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Past Canadian groundfish landings from the  
proposed closed area in ICNAF Division 4W - March-May

by

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The tabulation of Canadian (M+Q) landings of groundfish species for the years 1962-69 in the proposed closed area in ICNAF Division 4W, during the haddock spawning season (March-May), is given in the attached tables. Figures for cod, haddock, redfish, halibut, flounders, and others are shown.

Since the boundaries of the proposed closed area do not coincide with any group of existing groundfish statistical unit areas (see Fig. 1), an estimation of the part of the landings taken in the closed area was made. This was done in the following steps:

- (1) The part of the landings that were not assigned to a unit area in Division 4W (4WNL in tables) was prorated over all the unit areas.
- (2) For the possible maximum landings during the past from the proposed closed area, a total of the actual and prorated landings for unit areas 4WH, 4WJ, 4WK, and 4WL were taken.
- (3) For the possible minimum landings during the past from the proposed closed area, actual and prorated landings from unit area 4WL alone were used.

These possible maximum and minimum landings from the area are shown in the tables. Comparison of the former with the total Division 4W landings, for March-May, indicates in general that for all species the bulk of the Canadian landings during this period come from the proposed closed area. This is to be expected since the traditional Canadian spring fishery for haddock has been in the Western and Emerald Bank (4WH, J, and L) areas of Division 4W, where the closure during the spawning season is proposed.

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It will be noted that the suggested position of the southern boundary line has been placed so that it will interfere, as little as possible, with the redfish and halibut fisheries which are usually pursued in depths greater than 100 fathoms.

Total Canadian landings for the year by vessels over 25 gross tons are shown in each table for comparative purposes.

Table 1. Landings by unit area and total landings from Division 4W for the months of March, April and May. Canada (Maritimes and Quebec) - metric tons round - over 25 gross tons.

<u>YEAR</u>	<u>AREA</u>	<u>COD</u>	<u>HADDOCK</u>	<u>REDFISH</u>	<u>HALIBUT</u>	<u>FLOUNDER</u>	<u>OTHERS</u>
1962	4WD	182	9	1	0	248	4
	4WE	168	21	27	9	111	84
	4WF	0	0	0	1	0	0
	4WG	0	0	0	0	0	0
	4WH	562	407	12	15	191	660
	4WJ	601	473	2	13	18	258
	4WK	0	0	0	0	0	0
	4WL	412	1229	1	21	42	288
	4WVK	5123	5278	155	203	1942	3402
	<b>TOTAL</b>	<b>7048</b>	<b>7417</b>	<b>198</b>	<b>262</b>	<b>2552</b>	<b>4696</b>
	4W						
	Possible maximum and minimum landings from proposed closed area in Division 4W in months of March, April and May.						
	Maximum	5765	7312	73	217	1054	4376
	Minimum	412	1229	1	21	42	288
	Total Canadian landings from Division 4W for the year.						
		11712	14913	431	566	5901	11140

Table 2. Landings by unit area and total landings from Division 4W for the months of March, April and May. Canada (Maritimes and Quebec) - metric tons round - over 25 gross tons.

<u>YEAR</u>	<u>AREA</u>	<u>COD</u>	<u>HADDOCK</u>	<u>REDFISH</u>	<u>HALIBUT</u>	<u>FLOUNDER</u>	<u>OTHERS</u>
1963	4WD	62	103	41	2	202	9
	4WE	256	55	0	2	82	83
	4WF	133	225	129	28	33	95
	4WG	0	0	0	0	0	0
	4WH	114	108	27	4	57	65
	4WJ	108	226	0	4	9	71
	4WK	0	0	0	0	0	5
	4WL	249	1360	0	13	4	106
	4WNK	2190	3082	76	100	1066	1287
<b>TOTAL</b>	<b>4W</b>	<b>3112</b>	<b>5159</b>	<b>273</b>	<b>153</b>	<b>1453</b>	<b>1721</b>
Possible maximum and minimum landings from proposed closed area in Division 4W in months of March, April and May.							
	Maximum	1590	4208	38	62	265	981
	Minimum	838	3376	0	37	15	420
Total Canadian landings from Division 4W for the year.							
		8287	10593	459	415	4610	5346

Table 3. Landings by unit area and total landings from Division 4W for the months of March, April and May. Canada (Maritimes and Quebec) - metric tons round - over 25 gross tons.

<u>YEAR</u>	<u>AREA</u>	<u>COD</u>	<u>HADDOCK</u>	<u>REDFISH</u>	<u>HALIBUT</u>	<u>FLOUNDER</u>	<u>OTHERS</u>
1964	4WD	114	45	19	5	827	24
	4WE	55	52	2	2	81	31
	4WF	17	23	0	3	3	73
	4WG	0	0	0	8	0	0
	4WH	483	250	13	19	95	2373
	4WJ	8	21	0	0	0	0
	4WK	0	0	0	0	0	0
	4WL	507	1183	4	19	22	590
	4WVK	1274	2265	102	70	702	1749
<b>TOTAL</b>	<b>4W</b>	<b>2458</b>	<b>3839</b>	<b>140</b>	<b>126</b>	<b>1730</b>	<b>4840</b>
Possible maximum and minimum landings from proposed closed area in Division 4W in months of March, April and May.							
	Maximum	2073	3545	64	85	199	4640
	Minimum	1053	2883	16	41	37	923
Total Canadian landings from Division 4W for the year.							
		8120	9349	243	270	4420	11655

Table 4. Landings by unit area and total landings from Division 4W for the months of March, April and May. Canada (Maritimes and Quebec) - metric tons round - over 25 gross tons.

