

# 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**		
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish
2A	1001	7/24/99	42° 00.09'	124° 27.02' W	52	7.0	30	15	0	0	0
2A	1002	7/24/99	42° 10.03'	124° 27.05' W	53	7.0	15	0	0	0	0
2A	1003	7/24/99	42° 20.03'	124° 41.05' W	159	7.0	0	0	15	0	0
2A	1004	7/23/99	42° 30.01'	124° 40.99' W	65	7.0	501	56	0	0	0
2A	1005	7/23/99	42° 40.03'	124° 40.06' W	79	7.0	194	22	0	0	0
2A	1006	7/23/99	42° 50.09'	124° 40.03' W	45	7.0	0	0	0	0	0
2A	1007	7/22/99	42° 49.99'	124° 54.03' W	218	7.0	0	7	85	0	0
2A	1008	7/22/99	42° 59.95'	124° 40.05' W	71	7.0	131	0	0	0	0
2A	1009	7/22/99	42° 59.95'	124° 54.05' W	221	7.0	27	0	161	0	0
2A	1010	7/21/99	43° 09.93'	124° 40.06' W	81	7.0	1,183	21	5	0	20
2A	1011	7/21/99	43° 19.79'	124° 44.03' W	198	7.0	88	0	70	0	40
2A	1012	7/20/99	43° 29.91'	124° 26.01' W	62	7.0	0	0	0	0	0
2A	1013	7/21/99	43° 30.04'	124° 39.98' W	201	7.0	51	0	10	0	0
2A	1014	7/20/99	43° 39.95'	124° 26.03' W	67	7.0	47	38	5	0	0
2A	1015	7/20/99	43° 40.02'	124° 39.99' W	224	7.0	0	0	40	0	0
2A	1016	7/17/99	43° 50.02'	124° 26.02' W	67	7.0	22	11	10	0	0
2A	1017	7/18/99	43° 49.95'	124° 40.03' W	194	7.0	37	0	70	0	0
2A	1018	7/18/99	43° 59.94'	124° 25.98' W	68	7.0	11	0	0	0	0
2A	1019	7/17/99	43° 59.80'	124° 40.03' W	75	7.0	0	0	10	0	0
2A	1020	7/17/99	44° 00.01'	124° 53.99' W	55	7.0	1,131	64	0	0	65
2A	1021	7/15/99	44° 09.99'	124° 12.03' W	30	7.0	0	0	0	0	0
2A	1022	7/15/99	44° 10.02'	124° 26.00' W	55	7.0	0	0	0	0	0
2A	1023	7/16/99	44° 09.95'	124° 40.03' W	64	7.0	110	32	5	0	0
2A	1024	7/17/99	44° 09.99'	124° 54.02' W	71	7.0	2,196	52	40	0	120
2A	1025	7/15/99	44° 19.98'	124° 12.05' W	30	7.0	0	0	0	0	0
2A	1026	7/16/99	44° 19.85'	124° 25.98' W	49	7.0	1,052	26	0	0	0
2A	1027	7/16/99	44° 19.91'	124° 40.02' W	51	7.0	750	36	0	0	95
2A	1028	7/11/99	44° 29.92'	124° 12.00' W	31	7.0	17	0	0	0	0
2A	1029	7/10/99	44° 30.01'	124° 40.03' W	116	7.0	334	58	130	0	0
2A	1030	7/11/99	44° 39.94'	124° 11.06' W	34	7.0	0	0	0	0	0
2A	1031	7/11/99	44° 39.95'	124° 25.04' W	50	7.0	453	34	0	0	35
2A	1032	7/10/99	44° 39.88'	124° 40.07' W	159	7.0	493	9	80	0	0
2A	1033	7/10/99	44° 39.94'	124° 53.97' W	288	7.0	0	0	85	0	0
2A	1034	7/02/99	44° 49.87'	124° 11.00' W	45	7.0	0	0	0	0	0
2A	1035	7/01/99	44° 49.87'	124° 25.01' W	86	7.0	1,368	60	0	0	0
2A	1036	7/01/99	44° 49.99'	124° 39.00' W	171	7.0	256	0	25	0	5
2A	1037	7/02/99	44° 59.94'	124° 11.01' W	64	7.0	55	37	70	0	0
2A	1038	7/02/99	44° 59.94'	124° 25.05' W	156	7.0	1,095	9	110	0	0
2A	1039	7/01/99	44° 59.93'	124° 39.08' W	263	7.0	0	0	105	0	10
2A	1040	6/30/99	45° 09.93'	124° 11.07' W	75	7.0	25	0	20	0	0
2A	1041	6/30/99	45° 09.90'	124° 25.03' W	211	7.0	0	0	120	0	5
2A	1042	6/30/99	45° 19.91'	124° 10.95' W	75	7.0	70	7	0	0	0
2A	1043	6/29/99	45° 19.91'	124° 25.05' W	206	7.0	24	0	90	0	0
2A	1044	6/29/99	45° 20.02'	124° 39.11' W	262	7.0	0	0	171	0	5
2A	1045	6/28/99	45° 29.94'	124° 11.00' W	71	7.0	0	9	0	0	0
2A	1046	6/28/99	45° 29.89'	124° 25.01' W	116	7.0	206	18	65	0	0
2A	1047	6/29/99	45° 29.97'	124° 39.00' W	268	7.0	0	0	100	0	0
2A	1048	6/28/99	45° 40.06'	124° 09.97' W	59	7.0	15	7	0	0	0
2A	1049	6/26/99	45° 39.97'	124° 24.98' W	95	7.0	61	0	5	0	15

