEMORANDUM

This report was produced by the Commission expert Group on methodology in the distribution of the North Sea herring stock in response to the terms of reference agreed at the Council of 11-12 July 1983.

COMMISSION EXPERT GROUP ON METHODOLOGY IN THE DISTRIBUTION OF
THE NOTRH SEA HERRING STOCK

1. TERMS OF REFERENCE

To consider, using the criteria for distribution underlying art. 4 of Regulation n° 170/83 of 25 January 1983, a theoretical distribution of the North Sea herring stock for human consumption.

To examine the question of reaching such a distribution in function of the recovery of the stock.

To consider the factors affecting the division of resultant quotas between sub-zones IVa, IVb and IVc.

2. MEETINGS

The group met on 15 July 1983 and on 20 July 1983.

3. PARTICIPANTS

		<u>15/7</u>	<u>20/7</u>		<u>15/7</u>	<u>20/7</u>
F. D'ANIELLO	(I)	x	x	For the Commission :		
E. BERLE	(D)	-	x	M. HOLDEN	x	x
P. de GRAND RY	(B)	x	x	C. HERBST	x	x
FOURNEYRON	(F)	x	x	D. TYSON	x	-
KAAE	(DK)	-	x			
N. KLEESCHULTE	(D)	x	-			
A.G. KUYK	(UK)	x	x	Observers (Council) :		
A. LAGIS	(GR)	x	x	Mr. CONTAGYRIS	x	x
J. LØKKEGAARD	(DK)	x	x	Miss MECKMANN	x	x
L. MAERTENS	(B)	x	x			
K. NORMARK	(DK)	x	x			
H. OOSTROM	(NL)	x	x			
R.J. PACKER	(UK)	x	x			
J. ROWAN	(IRL)	x	x			
B. SPANGGAARD(Miss)	(DK)	x	-			
B. WIGOTSKI	(DK)	x	x			

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4. PROCEDURE

The group agreed firstly, to examine the manner in which each of the criteria of 30 May 1980 should be used in any model and secondly to determine the model. Subsequently, the model would be used to calculate theoretical distributions as a function of the recovery of the stock. The factors affecting the division of the resultant quotas between divisions IVa, IVb and IVc, VIId would then be examined.

5. CATCH STATISTICS

Calculations should be based on a published set of catch statistics.

Those published in ICES Cooperative Research No. 60 (Appendix Tables 4 to 8 and ICES Documents CM 1979/H : 6 (Tables 2.3 - 2.7) and CM 1980/H: 4 (Tables 3.1 and 3.2) are the most appropriate because :

1. catch statistics are available for the four relevant ICES divisions IVa, IVb and IVc, VIId; (those for divisions IVa and IVb are available separately : those for IVc and VIId are combined and are not available separately).
2. The catches of adult herring and of young herring are shown separately. It was noted that, for some Member States, the separation of catches between divisions was probably based on estimates and not on actual catch statistics.

The official statistics published by EUROSTAT and in the ICES Bulletins Statistiques do not give catches by ICES divisions for all Member States and they provide only total catches, irrespective of the type of fishery.

It was agreed that catches of young herring should not be included in calculating traditional fishing because they were caught in a directed fishery for reduction to meal and oil. All catches of adult herring should be included. There is no objective method of distinguishing adult herring caught directly for reduction to meal and oil from herring caught for human consumption and sold for reduction as a result of lack of market demand at the time of landing.

Catch statistics for the North Sea are given in Annexes I to IV.

6. PERIOD FOR CALCULATING TRADITIONAL FISHING

There was no agreement upon the period which should be used. The period 1973-78 was generally considered inappropriate for North Sea herring because the stock was collapsing during 1973-76 and in 1977-78 the fisheries were closed.

A longer period was thought more appropriate but there was no agreement as to what it should be.

Suggestions included :

- 1960 - 1969

- 1950 - 1976

- 1950 - 1969

- 1967 - 1976

- 1973 - 1976

- 10 year period for each Member State in which its catches were highest.

7. HAGUE PREFERENCE

There was discussion as to whether the Hague Preference should be included in the model, or only allowed to a limited extent, because the herring fishery was no longer a coastal fishery for whose benefit Hague Preferences had been intended. However, Annex VII of the Hague Agreement refers to areas where the local communities are particularly dependent upon fishing and the industries allied thereto without specifying the areas in which these communities fish. (Council Document R/2227/76 (AGRI 644) (RELEX 36).

