

## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**		
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish	
2B	2044	7/11/98	50° 49.98'	129° 00.38' W	48	5.0	1,338	89	0	58	
2B	2045	7/11/98	50° 50.00'	129° 16.43' W	67	6.7	1,450	208	0	21	
2B	2046	7/22/98	51° 00.03'	128° 28.12' W	51	6.7	748	400	0	0	
2B	2047	7/22/98	51° 00.14'	128° 44.62' W	37	6.7	615	122	0	0	
2B	2048	7/11/98	50° 59.98'	129° 00.14' W	45	6.7	417	627	0	0	
2B	2049	7/12/98	50° 59.95'	129° 16.02' W	89	6.7	472	93	100	4	
2B	2050	7/12/98	50° 59.87'	129° 32.08' W	135	6.7	767	37	71	33	
2B	2051	7/19/98	51° 10.11'	128° 11.91' W	57	6.7	426	259	0	25	
2B	2052	7/22/98	51° 09.98'	128° 27.84' W	106	6.7	392	121	21	8	
2B	2053	7/23/98	51° 10.12'	128° 44.50' W	56	6.7	58	347	0	0	
2B	2054	7/23/98	51° 09.94'	129° 00.12' W	72	6.7	858	294	21	0	
2B	2055	8/04/98	51° 10.03'	129° 16.30' W	145	6.7	786	55	149	37	
2B	2056	7/12/98	51° 09.99'	129° 32.24' W	156	6.7	91	20	125	12	
2B	2057	7/19/98	51° 19.99'	127° 54.89' W	69	6.7	545	62	0	21	
2B	2058	7/19/98	51° 20.11'	128° 11.22' W	51	6.7	241	281	0	0	
2B	2059	7/24/98	51° 19.94'	128° 27.05' W	83	6.7	68	55	21	0	
2B	2060	7/24/98	51° 19.96'	128° 43.20' W	115	6.7	179	19	66	17	
2B	2061	7/23/98	51° 19.93'	128° 58.84' W	135	6.7	538	40	133	8	
2B	2062	8/04/98	51° 20.05'	129° 15.04' W	125	6.7	199	80	37	21	
2B	2063	8/04/98	51° 20.12'	129° 31.16' W	109	6.7	227	47	79	29	
2B	2064	7/13/98	51° 19.41'	129° 46.12' W	130	6.7	164	30	166	37	
2B	2065	7/19/98	51° 30.13'	128° 11.41' W	47	6.7	362	28	0	100	
2B	2066	7/24/98	51° 29.98'	128° 27.01' W	103	6.7	383	19	21	46	
2B	2067	7/25/98	51° 30.06'	128° 43.72' W	45	6.7	255	125	0	0	
2B	2068	7/25/98	51° 30.03'	128° 59.26' W	26	6.7	390	18	0	4	
2B	2069	8/03/98	51° 29.99'	129° 15.23' W	27	6.7	313	40	0	4	
2B	2070	8/03/98	51° 30.04'	129° 31.10' W	57	6.7	3,074	580	0	162	
2B	2071	7/13/98	51° 29.87'	129° 47.07' W	94	6.7	1,109	230	145	50	
2B	2072	7/13/98	51° 30.29'	130° 02.98' W	154	6.7	811	27	116	25	
2B	2073	7/18/98	51° 39.77'	128° 25.92' W	79	6.7	281	29	8	17	
2B	2074	7/25/98	51° 40.02'	128° 59.30' W	32	6.7	121	34	0	0	
2B	2075	8/03/98	51° 40.05'	129° 15.02' W	31	6.7	257	105	0	0	
2B	2076	7/14/98	51° 39.80'	129° 30.81' W	55	6.7	170	97	33	0	
2B	2077	7/14/98	51° 40.38'	129° 46.58' W	152	6.7	78	11	87	8	
2B	2078	7/18/98	51° 50.11'	128° 25.94' W	93	6.7	830	50	0	12	
2B	2079	7/18/98	51° 49.70'	128° 41.80' W	58	6.7	469	715	0	4	
2B	2080	8/02/98	51° 49.97'	128° 58.97' W	45	6.7	642	353	0	46	
2B	2081	8/02/98	51° 49.92'	129° 13.88' W	68	6.7	606	292	0	0	
2B	2082	7/14/98	51° 49.84'	129° 30.77' W	139	6.7	146	0	100	8	
2B	2083	7/17/98	51° 59.91'	128° 41.79' W	91	6.7	51	0	8	75	
2B	2084	7/17/98	51° 59.88'	128° 57.90' W	74	6.7	880	331	8	17	
2B	2085	8/02/98	52° 00.02'	129° 13.91' W	98	6.7	29	19	8	54	
2B	2086	7/17/98	52° 10.07'	128° 41.26' W	119	6.7	984	6	12	90	
2B	2087	7/29/98	51° 40.00'	130° 02.93' W	199	6.6	47	0	70	86	
2B	2088	7/28/98	51° 40.92'	130° 19.55' W	139	6.6	155	0	66	29	
2B	2089	7/29/98	51° 49.42'	129° 47.61' W	144	6.5	85	18	49	36	
2B	2090	7/29/98	51° 50.17'	130° 03.51' W	104	6.5	1,330	72	117	45	
2B	2091	7/28/98	51° 49.77'	130° 20.40' W	124	6.5	274	18	49	28	
2B	2092	Not Fished in 1998									

\*Standard Skate = 1,800' groundline with 16/0 circle hooks spaced every 18' on 24"-42" gangions.

\*\*Bycatch numbers extrapolated from 20-25% sample.

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			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
2B	2093	7/18/98	51° 50.12'	130° 51.87' W	109	6.4	1,218	47	28	320
2B	2094	8/01/98	51° 60.00'	129° 29.88' W	115	6.7	87	36	84	40
2B	2095	8/01/98	52° 00.00'	129° 47.23' W	64	6.7	696	593	0	21
2B	2096	7/25/98	51° 59.83'	130° 03.18' W	77	6.4	488	10	56	4
2B	2097	7/25/98	51° 59.72'	130° 19.12' W	197	6.6	0	0	139	0
2B	2098	7/18/98	52° 00.13'	130° 34.81' W	150	6.4	1,486	45	140	0
2B	2099	7/18/98	51° 59.76'	130° 51.84' W	103	6.5	1,488	150	32	4
2B	2100	7/22/98	52° 09.92'	128° 56.78' W	95	6.5	602	19	4	259
2B	2101	7/22/98	52° 09.73'	129° 14.09' W	96	6.6	190	71	49	16
2B	2102	8/01/98	52° 09.96'	129° 30.22' W	117	6.7	0	6	17	195
2B	2103	7/23/98	52° 10.07'	129° 46.44' W	114	6.6	51	8	29	33
2B	2104	7/24/98	52° 09.94'	130° 03.46' W	97	6.4	481	166	4	8
2B	2105	7/25/98	52° 09.89'	130° 18.71' W	223	6.6	0	10	98	29
2B	2106	7/17/98	52° 09.97'	130° 35.46' W	110	6.5	1,181	59	77	24
2B	2107	7/17/98	52° 10.00'	130° 52.11' W	127	6.6	445	45	37	4
2B	2108	7/22/98	52° 20.09'	129° 12.71' W	77	6.4	380	18	8	136
2B	2109	7/23/98	52° 19.84'	129° 30.19' W	98	6.5	418	60	20	134
2B	2110	7/23/98	52° 20.01'	129° 46.38' W	118	6.5	545	117	20	65
2B	2111	7/24/98	52° 20.01'	130° 03.07' W	130	6.7	811	59	21	45
2B	2112	7/24/98	52° 20.02'	130° 19.25' W	198	6.5	361	0	194	36
2B	2113	7/17/98	52° 20.24'	130° 34.90' W	94	6.6	853	61	16	12
2B	2114	7/14/98	52° 20.06'	130° 52.03' W	82	6.4	961	225	25	4
2B	2115	7/10/98	52° 29.89'	129° 30.27' W	34	6.8	1,793	46	0	30
2B	2116	7/10/98	52° 29.43'	129° 45.67' W	101	6.7	689	26	42	79
2B	2117	7/11/98	52° 29.84'	130° 01.90' W	151	6.6	234	12	78	57
2B	2118	7/11/98	52° 29.81'	130° 18.75' W	148	6.6	342	9	119	41
2B	2119	7/14/98	52° 30.02'	130° 34.92' W	71	6.5	1,245	135	0	61
2B	2120	7/14/98	52° 29.88'	130° 51.76' W	63	6.6	623	373	0	8
2B	2121	7/10/98	52° 40.17'	129° 46.36' W	105	6.7	386	36	54	108
2B	2122	7/11/98	52° 40.08'	130° 02.61' W	150	6.3	30	27	130	20
2B	2123	6/19/98	52° 39.97'	130° 18.99' W	124	6.5	230	0	41	57
2B	2124	6/19/98	52° 39.78'	130° 35.00' W	88	6.7	719	24	4	25
2B	2125	6/17/98	52° 49.85'	130° 02.28' W	146	6.7	54	0	129	21
2B	2126	6/18/98	52° 49.86'	130° 19.54' W	115	6.5	450	0	61	12
2B	2127	6/17/98	53° 00.11'	129° 45.24' W	127	6.7	143	6	71	0
2B	2128	6/17/98	53° 00.17'	130° 00.53' W	106	6.6	124	0	17	87
2B	2129	7/12/98	52° 29.70'	131° 08.41' W	44	6.4	223	9	0	48
2B	2130	7/13/98	52° 30.05'	131° 25.56' W	72	6.5	1,016	10	4	12
2B	2131	6/20/98	52° 41.52'	130° 53.19' W	49	6.6	309	169	0	0
2B	2132	7/12/98	52° 39.98'	131° 08.23' W	40	6.4	501	29	0	0
2B	2133	6/19/98	52° 49.91'	130° 35.86' W	64	6.6	248	78	0	0
2B	2134	6/20/98	52° 50.13'	130° 52.75' W	33	6.5	103	18	0	0
2B	2135	6/18/98	53° 00.16'	130° 18.11' W	118	6.6	786	36	123	21
2B	2136	6/18/98	52° 59.95'	130° 35.30' W	53	6.5	318	91	0	0
2B	2137	6/21/98	53° 09.86'	130° 17.82' W	93	6.6	87	0	4	21
2B	2138	6/21/98	53° 09.89'	130° 35.14' W	106	6.6	412	7	66	57
2B	2139	6/22/98	53° 10.00'	130° 51.96' W	59	6.6	109	53	0	0
2B	2140	6/21/98	53° 20.11'	130° 17.93' W	73	6.6	615	43	0	4
2B	2141	6/22/98	53° 19.89'	130° 34.73' W	38	6.5	1,535	1072	0	53

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2B	2142	6/22/98	53° 19.89'	130° 52.10' W	73	6.6	567	27	0	0
2B	2143	6/12/98	53° 19.84'	132° 50.54' W	77	6.3	365	146	0	27
2B	2144	6/12/98	53° 19.68'	133° 06.92' W	145	6.4	858	46	76	8
2B	2145	6/02/98	53° 29.84'	130° 51.86' W	56	6.7	639	487	4	0
2B	2146	6/12/98	53° 30.29'	133° 06.76' W	173	6.4	326	21	112	108
2B	2147	6/03/98	53° 40.30'	130° 35.48' W	31	6.7	559	193	0	4
2B	2148	6/02/98	53° 39.86'	130° 52.03' W	28	6.6	810	69	0	0
2B	2149	6/12/98	53° 39.99'	133° 08.75' W	81	5.7	1,721	146	0	66
2B	2150	6/03/98	53° 49.92'	130° 52.32' W	52	5.8	1,081	354	0	0
2B	2151	6/11/98	54° 00.27'	133° 27.48' W	46	6.6	2,244	256	0	69
2B	2152	6/04/98	54° 09.99'	130° 32.06' W	89	6.7	219	124	0	0
2B	2153	6/09/98	54° 09.73'	132° 01.63' W	40	6.5	89	268	0	0
2B	2154	6/10/98	54° 09.50'	132° 18.77' W	48	6.6	162	185	0	0
2B	2155	6/10/98	54° 09.80'	132° 33.52' W	42	6.5	644	508	0	36
2B	2156	6/11/98	54° 09.84'	133° 11.98' W	41	6.5	1,672	77	0	28
2B	2157	6/11/98	54° 10.34'	133° 28.19' W	221	6.5	575	60	109	20
2B	2158	6/04/98	54° 19.46'	130° 35.19' W	70	6.6	299	115	8	0
2B	2159	6/07/98	54° 19.89'	131° 08.77' W	42	6.6	305	1010	0	0
2B	2160	6/07/98	54° 20.14'	131° 25.37' W	99	6.5	121	45	41	41
2B	2161	6/07/98	54° 19.93'	131° 42.41' W	105	6.5	530	162	32	8
2B	2162	6/09/98	54° 19.77'	132° 02.79' W	139	6.6	987	49	119	49
2B	2163	6/09/98	54° 19.32'	132° 19.83' W	122	6.5	921	32	28	4
2B	2164	6/30/98	54° 20.40'	132° 34.80' W	152	6.6	775	73	177	0
2B	2165	6/30/98	54° 20.16'	132° 51.73' W	220	6.7	610	25	183	12
2B	2166	6/30/98	54° 19.91'	133° 09.00' W	257	6.6	1,364	14	169	4
2B	2167	6/27/98	54° 20.16'	133° 26.30' W	131	6.6	2,158	282	33	29
2B	2168	6/27/98	54° 20.15'	133° 42.78' W	140	6.7	3,195	230	54	0
2B	2169	6/04/98	54° 30.06'	130° 35.30' W	71	5.8	298	72	24	0
2B	2170	6/06/98	54° 30.07'	131° 08.79' W	79	6.6	1,054	160	16	0
2B	2171	6/06/98	54° 28.97'	131° 28.30' W	72	6.6	2,159	296	12	33
2B	2172	6/06/98	54° 29.92'	131° 43.92' W	189	6.5	187	24	97	8

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\*\*Bycatch numbers extrapolated from 20-25% sample.