\*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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Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**		
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish
2A	1050	6/26/99	45° 39.84'	124° 39.03' W	189	7.0	64	0	141	0	0
2A	1051	6/26/99	45° 50.07'	124° 09.99' W	56	7.0	85	36	0	0	0
2A	1052	6/26/99	45° 50.01'	124° 24.98' W	86	7.0	0	0	10	0	0
2A	1053	6/27/99	45° 49.89'	124° 39.06' W	115	7.0	201	18	90	0	0
2A	1054	6/26/99	46° 00.05'	124° 10.03' W	48	7.0	96	21	0	0	0
2A	1055	6/11/99	45° 59.77'	124° 24.04' W	77	6.9	45	0	0	0	0
2A	1056	6/11/99	46° 00.05'	124° 39.00' W	105	7.0	46	17	60	0	0
2A	1057	6/11/99	46° 10.05'	124° 38.95' W	136	7.0	211	0	99	0	5
2A	1058	6/12/99	46° 19.86'	124° 23.88' W	67	7.0	0	0	5	0	0
2A	1059	6/12/99	46° 29.48'	124° 24.10' W	53	7.0	92	38	0	0	0
2A	1060	6/12/99	46° 39.97'	124° 24.06' W	46	7.0	76	47	0	0	0
2A	1061	6/13/99	46° 39.91'	124° 38.00' W	76	7.0	483	122	10	0	5
2A	1062	6/15/99	46° 50.22'	124° 24.08' W	38	7.0	0	6	0	0	0
2A	1063	6/13/99	46° 49.98'	124° 38.00' W	67	7.0	40	0	0	0	0
2A	1064	6/14/99	46° 50.08'	124° 53.15' W	117	7.0	327	59	186	0	0
2A	1065	6/15/99	47° 00.17'	124° 24.08' W	29	7.0	0	0	0	0	0
2A	1066	6/13/99	46° 59.95'	124° 38.00' W	53	7.0	41	8	5	0	0
2A	1067	6/14/99	46° 59.95'	124° 52.97' W	92	7.0	111	0	0	0	0
2A	1068	6/15/99	47° 10.07'	124° 24.52' W	25	7.0	0	0	0	0	0
2A	1069	6/18/99	47° 09.79'	124° 37.94' W	50	7.0	0	0	5	0	0
2A	1070	6/14/99	47° 09.97'	124° 53.00' W	84	7.0	56	9	0	0	0
2A	1071	6/18/99	47° 19.87'	124° 37.93' W	49	7.0	0	0	0	0	0
2A	1072	6/18/99	47° 29.93'	124° 53.02' W	104	7.0	914	70	65	0	10
2A	1073	6/19/99	47° 39.60'	124° 37.89' W	28	7.0	183	0	0	0	0
2A	1074	6/19/99	47° 40.28'	124° 53.02' W	63	7.0	0	10	0	0	0
2A	1075	6/19/99	47° 49.86'	124° 53.00' W	53	7.0	94	68	0	0	0
2A	1076	6/20/99	47° 49.97'	125° 07.88' W	146	7.0	118	0	40	0	5
2A	1077	6/20/99	48° 00.22'	124° 53.11' W	38	7.0	75	62	0	0	0
2A	1078	6/20/99	48° 00.05'	125° 08.04' W	80	7.0	297	25	0	0	0
2A	1079	6/22/99	47° 59.98'	125° 38.07' W	175	7.0	317	38	75	0	90
2A	1080	6/21/99	48° 09.96'	124° 53.00' W	34	7.0	273	44	0	0	0
2A	1081	6/21/99	48° 10.06'	125° 07.97' W	117	7.0	2,673	118	12	0	6
2A	1082	6/22/99	48° 10.00'	125° 22.99' W	62	7.0	113	36	0	0	0
2A	1083	6/22/99	48° 10.00'	125° 38.02' W	95	7.0	2,464	250	226	0	0
2A	1084	6/21/99	48° 19.85'	125° 23.07' W	81	7.0	242	0	10	0	10

