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Design of a Stratification Scheme for the Baffin Island Area

by

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The given stratification scheme was designed by using a 1 : 1 copy of the relevant section of the Canadian chart Nr. 7011 of Davis Strait (Netural Scale 1 : 1 500 000). The depth contures in metres as shown in the design were fitted by eye according to the soundings in fathoms contained in the original chart.

Ac stratification was applied to inshore areas of less than 200 m depth and west of 64°W respectively including Cumberland Sound, Frobisher Bay, and the area around Resolution Island as well as to offshore areas of over 1500 m depth.

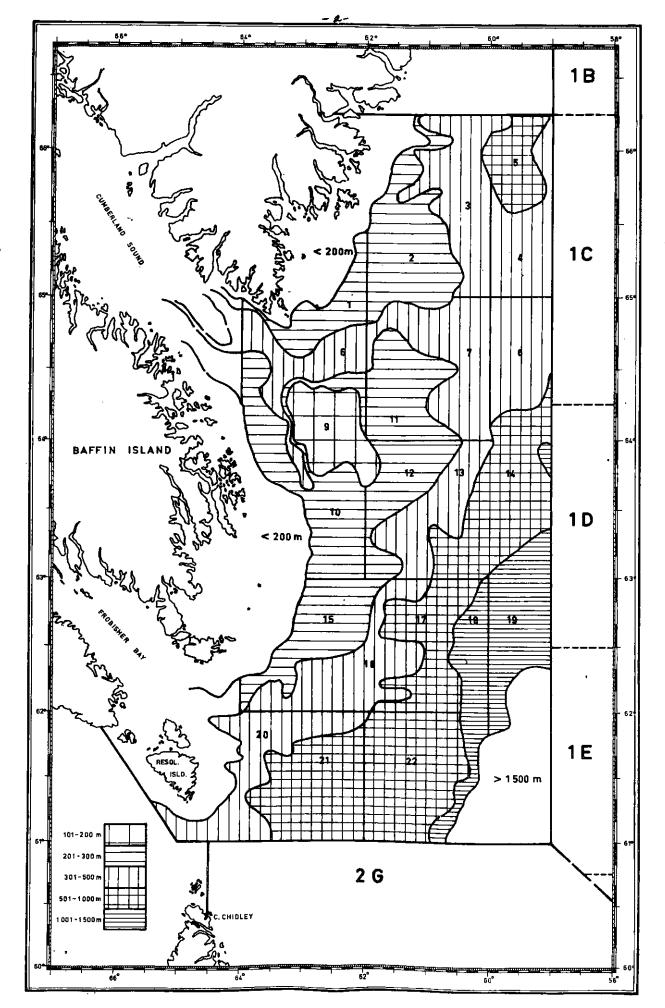
For convenience in planning and prosecution of surveys (e.g. random selection of stations etc.) the different hatching or cross-hatching of the sampling strate corresponds to every 2, 4 or 10 minutes latitude and 10 or 20 minutes longitude respectively.

The strata areas given in table 1 were measured by planimetry in cm² a.1 converted to nautical square miles using average values per cm² corresponding to the different distances in cm between latitudes on the original chart as given in table 2.

Table 1. Strata areas in nautical square miles according to depth zones. Total stratified area: 32 712 nm².

Strata 101-20(m		Strata 201-300 m		Strata 301-500 m		Strata 501-1000 m		Strata 1001-1500 m	
9	1080	1	771	3	1559	5	735	18	1186
		2	1763	4	1115	14	1564	19	1799
		10	2157	6	1028	17	1583	-	
		11	1242	7	1658	21	2188		
		12	1115	6	1188	22	2475		
		15	1521	13	1244				
				16	1857				
				20	1884				
otal	1080	8569 11533		11533		8545		2985	

Range of latitudes	Conversion factors
$61^{\circ} - 62^{\circ} N$	66.10
62 [°] - 63 [°] N	62.33
63 [°] - 64 [°] N	58.42
64 [°] - 65 [°] N	53.67
65° - 66°15' N	51.02



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