The Hague Preference does not benefit the UK at an EC share of the TAC greater than approximately 200.000 t.

8. JURISDICTIONAL LOSSES

Jurisdictional Losses should be limited to losses in the NAFO area because it is unlikely that the Community will ever have catch possibilities for herring in the future and therefore these losses can be specifically quantified.

Losses should be equalised following the method described in document SEC (82)930 of 11.6.82, using the historic base period for the North Sea.

The following method of treating Jurisdictional Losses was decided :

1. the maximum compensation should be 60 % similar to the level agreed in the settlement of 25 January 1983 for other stocks;
2. the maximum compensation should be given at a TAC of 400.000 t (see paragraph 11);
3. below this level, compensation should be given in proportion to the EC share of the TAC : for example 50 % when the EC share was 200.000 t.

The period for calculating Jurisdictional Losses is the same as that used for calculating traditional fishing, i.e. 1960-1976.

9. STOCKS

There were opposing views as to whether the North Sea herring stock should be considered as a single unit for the purposes of the model, as stated in the terms of reference, or as three separate stocks.

There was a general consensus that the quota allocation for other stocks of herring had been decided by the agreement of the 25 January 1983 and that any model should refer only to North Sea herring without considering any other herring stocks.

10. THE MODEL

Calculations were made on the basis of the model described in document SEC(82)930 of 11.06.1982 modified in the light of the discussions of the group.

Jurisdictional Losses were calculated using the method described in Paragraph 8.

11. DISTRIBUTION OF QUOTAS AS A FUNCTION OF THE RECOVERY OF THE STOCK

The best method by which to determine this distribution would be to calculate, using the model, the allocations which would result at various levels of TACs.

Because the historic market for human consumption purposes was 400.000 t, it was proposed that this should be the maximum TAC for which allocations should be calculated and that, once this level of TAC occurred, a new model might be appropriate.

12. DIVISION OF RESULTANT QUOTAS BETWEEN ICES DIVISIONS IVa, IVb and IVc, VIId.

It was agreed that, if the resultant quotas had to be divided between divisions, they should be divided in the ratio of the average catches in each division by each Member State during the period selected for calculating traditional fishing within the limits of the TAC. Transfers to other divisions should be made if required to avoid exceeding the TAC. Some members of the group thought it would be better not to divide the quotas by divisions, even if the scientific advice continued to be given in this manner.

13. SUMMARY RESULTS

Results are given in Annexes V to IX.

They are based on the following :

1. Traditional fishing : average of catches 1960-76 : ACFM statistics excluding young herring.
2. Hague Preference (UK) : 13.170 t.
3. NAFO Jurisdictional Losses : base period 1960-76.

TOTAL HERRING ICES IV, VII d; comparison of statistics

	Belgium		Denmark		Germany		France		Nederland	
	CRONOS	ACFM	CRONOS	ACFM	CRONOS	ACFM	CRONOS	ACFM	CRONOS	ACFM
1960	3642	3642	127671	119400	172361	148388	5322	11137	125712	125713
61	3146	3146	148963	138800	112437	100944	30147	23042	129841	129841
62	1117	1117	131480	126000	104231	89056	21273	12271	87521	87491
63	1843	1843	125656	117600	104375	93815	24400	18062	126487	126487
64	1607	1607	152069	141600	97709	86586	21238	23235	116226	116226
65	776	776	181182	158700	84732	77032	14053	16480	80320	80320
66	391	391	135338	105900	74564	54157	8121	10711	56668	56668
67	410	410	157084	135000	39969	32312	11015	11478	37270	37270
68	134	134	185878	163100	27117	21216	16053	12852	22320	22306
69	468	467	202909	180260	46082	12798	18852	15307	29769	29769
1970	780	1200	167718	133331	38307	7150	13966	11482	49416	46218
71	681	681	231155	185393	3952	3570	20755	11408	34947	32479
72	1338	1337	252458	213739	5644	3065	14334	12901	25863	24829
73	2112	2160	238868	172147	10634	10634	22235	22235	34070	34070
74	675	603	67013	61728	8012	12455	13741	15548	36302	35106
75	2451	2451	119022	104407	20681	16245	6663	20391	38007	38416
76	1433	1430	34841	23054	1654	1617	14476	14244	20320	20146
77	57	57	14788	6123	221	221	1594	1161	4005	4092