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

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			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish	
2B	2001	6/04/99	48° 19.89'	125° 37.63' W	77	6.7	0	0	62	0	0	
2B	2002	6/04/99	48° 20.02'	125° 52.95' W	209	6.7	1,205	9	133	0	33	
2B	2003	6/05/99	48° 29.33'	125° 23.08' W	84	6.7	41	8	0	0	0	
2B	2004	6/04/99	48° 30.34'	125° 37.72' W	56	6.6	28	8	0	0	0	
2B	2005	6/07/99	48° 29.46'	125° 53.38' W	62	6.7	63	11	0	0	17	
2B	2006	6/07/99	48° 29.18'	126° 07.98' W	110	6.7	1,213	27	54	0	0	
2B	2007	6/05/99	48° 40.13'	125° 07.20' W	33	6.7	835	16	0	0	17	
2B	2008	6/05/99	48° 39.30'	125° 23.14' W	43	6.7	289	43	0	0	12	
2B	2009	6/06/99	48° 40.49'	125° 37.70' W	71	6.7	581	50	0	0	0	
2B	2010	6/06/99	48° 40.17'	125° 52.56' W	39	6.7	526	156	0	0	0	
2B	2011	6/07/99	48° 40.10'	126° 07.94' W	79	6.7	54	23	0	0	0	
2B	2012	6/06/99	48° 49.78'	125° 36.12' W	26	6.6	1,178	20	0	0	16	
2B	2013	6/10/99	48° 50.15'	125° 52.99' W	31	6.7	943	29	0	0	37	
2B	2014	6/10/99	48° 49.53'	126° 07.75' W	53	6.6	24	22	0	0	0	
2B	2015	Unsuccessful Station										
2B	2016	6/10/99	48° 59.93'	126° 08.04' W	39	6.7	953	324	4	0	0	
2B	2017	6/08/99	49° 00.14'	126° 22.86' W	75	6.6	146	97	21	0	0	
2B	2018	6/08/99	48° 59.89'	126° 37.95' W	151	6.6	624	109	103	0	8	
2B	2019	6/09/99	49° 10.13'	126° 23.04' W	47	6.7	70	140	0	0	0	
2B	2020	6/09/99	49° 09.94'	126° 37.64' W	67	6.7	45	0	4	0	0	
2B	2021	6/15/99	49° 09.96'	126° 53.20' W	98	6.7	315	47	21	0	8	
2B	2022	Station Deleted - Outside Standard Depth Range										
2B	2023	6/09/99	49° 20.05'	126° 23.02' W	23	6.7	149	103	0	0	0	
2B	2024	6/14/99	49° 19.48'	126° 37.54' W	28	5.6	205	0	0	0	37	
2B	2025	6/14/99	49° 19.52'	126° 50.97' W	69	6.7	137	101	0	0	0	
2B	2026	6/15/99	49° 19.91'	127° 08.93' W	101	6.7	541	22	92	0	21	
2B	2027	6/13/99	49° 30.19'	126° 37.99' W	24	6.7	102	36	0	0	0	
2B	2028	6/14/99	49° 29.77'	126° 53.02' W	47	6.7	186	157	0	0	30	
2B	2029	6/16/99	49° 29.92'	127° 09.16' W	81	6.4	192	76	48	0	0	
2B	2030	6/16/99	49° 39.89'	127° 09.06' W	63	6.6	46	150	0	0	0	
2B	2031	6/16/99	49° 39.98'	127° 23.73' W	143	6.7	1,634	58	75	0	38	
2B	2032	6/17/99	49° 49.88'	127° 24.09' W	45	6.7	321	135	0	0	4	
2B	2033	6/17/99	49° 50.02'	127° 39.95' W	93	6.7	277	55	4	0	8	
2B	2034	6/17/99	50° 00.11'	127° 39.93' W	46	6.7	436	575	0	0	17	
2B	2035	6/18/99	50° 19.93'	128° 11.12' W	87	6.6	424	68	37	0	58	
2B	2036	Station Deleted - Outside Standard Depth Range										
2B	2037	6/18/99	50° 29.84'	128° 26.94' W	103	6.6	106	26	62	0	74	
2B	2038	6/19/99	50° 40.03'	128° 28.55' W	51	6.7	122	116	0	0	17	
2B	2039	6/19/99	50° 39.94'	128° 44.09' W	106	6.7	115	18	33	0	50	
2B	2040	6/19/99	50° 49.97'	128° 28.11' W	36	6.7	587	58	0	0	8	
2B	2041	6/20/99	50° 59.89'	127° 57.00' W	43	6.6	1,091	280	0	0	0	
2B	2042	6/20/99	51° 00.08'	128° 12.91' W	59	6.7	81	123	4	0	4	
2B	2043	7/01/99	51° 09.96'	127° 56.18' W	68	6.7	42	55	0	0	0	
2B	2044	8/02/99	50° 49.96'	128° 59.91' W	50	6.6	874	168	0	0	49	
2B	2045	8/03/99	50° 49.94'	129° 16.12' W	66	6.7	928	265	0	0	46	
2B	2046	8/11/99	51° 00.03'	128° 28.12' W	51	6.7	146	152	0	0	4	
2B	2047	8/02/99	50° 59.92'	128° 44.06' W	38	6.7	550	76	0	0	8	
2B	2048	8/02/99	50° 59.92'	128° 59.86' W	45	6.7	135	13	0	0	0	
2B	2049	8/03/99	50° 59.91'	129° 15.75' W	88	6.7	29	0	54	0	29	

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			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish
2B	2050	8/03/99	50° 59.97'	129° 31.96' W	132	6.7	1,076	71	67	0	139
2B	2051	6/20/99	51° 10.08'	128° 11.80' W	56	6.7	339	111	0	0	0
2B	2052	8/11/99	51° 10.03'	128° 28.05' W	106	6.7	75	9	4	0	37
2B	2053	8/10/99	51° 10.03'	128° 44.46' W	54	6.7	101	354	0	0	0
2B	2054	8/08/99	51° 10.00'	129° 00.03' W	73	6.7	273	257	4	0	0
2B	2055	8/08/99	51° 09.95'	129° 15.95' W	138	6.7	411	0	75	0	21
2B	2056	8/07/99	51° 09.95'	129° 32.11' W	156	6.6	335	25	91	0	0
2B	2057	7/01/99	51° 19.99'	127° 54.86' W	69	6.7	835	128	0	0	8
2B	2058	7/01/99	51° 20.17'	128° 11.62' W	49	6.7	183	475	0	0	0
2B	2059	6/30/99	51° 19.89'	128° 26.65' W	80	6.7	120	65	12	0	0
2B	2060	8/10/99	51° 19.98'	128° 43.22' W	112	6.7	129	0	37	0	8
2B	2061	8/08/99	51° 19.77'	128° 58.62' W	134	6.7	544	63	148	0	46
2B	2062	8/07/99	51° 19.91'	129° 14.88' W	130	6.7	336	237	79	0	12
2B	2063	8/07/99	51° 19.98'	129° 31.02' W	112	6.7	102	22	67	0	8
2B	2064	8/06/99	51° 20.02'	129° 46.89' W	133	6.7	370	27	112	0	21
2B	2065	6/30/99	51° 30.11'	128° 11.55' W	48	6.5	630	113	4	0	115
2B	2066	6/30/99	51° 29.92'	128° 27.04' W	103	6.7	183	9	12	0	25
2B	2067	6/24/99	51° 29.95'	128° 43.08' W	48	6.7	149	89	4	0	0
2B	2068	6/24/99	51° 29.93'	128° 59.04' W	25	6.7	373	102	0	0	0
2B	2069	6/25/99	51° 30.07'	129° 15.02' W	27	6.7	85	8	0	0	4
2B	2070	8/06/99	51° 29.93'	129° 30.96' W	58	6.7	2,374	431	0	0	67
2B	2071	8/06/99	51° 29.90'	129° 46.94' W	94	6.7	644	96	25	0	150
2B	2072	8/05/99	51° 30.02'	130° 03.29' W	167	5.8	1,481	41	142	0	67
2B	2073	6/29/99	51° 40.05'	128° 25.95' W	78	6.7	120	46	0	0	42
2B	2074	6/24/99	51° 40.16'	128° 58.83' W	31	6.7	140	49	0	0	0
2B	2075	6/25/99	51° 40.05'	129° 14.95' W	31	6.6	178	72	0	0	0
2B	2076	6/25/99	51° 39.97'	129° 30.92' W	52	6.7	383	303	0	0	0
2B	2077	8/05/99	51° 39.95'	129° 47.06' W	135	6.7	316	56	142	0	12
2B	2078	6/29/99	51° 49.83'	128° 25.96' W	92	6.7	381	79	4	0	54
2B	2079	6/29/99	51° 50.04'	128° 42.09' W	57	6.7	601	865	0	0	0
2B	2080	6/27/99	51° 49.94'	128° 58.10' W	46	6.7	1,587	708	0	0	17
2B	2081	6/26/99	51° 49.91'	129° 13.94' W	67	6.7	462	189	0	0	0
2B	2082	6/26/99	51° 49.95'	129° 31.11' W	140	6.7	183	19	104	0	42
2B	2083	6/27/99	51° 59.85'	128° 41.92' W	89	6.7	422	68	8	0	92
2B	2084	6/27/99	51° 59.94'	128° 58.16' W	72	6.7	2,293	844	0	0	4
2B	2085	6/26/99	51° 59.95'	129° 14.06' W	98	6.7	312	32	8	0	4
2B	2086	7/11/99	52° 10.02'	128° 41.45' W	118	6.7	657	19	8	0	92
2B	2087	8/05/99	51° 39.91'	130° 02.80' W	195	6.7	23	0	146	0	58
2B	2088	8/04/99	51° 39.92'	130° 18.91' W	142	6.7	2,796	34	92	0	50
2B	2089	7/13/99	51° 49.88'	129° 46.95' W	142	6.6	91	26	88	0	21
2B	2090	7/13/99	51° 49.98'	130° 03.18' W	99	6.7	3,057	160	58	4	92
2B	2091	8/04/99	51° 50.00'	130° 19.27' W	117	6.7	2,464	174	12	0	129
2B	2092	8/04/99	51° 49.91'	130° 34.39' W	157	6.7	1,412	98	8	4	42
2B	2093	7/24/99	51° 49.98'	130° 52.62' W	90	6.7	2,289	98	8	0	225
2B	2094	7/12/99	52° 00.02'	129° 30.19' W	113	6.7	274	239	79	0	121
2B	2095	7/15/99	51° 59.86'	129° 46.99' W	64	6.7	1,385	324	0	0	54
2B	2096	7/13/99	51° 59.98'	130° 03.18' W	76	6.7	1,030	422	5	0	5
2B	2097	7/25/99	51° 59.89'	130° 18.64' W	188	6.7	0	46	72	0	21
2B	2098	7/24/99	51° 59.99'	130° 34.72' W	145	6.7	1,427	52	104	0	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.