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			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
2C	3001	7/04/98	54° 29.45'	132° 01.73' W	146	7.0	1,539	40	164	40
2C	3002	7/04/98	54° 33.15'	132° 17.96' W	155	7.0	1,183	35	80	140
2C	3003	7/06/98	54° 30.25'	132° 34.31' W	194	7.0	906	20	120	45
2C	3004	7/06/98	54° 30.00'	132° 51.97' W	204	7.0	792	27	180	10
2C	3005	7/07/98	54° 29.80'	133° 10.74' W	105	7.1	1,824	109	5	45
2C	3006	7/07/98	54° 30.12'	133° 26.44' W	161	7.0	467	10	35	0
2C	3007	7/12/98	54° 29.81'	133° 44.02' W	135	7.0	2,291	54	35	15
2C	3008	7/02/98	54° 39.98'	130° 50.24' W	147	7.0	668	19	111	25
2C	3009	7/02/98	54° 39.88'	131° 08.25' W	109	7.0	161	45	20	64
2C	3010	7/03/98	54° 40.02'	131° 25.34' W	114	7.0	692	10	55	15
2C	3011	7/03/98	54° 39.72'	131° 42.39' W	218	7.0	101	9	70	0
2C	3012	7/03/98	54° 39.85'	131° 59.50' W	107	7.0	845	64	20	150
2C	3013	7/04/98	54° 40.00'	132° 16.86' W	64	7.0	1,684	374	0	45
2C	3014	7/06/98	54° 39.67'	132° 35.18' W	89	7.0	2,710	260	5	20
2C	3015	7/13/98	54° 40.11'	132° 51.41' W	75	7.0	2,302	164	0	50
2C	3016	7/13/98	54° 40.05'	133° 08.95' W	124	7.0	1,301	0	40	85
2C	3017	6/27/98	54° 39.94'	133° 26.02' W	160	7.0	1,078	31	100	10
2C	3018	7/12/98	54° 39.80'	133° 43.52' W	132	7.0	4,283	34	10	10
2C	3019	7/12/98	54° 39.97'	134° 00.06' W	121	7.0	2,478	115	35	0
2C	3020	7/02/98	54° 49.98'	131° 06.95' W	127	7.0	1,356	0	50	0
2C	3021	6/20/98	54° 50.01'	131° 41.96' W	241	7.0	339	9	115	15
2C	3022	7/05/98	54° 50.32'	132° 33.70' W	144	7.0	830	19	30	25
2C	3023	6/27/98	54° 50.09'	133° 08.89' W	97	7.0	3,773	26	15	54
2C	3024	6/27/98	54° 50.08'	133° 25.97' W	64	7.0	1,309	1139	0	5
2C	3025	6/26/98	54° 50.14'	133° 42.72' W	73	7.0	2,520	1554	0	25
2C	3026	6/26/98	54° 50.07'	134° 01.13' W	103	7.0	2,195	117	15	30
2C	3027	7/01/98	55° 00.06'	131° 05.95' W	136	7.0	1,192	44	30	0
2C	3028	6/20/98	54° 59.78'	131° 40.98' W	111	7.0	716	50	30	59
2C	3029	6/25/98	54° 59.97'	133° 25.84' W	50	7.0	2,533	324	0	95
2C	3030	6/25/98	55° 00.07'	133° 42.97' W	56	7.0	3,749	975	0	0
2C	3031	6/21/98	55° 09.40'	131° 06.68' W	77	7.0	711	191	15	5
2C	3032	6/20/98	55° 09.86'	131° 41.02' W	67	7.0	312	27	10	55
2C	3033	6/19/98	55° 10.39'	131° 56.16' W	161	7.0	1,249	95	40	10
2C	3034	6/25/98	55° 10.18'	133° 27.25' W	56	6.9	1,914	131	0	109
2C	3035	6/19/98	55° 20.27'	131° 58.00' W	220	7.1	66	0	30	5
2C	3036	6/19/98	55° 29.21'	131° 58.45' W	150	7.0	810	35	75	15
2C	3037	6/18/98	55° 40.14'	132° 15.02' W	216	7.0	486	9	15	25
2C	3038	6/18/98	55° 45.26'	132° 26.01' W	304	7.0	55	0	28	47
2C	3039	6/18/98	55° 50.37'	132° 14.34' W	136	7.0	857	26	20	15
2C	3040	6/17/98	56° 00.09'	132° 32.01' W	114	7.1	789	9	0	5
2C	3041	6/17/98	56° 01.33'	132° 45.14' W	196	7.0	510	0	30	0
2C	3042	6/17/98	56° 11.07'	132° 49.92' W	80	6.9	695	34	0	10
2C	3043	7/04/98	55° 00.09'	134° 01.00' W	82	6.7	2,507	744	0	42
2C	3044	7/04/98	55° 00.05'	134° 19.03' W	119	6.7	4,699	108	0	0
2C	3045	7/03/98	55° 10.07'	133° 43.00' W	87	6.7	1,918	848	0	0
2C	3046	7/04/98	55° 09.95'	134° 01.00' W	94	6.7	3,657	174	0	0
2C	3047	6/16/98	55° 19.83'	133° 44.00' W	41	6.7	2,012	919	0	21
2C	3048	7/03/98	55° 20.05'	134° 00.98' W	65	6.7	1,083	908	0	0
2C	3049	7/03/98	55° 20.05'	134° 19.03' W	101	6.7	1,693	136	12	108

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Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
2C	3050	7/05/98	55° 19.91'	134° 36.00' W	110	6.7	1,758	102	12	12
2C	3051	6/17/98	55° 30.12'	134° 00.99' W	51	6.7	1,534	434	0	8
2C	3052	7/05/98	55° 29.91'	134° 18.98' W	92	6.7	2,388	96	0	0
2C	3053	7/05/98	55° 30.05'	134° 36.98' W	122	6.7	1,470	177	62	0
2C	3054	7/06/98	55° 29.91'	134° 54.07' W	157	6.7	1,048	115	8	0
2C	3055	6/17/98	55° 39.88'	134° 00.96' W	107	6.7	3,280	111	0	8
2C	3056	6/17/98	55° 39.95'	134° 18.98' W	111	6.7	1,339	227	29	0
2C	3057	7/06/98	55° 40.11'	134° 37.02' W	110	6.7	2,737	281	0	0
2C	3058	7/06/98	55° 40.02'	134° 54.98' W	109	0.8	481	25	0	4
2C	3059	6/04/98	55° 50.00'	133° 25.65' W	33	6.7	634	17	4	58
2C	3060	6/04/98	55° 49.98'	133° 44.00' W	69	6.6	1,184	8	0	90
2C	3061	6/05/98	55° 50.10'	134° 02.00' W	155	6.6	827	10	8	8
2C	3062	6/18/98	55° 49.98'	134° 37.00' W	77	6.7	627	16	4	58
2C	3063	6/18/98	55° 50.09'	134° 54.98' W	100	6.7	845	0	0	50
2C	3064	6/19/98	55° 49.94'	135° 12.97' W	151	6.7	1,724	79	37	21
2C	3065	6/04/98	55° 54.99'	133° 34.98' W	40	6.7	533	0	5	19
2C	3066	6/05/98	55° 59.99'	134° 02.00' W	42	6.7	2,437	395	0	12
2C	3067	6/05/98	56° 00.02'	134° 20.00' W	43	6.7	3,352	223	0	38
2C	3068	6/18/98	55° 59.88'	134° 37.99' W	185	6.7	1,504	35	58	62
2C	3069	6/19/98	55° 59.87'	134° 55.01' W	195	6.7	3,114	38	78	45
2C	3070	6/19/98	55° 59.97'	135° 13.02' W	189	6.7	3,417	32	83	21
2C	3071	6/15/98	56° 09.99'	133° 44.00' W	172	6.7	887	81	21	0
2C	3072	6/06/98	56° 10.03'	134° 19.97' W	76	6.6	3,556	267	0	12
2C	3073	6/07/98	56° 09.94'	134° 38.02' W	152	6.7	1,125	97	4	29
2C	3074	6/07/98	56° 10.00'	134° 55.98' W	103	6.7	2,808	671	4	4
2C	3075	6/20/98	56° 10.02'	135° 14.01' W	152	6.7	1,386	57	66	0
2C	3076	6/15/98	56° 19.90'	133° 44.03' W	92	6.7	1,513	10	17	4
2C	3077	6/06/98	56° 19.89'	134° 20.00' W	97	6.7	802	15	0	21
2C	3078	6/08/98	56° 19.93'	134° 56.00' W	66	6.7	1,450	49	0	8
2C	3079	6/20/98	56° 20.04'	135° 14.01' W	86	6.7	1,734	306	0	71
2C	3080	6/20/98	56° 20.14'	135° 32.01' W	110	6.7	1,143	61	42	0
2C	3081	6/15/98	56° 29.00'	133° 44.00' W	60	6.7	546	0	0	0
2C	3082	6/06/98	56° 30.00'	134° 19.98' W	56	6.7	2,285	470	0	17
2C	3083	8/01/98	56° 29.96'	135° 15.13' W	65	6.8	2,427	477	0	89
2C	3084	8/01/98	56° 29.99'	135° 33.25' W	88	6.7	2,592	177	0	252
2C	3085	8/01/98	56° 39.88'	135° 15.05' W	27	6.7	859	9	0	63
2C	3086	8/01/98	56° 40.00'	135° 33.98' W	73	6.7	1,099	72	0	109
2C	3087	7/31/98	56° 40.00'	135° 52.15' W	131	6.7	2,272	108	63	29
2C	3088	7/23/98	56° 49.99'	132° 49.92' W	112	6.7	1,108	128	8	0
2C	3089	7/31/98	56° 50.00'	135° 52.20' W	102	6.7	2,900	128	12	21
2C	3090	7/23/98	56° 56.95'	132° 58.06' W	71	6.7	191	50	21	0
2C	3091	7/24/98	57° 00.00'	134° 20.95' W	182	6.7	1,458	60	256	0
2C	3092	7/31/98	57° 00.01'	135° 59.91' W	54	6.7	560	405	0	166
2C	3093	7/23/98	57° 03.00'	133° 04.93' W	73	6.8	595	56	17	0
2C	3094	7/24/98	57° 10.02'	133° 43.06' W	178	6.7	1,350	59	143	21
2C	3095	7/24/98	57° 09.99'	134° 03.16' W	151	6.0	1,079	28	109	0
2C	3096	7/25/98	57° 09.79'	134° 39.55' W	83	6.7	824	28	8	88
2C	3097	7/30/98	57° 09.91'	135° 54.24' W	42	6.7	1,253	462	0	87
2C	3098	7/30/98	57° 10.00'	136° 12.16' W	127	6.7	2,835	163	29	8

\*Standard Skate = 1,800' groundline with 16/0 circle hooks spaced every 18' on 24"-42" gangions.

\*\*Bycatch numbers extrapolated from 20-25% sample.

## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
2C	3099	7/22/98	57° 20.02'	133° 27.93' W	80	6.7	2,750	611	0	0
2C	3100	7/22/98	57° 19.99'	133° 45.27' W	188	6.7	1,173	96	75	37
2C	3101	7/25/98	57° 20.26'	134° 35.74' W	119	6.7	287	44	17	71
2C	3102	7/30/98	57° 20.00'	135° 55.03' W	64	6.7	1,002	147	0	46
2C	3103	7/30/98	57° 20.00'	136° 12.92' W	94	6.7	1,251	60	25	151
2C	3104	7/22/98	57° 30.00'	133° 45.10' W	133	6.6	3,420	152	74	16
2C	3105	7/25/98	57° 31.74'	134° 39.56' W	209	6.7	228	0	172	109
2C	3106	7/29/98	57° 30.00'	136° 14.45' W	53	6.7	1,501	451	0	34
2C	3107	7/21/98	57° 40.05'	133° 45.00' W	174	6.8	3,648	80	0	0
2C	3108	7/29/98	57° 39.96'	136° 33.15' W	90	6.7	1,600	649	0	34
2C	3109	7/21/98	57° 50.03'	133° 53.77' W	180	6.7	1,590	86	8	4
2C	3110	7/29/98	57° 50.00'	136° 33.91' W	51	6.7	1,734	184	0	100
2C	3111	7/15/98	57° 50.00'	136° 52.92' W	179	6.7	410	0	154	54
2C	3112	7/21/98	58° 00.11'	134° 04.15' W	124	6.7	657	101	4	0
2C	3113	7/16/98	58° 00.01'	136° 39.86' W	60	6.7	2,512	390	0	67
2C	3114	7/17/98	58° 10.00'	135° 00.75' W	169	6.0	1,041	78	26	11
2C	3115	7/17/98	58° 10.00'	135° 20.10' W	96	6.8	206	5	34	4
2C	3116	7/16/98	58° 10.00'	136° 36.00' W	109	6.7	1,320	42	42	33
2C	3117	7/19/98	58° 11.96'	134° 24.27' W	37	6.7	426	19	0	4
2C	3118	7/19/98	58° 13.99'	134° 40.98' W	34	6.8	820	7	0	0
2C	3119	7/17/98	58° 15.00'	135° 40.09' W	60	6.6	985	236	12	0
2C	3120	7/16/98	58° 15.00'	136° 26.31' W	93	2.6	1,046	43	21	0
2C	3121	7/19/98	58° 19.88'	134° 43.05' W	42	6.7	624	18	0	0
2C	3122	7/18/98	58° 19.86'	135° 02.55' W	209	6.8	432	9	234	38
2C	3123	7/18/98	58° 30.04'	135° 02.20' W	122	6.7	1,097	163	80	17
2C	3124	7/18/98	58° 40.02'	135° 03.00' W	159	6.7	1,915	19	53	4

\*Standard Skate = 1,800' groundline with 16/0 circle hooks spaced every 18' on 24"-42" gangions.

\*\*Bycatch numbers extrapolated from 20-25% sample.

## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
3A	4001	7/15/98	57° 50.00'	137° 13.15' W	163	6.7	832	8	108	158
3A	4002	7/15/98	58° 00.00'	136° 54.05' W	224	6.6	124	0	192	24
3A	4003	7/28/98	58° 00.02'	137° 12.17' W	118	6.8	749	83	72	60
3A	4004	7/28/98	58° 00.01'	137° 31.10' W	90	6.7	2,162	333	13	139
3A	4005	7/28/98	58° 00.00'	137° 50.09' W	100	6.7	1,506	216	66	62
3A	4006	6/29/98	58° 10.01'	136° 54.99' W	105	6.8	2,545	127	47	0
3A	4007	6/29/98	58° 10.00'	137° 10.94' W	67	6.8	1,668	100	0	21
3A	4008	7/09/98	58° 10.00'	137° 30.11' W	77	6.7	1,260	244	0	0
3A	4009	7/09/98	58° 10.02'	137° 49.06' W	83	6.7	596	18	0	0
3A	4010	7/09/98	58° 10.02'	138° 08.29' W	87	6.7	1,937	988	4	0
3A	4011	7/08/98	58° 09.98'	138° 27.06' W	87	6.7	1,473	208	0	58
3A	4012	7/07/98	58° 10.01'	138° 45.92' W	102	6.7	3,688	764	0	120
3A	4013	6/29/98	58° 20.03'	137° 10.02' W	93	6.7	15	11	0	0
3A	4014	7/04/98	58° 20.01'	137° 28.98' W	101	6.8	51	0	0	0
3A	4015	7/04/98	58° 20.01'	137° 48.09' W	94	6.7	140	0	0	0
3A	4016	7/07/98	58° 20.00'	138° 06.91' W	70	6.7	809	410	0	0
3A	4017	7/07/98	58° 20.04'	138° 26.05' W	70	6.7	972	421	4	0
3A	4018	7/07/98	58° 20.01'	138° 42.05' W	58	5.1	1,951	606	0	91
3A	4019	7/07/98	58° 20.02'	139° 05.17' W	61	6.7	1,771	267	0	108
3A	4020	7/07/98	58° 20.00'	139° 21.69' W	149	6.7	2,421	35	88	13
3A	4021	7/04/98	58° 30.00'	137° 27.99' W	39	6.8	17	0	0	0
3A	4022	7/04/98	58° 30.01'	137° 47.02' W	85	6.7	16	0	0	0
3A	4023	7/05/98	58° 30.01'	138° 07.08' W	73	6.8	610	50	0	0
3A	4024	7/05/98	58° 30.04'	138° 25.84' W	64	6.7	1,763	559	0	21
3A	4025	7/06/98	58° 30.00'	138° 44.97' W	52	6.7	1,378	172	0	63
3A	4026	7/06/98	58° 30.01'	139° 04.13' W	56	6.7	1,064	787	0	0
3A	4027	6/28/98	58° 30.02'	139° 22.98' W	90	6.8	2,737	1146	0	38
3A	4028	6/28/98	58° 30.02'	139° 45.92' W	135	6.7	1,468	80	166	4
3A	4029	7/05/98	58° 40.02'	138° 05.99' W	51	6.8	911	56	0	30
3A	4030	7/05/98	58° 40.02'	138° 24.91' W	73	6.8	228	24	0	0
3A	4031	7/06/98	58° 40.00'	138° 44.02' W	54	6.8	2,713	183	0	13
3A	4032	7/06/98	58° 39.99'	139° 03.84' W	80	6.7	508	97	0	0
3A	4033	6/28/98	58° 40.03'	139° 22.98' W	139	6.7	1,298	30	269	0
3A	4034	6/27/98	58° 39.98'	139° 42.19' W	101	6.7	1,619	145	25	0
3A	4035	6/27/98	58° 40.02'	140° 00.98' W	104	6.8	3,677	514	9	0
3A	4036	6/24/98	58° 50.00'	138° 05.01' W	28	6.7	66	32	0	0
3A	4037	6/24/98	58° 50.02'	138° 24.14' W	39	6.7	1,360	26	0	21
3A	4038	6/25/98	58° 50.00'	138° 44.14' W	65	6.7	1,055	520	0	0
3A	4039	6/25/98	58° 50.00'	139° 02.52' W	105	6.7	56	0	0	0
3A	4040	6/26/98	58° 50.00'	139° 22.00' W	75	6.7	1,056	94	0	4
3A	4041	6/26/98	58° 50.00'	139° 42.38' W	88	7.6	2,098	216	0	0
3A	4042	6/27/98	58° 50.03'	140° 00.92' W	95	6.7	2,427	315	13	4
3A	4043	6/24/98	59° 00.02'	138° 24.02' W	33	6.6	183	50	0	0
3A	4044	6/25/98	59° 00.01'	138° 43.08' W	87	6.7	136	10	0	0
3A	4045	6/25/98	59° 00.01'	139° 02.10' W	57	6.8	54	14	0	0
3A	4046	6/26/98	59° 00.01'	139° 22.03' W	60	6.7	171	20	0	0
3A	4047	6/26/98	59° 00.01'	139° 41.14' W	66	6.8	1,211	249	0	0
3A	4048	6/23/98	59° 10.01'	139° 02.04' W	29	6.7	0	0	0	0
3A	4049	6/23/98	59° 10.00'	139° 21.05' W	54	6.7	32	7	0	0

\*Standard Skate = 1,800' groundline with 16/0 circle hooks spaced every 18' on 24"-42" gangions.

\*\*Bycatch numbers extrapolated from 20-25% sample.

## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
3A	4050	Station Deleted								
3A	4051	6/17/98	58° 50.00'	140° 20.02' W	101	6.7	2,221	263	4	0
3A	4052	6/07/98	58° 50.00'	140° 40.04' W	106	6.7	1,175	132	8	4
3A	4053	6/17/98	59° 00.00'	140° 00.96' W	72	6.7	2,958	563	0	13
3A	4054	6/17/98	59° 00.00'	140° 20.04' W	84	5.9	2,260	305	0	24
3A	4055	6/07/98	59° 00.00'	140° 39.13' W	98	6.6	1,490	265	4	0
3A	4056	6/07/98	59° 00.02'	140° 59.07' W	106	6.5	2,465	317	4	4
3A	4057	6/16/98	59° 10.03'	139° 41.05' W	69	6.7	566	198	0	0
3A	4058	6/16/98	59° 10.00'	140° 01.12' W	63	6.6	957	791	0	0
3A	4059	6/15/98	59° 10.00'	140° 19.96' W	71	6.6	1,838	454	4	0
3A	4060	6/15/98	59° 10.01'	140° 39.00' W	82	6.7	2,075	454	0	0
3A	4061	6/08/98	59° 10.01'	140° 59.07' W	98	6.7	2,842	292	34	0
3A	4062	6/08/98	59° 10.00'	141° 18.05' W	185	6.7	2,200	0	172	8
3A	4063	6/09/98	59° 10.00'	141° 38.07' W	125	6.6	2,425	79	70	8
3A	4064	6/16/98	59° 20.00'	139° 39.95' W	86	6.6	78	0	0	0
3A	4065	6/16/98	59° 20.00'	140° 00.05' W	90	6.7	109	0	0	0
3A	4066	6/15/98	59° 20.01'	140° 20.05' W	71	6.8	2,355	280	0	0
3A	4067	6/15/98	59° 20.00'	140° 39.08' W	79	6.7	545	68	4	0
3A	4068	6/08/98	59° 20.02'	140° 59.08' W	86	6.6	2,459	514	16	0
3A	4069	6/08/98	59° 20.02'	141° 18.07' W	180	6.9	2,518	10	163	4
3A	4070	6/09/98	59° 20.00'	141° 38.09' W	102	6.7	1,852	79	12	0
3A	4071	6/09/98	59° 20.01'	141° 57.97' W	117	6.6	1,953	138	49	0
3A	4072	6/13/98	59° 30.02'	140° 00.00' W	60	6.7	0	0	0	0
3A	4073	6/13/98	59° 30.00'	140° 18.94' W	124	6.7	1,970	12	54	0
3A	4074	6/13/98	59° 30.01'	140° 39.02' W	152	6.7	1,780	5	55	13
3A	4075	6/11/98	59° 30.01'	140° 58.95' W	160	6.7	1,653	28	83	17
3A	4076	6/11/98	59° 30.01'	141° 19.07' W	90	6.7	250	0	0	0
3A	4077	6/10/98	59° 30.00'	141° 37.95' W	88	6.7	107	9	0	0
3A	4078	6/10/98	59° 30.00'	141° 58.08' W	97	6.9	1,504	98	0	0
3A	4079	6/13/98	59° 40.00'	139° 59.00' W	73	6.8	829	18	9	0
3A	4080	6/11/98	59° 40.00'	140° 59.02' W	29	6.8	0	9	0	0
3A	4081	6/11/98	59° 40.00'	141° 19.11' W	36	6.7	173	88	0	0
3A	4082	6/10/98	59° 40.00'	141° 38.05' W	51	6.7	85	29	0	0
3A	4083	6/10/98	59° 40.00'	141° 58.04' W	80	6.7	86	7	0	0
3A	4084	6/05/98	59° 40.01'	142° 18.00' W	117	6.8	404	8	4	4
3A	4085	6/05/98	59° 40.00'	142° 38.05' W	207	6.7	972	20	206	29
3A	4086	6/03/98	59° 39.99'	142° 57.97' W	111	6.7	4,911	135	17	0
3A	4087	6/03/98	59° 40.00'	143° 16.86' W	146	6.7	3,981	36	63	21
3A	4088	6/02/98	59° 40.00'	143° 37.00' W	88	6.6	4,156	62	0	16
3A	4089	6/02/98	59° 40.00'	143° 57.11' W	70	6.6	4,654	189	0	8
3A	4090	6/01/98	59° 40.01'	144° 17.47' W	87	6.7	758	60	0	0
3A	4091	6/01/98	59° 40.00'	144° 37.45' W	80	6.8	540	9	0	0
3A	4092	6/05/98	59° 50.00'	141° 58.91' W	38	6.8	11	0	0	0
3A	4093	6/05/98	59° 50.00'	142° 18.00' W	49	6.8	453	50	0	0
3A	4094	6/04/98	59° 50.00'	142° 38.05' W	85	6.7	581	9	0	0
3A	4095	6/03/98	59° 50.02'	142° 58.01' W	93	6.7	0	0	0	0
3A	4096	6/03/98	59° 50.01'	143° 18.03' W	114	6.8	42	0	0	0
3A	4097	6/02/98	59° 50.00'	143° 37.90' W	155	6.7	1,241	9	84	0
3A	4098	6/02/98	59° 50.02'	143° 58.02' W	52	6.7	309	4	0	0

\*Standard Skate = 1,800' groundline with 16/0 circle hooks spaced every 18' on 24"-42" gangions.

\*\*Bycatch numbers extrapolated from 20-25% sample.



## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
3A	4099	6/01/98	59° 50.02'	144° 17.98' W	35	6.6	273	0	0	0
3A	4100	6/04/98	60° 00.00'	142° 38.95' W	44	6.7	485	0	0	0
3A	4101	6/04/98	60° 00.00'	142° 58.97' W	62	6.7	70	0	0	0
3A	4102	7/24/98	59° 19.96'	146° 16.09' W	166	6.7	1,736	48	43	19
3A	4103	7/24/98	59° 19.90'	146° 35.00' W	79	6.8	2,223	57	5	15
3A	4104	7/23/98	59° 19.94'	146° 54.98' W	105	6.8	698	0	10	0
3A	4105	7/23/98	59° 19.94'	147° 15.38' W	102	6.7	1,198	71	10	0
3A	4106	8/01/98	59° 30.07'	145° 15.98' W	79	6.7	2,398	85	0	67
3A	4107	7/25/98	59° 30.02'	145° 55.31' W	97	6.8	2,674	64	0	0
3A	4108	7/24/98	59° 29.96'	146° 34.92' W	49	6.7	2,207	121	0	10
3A	4109	7/23/98	59° 30.07'	146° 53.95' W	99	6.7	238	0	0	0
3A	4110	7/22/98	59° 30.12'	147° 14.40' W	117	6.9	552	24	29	10
3A	4111	7/22/98	59° 29.87'	147° 34.95' W	56	6.7	850	29	0	0
3A	4112	8/01/98	59° 40.08'	145° 33.97' W	58	6.7	70	28	0	0
3A	4113	7/25/98	59° 39.92'	145° 54.11' W	46	6.7	2,555	1293	0	0
3A	4114	7/25/98	59° 39.94'	146° 14.04' W	45	6.7	806	284	0	0
3A	4115	7/30/98	59° 40.06'	146° 33.91' W	48	6.7	4,734	780	0	48
3A	4116	7/30/98	59° 39.93'	146° 53.06' W	61	6.9	118	21	0	0
3A	4117	7/29/98	59° 39.93'	147° 12.99' W	102	6.7	1,564	48	5	0
3A	4118	7/29/98	59° 39.97'	147° 33.05' W	66	6.7	414	55	0	0
3A	4119	8/02/98	59° 49.96'	144° 58.09' W	107	6.7	1,630	97	34	0
3A	4120	7/31/98	59° 49.97'	145° 52.97' W	57	6.7	65	7	0	0
3A	4121	7/31/98	59° 50.08'	146° 12.98' W	34	6.7	792	44	0	0
3A	4122	7/30/98	59° 50.04'	146° 32.98' W	39	6.7	3,249	1147	0	0
3A	4123	7/28/98	59° 49.86'	146° 52.99' W	42	6.8	365	168	0	0
3A	4124	7/29/98	59° 49.92'	147° 13.11' W	85	6.7	135	18	0	0
3A	4125	8/02/98	60° 00.02'	144° 38.95' W	124	6.7	2,719	36	43	0
3A	4126	8/02/98	60° 00.02'	144° 58.98' W	72	6.7	79	0	0	0
3A	4127	8/03/98	60° 00.03'	145° 18.93' W	65	6.8	311	36	0	0
3A	4128	7/31/98	60° 00.09'	146° 12.06' W	34	6.7	1,456	100	0	5
3A	4129	8/04/98	59° 59.97'	146° 31.99' W	36	6.7	1,033	1163	0	0
3A	4130	7/28/98	59° 59.94'	146° 51.96' W	82	6.7	67	8	0	0
3A	4131	7/28/98	59° 59.94'	147° 12.04' W	103	6.7	350	20	38	0
3A	4132	8/03/98	60° 10.05'	145° 30.98' W	46	6.7	563	142	0	0
3A	4133	8/03/98	60° 10.00'	145° 50.95' W	58	6.6	530	34	0	0
3A	4134	8/04/98	60° 09.92'	146° 10.91' W	47	6.7	1,786	314	0	0
3A	4135	8/10/98	60° 10.00'	147° 31.13' W	36	6.6	2,506	467	0	5
3A	4136	8/11/98	60° 09.96'	147° 50.87' W	174	6.7	1,322	76	5	10
3A	4137	8/10/98	60° 19.79'	147° 30.95' W	68	6.7	5,478	71	0	43
3A	4138	8/08/98	60° 30.20'	146° 28.95' W	37	6.7	251	83	0	0
3A	4139	8/08/98	60° 30.05'	146° 49.03' W	217	6.7	2,265	58	63	5
3A	4140	8/09/98	60° 30.07'	147° 09.96' W	97	6.7	2,485	133	24	0
3A	4141	8/10/98	60° 29.88'	147° 29.97' W	107	6.8	1,102	87	10	5
3A	4142	8/11/98	60° 29.20'	147° 50.12' W	267	6.7	1,446	9	71	24
3A	4143	8/08/98	60° 40.05'	146° 48.93' W	225	6.6	2,629	36	61	9
3A	4144	8/09/98	60° 40.02'	147° 09.02' W	137	6.7	2,620	52	43	10
3A	4145	8/09/98	60° 50.03'	147° 08.09' W	187	6.8	3,646	124	0	5
3A	4146	8/07/98	60° 50.02'	148° 10.12' W	152	6.7	734	16	0	14
3A	4147	7/09/98	58° 39.94'	148° 34.03' W	129	6.7	177	0	175	0

\*Standard Skate = 1,800' groundline with 16/0 circle hooks spaced every 18' on 24"-42" gangions.

\*\*Bycatch numbers extrapolated from 20-25% sample.

## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
3A	4148	7/09/98	58° 39.94'	148° 53.03' W	87	6.4	153	13	116	0
3A	4149	7/17/98	58° 50.04'	148° 15.01' W	155	6.5	3,762	78	70	5
3A	4150	7/17/98	58° 49.97'	148° 34.48' W	162	6.4	4,159	31	125	0
3A	4151	7/09/98	58° 50.04'	148° 52.78' W	142	6.5	2,208	8	170	0
3A	4152	7/08/98	58° 49.95'	149° 11.99' W	111	6.6	802	0	197	0
3A	4153	7/16/98	59° 00.08'	147° 55.20' W	237	6.3	652	0	198	4
3A	4154	7/17/98	59° 00.27'	148° 14.07' W	115	6.4	1,840	0	12	0
3A	4155	7/18/98	59° 00.27'	148° 34.17' W	134	6.4	929	0	84	0
3A	4156	7/18/98	58° 59.90'	148° 53.03' W	115	6.4	558	18	76	0
3A	4157	7/08/98	59° 00.00'	149° 12.00' W	127	6.5	901	47	85	0
3A	4158	7/08/98	59° 00.16'	149° 32.06' W	127	6.5	604	9	45	0
3A	4159	7/16/98	59° 09.95'	147° 34.70' W	149	6.5	3,322	0	65	12
3A	4160	7/16/98	59° 10.00'	147° 54.01' W	111	6.5	1,968	66	19	0
3A	4161	7/26/98	59° 09.46'	148° 14.02' W	67	6.4	7,326	268	0	48
3A	4162	7/18/98	59° 10.08'	148° 32.96' W	85	6.4	1,481	43	4	0
3A	4163	7/24/98	59° 10.01'	148° 53.03' W	98	6.5	1,556	17	20	0
3A	4164	7/24/98	59° 09.90'	149° 12.13' W	83	6.4	2,462	82	36	0
3A	4165	7/07/98	59° 10.00'	149° 32.05' W	88	6.5	1,491	38	12	0
3A	4166	7/07/98	59° 10.05'	149° 51.00' W	73	6.3	932	208	18	5
3A	4167	7/15/98	59° 19.95'	147° 32.53' W	69	6.3	3,980	335	4	12
3A	4168	7/15/98	59° 19.91'	147° 53.93' W	102	6.4	611	5	28	4
3A	4169	7/26/98	59° 19.92'	148° 13.02' W	88	6.4	2,407	134	4	0
3A	4170	7/25/98	59° 19.96'	148° 32.99' W	50	6.5	3,834	433	0	12
3A	4171	7/25/98	59° 20.14'	148° 53.03' W	93	6.5	1,684	18	24	0
3A	4172	7/24/98	59° 19.90'	149° 11.92' W	102	6.4	1,588	42	68	0
3A	4173	7/07/98	59° 19.80'	149° 32.05' W	67	6.3	1,072	150	4	0
3A	4174	7/06/98	59° 20.05'	149° 51.02' W	102	6.3	1,201	48	20	0
3A	4175	7/06/98	59° 20.04'	150° 11.03' W	90	6.5	1,172	26	0	0
3A	4176	7/15/98	59° 29.81'	147° 52.98' W	65	6.3	3,717	163	0	0
3A	4177	7/26/98	59° 29.95'	148° 13.01' W	114	6.4	1,369	30	24	0
3A	4178	7/25/98	59° 30.04'	148° 32.99' W	52	6.4	1,233	1178	0	0
3A	4179	7/23/98	59° 29.96'	148° 52.16' W	93	6.6	1,198	107	0	0
3A	4180	7/23/98	59° 30.03'	149° 12.05' W	126	6.4	602	6	52	0
3A	4181	7/05/98	59° 30.06'	149° 32.42' W	58	6.4	1,361	593	0	0
3A	4182	7/05/98	59° 30.01'	149° 52.08' W	112	6.4	1,120	28	17	0
3A	4183	7/06/98	59° 29.94'	150° 10.94' W	57	6.2	1,269	65	0	12
3A	4184	7/14/98	59° 39.96'	147° 53.08' W	38	4.8	3,837	108	0	11
3A	4185	7/14/98	59° 39.95'	148° 11.95' W	64	6.5	392	150	4	0
3A	4186	7/13/98	59° 39.88'	148° 31.99' W	114	6.5	768	19	49	4
3A	4187	7/23/98	59° 39.78'	148° 52.05' W	98	6.3	558	48	20	0
3A	4188	7/04/98	59° 40.05'	149° 12.09' W	115	6.3	638	7	20	0
3A	4189	7/05/98	59° 40.05'	149° 32.16' W	160	6.3	673	9	59	0
3A	4190	7/14/98	59° 49.92'	148° 11.93' W	61	6.3	549	144	0	0
3A	4191	7/13/98	59° 49.84'	148° 31.98' W	76	6.5	18	0	0	0
3A	4192	7/13/98	59° 50.00'	148° 52.00' W	95	6.3	89	0	36	0
3A	4193	7/04/98	59° 49.95'	149° 11.96' W	75	6.5	471	18	0	0
3A	4194	7/04/98	59° 49.98'	149° 31.99' W	89	6.1	177	30	0	0
3A	4195	8/15/98	58° 00.20'	149° 13.25' W	79	6.7	7,597	787	0	55
3A	4196	8/15/98	58° 09.73'	148° 54.05' W	73	6.7	4,636	799	0	0

\*Standard Skate = 1,800' groundline with 16/0 circle hooks spaced every 18' on 24"-42" gangions.

\*\*Bycatch numbers extrapolated from 20-25% sample.

## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
3A	4197	8/15/98	58° 10.18'	149° 12.98' W	63	6.7	3,122	1389	0	29
3A	4198	8/22/98	58° 09.48'	149° 32.17' W	65	6.7	2,397	1461	0	0
3A	4199	8/22/98	58° 09.59'	149° 51.73' W	87	6.7	2,960	1289	17	0
3A	4200	8/13/98	58° 20.07'	148° 35.34' W	101	6.6	3,307	127	131	0
3A	4201	8/13/98	58° 20.22'	148° 53.66' W	70	6.7	4,183	1085	0	0
3A	4202	8/14/98	58° 20.09'	149° 13.13' W	85	6.7	4,495	362	12	0
3A	4203	8/22/98	58° 19.70'	149° 32.40' W	81	6.9	4,904	572	4	0
3A	4204	8/23/98	58° 19.66'	149° 50.48' W	42	6.7	2,934	2334	0	0
3A	4205	8/21/98	58° 20.01'	150° 09.84' W	28	6.7	2,420	677	0	0
3A	4206	8/21/98	58° 20.66'	150° 29.26' W	30	6.7	886	462	0	0
3A	4207	8/13/98	58° 29.79'	148° 33.86' W	84	6.7	5,262	734	12	0
3A	4208	8/14/98	58° 30.05'	148° 53.67' W	62	6.6	4,093	857	0	8
3A	4209	8/14/98	58° 30.13'	149° 12.84' W	64	6.6	4,082	642	0	0
3A	4210	8/19/98	58° 29.93'	149° 31.47' W	78	6.7	4,230	121	12	0
3A	4211	8/26/98	58° 29.79'	149° 50.83' W	75	6.6	1,600	290	41	0
3A	4212	8/26/98	58° 30.11'	150° 09.68' W	51	6.7	2,577	676	0	4
3A	4213	8/20/98	58° 29.87'	150° 28.98' W	47	6.7	1,046	1316	0	0
3A	4214	8/21/98	58° 29.87'	150° 47.98' W	56	6.7	2,214	574	8	0
3A	4215	8/19/98	58° 39.79'	149° 12.38' W	76	6.7	2,356	201	54	25
3A	4216	8/19/98	58° 39.91'	149° 31.78' W	71	6.7	4,294	355	66	0
3A	4217	8/27/98	58° 40.00'	149° 51.12' W	84	6.7	2,023	379	46	0
3A	4218	8/27/98	58° 40.20'	150° 09.96' W	69	6.7	3,806	691	0	0
3A	4219	8/20/98	58° 40.00'	150° 28.54' W	108	6.7	555	126	100	0
3A	4220	8/20/98	58° 39.77'	150° 48.75' W	111	6.7	1,672	53	145	0
3A	4221	9/04/98	58° 39.92'	151° 07.43' W	102	6.7	1,309	203	99	0
3A	4222	8/16/98	58° 50.36'	149° 32.34' W	123	6.7	810	10	168	0
3A	4223	8/16/98	58° 49.91'	149° 51.87' W	128	6.7	1,845	29	187	0
3A	4224	8/27/98	58° 49.83'	150° 09.97' W	90	6.7	3,637	69	147	0
3A	4225	9/07/98	58° 50.21'	150° 30.31' W	94	6.7	3,554	253	66	0
3A	4226	9/07/98	58° 50.01'	150° 48.64' W	98	6.7	2,498	218	38	0
3A	4227	9/04/98	58° 50.06'	151° 07.35' W	76	6.7	5,640	504	17	0
3A	4228	9/04/98	58° 49.77'	151° 27.53' W	58	6.7	2,119	1081	0	4
3A	4229	8/16/98	58° 59.91'	149° 51.19' W	122	6.7	535	38	193	0
3A	4230	9/08/98	59° 00.09'	150° 11.32' W	104	6.7	751	41	191	0
3A	4231	9/08/98	58° 59.88'	150° 30.02' W	67	6.6	2,099	1197	0	0
3A	4232	9/07/98	59° 00.02'	150° 49.94' W	87	6.7	2,987	433	4	0
3A	4233	9/03/98	58° 59.83'	151° 09.05' W	77	6.7	2,750	450	4	0
3A	4234	9/03/98	58° 59.64'	151° 28.13' W	67	6.6	3,191	777	0	4
3A	4235	9/08/98	59° 10.00'	150° 11.02' W	68	6.4	2,270	570	0	0
3A	4236	9/09/98	59° 10.06'	150° 30.07' W	71	6.7	2,716	425	0	0
3A	4237	9/09/98	59° 10.12'	150° 50.12' W	64	6.7	2,465	749	0	21
3A	4238	9/03/98	59° 10.03'	151° 08.96' W	32	4.2	2,774	376	0	0
3A	4239	9/09/98	59° 19.96'	150° 31.12' W	130	4.2	1,226	24	27	0
3A	4240	7/29/98	57° 20.04'	150° 46.34' W	88	6.8	1,781	96	6	0
3A	4241	7/28/98	57° 30.39'	150° 09.14' W	231	6.8	254	0	44	5
3A	4242	7/29/98	57° 30.01'	150° 28.35' W	83	7.1	1,095	51	5	0
3A	4243	7/30/98	57° 29.96'	150° 45.97' W	53	7.0	1,150	127	0	0
3A	4244	7/28/98	57° 40.30'	149° 50.19' W	212	7.0	649	10	15	5
3A	4245	7/28/98	57° 40.05'	150° 09.51' W	111	6.9	3,220	43	0	0

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\*\*Bycatch numbers extrapolated from 20-25% sample.

## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
3A	4246	7/30/98	57° 40.00'	150° 27.80' W	53	6.9	1,080	648	0	0
3A	4247	7/30/98	57° 40.04'	150° 47.00' W	46	7.0	3,149	309	0	0
3A	4248	7/23/98	57° 40.03'	151° 04.78' W	41	7.0	895	194	0	0
3A	4249	7/23/98	57° 40.01'	151° 23.77' W	36	7.0	1,405	277	0	0
3A	4250	7/27/98	57° 49.80'	149° 32.53' W	209	7.0	2,604	0	76	0
3A	4251	7/26/98	57° 50.02'	149° 50.13' W	140	7.0	1,658	36	25	0
3A	4252	7/26/98	57° 49.93'	150° 09.04' W	109	7.0	2,788	119	0	0
3A	4253	7/24/98	57° 50.06'	150° 27.88' W	51	6.9	5,215	330	0	0
3A	4254	7/24/98	57° 49.95'	150° 46.48' W	46	7.0	2,013	390	0	0
3A	4255	7/23/98	57° 50.01'	151° 05.80' W	37	7.0	1,837	469	0	0
3A	4256	8/04/98	57° 49.84'	151° 23.81' W	29	7.0	998	269	0	0
3A	4257	8/04/98	57° 50.00'	151° 42.93' W	28	7.0	469	36	0	0
3A	4258	8/06/98	57° 49.97'	152° 02.08' W	47	6.9	1,046	101	0	0
3A	4259	7/27/98	58° 00.00'	149° 31.86' W	81	7.0	2,143	126	5	0
3A	4260	7/27/98	57° 59.94'	149° 51.12' W	127	7.0	1,644	29	85	0
3A	4261	7/26/98	58° 00.09'	150° 09.09' W	126	7.0	1,261	135	25	0
3A	4262	7/25/98	57° 59.98'	150° 27.77' W	91	7.0	772	248	15	0
3A	4263	7/24/98	57° 59.93'	150° 46.97' W	69	7.0	2,728	157	0	0
3A	4264	8/09/98	57° 59.92'	151° 05.94' W	45	6.9	3,031	228	0	0
3A	4265	8/04/98	57° 59.98'	151° 25.12' W	43	6.9	465	265	0	0
3A	4266	8/05/98	58° 00.03'	151° 44.24' W	66	6.9	1,091	225	5	0
3A	4267	8/06/98	58° 00.01'	152° 02.83' W	98	7.0	1,360	55	0	0
3A	4268	8/06/98	57° 59.98'	152° 21.86' W	116	6.9	2,242	23	0	0
3A	4269	7/25/98	58° 09.98'	150° 09.91' W	83	7.0	2,338	138	5	5
3A	4270	7/25/98	58° 09.91'	150° 28.88' W	63	7.0	2,850	257	0	0
3A	4271	8/09/98	58° 09.79'	150° 48.09' W	62	7.0	1,017	138	0	0
3A	4272	8/09/98	58° 09.98'	151° 06.96' W	81	6.9	952	68	10	0
3A	4273	8/05/98	58° 09.97'	151° 24.69' W	89	7.0	1,130	206	5	0
3A	4274	8/05/98	58° 10.00'	151° 44.03' W	29	6.8	3,011	183	0	0
3A	4275	8/10/98	58° 20.04'	150° 47.80' W	36	7.0	277	104	0	0
3A	4276	8/10/98	58° 20.04'	151° 07.04' W	69	7.0	264	94	20	0
3A	4277	8/11/98	58° 20.00'	151° 25.77' W	52	6.7	2,257	205	0	0
3A	4278	8/11/98	58° 19.72'	151° 44.97' W	31	7.0	2,956	44	0	0
3A	4279	8/10/98	58° 29.91'	151° 06.69' W	50	6.9	394	55	0	0
3A	4280	8/12/98	58° 29.97'	151° 27.23' W	93	7.0	608	21	15	0
3A	4281	8/11/98	58° 29.92'	151° 45.80' W	104	7.0	2,008	53	25	0
3A	4282	8/12/98	58° 39.91'	151° 26.98' W	101	7.1	1,135	64	40	0
3A	4283	8/12/98	58° 39.92'	151° 45.98' W	73	6.8	1,459	58	19	0
3A	4284	8/13/98	58° 39.98'	152° 06.04' W	68	7.0	938	93	5	0
3A	4285	8/13/98	58° 49.93'	152° 05.85' W	60	6.9	1,158	263	0	0
3A	4286	8/02/98	56° 20.23'	152° 50.78' W	56	7.0	6,810	496	0	5
3A	4287	8/02/98	56° 20.00'	153° 08.31' W	65	7.0	3,562	687	15	0
3A	4288	8/03/98	56° 19.80'	153° 26.02' W	33	7.0	2,982	1549	0	0
3A	4289	8/01/98	56° 29.95'	152° 14.89' W	111	7.1	6,108	218	10	10
3A	4290	8/01/98	56° 29.98'	152° 33.05' W	146	7.1	8,742	117	10	0
3A	4291	8/02/98	56° 30.12'	152° 51.48' W	29	7.0	5,192	1059	0	0
3A	4292	8/10/98	56° 29.93'	153° 09.02' W	38	7.0	2,258	183	0	0
3A	4293	8/03/98	56° 29.80'	153° 27.34' W	49	7.1	2,437	1137	0	0
3A	4294	8/03/98	56° 30.07'	153° 45.07' W	36	7.0	8,092	132	0	0

\*Standard Skate = 1,800' groundline with 16/0 circle hooks spaced every 18' on 24"-42" gangions.

