

## RESEARCH REPORTS

### DOGFISH COLLECTION AT MOUNT DESERT ISLAND BIOLOGICAL LABORATORY DURING THE SUMMER SEASONS OF 1973 THROUGH 1980

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Tables I and II summarize dogfish collection data from 1973 to 1980. The current crew has done the collections for the past three summers. There have been three other crews since 1973. The areas fished the summer of 1980 are shown in Figure 1. Sullivan Harbor/Tidal Falls (Area A) was fished in June and July with an average catch of 34 fish per trip. Sorrento/Preble Island (Area B) and Skillings River (Area C) were fished in August with an average catch of 50 and 54 fish per trip respectively. Gill nets were used in June and July while handlines were used to supplement the catch in August. Of the 1258 dogfish caught in 1980, only 110 were males. When low tide occurred during the middle of the fishing trip the number of fish caught was significantly lower than when fishing at high tide. ( $17 \pm 15$  (6) vs  $46 \pm 21$  (4).) There was no difference between the number of fish caught when tide was rising or falling ( $53 \pm 22$  (11) vs  $39 \pm 24$  (10) respectively). In the tables, averages represent arithmetical means plus or minus standard deviation.

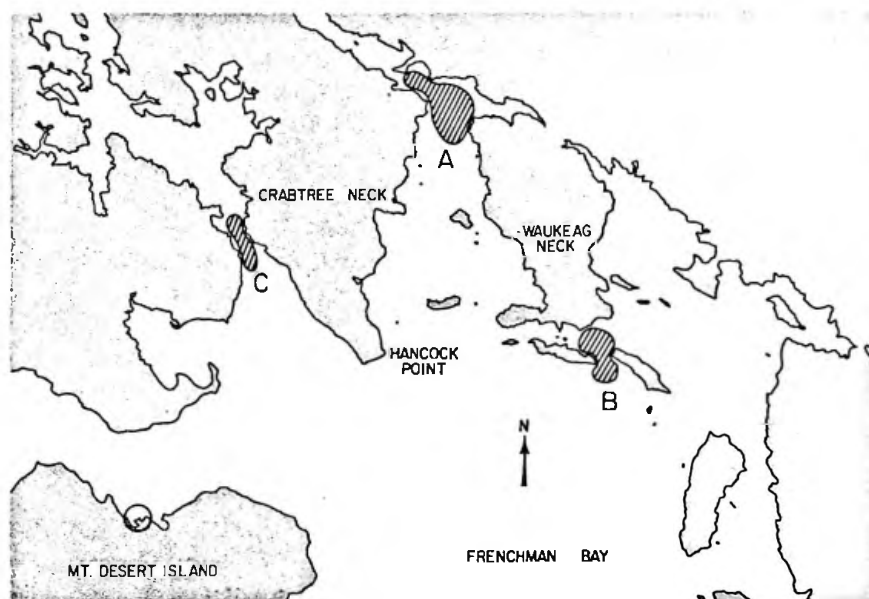


FIGURE 1

TABLE I

Dogfish Collection Data at MDIBL for the Summer Seasons 1973-1980

Year	Number of Collecting Trips	Date of First Trip	Date of Last Trip	Dogfish Collected	Dogfish Delivered to Common Pool	Dogfish/Trip Collected	Dogfish/Trip Delivered to Investigator Live Cars
1973	30	6/27	8/29	1608	452*	53 ± 32	39 ± 19
1974	38	6/19	9/16	1619	148*	43 ± 30	39 ± 30
1975	28	6/26	8/28	1353	366	48 ± 26	35 ± 20
1976	47	6/24	8/28	1258**	-	-	27 ± 18
1977	28	6/21	9/9	988	466	35 ± 22	17 ± 7
1978	23	6/20	9/8	726	155	32 ± 21	22 ± 12
1979***	34	6/14	9/11	884	62	26 ± 20	24 ± 16
1980	31	6/19	9/12	1258	585	42 ± 20	22 ± 13

\* Minimum number. On many occasions the records show only a plus (+) sign for dogfish delivered to the common pool. On other occasions the number delivered to the common pool is not stated.

\*\* In the year 1976 the number of dogfish delivered to the common pool was not stated so the number stated here only depicts those dogfish delivered to individual investigator live cars.

\*\*\* In July 1979 an unusual migration of large numbers of squid into Frenchman Bay disrupted trawl fishing and gill nets were substituted.

TABLE II

Number of Dogfish Collected per Fishing Trip for each Week of the Summer Season

Week	1973	1974	1975	1976 <sup>+</sup>	1977	1978	1979	1980	Average 1973-80 <sup>++</sup>	Average 1978-80
1*	8	13	13	13	23	16	8	26	15±7	17±9
2	18	31	9	17	32	7	14	10	17±10	10±4
3	42	41	86	24	21	25	28	48	42±22	34±13
4	69	48	31	29	48	25	39	31	42±15	32±7
5	84	52	62	39	52	41	31	43	52±17	38±6
6	50	55	53	30	33	26	10	41	38±16	26±16
7	98	87	72	27	61	53	46	39	65±22	46±7
8	65	62	54	38	37	75	27	52	53±17	51±24
9	61	50	61	24	36	32	43	85	55±18	53±28
10	53	29	35	6	41	25	32	60	39±13	39±19
11**	-	8	-	-	6	40	12	31	19±15	28±14

\* Week number 1 includes all collecting trips during the month of June.

\*\* Week number 11 includes all the collecting trips during the month of September.

<sup>+</sup> The number shown for the year 1976 depict only those fish delivered to individual investigator live cars. The total number collected was not available.

<sup>++</sup> Does not include the 1976 numbers.