2/17/00

# 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**			
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish	
2B	2099	7/24/99	51° 59.98'	130° 51.61' W	103	6.7	1,378	472	8	0	12	
2B	2100	7/11/99	52° 09.95'	128° 57.14' W	89	6.6	319	51	0	0	210	
2B	2101	7/12/99	52° 09.99'	129° 13.78' W	95	6.7	11	44	8	0	25	
2B	2102	7/12/99	52° 09.98'	129° 30.11' W	116	6.7	55	9	42	0	51	
2B	2103	7/15/99	52° 09.82'	129° 46.00' W	115	6.7	145	35	29	0	146	
2B	2104	7/15/99	52° 09.89'	130° 02.91' W	97	6.7	776	510	8	0	8	
2B	2105	7/25/99	52° 09.86'	130° 19.02' W	216	6.6	47	0	107	0	33	
2B	2106	7/25/99	52° 09.96'	130° 34.91' W	106	6.7	685	57	63	0	13	
2B	2107	7/23/99	52° 09.89'	130° 51.90' W	122	6.7	244	61	62	0	17	
2B	2108	7/11/99	52° 19.95'	129° 13.04' W	71	6.6	806	335	0	0	136	
2B	2109	7/16/99	52° 19.87'	129° 29.92' W	96	6.6	464	26	4	0	70	
2B	2110	7/16/99	52° 19.90'	129° 46.05' W	115	6.7	820	199	4	0	181	
2B	2111	7/29/99	52° 19.98'	130° 02.97' W	127	6.7	821	76	0	0	34	
2B	2112	7/29/99	52° 19.95'	130° 18.98' W	189	6.6	68	0	140	0	49	
2B	2113	7/23/99	52° 19.94'	130° 35.28' W	90	6.7	199	27	21	0	117	
2B	2114	7/23/99	52° 19.97'	130° 52.05' W	80	6.7	330	173	42	0	0	
2B	2115	7/16/99	52° 30.12'	129° 30.47' W	37	6.6	1,065	89	0	0	58	
2B	2116	7/17/99	52° 29.90'	129° 45.92' W	99	6.6	1,341	136	83	0	42	
2B	2117	7/17/99	52° 29.95'	130° 01.92' W	148	6.7	492	21	33	0	29	
2B	2118	7/29/99	52° 30.11'	130° 19.19' W	140	6.7	482	21	75	0	33	
2B	2119	7/26/99	52° 30.02'	130° 35.72' W	61	6.7	1,280	132	0	0	58	
2B	2120	Unsuccessful Station										
2B	2121	7/17/99	52° 39.91'	129° 46.20' W	106	6.7	179	74	51	0	55	
2B	2122	7/28/99	52° 39.75'	130° 02.04' W	145	6.7	122	14	67	0	84	
2B	2123	7/28/99	52° 39.95'	130° 18.77' W	118	6.7	456	7	34	4	75	
2B	2124	7/26/99	52° 39.89'	130° 35.18' W	79	6.7	1,598	75	17	8	42	
2B	2125	7/27/99	52° 50.01'	130° 01.92' W	142	6.7	54	0	87	0	67	
2B	2126	7/28/99	52° 50.05'	130° 19.05' W	112	6.7	36	0	33	0	33	
2B	2127	7/27/99	52° 59.97'	129° 44.96' W	115	6.7	192	20	101	0	29	
2B	2128	7/27/99	52° 59.95'	130° 01.77' W	101	6.7	370	43	21	0	71	
2B	2129	6/30/99	52° 30.02'	131° 07.87' W	47	6.5	466	144	0	0	20	
2B	2130	6/30/99	52° 30.02'	131° 25.04' W	68	6.6	1,415	11	0	0	25	
2B	2131	7/01/99	52° 39.95'	130° 52.03' W	53	6.6	535	146	0	0	0	
2B	2132	6/30/99	52° 39.99'	131° 08.14' W	48	6.4	861	244	0	0	0	
2B	2133	7/01/99	52° 50.00'	130° 35.16' W	62	6.5	283	95	4	4	0	
2B	2134	7/01/99	52° 49.99'	130° 52.03' W	29	6.3	896	184	0	0	0	
2B	2135	7/02/99	53° 00.01'	130° 17.87' W	116	6.5	197	0	89	0	61	
2B	2136	7/02/99	53° 01.11'	130° 35.16' W	50	6.6	786	618	0	0	0	
2B	2137	7/02/99	53° 10.01'	130° 18.18' W	85	6.7	209	10	8	0	4	
2B	2138	7/04/99	53° 10.00'	130° 34.97' W	105	6.6	14	19	33	0	25	
2B	2139	7/04/99	53° 10.02'	130° 51.98' W	64	6.7	589	115	0	4	0	
2B	2140	7/03/99	53° 19.98'	130° 17.91' W	61	6.5	270	60	0	4	0	
2B	2141	7/03/99	53° 20.01'	130° 35.02' W	59	6.6	201	107	4	0	8	
2B	2142	7/05/99	53° 20.00'	130° 52.11' W	77	6.7	169	53	12	0	4	
2B	2143	7/20/99	53° 20.00'	132° 48.95' W	77	6.5	1,912	358	0	0	41	
2B	2144	7/20/99	53° 20.00'	133° 06.06' W	179	6.6	1,167	33	54	0	58	
2B	2145	7/05/99	53° 30.00'	130° 51.98' W	53	6.7	241	197	4	0	0	
2B	2146	7/20/99	53° 30.02'	133° 06.06' W	239	6.7	158	0	129	0	179	
2B	2147	7/06/99	53° 40.02'	130° 34.94' W	49	6.5	300	89	0	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.