\*\*Bycatch numbers extrapolated from 20-25% sample.

## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
3A	4295	7/31/98	56° 40.04'	151° 57.13' W	33	7.0	4,247	1015	0	0
3A	4296	8/01/98	56° 40.09'	152° 14.99' W	27	7.0	2,234	538	0	0
3A	4297	8/11/98	56° 40.05'	152° 33.67' W	78	7.0	1,807	44	30	0
3A	4298	8/10/98	56° 39.98'	152° 52.04' W	38	7.0	2,689	2054	0	0
3A	4299	8/10/98	56° 40.05'	153° 09.96' W	81	7.1	5,817	176	0	0
3A	4300	8/09/98	56° 40.03'	153° 28.02' W	80	7.0	3,128	216	0	0
3A	4301	8/09/98	56° 40.00'	153° 45.96' W	46	7.0	4,513	477	0	0
3A	4302	7/31/98	56° 50.02'	151° 40.05' W	158	7.0	1,303	37	50	5
3A	4303	7/31/98	56° 50.05'	151° 57.86' W	45	6.9	6,199	1225	0	0
3A	4304	8/11/98	56° 49.98'	152° 16.12' W	53	7.0	6,439	746	0	0
3A	4305	8/11/98	56° 50.05'	152° 35.00' W	75	7.1	3,515	39	10	0
3A	4306	8/15/98	56° 50.02'	152° 53.12' W	35	6.9	1,119	1765	0	0
3A	4307	8/15/98	56° 50.10'	153° 10.98' W	52	7.1	3,934	352	0	0
3A	4308	8/09/98	56° 49.80'	153° 29.03' W	51	7.0	3,737	371	0	0
3A	4309	8/28/98	57° 00.02'	151° 39.83' W	43	7.0	4,929	376	0	0
3A	4310	8/21/98	56° 59.86'	151° 59.20' W	44	7.0	2,412	298	0	0
3A	4311	8/21/98	56° 59.97'	152° 17.09' W	40	6.9	5,518	258	0	0
3A	4312	8/21/98	56° 59.95'	152° 35.08' W	85	7.0	3,812	76	35	0
3A	4313	8/20/98	57° 00.01'	152° 54.19' W	62	7.1	3,480	219	10	0
3A	4314	8/27/98	57° 10.34'	151° 03.81' W	204	7.0	728	0	141	15
3A	4315	8/27/98	57° 10.03'	151° 21.95' W	70	7.0	1,938	493	0	0
3A	4316	8/28/98	57° 10.20'	151° 41.09' W	40	6.9	1,657	738	0	0
3A	4317	8/19/98	57° 09.94'	151° 59.19' W	38	7.0	2,662	265	0	0
3A	4318	8/19/98	57° 10.08'	152° 17.99' W	44	6.9	1,344	214	0	0
3A	4319	8/20/98	57° 12.20'	152° 36.44' W	54	7.0	1,975	56	5	0
3A	4320	8/27/98	57° 20.10'	151° 04.03' W	51	7.0	1,626	513	0	0
3A	4321	8/27/98	57° 20.05'	151° 23.07' W	73	6.9	4,645	689	0	0
3A	4322	9/02/98	57° 20.19'	151° 41.05' W	34	7.0	2,681	952	0	0
3A	4323	8/19/98	57° 19.97'	152° 00.05' W	39	7.0	826	101	0	0
3A	4324	8/19/98	57° 19.98'	152° 18.05' W	20	7.0	2,723	17	0	0
3A	4325	9/02/98	57° 30.01'	151° 05.08' W	44	7.0	3,312	682	0	0
3A	4326	9/02/98	57° 30.17'	151° 23.06' W	59	7.0	1,389	696	0	0
3A	4327	9/03/98	57° 29.94'	151° 42.03' W	61	7.0	1,983	583	0	0
3A	4328	9/03/98	57° 29.93'	152° 00.95' W	26	6.9	2,913	473	0	0
3A	4329	9/03/98	57° 40.11'	151° 42.88' W	35	7.0	884	107	0	0
3A	4330	9/03/98	57° 39.94'	152° 00.71' W	94	7.0	3,299	180	0	0
3A	4331	7/27/98	57° 29.91'	154° 55.08' W	125	7.1	2,142	42	25	0
3A	4332	7/26/98	57° 40.12'	154° 34.73' W	120	7.0	2,245	53	20	0
3A	4333	7/26/98	57° 40.06'	154° 53.75' W	127	7.0	2,017	44	20	0
3A	4334	7/27/98	57° 40.12'	155° 13.01' W	162	7.0	1,749	20	35	0
3A	4335	7/25/98	57° 50.14'	154° 14.81' W	112	7.0	2,457	177	6	0
3A	4336	7/25/98	57° 49.58'	154° 34.17' W	124	6.0	1,375	23	5	0
3A	4337	7/26/98	57° 50.12'	154° 53.06' W	158	7.0	1,534	109	5	0
3A	4338	7/20/98	58° 00.05'	153° 36.94' W	88	6.7	3,650	73	10	0
3A	4339	7/24/98	58° 00.10'	153° 55.78' W	107	7.0	2,104	281	0	0
3A	4340	7/25/98	57° 59.90'	154° 14.53' W	127	7.0	1,312	123	0	0
3A	4341	7/20/98	58° 10.04'	153° 18.98' W	61	6.9	2,628	480	0	0
3A	4342	7/24/98	58° 09.56'	153° 38.11' W	109	7.1	1,214	106	10	0
3A	4343	7/24/98	58° 09.77'	153° 57.46' W	116	7.0	2,213	188	5	0

\*Standard Skate = 1,800' groundline with 16/0 circle hooks spaced every 18' on 24"-42" gangions.

\*\*Bycatch numbers extrapolated from 20-25% sample.

## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
3A	4344	7/19/98	58° 19.79'	153° 19.98' W	95	7.0	1,246	104	5	0
3A	4345	7/18/98	58° 19.90'	153° 39.04' W	96	7.1	984	159	0	0
3A	4346	7/18/98	58° 20.20'	153° 57.84' W	43	7.1	2,415	494	5	0
3A	4347	7/19/98	58° 29.84'	153° 02.25' W	91	7.0	1,101	211	15	0
3A	4348	7/19/98	58° 29.84'	153° 21.07' W	98	7.0	1,581	246	0	0
3A	4349	7/18/98	58° 30.33'	153° 41.05' W	53	7.1	2,371	359	0	0
3A	4350	7/13/98	58° 40.03'	152° 43.91' W	105	7.0	1,222	132	35	0
3A	4351	7/17/98	58° 40.01'	153° 03.34' W	88	6.9	3,865	204	0	0
3A	4352	7/17/98	58° 40.17'	153° 23.03' W	27	7.0	2,165	335	0	0
3A	4353	7/13/98	58° 50.02'	152° 26.26' W	96	6.9	2,931	103	20	0
3A	4354	7/13/98	58° 49.89'	152° 45.03' W	104	6.9	850	94	15	0
3A	4355	7/17/98	58° 49.88'	153° 04.08' W	90	6.8	1,918	146	5	0
3A	4356	7/09/98	59° 00.11'	151° 48.62' W	82	7.0	5,012	581	0	0
3A	4357	7/10/98	58° 59.94'	152° 06.62' W	74	6.9	2,925	712	0	0
3A	4358	7/12/98	59° 00.01'	152° 26.80' W	78	6.9	2,842	321	20	0
3A	4359	7/12/98	58° 59.99'	152° 46.07' W	94	7.0	1,934	159	0	0
3A	4360	7/12/98	58° 59.78'	153° 04.96' W	85	6.8	1,871	268	15	0
3A	4361	7/09/98	59° 09.69'	152° 07.97' W	77	7.0	1,411	485	0	0
3A	4362	7/01/98	59° 10.27'	152° 27.21' W	55	7.0	1,609	2278	0	0
3A	4363	7/11/98	59° 09.70'	152° 47.91' W	79	6.9	2,404	449	0	0
3A	4364	7/11/98	59° 09.82'	153° 06.05' W	49	7.0	2,488	296	0	0
3A	4365	7/11/98	59° 09.79'	153° 26.12' W	23	7.0	1,703	390	0	0
3A	4366	7/09/98	59° 20.05'	152° 08.83' W	38	7.0	2,213	1535	0	0
3A	4367	7/01/98	59° 20.18'	152° 27.62' W	41	6.9	1,137	1266	0	0
3A	4368	6/30/98	59° 19.96'	152° 48.23' W	44	6.9	813	304	0	0
3A	4369	6/30/98	59° 19.98'	153° 07.92' W	29	6.8	1,368	264	0	0
3A	4370	7/02/98	59° 29.97'	151° 49.86' W	41	7.0	1,644	367	0	0
3A	4371	7/02/98	59° 29.68'	152° 08.72' W	24	7.0	1,194	1966	0	0
3A	4372	7/01/98	59° 30.05'	152° 29.31' W	31	6.9	1,166	1422	0	0
3A	4373	6/30/98	59° 30.02'	152° 48.91' W	29	6.8	2,936	209	0	0
3A	4374	6/29/98	59° 39.97'	152° 34.99' W	33	7.0	836	38	0	0
3A	4375	6/29/98	59° 49.83'	152° 11.21' W	29	7.0	1,283	932	0	0
3A	4376	7/29/98	57° 21.21'	150° 27.80' W	272	7.0	0	0	40	0

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\*\*Bycatch numbers extrapolated from 20-25% sample.

## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
3B	5001	6/29/98	56° 01.02'	153° 36.02' W	47	7.0	2,771	335	0	0
3B	5002	6/29/98	56° 00.06'	153° 53.98' W	63	6.9	2,307	269	0	0
3B	5003	6/30/98	56° 00.02'	154° 12.80' W	60	6.9	2,915	416	0	5
3B	5004	6/30/98	56° 01.27'	154° 29.18' W	162	6.8	1,499	29	29	15
3B	5005	7/02/98	56° 00.12'	154° 48.36' W	114	7.0	1,139	64	59	0
3B	5006	7/02/98	56° 00.04'	155° 06.24' W	33	6.9	337	324	0	0
3B	5007	6/29/98	56° 10.26'	153° 36.03' W	88	6.9	3,342	112	0	0
3B	5008	6/25/98	56° 10.05'	153° 53.31' W	124	7.0	7,170	120	0	0
3B	5009	6/30/98	56° 10.04'	154° 11.02' W	65	6.9	1,898	489	0	0
3B	5010	7/01/98	56° 09.91'	154° 28.99' W	51	7.0	5,669	500	0	0
3B	5011	7/01/98	56° 10.04'	154° 46.67' W	44	7.0	996	763	0	0
3B	5012	7/03/98	56° 09.96'	155° 05.00' W	19	7.0	624	565	0	0
3B	5013	7/03/98	56° 10.00'	155° 23.31' W	21	7.0	662	263	0	0
3B	5014	7/03/98	56° 10.04'	155° 40.78' W	33	6.9	1,779	263	0	0
3B	5015	6/25/98	56° 20.04'	153° 51.31' W	49	6.0	2,149	578	0	0
3B	5016	6/25/98	56° 20.04'	154° 10.04' W	51	7.0	1,197	251	0	0
3B	5017	7/01/98	56° 20.01'	154° 27.98' W	34	7.0	798	286	0	0
3B	5018	7/04/98	56° 20.03'	155° 21.96' W	25	7.0	694	229	0	0
3B	5019	7/04/98	56° 19.82'	155° 40.02' W	39	7.0	903	230	0	0
3B	5020	7/05/98	56° 29.75'	155° 20.98' W	28	7.0	2,004	557	0	0
3B	5021	7/04/98	56° 30.01'	155° 39.02' W	64	2.0	474	61	0	0
3B	5022	7/05/98	56° 39.98'	155° 01.99' W	22	7.0	1,445	109	0	0
3B	5023	7/05/98	56° 39.96'	155° 20.09' W	54	7.0	1,614	161	0	0
3B	5024	7/05/98	56° 39.99'	155° 38.11' W	130	1.0	574	28	3	0
3B	5025	7/13/98	56° 39.98'	155° 56.20' W	160	7.0	2,023	65	5	0
3B	5026	7/17/98	56° 49.98'	154° 24.27' W	34	7.0	2,551	154	0	0
3B	5027	7/17/98	56° 50.05'	154° 42.01' W	32	7.0	1,245	167	0	0
3B	5028	7/14/98	56° 50.05'	154° 59.75' W	41	6.9	1,541	220	0	0
3B	5029	7/14/98	56° 50.05'	155° 19.16' W	125	7.0	1,659	84	15	0
3B	5030	7/13/98	56° 50.05'	155° 36.93' W	152	7.0	1,780	88	10	0
3B	5031	7/13/98	56° 49.97'	155° 55.22' W	163	6.9	1,726	53	54	0
3B	5032	7/17/98	56° 59.94'	154° 41.59' W	23	6.9	2,187	121	0	0
3B	5033	7/16/98	57° 00.09'	154° 58.91' W	61	6.9	1,570	307	0	0
3B	5034	7/14/98	56° 59.91'	155° 17.82' W	138	6.9	1,227	72	5	0
3B	5035	7/12/98	57° 00.26'	155° 36.20' W	155	7.0	1,205	56	10	0
3B	5036	7/12/98	57° 00.04'	155° 54.22' W	156	7.0	1,588	65	35	0
3B	5037	7/16/98	57° 10.09'	154° 40.05' W	34	7.0	1,467	139	0	0
3B	5038	7/16/98	57° 10.04'	154° 57.98' W	109	6.9	890	74	0	0
3B	5039	7/15/98	57° 09.91'	155° 16.02' W	135	6.9	2,015	45	15	0
3B	5040	7/12/98	57° 10.17'	155° 34.69' W	149	7.0	1,869	74	15	0
3B	5041	7/11/98	57° 09.78'	155° 53.90' W	137	6.9	1,790	28	20	0
3B	5042	7/15/98	57° 20.04'	154° 57.08' W	108	7.0	1,888	10	20	0
3B	5043	7/15/98	57° 19.96'	155° 14.97' W	135	6.9	1,900	48	10	0
3B	5044	7/10/98	57° 19.98'	155° 34.53' W	155	7.0	1,258	21	0	0
3B	5045	7/11/98	57° 19.95'	155° 52.48' W	63	7.1	4,371	114	0	0
3B	5046	7/11/98	57° 20.31'	156° 10.55' W	83	7.0	1,184	18	0	0
3B	5047	7/10/98	57° 30.17'	155° 13.93' W	143	7.0	993	20	15	0
3B	5048	7/10/98	57° 29.99'	155° 33.25' W	162	7.0	2,041	108	5	0
3B	5096	7/31/98	54° 50.61'	157° 33.00' W	217	7.0	752	19	40	20

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\*\*Bycatch numbers extrapolated from 20-25% sample.

## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
3B	5097	7/25/98	54° 50.05'	157° 49.98' W	97	7.0	2,572	220	5	0
3B	5098	8/01/98	54° 59.76'	157° 15.01' W	114	7.0	2,366	360	9	0
3B	5099	7/31/98	54° 59.70'	157° 31.98' W	54	7.0	6,345	881	0	30
3B	5100	7/25/98	54° 59.55'	157° 49.98' W	47	7.0	4,051	699	0	5
3B	5101	7/24/98	55° 00.23'	158° 07.00' W	73	7.0	4,095	916	0	0
3B	5102	8/11/98	55° 10.09'	156° 21.98' W	280	7.0	73	0	116	0
3B	5103	8/11/98	55° 10.00'	156° 38.98' W	288	7.0	0	0	178	0
3B	5104	8/11/98	55° 09.93'	156° 57.01' W	88	7.0	3,466	277	0	0
3B	5105	8/01/98	55° 09.82'	157° 14.00' W	63	7.0	1,706	783	0	0
3B	5106	7/31/98	55° 09.98'	157° 32.04' W	48	7.0	6,233	1008	0	0
3B	5107	7/25/98	55° 09.86'	157° 48.98' W	45	7.0	4,641	1935	0	0
3B	5108	7/24/98	55° 10.14'	158° 07.00' W	57	7.0	4,704	1020	0	0
3B	5109	8/10/98	55° 19.72'	156° 39.03' W	66	7.0	3,419	1606	0	0
3B	5110	8/10/98	55° 20.22'	156° 55.97' W	52	7.0	2,842	1818	0	0
3B	5111	8/01/98	55° 20.04'	157° 13.98' W	50	7.0	1,900	1483	0	0
3B	5112	8/02/98	55° 19.94'	157° 31.00' W	48	7.0	2,482	1799	0	0
3B	5113	7/26/98	55° 19.85'	157° 48.98' W	46	7.0	1,434	2259	0	0
3B	5114	7/24/98	55° 19.86'	158° 06.03' W	61	6.9	3,929	1046	0	0
3B	5115	7/22/98	55° 19.95'	158° 23.94' W	80	7.0	3,550	180	0	0
3B	5116	8/10/98	55° 30.00'	156° 38.00' W	102	7.0	2,651	72	54	0
3B	5117	8/10/98	55° 30.17'	156° 54.98' W	51	7.0	8,906	670	0	0
3B	5118	8/09/98	55° 30.12'	157° 13.00' W	49	7.0	2,261	875	0	0
3B	5119	8/02/98	55° 29.93'	157° 31.00' W	52	7.0	1,887	1594	0	0
3B	5120	7/26/98	55° 29.88'	157° 47.99' W	55	7.0	2,705	1151	0	0
3B	5121	7/22/98	55° 30.18'	158° 06.06' W	71	7.0	716	92	0	0
3B	5122	7/22/98	55° 30.04'	158° 23.97' W	80	7.0	1,364	122	0	0
3B	5123	8/09/98	55° 40.02'	156° 54.86' W	50	7.0	2,999	1294	0	0
3B	5124	8/09/98	55° 40.03'	157° 13.00' W	48	7.0	1,624	1359	0	0
3B	5125	8/02/98	55° 40.25'	157° 29.87' W	56	7.0	4,034	1063	0	0
3B	5126	7/26/98	55° 39.99'	157° 47.94' W	75	7.0	2,572	561	0	0
3B	5127	7/20/98	55° 40.34'	158° 06.10' W	70	6.7	3,955	443	0	0
3B	5128	7/21/98	55° 40.05'	158° 23.00' W	71	7.0	4,049	526	0	0
3B	5129	7/21/98	55° 39.90'	158° 41.00' W	50	7.0	2,618	2136	0	0
3B	5130	8/04/98	55° 50.17'	157° 12.04' W	56	7.0	3,772	983	0	0
3B	5131	8/04/98	55° 50.12'	157° 30.00' W	56	7.0	2,326	810	0	0
3B	5132	8/03/98	55° 49.78'	157° 48.02' W	64	7.0	4,171	662	0	0
3B	5133	7/20/98	55° 50.36'	158° 05.00' W	48	6.9	4,007	1472	0	0
3B	5134	7/21/98	55° 50.02'	158° 23.04' W	62	7.0	5,914	826	0	0
3B	5135	8/04/98	55° 59.99'	157° 29.00' W	59	7.0	2,060	268	0	0
3B	5136	8/03/98	55° 59.70'	157° 47.00' W	65	7.0	2,312	379	0	0
3B	5137	7/30/98	56° 00.09'	158° 04.99' W	48	7.0	3,942	1141	0	0
3B	5138	8/03/98	56° 10.39'	157° 46.97' W	85	7.0	6,124	89	0	0
3B	5139	7/30/98	56° 10.02'	158° 05.02' W	39	7.0	1,903	461	0	0
3B	5140	7/30/98	56° 19.98'	158° 04.02' W	40	7.0	2,497	229	0	0
3B	5141	6/20/98	54° 30.00'	158° 60.00' W	158	6.0	2,506	189	69	0
3B	5142	6/21/98	54° 29.98'	159° 16.87' W	79	6.9	2,481	153	0	0
3B	5143	6/29/98	54° 29.97'	159° 33.95' W	63	7.0	5,988	563	0	15
3B	5144	6/30/98	54° 30.00'	159° 50.40' W	66	7.0	1,057	477	0	0
3B	5145	6/30/98	54° 30.00'	160° 08.87' W	66	7.0	1,903	322	0	0

\*Standard Skate = 1,800' groundline with 16/0 circle hooks spaced every 18' on 24"-42" gangions.

\*\*Bycatch numbers extrapolated from 20-25% sample.



## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
3B	5146	6/14/98	54° 40.00'	158° 24.87' W	115	6.0	8,144	324	10	0
3B	5147	6/20/98	54° 39.87'	158° 42.03' W	57	7.0	6,053	619	0	0
3B	5148	6/20/98	54° 39.98'	159° 00.01' W	50	7.1	6,795	833	0	5
3B	5149	6/29/98	54° 39.98'	159° 17.05' W	41	6.7	4,317	950	0	0
3B	5150	6/29/98	54° 40.00'	159° 33.97' W	35	7.0	9,588	838	0	5
3B	5151	7/01/98	54° 40.03'	159° 54.10' W	42	7.0	8,011	644	0	0
3B	5152	6/30/98	54° 40.00'	160° 08.88' W	50	7.0	4,337	1260	0	0
3B	5153	6/14/98	54° 49.99'	158° 06.86' W	71	7.0	4,172	1413	0	0
3B	5154	6/14/98	54° 50.05'	158° 24.85' W	107	6.0	4,577	165	86	5
3B	5155	6/13/98	54° 50.25'	158° 41.70' W	56	7.0	4,965	820	0	0
3B	5156	6/12/98	54° 50.00'	158° 59.98' W	40	7.1	2,751	1428	0	0
3B	5157	7/01/98	54° 50.00'	159° 52.14' W	30	7.0	4,282	614	0	0
3B	5158	7/01/98	54° 49.99'	160° 09.11' W	38	7.0	6,118	712	0	0
3B	5159	7/03/98	54° 50.08'	160° 26.20' W	46	7.0	1,854	423	0	0
3B	5160	6/13/98	54° 59.93'	158° 24.98' W	115	7.0	6,078	146	60	0
3B	5161	6/13/98	54° 59.97'	158° 42.00' W	72	6.9	3,622	777	0	0
3B	5162	6/12/98	54° 60.00'	158° 59.00' W	46	7.0	5,147	1225	0	0
3B	5163	6/12/98	55° 00.00'	159° 16.88' W	26	6.9	6,100	381	0	0
3B	5164	7/03/98	55° 00.03'	160° 27.11' W	63	7.0	3,798	600	0	0
3B	5165	7/03/98	55° 00.08'	160° 44.01' W	48	7.0	6,457	1070	0	0
3B	5166	6/11/98	55° 10.02'	158° 23.96' W	98	6.9	2,164	325	0	0
3B	5167	6/11/98	55° 09.94'	158° 42.04' W	111	6.9	3,081	142	49	0
3B	5168	6/11/98	55° 09.99'	158° 59.06' W	66	2.0	1,007	235	0	0
3B	5169	6/09/98	55° 09.89'	159° 17.00' W	41	7.0	4,091	1060	0	0
3B	5170	6/10/98	55° 19.97'	158° 42.00' W	103	7.0	2,754	66	20	0
3B	5171	6/09/98	55° 19.91'	158° 58.98' W	101	7.1	2,624	102	5	0
3B	5172	6/09/98	55° 20.00'	159° 16.98' W	98	7.0	3,259	127	0	0
3B	5173	6/02/98	55° 19.98'	159° 33.99' W	77	6.9	2,223	426	0	0
3B	5174	6/01/98	55° 20.04'	159° 52.01' W	47	7.0	1,880	1099	0	0
3B	5175	6/10/98	55° 29.95'	158° 41.00' W	89	7.0	2,234	165	10	0
3B	5176	6/10/98	55° 29.93'	158° 59.50' W	61	7.0	2,649	1061	0	0
3B	5177	6/02/98	55° 29.98'	159° 17.12' W	68	7.0	2,045	559	0	0
3B	5178	6/02/98	55° 29.88'	159° 34.00' W	91	7.0	2,854	240	0	0
3B	5179	6/01/98	55° 30.00'	159° 51.99' W	93	7.0	2,505	187	0	0
3B	5180	Station Deleted								
3B	5181	6/04/98	55° 39.99'	158° 59.34' W	83	7.0	2,593	208	0	0
3B	5182	6/03/98	55° 40.00'	159° 17.06' W	56	7.0	3,164	429	0	0
3B	5183	6/01/98	55° 39.87'	159° 52.00' W	71	7.0	3,604	188	0	0
3B	5184	6/03/98	55° 50.00'	158° 59.00' W	68	7.0	1,452	245	0	0
3B	5185	6/03/98	55° 50.00'	159° 17.07' W	33	7.0	1,520	340	0	0
3B	5186	7/17/98	54° 00.05'	163° 15.12' W	47	7.0	2,033	525	0	0
3B	5187	7/17/98	54° 00.05'	163° 32.03' W	55	7.0	735	212	0	0
3B	5188	7/17/98	53° 59.95'	163° 48.91' W	51	7.0	348	226	0	0
3B	5189	7/23/98	54° 09.87'	161° 34.00' W	85	7.1	1,536	181	45	0
3B	5190	7/22/98	54° 10.00'	161° 50.95' W	45	7.0	11,463	734	0	5
3B	5191	7/22/98	54° 10.00'	162° 07.97' W	47	7.0	8,930	391	0	5
3B	5192	7/22/98	54° 10.00'	162° 25.09' W	99	7.0	418	195	50	0
3B	5193	7/16/98	54° 10.00'	163° 49.97' W	51	7.0	1,530	528	0	0
3B	5194	7/10/98	54° 19.98'	160° 08.00' W	181	7.0	1,149	349	35	0

\*Standard Skate = 1,800' groundline with 16/0 circle hooks spaced every 18' on 24"-42" gangions.

\*\*Bycatch numbers extrapolated from 20-25% sample.

## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
3B	5195	7/10/98	54° 19.94'	160° 26.01' W	68	7.0	3,165	971	0	0
3B	5196	7/26/98	54° 19.97'	160° 43.02' W	60	7.0	2,890	636	0	0
3B	5197	7/26/98	54° 19.93'	160° 59.98' W	74	7.0	1,314	802	0	0
3B	5198	7/25/98	54° 20.04'	161° 16.95' W	60	7.0	5,366	1004	0	10
3B	5199	7/23/98	54° 19.79'	161° 34.00' W	79	6.9	2,243	159	27	0
3B	5200	7/23/98	54° 20.00'	161° 51.05' W	40	7.0	10,563	455	0	0
3B	5201	7/21/98	54° 19.90'	162° 09.00' W	32	7.0	10,416	833	0	0
3B	5202	7/14/98	54° 20.02'	163° 17.16' W	30	7.0	10,786	514	0	0
3B	5203	7/14/98	54° 20.02'	163° 34.12' W	62	7.0	2,084	253	0	0
3B	5204	7/16/98	54° 19.96'	163° 50.94' W	63	7.0	1,885	371	0	0
3B	5205	7/16/98	54° 19.62'	164° 08.81' W	53	7.0	1,064	286	0	0
3B	5206	7/10/98	54° 30.04'	160° 25.94' W	81	7.0	2,854	280	10	0
3B	5207	7/26/98	54° 30.12'	160° 42.96' W	76	7.0	2,219	280	0	0
3B	5208	7/25/98	54° 29.93'	160° 59.89' W	71	7.0	1,844	148	25	0
3B	5209	7/25/98	54° 30.01'	161° 17.96' W	66	7.0	1,518	761	0	0
3B	5210	7/24/98	54° 30.00'	161° 34.92' W	38	7.1	5,106	1305	0	0
3B	5211	7/24/98	54° 30.02'	161° 51.95' W	78	7.0	3,009	314	0	0
3B	5212	7/21/98	54° 29.92'	162° 09.00' W	76	7.0	3,813	508	0	0
3B	5213	7/21/98	54° 30.00'	162° 26.00' W	80	7.0	3,981	305	0	0
3B	5214	7/14/98	54° 30.09'	163° 18.18' W	43	7.0	4,318	636	0	0
3B	5215	7/15/98	54° 29.95'	163° 35.11' W	55	7.0	3,023	544	0	0
3B	5216	7/15/98	54° 30.15'	163° 53.11' W	48	7.0	2,025	543	0	0
3B	5217	7/15/98	54° 29.98'	164° 10.09' W	51	7.0	1,911	624	0	0
3B	5218	7/09/98	54° 40.03'	160° 25.99' W	56	7.0	2,634	1496	0	0
3B	5219	7/09/98	54° 39.66'	160° 42.99' W	53	7.0	4,591	1241	0	0
3B	5220	7/08/98	54° 40.04'	161° 01.17' W	50	7.0	4,799	917	0	0
3B	5221	7/08/98	54° 40.01'	161° 18.08' W	77	7.0	3,768	638	0	0
3B	5222	7/07/98	54° 40.03'	161° 34.97' W	35	7.0	7,032	739	0	0
3B	5223	7/24/98	54° 40.00'	161° 52.89' W	43	7.0	5,582	393	0	0
3B	5224	7/13/98	54° 40.00'	162° 44.06' W	46	7.0	3,044	979	0	0
3B	5225	7/09/98	54° 49.98'	160° 43.95' W	55	7.0	3,973	407	0	0
3B	5226	7/08/98	54° 50.00'	161° 01.05' W	56	7.0	3,722	1234	0	0
3B	5227	7/07/98	54° 49.97'	161° 18.29' W	54	7.0	4,796	504	0	0
3B	5228	7/07/98	54° 50.02'	161° 36.03' W	38	7.0	6,592	423	0	0
3B	5229	7/13/98	54° 50.00'	162° 45.12' W	29	7.0	2,526	427	0	0
3B	5230	7/13/98	54° 49.95'	163° 02.84' W	41	7.0	3,350	614	0	0
3B	5231	7/06/98	54° 60.00'	161° 00.91' W	57	7.0	3,047	380	0	0
3B	5232	7/06/98	54° 59.99'	161° 18.92' W	50	7.0	5,335	1007	0	0
3B	5233	7/06/98	55° 10.00'	161° 01.88' W	51	7.0	3,030	677	0	0
3B	5234	8/09/98	55° 19.88'	156° 03.22' W	176	6.8	5,358	9	19	29
3B	5235	8/09/98	55° 19.80'	156° 21.20' W	94	6.9	2,509	302	0	0
3B	5236	8/07/98	55° 30.76'	155° 44.91' W	113	7.0	2,033	174	20	0
3B	5237	8/08/98	55° 30.14'	156° 03.18' W	109	7.0	2,384	303	5	0
3B	5238	8/09/98	55° 29.77'	156° 20.50' W	116	7.0	2,775	66	25	5
3B	5239	8/07/98	55° 40.23'	155° 25.19' W	99	7.0	704	142	10	0
3B	5240	8/07/98	55° 40.45'	155° 44.14' W	64	7.0	1,878	887	0	0
3B	5241	8/08/98	55° 39.91'	156° 02.41' W	126	6.9	1,097	66	64	0
3B	5242	8/08/98	55° 40.53'	156° 18.93' W	138	7.0	4,624	46	30	0
3B	5243	8/10/98	55° 39.92'	156° 38.00' W	131	7.0	1,382	70	10	0

\*Standard Skate = 1,800' groundline with 16/0 circle hooks spaced every 18' on 24"-42" gangions.

\*\*Bycatch numbers extrapolated from 20-25% sample.

## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
3B	5244	8/06/98	55° 50.71'	155° 06.30' W	65	7.0	1,984	1007	0	0
3B	5245	8/06/98	55° 50.74'	155° 25.00' W	27	7.0	685	340	0	0
3B	5246	8/11/98	55° 50.11'	156° 01.01' W	55	7.0	4,837	735	0	0
3B	5247	8/11/98	55° 51.08'	156° 19.05' W	131	7.0	842	50	30	0
3B	5248	8/10/98	55° 50.05'	156° 36.28' W	122	7.0	1,443	69	25	0
3B	5249	8/10/98	55° 49.98'	156° 54.14' W	69	6.8	2,251	134	0	0
3B	5250	8/12/98	56° 00.56'	155° 41.49' W	25	7.0	1,008	396	0	0
3B	5251	8/12/98	56° 00.03'	156° 00.38' W	47	7.0	1,645	240	0	0
3B	5252	8/11/98	55° 59.85'	156° 18.02' W	116	7.0	1,132	16	31	0
3B	5253	8/13/98	56° 00.10'	156° 35.92' W	106	7.0	5,670	68	0	0
3B	5254	8/14/98	56° 00.04'	157° 10.96' W	62	7.0	1,955	201	0	0
3B	5255	8/12/98	56° 10.04'	155° 59.14' W	112	7.0	3,258	31	5	0
3B	5256	8/13/98	56° 10.02'	156° 16.75' W	127	6.9	2,250	0	24	0
3B	5257	8/13/98	56° 10.09'	156° 35.06' W	100	7.0	2,936	84	5	0
3B	5258	8/18/98	56° 10.05'	156° 52.97' W	43	7.0	1,521	768	0	0
3B	5259	8/14/98	56° 10.09'	157° 10.95' W	59	7.0	3,089	192	0	0
3B	5260	8/14/98	56° 10.06'	157° 29.16' W	84	7.0	289	18	0	0
3B	5261	6/25/98	56° 19.66'	155° 58.02' W	114	6.9	1,477	118	25	0
3B	5262	6/25/98	56° 20.49'	156° 15.36' W	152	6.0	2,724	104	28	0
3B	5263	8/19/98	56° 20.07'	156° 33.76' W	102	7.0	4,113	17	14	0
3B	5264	8/18/98	56° 20.08'	156° 52.13' W	63	6.9	3,362	331	0	0
3B	5265	8/18/98	56° 20.02'	157° 10.18' W	93	7.0	873	10	0	0
3B	5266	8/17/98	56° 20.14'	157° 27.85' W	45	7.0	4,290	597	0	0
3B	5267	8/17/98	56° 20.05'	157° 45.16' W	40	7.0	3,012	503	0	0
3B	5268	6/25/98	56° 30.13'	155° 57.03' W	135	6.9	1,013	9	20	0
3B	5269	8/22/98	56° 30.00'	156° 15.00' W	140	6.9	3,329	112	10	0
3B	5270	8/19/98	56° 30.01'	156° 33.02' W	105	7.0	1,922	48	10	0
3B	5271	8/19/98	56° 30.05'	156° 50.86' W	53	7.0	3,577	460	0	0
3B	5272	8/17/98	56° 30.08'	157° 27.40' W	84	7.0	2,466	167	0	0
3B	5273	8/22/98	56° 40.03'	156° 14.00' W	114	7.0	2,844	66	45	0
3B	5274	8/22/98	56° 40.05'	156° 32.15' W	85	6.9	4,056	197	0	0
3B	5275	8/21/98	56° 40.02'	156° 50.68' W	57	7.0	2,643	356	0	0
3B	5276	8/21/98	56° 40.00'	157° 08.91' W	67	7.0	2,053	59	0	0
3B	5277	8/23/98	56° 49.96'	156° 13.00' W	105	7.1	3,109	140	5	0
3B	5278	8/23/98	56° 50.07'	156° 32.05' W	54	7.0	2,461	238	0	0
3B	5279	8/21/98	56° 49.87'	156° 49.94' W	55	7.0	2,654	157	0	0
3B	5280	8/23/98	56° 59.96'	156° 13.00' W	86	6.9	1,289	101	0	0

\*Standard Skate = 1,800' groundline with 16/0 circle hooks spaced every 18' on 24"-42" gangions.

\*\*Bycatch numbers extrapolated from 20-25% sample.

## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
4A	6001	8/28/98	52° 30.00'	169° 40.95' W	134	6.7	4,884	69	5	0
4A	6002	8/28/98	52° 29.98'	169° 58.24' W	130	6.8	6,228	97	0	0
4A	6003	8/29/98	52° 29.98'	170° 47.11' W	99	6.9	3,105	146	0	5
4A	6004	8/27/98	52° 39.99'	169° 09.03' W	60	7.0	3,883	714	0	0
4A	6005	8/29/98	52° 39.95'	169° 25.03' W	105	7.0	3,866	183	0	0
4A	6006	8/27/98	52° 40.03'	169° 41.71' W	34	7.0	2,403	85	0	5
4A	6007	8/28/98	52° 40.01'	169° 58.16' W	163	6.7	7,424	17	15	10
4A	6008	8/29/98	52° 40.12'	170° 47.66' W	43	7.0	889	251	0	0
4A	6009	8/30/98	52° 39.69'	171° 21.12' W	255	6.7	5,448	0	0	0
4A	6010	8/23/98	52° 50.01'	168° 36.08' W	53	7.0	4,030	378	0	0
4A	6011	8/23/98	52° 50.00'	168° 52.05' W	32	6.7	9,195	351	0	0
4A	6012	8/04/98	52° 49.97'	170° 15.14' W	79	3.0	2,293	277	0	0
4A	6013	8/30/98	52° 49.86'	171° 21.02' W	100	6.7	4,537	253	0	0
4A	6014	8/30/98	52° 50.02'	171° 38.03' W	236	0.0	0	0	0	0
4A	6015	8/21/98	52° 59.98'	167° 29.09' W	101	6.9	0	33	0	0
4A	6016	8/21/98	52° 59.98'	167° 46.00' W	55	6.8	1,233	392	0	0
4A	6017	8/22/98	52° 59.96'	168° 02.03' W	66	6.9	892	313	0	0
4A	6018	8/22/98	53° 00.01'	168° 19.00' W	45	6.9	2,722	294	0	0
4A	6019	8/02/98	52° 59.87'	169° 09.02' W	145	7.0	5,104	134	98	10
4A	6020	8/03/98	52° 59.95'	169° 59.14' W	67	7.0	5,833	827	0	0
4A	6021	8/03/98	52° 59.81'	170° 15.11' W	103	0.0	0	0	0	0
4A	6022	8/18/98	53° 09.96'	166° 55.98' W	111	6.8	143	186	44	0
4A	6023	8/20/98	53° 09.98'	167° 12.23' W	61	6.7	1,722	411	0	0
4A	6024	8/20/98	53° 10.00'	167° 29.05' W	49	6.7	1,968	815	0	0
4A	6025	8/21/98	53° 09.99'	167° 46.05' W	44	7.0	2,615	393	0	0
4A	6026	8/22/98	53° 10.01'	168° 02.09' W	36	6.8	421	370	0	0
4A	6027	8/02/98	53° 10.16'	168° 51.94' W	150	7.0	7,225	83	0	10
4A	6028	8/03/98	53° 10.30'	169° 42.01' W	162	0.3	395	0	0	3
4A	6029	8/17/98	53° 19.95'	166° 05.29' W	261	7.0	0	0	104	0
4A	6030	8/17/98	53° 19.96'	166° 21.93' W	137	6.9	482	237	30	0
4A	6031	8/18/98	53° 19.95'	166° 38.04' W	70	6.7	505	94	5	0
4A	6032	8/18/98	53° 19.91'	166° 55.06' W	52	6.9	3,204	650	0	0
4A	6033	8/20/98	53° 19.99'	167° 12.00' W	41	6.9	946	466	0	0
4A	6034	8/02/98	53° 19.95'	168° 35.90' W	45	3.0	1,442	512	0	0
4A	6035	8/14/98	53° 30.05'	165° 47.99' W	119	7.0	1,145	218	15	5
4A	6036	8/17/98	53° 30.00'	166° 04.24' W	73	7.0	1,045	491	0	0
4A	6037	8/17/98	53° 29.98'	166° 21.09' W	67	7.0	1,237	304	0	0
4A	6038	8/01/98	53° 30.12'	167° 28.14' W	44	7.0	4,510	351	0	0
4A	6039	8/13/98	53° 40.00'	164° 38.03' W	196	6.9	374	97	82	5
4A	6040	8/13/98	53° 39.84'	164° 55.07' W	188	6.9	284	115	38	0
4A	6041	8/13/98	53° 40.03'	165° 13.07' W	190	7.0	87	54	74	0
4A	6042	8/14/98	53° 39.95'	165° 30.02' W	86	6.7	1,140	159	43	0
4A	6043	8/14/98	53° 40.17'	165° 47.08' W	71	6.8	1,366	446	0	0
4A	6044	8/07/98	53° 39.94'	166° 04.11' W	47	7.0	2,898	1703	0	0
4A	6045	8/01/98	53° 40.23'	167° 10.88' W	41	7.0	5,382	148	5	0
4A	6046	8/01/98	53° 40.06'	167° 28.03' W	216	7.0	2,111	9	26	5
4A	6047	8/11/98	53° 49.97'	163° 47.87' W	50	7.0	6,822	699	0	65
4A	6048	8/11/98	53° 49.97'	164° 05.01' W	44	7.0	6,754	648	0	0
4A	6049	8/12/98	53° 49.95'	164° 22.00' W	48	7.0	2,010	284	0	0

\*Standard Skate = 1,800' groundline with 16/0 circle hooks spaced every 18' on 24"-42" gangions.

\*\*Bycatch numbers extrapolated from 20-25% sample.

## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
4A	6050	8/12/98	53° 50.09'	164° 38.95' W	55	6.8	1,338	647	0	0
4A	6051	8/09/98	53° 49.92'	164° 56.02' W	62	7.0	719	641	0	0
4A	6052	8/09/98	53° 49.96'	165° 12.05' W	63	6.9	1,644	782	0	0
4A	6053	8/08/98	53° 50.01'	165° 28.75' W	52	7.0	892	388	0	0
4A	6054	8/08/98	53° 49.94'	165° 45.99' W	42	6.8	104	202	0	0
4A	6055	8/07/98	53° 50.00'	166° 02.86' W	38	7.0	2,773	1301	0	0
4A	6056	8/07/98	53° 50.08'	166° 19.93' W	98	7.0	1,990	220	0	0
4A	6057	8/11/98	54° 00.01'	164° 06.06' W	42	7.0	1,252	363	0	5
4A	6058	8/12/98	53° 59.88'	164° 23.02' W	57	7.0	1,205	320	0	0
4A	6059	8/12/98	54° 00.07'	164° 39.94' W	54	7.0	2,127	444	0	0
4A	6060	8/09/98	54° 00.08'	164° 56.99' W	44	7.0	789	433	0	0
4A	6061	8/09/98	53° 59.92'	165° 12.00' W	43	7.0	7,735	652	0	0
4A	6062	8/08/98	54° 00.01'	165° 28.93' W	40	6.7	3,366	476	0	0
4A	6063	8/08/98	53° 59.94'	165° 46.00' W	52	6.7	6,111	718	0	0
4A	6064	8/10/98	54° 10.00'	164° 07.06' W	39	7.0	973	274	0	0
4A	6065	8/10/98	54° 09.99'	164° 25.10' W	49	6.7	562	445	0	0
4A	6066	8/10/98	54° 10.10'	164° 42.03' W	39	7.0	2,995	425	0	0
4A	7001	6/29/98	54° 29.95'	165° 44.04' W	207	6.7	53	59	17	0
4A	7002	6/27/98	54° 29.64'	166° 19.08' W	274	6.7	1,354	0	0	0
4A	7003	6/27/98	54° 29.93'	166° 35.84' W	266	6.7	850	0	8	0
4A	7004	6/26/98	54° 30.04'	166° 53.08' W	261	6.7	198	0	8	0
4A	7005	Station Deleted								
4A	7006	6/29/98	54° 39.96'	165° 26.11' W	112	6.7	176	91	0	0
4A	7007	6/28/98	54° 39.84'	165° 43.20' W	185	6.6	26	102	4	0
4A	7008	6/28/98	54° 39.98'	166° 00.98' W	181	6.7	333	326	0	0
4A	7009	6/28/98	54° 39.94'	166° 18.20' W	176	6.7	604	391	0	0
4A	7010	6/27/98	54° 40.39'	166° 35.31' W	186	6.6	1,073	94	0	0
4A	7011	6/26/98	54° 39.77'	166° 52.81' W	210	6.7	2,998	40	0	0
4A	7012	6/25/98	54° 39.98'	167° 10.00' W	248	6.7	1,869	8	0	0
4A	7013	6/18/98	54° 50.04'	165° 24.66' W	83	6.6	138	63	0	0
4A	7014	6/18/98	54° 49.87'	165° 43.06' W	86	6.7	14	227	0	0
4A	7015	6/18/98	54° 50.05'	166° 00.16' W	87	6.8	120	63	0	0
4A	7016	6/17/98	54° 48.99'	166° 17.84' W	91	6.7	165	44	0	0
4A	7017	6/17/98	54° 49.91'	166° 35.29' W	110	6.6	453	44	0	0
4A	7018	6/26/98	54° 49.85'	166° 51.76' W	145	6.7	771	108	0	0
4A	7019	6/25/98	54° 50.03'	167° 09.73' W	194	6.7	3,877	178	0	0
4A	7020	Station Deleted								
4A	7021	6/17/98	54° 59.98'	166° 34.16' W	81	6.5	631	93	0	0
4A	7022	6/16/98	54° 60.00'	166° 52.43' W	86	6.7	1,090	71	0	0
4A	7023	6/15/98	54° 59.94'	167° 08.95' W	98	6.7	1,217	242	0	0
4A	7024	6/24/98	55° 00.12'	167° 26.96' W	162	6.7	522	83	0	0
4A	7025	6/16/98	55° 09.90'	166° 33.95' W	77	6.8	656	145	0	0
4A	7026	6/16/98	55° 10.04'	166° 51.03' W	80	6.7	1,052	174	0	0
4A	7027	6/15/98	55° 09.97'	167° 08.95' W	83	6.7	598	99	0	0
4A	7028	6/15/98	55° 10.05'	167° 25.79' W	91	6.6	703	167	0	0
4A	7029	6/24/98	55° 10.13'	167° 44.25' W	171	6.7	155	51	0	0
4A	7030	6/24/98	55° 20.08'	167° 43.90' W	91	6.7	124	95	0	0
4A	7031	6/23/98	55° 19.84'	168° 00.63' W	201	6.7	424	18	0	0
4A	7032	6/23/98	55° 29.81'	168° 00.97' W	80	6.7	157	56	0	0

\*Standard Skate = 1,800' groundline with 16/0 circle hooks spaced every 18' on 24"-42" gangions.

\*\*Bycatch numbers extrapolated from 20-25% sample.

## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
4A	7033	6/23/98	55° 29.91'	168° 19.11' W	142	6.8	83	9	4	0
4A	7034	6/22/98	55° 39.89'	168° 36.89' W	80	6.7	171	27	0	0
4A	7035	6/22/98	55° 49.94'	168° 37.20' W	79	6.7	1,006	48	0	0
4A	7036	Not Fished in 1998								
4A	7037	6/13/98	55° 59.97'	168° 18.62' W	86	6.5	329	269	0	0
4A	7038	6/14/98	55° 59.93'	168° 36.82' W	141	6.7	282	82	0	0
4A	7039	6/04/98	56° 00.04'	169° 48.41' W	152	6.7	256	30	0	0
4A	7040	6/03/98	55° 59.83'	170° 05.57' W	113	6.7	4,250	392	0	0
4A	7041	6/12/98	56° 10.04'	168° 00.70' W	79	6.7	278	70	0	0
4A	7042	6/13/98	56° 10.55'	168° 18.99' W	89	6.7	535	228	0	0
4A	7043	6/14/98	56° 09.95'	168° 37.14' W	183	5.1	2,474	15	0	12
4A	7044	6/07/98	56° 09.99'	168° 55.19' W	143	6.4	653	127	0	0
4A	7045	6/04/98	56° 10.04'	169° 30.89' W	277	6.7	7,523	0	4	4
4A	7046	6/03/98	56° 10.03'	170° 41.25' W	118	6.7	1,925	104	0	0
4A	7047	6/12/98	56° 20.17'	168° 01.01' W	78	6.7	184	172	0	0
4A	7048	6/12/98	56° 19.95'	168° 19.21' W	87	6.8	203	62	0	0
4A	7049	6/07/98	56° 19.70'	169° 13.25' W	76	6.5	42	36	0	0

\*Standard Skate = 1,800' groundline with 16/0 circle hooks spaced every 18' on 24"-42" gangions.

\*\*Bycatch numbers extrapolated from 20-25% sample.

## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
4B	6067	6/06/98	51° 10.04'	179° 00.07' W	231	6.7	999	16	34	10
4B	6068	6/06/98	51° 18.62'	178° 56.02' W	66	6.7	658	17	5	5
4B	6069	Not Fished in 1998								
4B	6070	6/05/98	51° 29.87'	178° 28.96' W	101	6.7	1,956	247	5	0
4B	6071	6/05/98	51° 30.00'	178° 45.08' W	130	6.8	1,199	433	19	15
4B	6072	6/22/98	51° 40.20'	175° 48.08' W	249	6.7	1,694	37	110	19
4B	6073	6/22/98	51° 40.30'	176° 04.04' W	155	6.8	2,615	347	5	10
4B	6074	Not Fished in 1998								
4B	6075	Not Fished in 1998								
4B	6076	Not Fished in 1998								
4B	6077	6/04/98	51° 40.03'	178° 12.96' W	38	6.5	1,016	43	0	0
4B	6078	6/04/98	51° 39.86'	178° 28.98' W	224	6.7	617	11	62	0
4B	6079	6/20/98	51° 49.95'	174° 27.07' W	124	6.7	2,064	242	29	0
4B	6080	6/20/98	51° 49.99'	174° 43.01' W	120	6.7	1,981	553	0	0
4B	6081	6/21/98	51° 50.00'	175° 00.02' W	120	6.8	2,953	464	0	0
4B	6082	6/21/98	51° 50.12'	175° 16.05' W	106	6.7	2,912	433	0	0
4B	6083	6/21/98	51° 49.88'	175° 31.99' W	95	6.7	1,999	840	0	0
4B	6084	6/22/98	51° 49.89'	175° 48.05' W	73	6.9	624	1305	0	0
4B	6085	6/26/98	51° 59.98'	173° 22.04' W	43	6.7	1,195	209	0	0
4B	6086	6/26/98	51° 59.93'	173° 37.95' W	44	6.7	1,411	192	0	0
4B	6087	6/25/98	51° 59.80'	173° 53.70' W	45	6.9	1,723	281	0	0
4B	6088	6/25/98	51° 59.90'	174° 10.88' W	55	6.8	25	385	0	0
4B	6089	6/23/98	51° 59.99'	174° 26.63' W	39	6.7	893	116	0	0
4B	6090	6/23/98	51° 59.47'	174° 59.04' W	36	6.8	1,356	111	0	0
4B	6091	6/11/98	52° 00.03'	176° 21.05' W	80	6.7	1,312	278	0	0
4B	6092	6/07/98	51° 59.72'	178° 86.95' E	48	6.9	528	168	0	0
4B	6093	6/19/98	52° 09.94'	172° 48.80' W	77	6.7	3,654	122	0	0
4B	6094	6/19/98	52° 10.05'	173° 04.32' W	46	6.7	3,161	100	0	0
4B	6095	6/19/98	52° 09.97'	173° 21.01' W	49	6.9	1,504	68	0	0
4B	6096	6/27/98	52° 10.00'	173° 53.86' W	48	6.8	566	109	0	0
4B	6097	6/12/98	52° 09.94'	174° 43.00' W	61	6.7	810	280	0	0
4B	6098	6/12/98	52° 09.98'	174° 58.95' W	66	6.7	1,170	294	0	0
4B	6099	6/12/98	52° 09.84'	175° 15.00' W	165	6.8	747	112	5	0
4B	6100	6/11/98	52° 09.93'	175° 55.61' W	208	6.8	1,177	57	95	10
4B	6101	6/07/98	52° 09.95'	178° 87.98' E	158	6.6	3,263	117	0	0
4B	6102	6/08/98	52° 09.96'	179° 42.02' W	163	6.7	1,582	0	0	10
4B	6103	6/07/98	52° 10.02'	179° 43.98' E	50	6.7	1,489	116	0	0
4B	6104	6/08/98	52° 09.86'	179° 58.00' W	55	6.7	1,023	10	0	0
4B	6105	6/27/98	52° 20.01'	173° 53.02' W	60	6.8	1,376	559	0	0
4B	6106	6/08/98	52° 19.98'	179° 40.99' W	167	6.7	406	0	0	5
4B	6107	6/09/98	52° 19.90'	179° 45.02' E	74	6.7	2,221	70	0	0
4B	6108	6/09/98	52° 20.14'	179° 57.00' W	71	6.7	73	0	0	0
4B	6109	6/13/98	52° 29.94'	173° 36.90' W	229	6.9	287	0	98	15
4B	6110	6/10/98	52° 29.98'	179° 41.08' W	58	6.6	29	0	0	0
4B	6111	6/09/98	52° 29.80'	179° 45.98' E	225	6.8	0	0	0	39
4B	6112	6/10/98	52° 39.93'	179° 24.98' W	90	6.7	967	28	0	5
4B	6113	6/05/98	51° 18.95'	178° 67.50' E	53	6.5	352	17	0	4
4B	6114	6/05/98	51° 28.80'	177° 96.45' E	158	6.3	573	36	4	47
4B	6115	6/05/98	51° 28.95'	178° 52.55' E	49	6.5	962	21	0	4

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\*\*Bycatch numbers extrapolated from 20-25% sample.

## 1998 Stock Assessment Survey Catch Data

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**	
			Latitude	Longitude			Legal	Sublegal	Sablefish	Rockfish
4B	6116	6/11/98	51° 39.60'	174° 99.95' E	89	6.2	220	6	0	4
4B	6117	Not Fished in 1998								
4B	6118	6/06/98	51° 39.25'	177° 82.25' E	79	6.7	1,204	130	0	0
4B	6119	6/11/98	51° 49.60'	174° 99.95' E	82	6.6	1,060	0	0	159
4B	6120	6/10/98	51° 51.00'	175° 55.83' E	60	6.4	319	8	0	0
4B	6121	6/08/98	51° 50.00'	176° 94.75' E	56	6.6	1,280	9	0	61
4B	6122	6/08/98	51° 49.90'	177° 50.45' E	58	6.3	1,048	30	0	12
4B	6123	6/06/98	51° 49.10'	177° 82.55' E	78	6.6	1,613	40	0	0
4B	6124	6/10/98	51° 59.00'	175° 55.32' E	96	6.4	1,665	9	14	50
4B	6125	6/09/98	52° 00.00'	176° 46.19' E	54	6.6	1,205	6	0	12
4B	6126	6/09/98	51° 59.90'	176° 74.80' E	55	6.3	185	0	0	4
4B	6127	6/07/98	51° 59.99'	177° 48.30' E	72	6.3	641	125	0	0
4B	6128	6/06/98	52° 00.85'	177° 80.95' E	64	6.7	86	0	0	0
4B	6129	Not Fished in 1998								
4B	6130	6/12/98	52° 09.90'	174° 68.45' E	99	6.6	1,116	63	0	0
4B	6131	6/12/98	52° 10.00'	174° 81.25' E	177	6.6	491	0	4	16
4B	6132	Not Fished in 1998								
4B	6133	Not Fished in 1998								
4B	6134	6/30/98	52° 20.95'	173° 62.00' E	72	6.5	424	23	0	0
4B	6135	6/29/98	52° 20.95'	173° 77.94' E	146	6.6	4,635	5	0	4
4B	6136	Station Deleted								
4B	6137	7/02/98	52° 30.00'	172° 57.65' E	109	6.5	1,573	32	0	5
4B	6138	7/02/98	52° 30.00'	172° 73.65' E	63	6.7	1,749	104	0	0
4B	6139	7/02/98	52° 30.00'	172° 87.10' E	88	6.5	1,173	6	0	0
4B	6140	6/30/98	52° 30.90'	173° 61.90' E	71	6.5	2,135	34	0	0
4B	6141	6/13/98	52° 30.55'	173° 78.98' E	65	6.4	1,653	44	0	0
4B	6142	6/13/98	52° 30.00'	173° 93.00' E	173	6.6	5,181	0	0	4
4B	6143	6/13/98	52° 30.00'	174° 52.50' E	123	6.4	796	46	0	4
4B	6144	Not Fished in 1998								
4B	6145	7/01/98	52° 40.05'	172° 73.40' E	50	6.6	2,066	54	0	0
4B	6146	7/01/98	52° 40.00'	172° 86.35' E	55	6.5	2,124	113	0	0
4B	6147	7/01/98	52° 39.95'	173° 43.31' E	55	6.4	2,901	35	0	0
4B	6148	6/30/98	52° 39.05'	173° 60.90' E	49	6.5	2,779	102	0	0
4B	6149	6/29/98	52° 38.85'	173° 78.00' E	28	6.6	4,128	260	0	0
4B	6150	Not Fished in 1998								
4B	6151	Not Fished in 1998								
4B	6152	Not Fished in 1998								
4B	6153	Not Fished in 1998								
4B	6154	Not Fished in 1998								
4B	6155	Not Fished in 1998								
4B	6156	Not Fished in 1998								
4B	6157	Not Fished in 1998								

\*Standard Skate = 1,800' groundline with 16/0 circle hooks spaced every 18' on 24"-42" gangions.

\*\*Bycatch numbers extrapolated from 20-25% sample.