Source: CRONOS = 1960-64: ICES Bulletin Statistique, 1965-77: CRONOS print-out
 except France and EUR-9: 1960-68: Bulletin Statistique, 1969-77: print-out
 ACFM = 1960-73: ICES Cooperative Research Report No 60
 1974-77: ICES Doc. C.M. 1979/H:6 and ICES Doc C.M. 1980/H:4

TOTAL HERRING ICES IV, VII d; comparison of statistics

	United Kingdom		EUR - 9						
	CRONOS	ACFM	CRONOS	ACFM					
1960	46265	45360	480973	453640					
61	41472	40887	466006	436660					
62	36177	34410	381799	350345					
63	57502	57392	440263	415199					
64	37949	37658	426798	406972					
65	39644	32063	400707	365371					
66	42480	28273	317562	256100					
67	28347	26353	274095	242877					
68	23498	21605	275000	241213					
69	28310	28719	326390	267320					
1970	32470	31587	302657	230968					
71	30900	29268	322390	262799					
72	24906	17621	324543	273492					
73	18905	18280	326824	259526					
74	20831	16213	146574	139653					
75	15327	15379	202151	197289					
76	25025	24677	97749	85168					
77	9131	8551	29796	20205					

Catch - ADULT HERRING - ICES IV, VII d, e

ACFM

tons

	B	DK	D	F	IRL	NL	LJK	EEC	
1960	3642	41800	126066	11137		125713	45360	353718	
61	3146	61500	84395	23042		129841	40887	342811	
62	1117	49600	65081	12271		87491	34410	249970	
63	1843	58300	84798	18062		126487	57392	347482	
64	1607	53100	58460	23295		116226	37658	290346	
65	776	49700	51023	16480		80320	32063	230362	
66	391	51400	41420	10711		56668	28273	188863	
67	410	51600	30463	11478		37270	26353	157574	
68	134	57100	20369	12852		22306	21605	134366	
69	467	66910	4898	15307		29769	28719	146070	
70	1200	63223	6750	11482		46218	31587	160460	
1971	681	53232	515	11408		32479	29268	127583	
72	1337	51068	242	12901		24829	17621	107998	
73	2160	42159	4996	22235		34070	18280	123900	
74	603	17862	5695	13548		35106	16213	89027	
75	2451	27425	4396	20391		38416	15379	108458	
76	1430	23054	1617	14244		20146	24677	85168	
77	57	6123	221	1161		4092	8551	20205	
78								-	
∅ 60-76	1376	48214	34776	15344		61374	29750	190834	

North Sea Herring

ACFM

tons

	Denmark				Germany					
	Young	Adult	Total	% Y/T	Young	Adult	Total	% Y/T		
1960	77600	41800	119400	65,0	22322	126066	148388	15,0		
61	77300	61500	138800	55,7	16549	84395	100944	16,4		
62	76400	49600	126000	60,6	23975	65081	89056	26,9		
63	58700	58900	117600	49,9	9017	84798	93815	9,6		
64	88500	53100	141600	62,5	28126	58460	86586	32,5		
65	109000	49700	158700	68,7	26009	51023	77032	33,8		
66	54500	51400	105900	51,5	12737	41420	54157	23,5		
67	83400	51600	135000	61,8	1849	30463	32312	5,7		
68	106000	57100	163100	65,0	847	20369	21216	4,0		
69	113350	66910	180260	62,9	7900	4898	12798	61,7		
70	70108	63223	133331	52,6	400	6750	7150	5,6		
71	132161	53232	185393	71,3	3055	515	3570	85,6		
72	162671	51068	213739	76,1	2823	242	3065	92,1		
73	129988	42159	172147	75,5	5638	4996	10634	53,0		
74	43866	17862	61728	58,5	6760	5695	12455	54,3		
75	* 76982	27425	104407	73,7	11849	4396	16245	72,9		
76		23054				1617				
77		6123				221				
78		0				-				

HERRING

ICNAF / NAFO AREA

1960-1964

EC MEMBER COUNTRIES : ZERO CATCHES

* TABLE *

	D	F	EC	TOTAL
1965	0	0	0	262877
1966	0	0	0	430728
1967	28171	0	28171	594238
1968	81201	0	81201	951703
1969	95629	0	95629	878924
1970	93896	0	93896	810681
1971	56505	0	56505	747110
1972	31333	500	31833	548663
1973	33846	2794	36640	485437
1974	26987	4080	31067	433276
1975	24349	4853	29202	448342
1976	9551	1196	10747	322533
1977	0	0	0	282102
1978	0	0	0	296672
1979	0	1	1	252970
1980	0	0	0	260404
1981	0			
1982				
1983				
1984				

Source :
 C.S.S.O.S
 supplemented by
 ICES and NAFO data.

allocations to Member States based on 1960/76 average catches
 (industrial catches disallowed)
 showing effects of Hague preferences.