## 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**		
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish
2B	2148	7/05/99	53° 40.00'	130° 52.14' W	26	6.5	627	40	0	0	4
2B	2149	7/21/99	53° 40.01'	133° 06.98' W	75	6.6	2,194	216	0	0	107
2B	2150	7/06/99	53° 50.00'	130° 51.97' W	49	6.7	889	346	0	0	0
2B	2151	7/21/99	53° 59.99'	133° 25.12' W	45	6.6	2,391	227	0	0	70
2B	2152	7/14/99	54° 10.01'	130° 35.19' W	64	6.6	128	9	0	0	0
2B	2153	7/22/99	54° 10.01'	131° 59.81' W	40	6.6	61	890	0	0	0
2B	2154	7/19/99	54° 09.98'	132° 16.91' W	52	6.6	63	864	0	0	0
2B	2155	7/10/99	54° 10.00'	132° 33.88' W	47	6.7	135	352	0	0	0
2B	2156	7/11/99	54° 10.01'	133° 09.16' W	27	5.8	581	203	0	0	51
2B	2157	7/11/99	54° 10.00'	133° 25.90' W	215	6.5	573	36	41	0	81
2B	2158	7/14/99	54° 19.98'	130° 35.04' W	56	6.6	431	88	4	0	4
2B	2159	7/18/99	54° 20.03'	131° 08.88' W	41	6.6	183	395	0	0	0
2B	2160	7/23/99	54° 20.01'	131° 25.84' W	96	6.5	140	29	33	0	33
2B	2161	7/22/99	54° 19.98'	131° 42.84' W	104	6.7	297	140	46	0	29
2B	2162	7/22/99	54° 19.99'	132° 01.00' W	137	6.5	581	27	195	0	12
2B	2163	7/19/99	54° 19.99'	132° 17.82' W	119	6.6	551	78	4	4	8
2B	2164	7/10/99	54° 19.99'	132° 34.81' W	144	6.6	459	64	82	4	45
2B	2165	7/09/99	54° 19.99'	132° 52.01' W	217	6.6	796	58	107	0	37
2B	2166	7/09/99	54° 19.97'	133° 08.84' W	254	6.6	621	34	189	0	33
2B	2167	7/12/99	54° 20.01'	133° 26.07' W	128	6.6	1,348	151	25	0	41
2B	2168	7/12/99	54° 20.00'	133° 42.99' W	135	6.6	3,077	369	25	0	0
2B	2169	7/13/99	54° 30.01'	130° 35.02' W	66	6.5	482	39	28	0	4
2B	2170	7/13/99	54° 30.02'	131° 09.15' W	75	6.6	741	194	25	4	4
2B	2171	7/18/99	54° 30.02'	131° 26.34' W	68	6.6	894	117	21	0	16
2B	2172	7/23/99	54° 29.98'	131° 43.84' W	185	6.7	20	0	58	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.