<u>YEAR</u>	<u>AREA</u>	<u>COD</u>	<u>HADDOCK</u>	<u>REDFISH</u>	<u>HALIBUT</u>	<u>FLOUNDER</u>	<u>OTHERS</u>
1965	4WD	165	15	34	0	347	19
	4WE	103	5	50	0	357	10
	4WF	4	0	0	2	0	34
	4WG	0	0	0	2	0	0
	4WH	1007	419	48	31	519	1806
	4WJ	24	50	0	0	1	55
	4WK	0	0	0	0	0	0
	4WL	589	360	58	41	11	357
	4WVK	2426	1750	267	124	626	1855
<b>TOTAL</b>	<b>4W</b>	<b>4318</b>	<b>2599</b>	<b>457</b>	<b>200</b>	<b>1861</b>	<b>4136</b>
Possible maximum and minimum landings from proposed closed area in Division 4W in months of March, April and May.							
<b>Maximum</b>		3699	2536	256	188	802	4023
<b>Minimum</b>		1345	1102	139	105	17	648
Total Canadian landings from Division 4W for the year.							
		11416	6776	727	394	4243	13408

Table 5. Landings by unit area and total landings from Division 4W for the months of March, April and May. Canada (Maritimes and Quebec) - metric tons round - over 25 gross tons.

<u>YEAR</u>	<u>AREA</u>	<u>COD</u>	<u>HADDOCK</u>	<u>REDEISH</u>	<u>HALIBUT</u>	<u>FLOUNDER</u>	<u>OTHERS</u>
1966	4WD	35	0	15	0	182	0
	4WE	32	3	18	5	213	8
	4WF	13	16	2	0	7	12
	4WG	1	0	0	1	0	0
	4WH	202	196	12	9	579	279
	4WJ	52	140	0	1	1	34
	4WK	8	8	5	0	0	3
	4WL	871	3865	10	57	71	1606
	4WNK	1565	2207	140	153	691	1197
	<b>TOTAL</b>	<b>4W</b>	<b>2779</b>	<b>6435</b>	<b>202</b>	<b>226</b>	<b>1744</b>
Possible maximum and minimum landings from proposed closed area in Division 4W in months of March, April and May.							
Maximum		2592	6408	90	207	1081	3108
Minimum		1991	5881	32	174	119	2595
Total Canadian landings from Division 4W for the year.							
		7484	7969	291	200	2373	6431

Table 6. Landings by unit area and total landings from Division 4W for the months of March, April and May. Canada (Maritimes and Quebec) - metric tons round - over 25 gross tons.

YEAR	AREA	COD	HADDOCK	REDFISH	HALIBUT	FLOUNDER	OTHERS
1967	4WD	96	0	25	0	201	6
	4WE	7	0	0	0	82	13
	4WF	1	0	0	2	0	0
	4WG	1	0	0	1	11	0
	4WH	194	93	85	3	387	235
	4WJ	15	1	0	8	13	2
	4WK	3	1	0	2	0	8
	4WL	883	2064	2	37	76	327
	4WNK	971	2400	33	87	194	576
	TOTAL 4W	2171	4559	145	140	964	1167
Possible maximum and minimum landings from proposed closed area in Division 4W in months of March, April and May.							
	Maximum	1982	4559	114	132	597	1130
	Minimum	1596	4356	3	95	96	644
Total Canadian landings from Division 4W for the year.							
		7182	6844	394	292	3265	5300

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Table 7. Landings by unit area and total landings from Division 4W for the months of March, April and May. Canada (Maritimes and Quebec) - metric tons round - over 25 gross tons.

YEAR	AREA	COD	HADDOCK	REDFISH	HALIBUT	FLOUNDER	OTHERS	
1968	4WD	53	1	10	0	118	7	
	4WE	207	24	17	0	200	126	
	4WF	0	0	0	0	0	0	
	4WG	12	0	1	0	8	0	
	4WH	551	323	24	9	489	500	
	4WJ	98	81	0	4	45	31	
	4WK	37	12	0	0	3	22	
	4WL	458	952	52	41	62	708	
	4WNK	2158	2706	42	116	544	1675	
	TOTAL	4W	3574	4099	146	170	1469	3069
	Possible maximum and minimum landings from proposed closed area in Division 4W in months of March, April and May.							
	Maximum	2889	4026	108	170	953	2778	
	Minimum	1156	2798	73	126	99	1559	
Total Canadian landings from Division 4W for the year.								
		9316	8071	379	331	3935	6153	

Table 8. Landings by unit area and total landings from Division 4W for the months of March, April and May. Canada (Maritimes and Quebec) - metric tons round - over 25 gross tons.