- Tonnes -

Stock Herring	D	F	NL	B	UK	DK	IRL	EEC TOTAL	Hague Preferences		
									UK	IRL	Greenland
(a) 1960/76 average catches excluding industrial catches	34776	15344	61374	1376	29750	48214	0	190834	1975 catches		
									13170		
(b) line (a) as %	18,22	8,04	32,16	0,721	15,59	25,26	-	100,0			
(c) 1960/76 average catches, adjusted for Hague preferences	34776	15344	61374	1376	16580	48214	0	177664	1975 catch	1975 catchx2	TOTAL
									13170		190834
(d) Line (c) as %	19,57	8,64	34,55	0,77	9,33	27,14	-	100,0			
(e) national allocations based on line (d)	13923	6143	24572	551	19808	19303	0	71130	13170	1975 catchx2	84300
(f) national allocations, including Hague preferences	13923	6143	24572	551	19808	19303	0	84300			
(g) Line (f) as %	16,52	7,28	29,15	0,65	23,50	22,90	-	100,0			

Source :
 CATCHES
 supplemented by
 ICES and NAFO data.

allocations to Member States based on 1960/76 average catches
 (industrial catches disallowed)
 showing effects of Hague preferences.

- Tonnes -

Stock Herring <i>AV</i>	D	F	NL	B	UK	DK	IRL	EEC TOTAL	Hague Preferences		
									UK	IRL	Greenland
(a) 1960/76 average catches excluding industrial catches	34776	15344	61374	1376	29750	48214	0	190834	1975 catches		
									13170		
(b) line (a) as %	18,22	8,04	32,16	0,72	15,59	25,26	-	100,0			
(c) 1960/76 average catches, adjusted for Hague preferences	34776	15344	61374	1376	16580	48214	0	177664	1975 catch 13170	1975 catchx2	TOTAL 190834
(d) Line (c) as %	19,57	8,64	34,55	0,77	9,33	27,14	-	100,0			
(e) national allocations based on line (d)	16996	7499	29995	672	8103	23564	0	86829	13170	1975 catchx2	100000
(f) national allocations, including Hague preferences	16996	7499	29995	672	21273	23564	0	100000			
(g) Line (f) as %	17,00	7,50	30,00	0,67	21,27	23,56	-	100,0			

Source :
 COMOS
 supplemented by
 ICES and NAFO data.

allocations to Member States based on 1960/76 average catches
 (industrial catches disallowed)
 showing effects of Hague preferences.

4-24-76

- Tonnes -

Stock Herring /V	D	F	NL	B	UK	DK	IRL	EEC TOTAL	Hague Preferences		
									UK	IRL	Greenland
(a) 1960/76 average catches excluding industrial catches	34776	15344	61374	1376	29750	48214	0	190834	1975 catches		
									13170		
(b) line (a) as %	18,22	8,04	32,16	0,721	15,59	25,26	-	100,0			
(c) 1960/76 average catches, adjusted for Hague preferences	34776	15344	61374	1376	16580	48214	0	177664	1975 catch	1975 catchx2	TOTAL
									13170		190834
(d) Line (c) as %	19,57	8,64	34,55	0,77	9,33	27,14	-	100,0			
(e) national allocations based on line (d)	26783	11817	47268	1060	12700	37133	0	136830	13170	1975 catchx2	150000
(f) national allocations, including Hague preferences	26783	11817	47268	1060	25939	37133	0				
(g) Line (f) as %	17,86	7,88	31,51	0,71	17,29	24,76	-	100,0			

JURISDICTIONAL LOSSES IN EXCLUSIVE THIRD COUNTRY WATERS
ICES DIVISION/NAFO ZONE

- Tonnes -

	(a) Total average	(b) EEC average 1973/76 catch	(c) (b) as a % of (a)	(d) Total 1980 catch possibility with no jurisdictional changes	(e) Notional share of EEC in (d) $\frac{d \times b}{a}$	(f) Actual EEC allocation 1980	Jurisdictional Loss
	406.736	EC 29.112	7,16	270.000	19.325	0	- 19.325 EC
		D 28.322	6,96		18.801	0	- 18.801 D
		F 790	0,20		524	0	- 524 F