## 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**		
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish
2C	3001	7/24/99	54° 29.88'	132° 01.06' W	151	7.0	1,326	9	171	0	35
2C	3002	7/24/99	54° 29.93'	132° 17.99' W	193	7.1	607	0	221	0	36
2C	3003	7/25/99	54° 29.97'	132° 34.98' W	191	7.0	327	29	206	0	30
2C	3004	7/06/99	54° 29.89'	132° 51.82' W	204	7.0	415	34	166	0	45
2C	3005	7/07/99	54° 29.85'	133° 10.04' W	97	7.0	2,419	153	10	0	126
2C	3006	7/27/99	54° 29.77'	133° 27.26' W	159	7.0	801	19	55	0	10
2C	3007	7/26/99	54° 29.69'	133° 44.52' W	135	7.1	3,381	39	51	0	10
2C	3008	6/29/99	54° 40.23'	130° 50.14' W	160	7.0	626	15	141	0	5
2C	3009	6/29/99	54° 39.99'	131° 07.93' W	118	7.0	103	19	65	0	20
2C	3010	6/30/99	54° 40.16'	131° 24.77' W	113	7.0	381	0	110	0	15
2C	3011	6/30/99	54° 40.34'	131° 41.91' W	219	7.1	454	0	51	0	0
2C	3012	7/01/99	54° 40.02'	131° 58.98' W	93	7.0	3,372	190	0	0	95
2C	3013	7/25/99	54° 39.97'	132° 16.79' W	59	7.0	1,903	133	0	5	30
2C	3014	7/10/99	54° 39.95'	132° 33.66' W	104	7.0	682	25	40	15	75
2C	3015	7/07/99	54° 39.98'	132° 50.84' W	71	7.0	2,603	137	0	15	60
2C	3016	7/08/99	54° 40.35'	133° 09.07' W	125	7.0	3,172	80	20	5	80
2C	3017	7/08/99	54° 40.34'	133° 25.89' W	156	7.0	2,191	37	145	5	35
2C	3018	6/22/99	54° 40.01'	133° 42.50' W	130	6.9	7,842	147	0	0	5
2C	3019	6/22/99	54° 40.08'	133° 59.83' W	121	7.0	3,164	180	20	0	5
2C	3020	6/28/99	54° 49.82'	131° 06.93' W	121	7.0	584	17	95	0	0
2C	3021	7/01/99	54° 49.91'	131° 42.15' W	234	7.0	226	7	119	0	30
2C	3022	7/09/99	54° 50.43'	132° 33.42' W	139	7.0	1,164	10	90	15	15
2C	3023	6/21/99	54° 49.97'	133° 09.11' W	104	7.0	1,017	8	10	5	55
2C	3024	6/20/99	54° 49.80'	133° 26.12' W	69	7.0	990	363	15	0	0
2C	3025	6/19/99	54° 49.91'	133° 42.95' W	77	7.0	3,461	1393	0	0	5
2C	3026	6/19/99	54° 50.07'	134° 00.73' W	104	7.0	2,597	29	0	0	40
2C	3027	6/27/99	54° 59.73'	131° 06.12' W	123	7.0	1,176	72	50	0	0
2C	3028	7/02/99	55° 00.01'	131° 41.02' W	107	7.1	498	86	61	0	61
2C	3029	6/18/99	55° 00.08'	133° 26.16' W	43	7.0	827	48	0	0	102
2C	3030	6/18/99	55° 00.02'	133° 43.08' W	57	7.0	1,518	286	0	0	0
2C	3031	6/27/99	55° 09.27'	131° 06.74' W	82	7.0	476	0	10	0	5
2C	3032	7/11/99	55° 10.07'	131° 40.64' W	58	7.1	815	59	5	0	10
2C	3033	7/11/99	55° 10.11'	131° 56.02' W	164	7.0	1,526	42	90	0	35
2C	3034	6/18/99	55° 09.92'	133° 26.12' W	38	7.0	1,220	11	0	0	45
2C	3035	7/20/99	55° 19.98'	131° 58.06' W	218	7.0	23	0	85	0	0
2C	3036	7/20/99	55° 29.01'	131° 57.97' W	152	7.1	747	14	51	0	20
2C	3037	7/18/99	55° 39.85'	132° 15.07' W	219	7.1	713	0	96	0	25
2C	3038	7/18/99	55° 44.83'	132° 26.79' W	167	7.1	795	21	50	5	65
2C	3039	7/19/99	55° 49.91'	132° 15.06' W	104	7.1	995	24	15	5	30
2C	3040	7/17/99	55° 59.91'	132° 31.89' W	114	7.1	544	25	5	0	15
2C	3041	7/17/99	56° 00.73'	132° 45.06' W	195	7.0	395	0	75	0	10
2C	3042	7/17/99	56° 10.98'	132° 50.11' W	85	7.0	1,483	35	0	0	11
2C	3043	6/18/99	54° 59.98'	134° 00.99' W	83	7.0	2,754	321	0	0	110
2C	3044	6/17/99	55° 00.11'	134° 18.01' W	117	7.0	1,319	137	30	20	0
2C	3045	6/19/99	55° 10.01'	133° 42.97' W	88	7.0	1,136	353	0	0	0
2C	3046	6/18/99	55° 10.03'	134° 01.02' W	94	7.0	1,889	269	0	0	10
2C	3047	6/15/99	55° 19.86'	133° 44.00' W	42	7.0	1,241	443	0	0	25
2C	3048	6/14/99	55° 20.18'	134° 01.00' W	63	7.0	1,693	1289	0	0	0
2C	3049	6/16/99	55° 20.04'	134° 19.02' W	101	7.0	2,123	250	0	0	100