<u>YEAR</u>	<u>AREA</u>	<u>COD</u>	<u>HADDOCK</u>	<u>REDFISH</u>	<u>HALIBUT</u>	<u>FLOUNDER</u>	<u>OTHERS</u>
1969	4WD	35	22	0	0	13	8
	4WE	61	42	2	0	90	18
	4WF	0	0	0	0	0	0
	4WG	0	0	0	0	0	0
	4WH	125	468	5	11	329	309
	4WJ	1	1	0	1	7	4
	4WK	65	102	2	9	59	51
	4WL	160	1414	16	34	132	211
	4WNK	1087	3064	39	145	472	872
<b>TOTAL</b>	<b>4W</b>	<b>1534</b>	<b>5113</b>	<b>64</b>	<b>200</b>	<b>1102</b>	<b>1473</b>
Possible maximum and minimum landings from proposed closed area in Division 4W in months of March, April and May.							
	Maximum	1205	4953	60	200	924	1411
	Minimum	549	3527	39	122	231	516
Total Canadian landings from Division 4W for the year.							
		5483	7987	1728	405	2737	3262

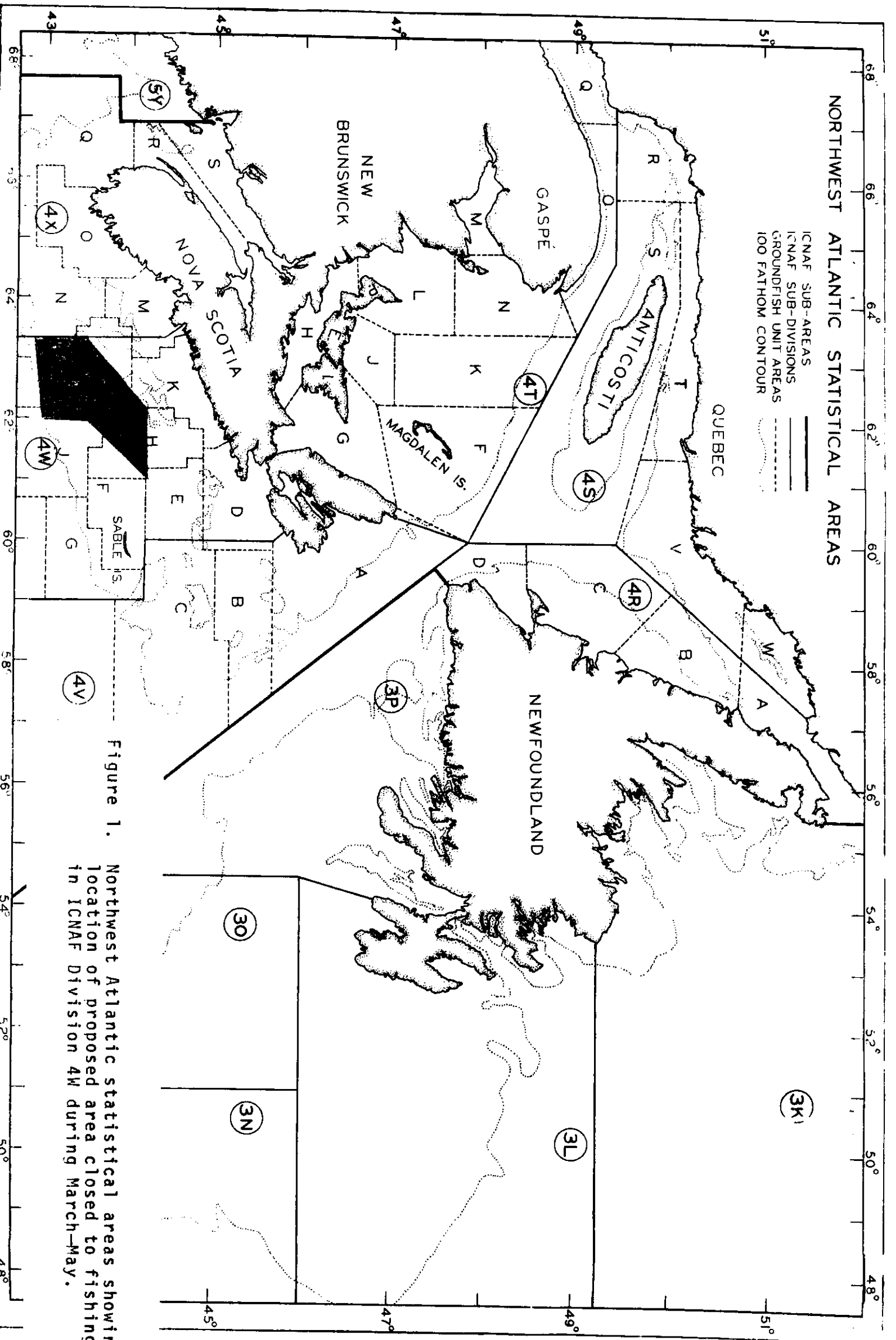


Figure 1. Northwest Atlantic statistical areas showing location of proposed area closed to fishing in ICNAF Division 4W during March-May.