(1) based on average catches 1977-80

JURISDICTIONAL LOSS - EQUALISATION TABLE

ANNEX VIII a

	Total	D	F(M)	F(SPH)	NL	B	UK(N)	UK(S)	DK(M)	DK(GL)
1. 1960/76 total average catch (exclusive internal, joint and 3rd country)	190 834	34 776	15 344		61 374	1 376	13 170	16 580	48 214	
2. Jurisdictional losses	- 2 443	- 2 377	- 66		0	0		0	0	
3. Equal percentage loss in non-hague areas		- 478	- 211		- 844	- 19		- 228	- 663	
4. Difference = transfer to equalize jurisdictional loss		+ 1 899	- 145		- 844	- 19		- 228	- 663	

EC TAC = 84 300 t

JURISDICTIONAL LOSS - EQUALISATION TABLE

ANNEX VIII b

	Total	D	F(M)	F(SPH)	NL	B	UK(N)	UK(S)	DK(M)	DK(GL)
1. 1960/76 total average catch (exclusive internal, joint and 3rd country)	190 834	34 776	15 344		61 374	1 376	13 170	16 580	48 214	
2. Jurisdictional losses	- 2899	- 2820	- 79		0	0		0	0	
3. Equal percentage loss in non-hague areas		- 567	- 250		- 1001	- 22		- 271	- 787	
4. Difference = transfer to equalize jurisdictional loss		+ 2253	- 171		- 1001	- 22		- 271	- 787	

EC TAC = 100.000 t

JURISDICTIONAL LOSS - EQUALISATION TABLE

ANNEX VIII c

	Total	D	F(M)	F(SPH)	NL	B	UK(N)	UK(S)	DK(M)	DK(GL)
1. 1960/76 ⁷⁷ total average catch (exclusive internal, joint and 3rd country)	190 834	34 776	15 344		61 374	1 376	13 170	16 580	48 214	
2. Jurisdictional losses	- 4348	- 4230	- 118		0	0	0	0	0	
3. Equal percentage loss in non-hague areas		- 851	- 376		- 1502	- 34		- 406	- 1180	
4. Difference = transfer to equalize jurisdictional loss		+ 3379	- 258		- 1502	- 34		- 406	- 1180	

EC TAC = 150 000 t

JURISDICTIONAL LOSS - EQUALISATION TABLE

ANNEX VIII d

	Total	D	F(M)	F(SPH)	NL	B	UK(N)	UK(S)	DK(M)	DK(GL)
1. 1960/76 ^{TP} total average catch (exclusive internal, joint and 3rd country)	190 834	34 776	15 344		61 374	1 376	13 170	16 580	48 214	
2. Jurisdictional losses	- 5 799	- 5 641	- 158		0	0		0	0	
3. Equal percentage loss in non-hague areas		- 1 135	- 501		- 2 003	- 45		- 541	- 1 574	
4. Difference = transfer to equalize jurisdictional loss		+ 4 506	- 343		- 2 003	- 45		- 541	- 1 574	

EC TAC = 200 000 t

JURISDICTIONAL LOSS - EQUALISATION TABLE

ANNEX VIII e

	Total	D	F(M)	F(SPH)	NL	B	UK(N)	UK(S)	DK(M)	DK(GL)
1. 1960/76 total average catch (exclusive internal, joint and 3rd country)	190 834	34 776	15 344		61 374	1 376	13 170	16 580	48 214	
2. Jurisdictional losses	- 8 697	- 8 461	- 236		0	0		0	0	
3. Equal percentage loss in non-hague areas		- 1 702	- 751		- 3 004	- 67		- 812	- 2 360	
4. Difference = transfer to equalize jurisdictional loss		+ 6 759	- 515		- 3 004	- 67		- 812	- 2 360	

EC TAC = 300 000 t

JURISDICTIONAL LOSS - EQUALISATION TABLE

ANNEX VIII f

	Total	D	F(M)	F(SPH)	NL	B	UK(N)	UK(S)	DK(M)	DK(GL)
1. 1960/76 total average catch (exclusive internal, joint and 3rd country)	190 834	34 776	15 344		61 374	1 376	13 170	16 580	48 214	
2. Jurisdictional losses	- 11 596	- 11 281	- 314		0	0		0	0	
3. Equal percentage loss in non-hague areas		- 2 270	- 1 000		- 4 006	- 90		- 1 082	- 3 147	
Difference = transfer to equalize jurisdictional loss		+ 9 011	- 686		+ 006	- 90		- 1 082	- 3 147	

EC TAC = 400 000 t