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

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

2/17/00

## 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**		
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish
2C	3050	6/16/99	55° 20.02'	134° 36.00' W	111	7.0	1,800	309	30	0	30
2C	3051	6/13/99	55° 29.73'	134° 00.98' W	50	7.0	942	262	0	0	35
2C	3052	6/14/99	55° 29.97'	134° 19.00' W	92	7.0	2,138	725	10	15	0
2C	3053	6/26/99	55° 30.02'	134° 36.97' W	124	7.0	2,208	172	30	0	0
2C	3054	6/27/99	55° 30.22'	134° 53.98' W	157	7.0	1,536	160	50	0	5
2C	3055	6/13/99	55° 40.11'	134° 00.98' W	108	7.0	1,188	207	0	0	25
2C	3056	6/26/99	55° 40.06'	134° 19.00' W	109	7.0	1,473	188	15	0	0
2C	3057	6/26/99	55° 40.16'	134° 37.00' W	111	7.0	3,521	283	0	0	0
2C	3058	6/28/99	55° 40.00'	134° 55.00' W	110	7.0	2,276	148	55	0	45
2C	3059	6/30/99	55° 49.97'	133° 26.01' W	40	7.0	145	0	0	0	0
2C	3060	6/30/99	55° 50.09'	133° 43.98' W	70	6.6	905	0	5	0	85
2C	3061	6/25/99	55° 50.00'	134° 02.02' W	152	7.0	1,314	27	15	0	15
2C	3062	6/29/99	55° 50.03'	134° 37.03' W	78	7.0	1,503	76	5	0	15
2C	3063	7/12/99	55° 50.03'	134° 55.01' W	101	7.0	4,408	161	0	15	0
2C	3064	7/12/99	55° 50.17'	135° 12.98' W	161	7.0	4,981	158	10	15	20
2C	3065	6/30/99	55° 55.12'	133° 34.98' W	38	7.0	836	45	0	0	65
2C	3066	6/25/99	56° 00.04'	134° 02.00' W	40	7.0	992	179	0	0	15
2C	3067	7/23/99	56° 00.02'	134° 20.00' W	40	7.0	3,352	112	0	0	45
2C	3068	7/08/99	56° 00.08'	134° 38.00' W	198	7.0	1,501	9	70	0	35
2C	3069	7/10/99	55° 59.97'	134° 55.00' W	196	7.0	943	16	156	0	40
2C	3070	7/11/99	56° 00.05'	135° 13.00' W	185	7.0	969	9	75	0	10
2C	3071	6/24/99	56° 09.89'	133° 44.00' W	170	7.0	558	16	10	5	0
2C	3072	7/23/99	56° 09.93'	134° 19.96' W	73	7.0	3,331	335	0	15	40
2C	3073	7/08/99	56° 09.91'	134° 37.99' W	144	7.0	1,117	87	45	25	35
2C	3074	7/08/99	56° 09.99'	134° 56.00' W	108	7.0	3,082	271	60	5	5
2C	3075	7/11/99	56° 09.99'	135° 14.02' W	153	7.0	1,584	17	70	15	0
2C	3076	6/24/99	56° 19.85'	133° 44.00' W	101	7.0	524	10	10	10	15
2C	3077	7/24/99	56° 20.00'	134° 20.00' W	99	7.0	1,013	138	5	25	25
2C	3078	7/14/99	56° 20.07'	134° 53.52' W	63	7.0	1,216	71	0	0	31
2C	3079	7/13/99	56° 20.05'	135° 14.02' W	86	7.0	2,458	221	0	5	25
2C	3080	7/13/99	56° 19.95'	135° 32.02' W	109	7.0	1,866	60	50	0	0
2C	3081	6/24/99	56° 29.02'	133° 43.98' W	55	7.0	585	9	0	0	0
2C	3082	7/24/99	56° 30.08'	134° 20.19' W	62	7.0	1,633	148	0	35	0
2C	3083	6/21/99	56° 29.98'	135° 15.32' W	58	6.8	387	273	0	0	25
2C	3084	6/21/99	56° 30.02'	135° 32.98' W	88	6.7	731	78	0	0	137
2C	3085	6/21/99	56° 39.53'	135° 14.95' W	24	6.8	1,240	15	0	0	43
2C	3086	6/20/99	56° 40.03'	135° 33.80' W	72	6.7	1,712	392	0	0	38
2C	3087	6/20/99	56° 39.97'	135° 52.43' W	129	6.9	2,163	126	95	4	13
2C	3088	6/02/99	56° 50.01'	132° 50.09' W	113	6.8	622	11	9	0	9
2C	3089	6/19/99	56° 50.05'	135° 52.24' W	102	6.8	2,599	182	26	4	21
2C	3090	6/02/99	56° 56.94'	132° 58.11' W	73	6.8	436	116	13	4	0
2C	3091	6/05/99	56° 59.97'	134° 21.05' W	184	6.8	1,069	88	124	0	9
2C	3092	6/18/99	56° 59.98'	135° 59.97' W	54	6.8	467	399	0	0	158
2C	3093	6/02/99	57° 02.99'	133° 05.08' W	77	6.7	371	78	0	0	0
2C	3094	6/03/99	57° 10.02'	133° 45.00' W	178	6.8	1,468	359	13	0	30
2C	3095	6/05/99	57° 10.02'	134° 02.96' W	151	6.8	1,775	242	26	9	0
2C	3096	6/06/99	57° 09.91'	134° 39.69' W	134	6.8	695	20	9	21	30
2C	3097	6/18/99	57° 10.02'	135° 54.22' W	38	6.8	325	339	0	0	55
2C	3098	6/18/99	57° 09.95'	136° 12.02' W	121	6.8	1,969	202	102	0	21

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

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



## 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**		
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish
2C	3099	6/03/99	57° 20.02'	133° 28.20' W	81	6.7	348	29	0	4	0
2C	3100	6/03/99	57° 20.02'	133° 45.41' W	192	6.9	1,120	120	9	13	4
2C	3101	6/06/99	57° 20.18'	134° 35.82' W	108	6.7	587	19	0	30	64
2C	3102	6/17/99	57° 20.04'	135° 55.01' W	64	6.7	671	64	13	0	17
2C	3103	6/17/99	57° 20.04'	136° 13.11' W	96	6.7	1,914	147	13	8	38
2C	3104	6/04/99	57° 29.99'	133° 45.12' W	129	6.7	1,434	75	0	4	8
2C	3105	6/06/99	57° 29.98'	134° 41.01' W	293	6.8	211	0	166	0	9
2C	3106	6/14/99	57° 30.07'	136° 13.86' W	49	6.7	1,524	582	0	0	21
2C	3107	6/04/99	57° 40.20'	133° 44.95' W	182	6.8	848	52	13	0	0
2C	3108	6/14/99	57° 39.97'	136° 33.08' W	88	6.7	658	245	4	4	12
2C	3109	6/07/99	57° 50.00'	133° 53.73' W	182	6.8	849	53	9	0	4
2C	3110	6/13/99	57° 49.97'	136° 34.03' W	50	6.7	2,397	841	0	0	21
2C	3111	6/13/99	57° 50.02'	136° 52.72' W	172	6.8	716	38	132	4	13
2C	3112	6/07/99	58° 00.07'	134° 04.12' W	122	6.8	568	9	0	0	0
2C	3113	7/06/99	58° 00.00'	136° 39.97' W	69	6.8	3,299	438	0	4	54
2C	3114	6/11/99	58° 10.04'	135° 00.31' W	203	6.8	586	96	34	4	9
2C	3115	6/11/99	58° 10.02'	135° 19.83' W	95	6.7	89	81	0	0	13
2C	3116	7/06/99	58° 10.00'	136° 35.94' W	109	6.9	2,513	30	60	13	39
2C	3117	6/09/99	58° 12.04'	134° 24.42' W	38	6.8	83	0	0	0	0
2C	3118	6/09/99	58° 14.05'	134° 40.91' W	39	6.7	0	7	0	4	0
2C	3119	6/12/99	58° 15.02'	135° 40.06' W	57	6.9	321	123	0	4	0
2C	3120	7/06/99	58° 15.22'	136° 25.30' W	113	6.8	2,090	60	9	13	0
2C	3121	6/09/99	58° 19.64'	134° 43.06' W	41	6.8	267	0	0	0	0
2C	3122	6/10/99	58° 19.72'	135° 02.55' W	159	6.8	686	0	9	0	26
2C	3123	6/10/99	58° 30.09'	135° 02.04' W	121	6.8	916	174	17	4	9
2C	3124	6/10/99	58° 40.06'	135° 02.99' W	154	6.7	795	151	25	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.

# 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**		
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish
3A	4001	7/03/99	57° 50.00'	137° 13.04' W	165	6.7	111	0	223	0	114
3A	4002	7/03/99	58° 00.00'	136° 53.98' W	223	6.8	103	9	253	0	4
3A	4003	7/03/99	58° 00.00'	137° 12.11' W	120	6.9	1,815	106	95	0	0
3A	4004	7/02/99	58° 00.00'	137° 31.23' W	88	6.8	2,602	189	9	4	73
3A	4005	7/02/99	58° 00.06'	137° 50.18' W	99	6.7	2,520	675	21	0	34
3A	4006	6/29/99	58° 10.00'	136° 55.01' W	105	6.8	2,116	146	64	9	9
3A	4007	6/29/99	58° 10.00'	137° 11.05' W	66	6.8	2,640	363	0	0	30
3A	4008	7/02/99	58° 10.00'	137° 29.59' W	78	6.8	1,131	477	0	0	0
3A	4009	7/02/99	58° 10.00'	137° 49.13' W	85	6.8	764	0	0	0	0
3A	4010	7/01/99	58° 10.00'	138° 08.32' W	85	6.7	1,885	523	0	0	0
3A	4011	7/01/99	58° 10.00'	138° 27.13' W	87	6.8	1,435	261	0	0	30
3A	4012	7/14/99	58° 10.00'	138° 46.08' W	102	6.7	3,650	451	8	0	160
3A	4013	6/29/99	58° 20.00'	137° 09.91' W	92	6.8	61	0	0	0	0
3A	4014	6/30/99	58° 20.00'	137° 28.95' W	101	6.7	134	0	4	0	0
3A	4015	6/30/99	58° 20.00'	137° 48.22' W	95	6.8	240	0	0	0	4
3A	4016	7/01/99	58° 20.00'	138° 06.87' W	71	6.7	1,253	800	0	4	0
3A	4017	7/01/99	58° 19.99'	138° 26.18' W	71	6.8	2,347	1118	0	0	0
3A	4018	7/14/99	58° 20.00'	138° 46.01' W	62	6.7	1,668	590	0	0	126
3A	4019	7/14/99	58° 20.00'	139° 05.04' W	61	6.8	2,499	322	0	0	128
3A	4020	7/14/99	58° 20.00'	139° 24.12' W	148	6.9	4,005	48	9	0	0
3A	4021	6/30/99	58° 29.99'	137° 27.84' W	38	6.8	134	65	0	0	0
3A	4022	6/30/99	58° 29.99'	137° 46.86' W	85	6.7	0	0	0	0	0
3A	4023	7/07/99	58° 30.00'	138° 07.02' W	74	6.8	969	28	0	0	0
3A	4024	7/07/99	58° 29.99'	138° 26.11' W	63	6.7	2,727	1484	0	0	13
3A	4025	7/13/99	58° 30.00'	138° 45.03' W	51	6.7	3,931	664	0	0	17
3A	4026	7/13/99	58° 30.00'	139° 04.05' W	55	6.8	1,435	1100	0	0	34
3A	4027	7/12/99	58° 30.00'	139° 22.98' W	89	6.7	3,487	405	4	8	38
3A	4028	7/12/99	58° 30.00'	139° 42.15' W	133	6.7	741	27	173	0	0
3A	4029	7/07/99	58° 40.00'	138° 06.12' W	52	6.8	2,670	185	0	0	47
3A	4030	7/07/99	58° 40.00'	138° 25.06' W	74	6.7	933	124	0	0	0
3A	4031	7/13/99	58° 40.00'	138° 43.98' W	54	6.8	645	24	0	0	9
3A	4032	7/13/99	58° 40.00'	139° 03.99' W	82	6.9	3,611	712	0	0	0
3A	4033	7/12/99	58° 40.00'	139° 22.98' W	136	6.8	1,082	52	171	0	0
3A	4034	7/12/99	58° 40.00'	139° 42.09' W	101	6.7	1,747	214	21	0	0
3A	4035	8/12/99	58° 40.02'	140° 01.00' W	103	6.7	3,669	625	17	8	4
3A	4036	7/08/99	58° 50.00'	138° 04.89' W	29	6.8	146	143	0	0	0
3A	4037	7/08/99	58° 50.00'	138° 23.99' W	41	6.7	1,148	48	0	0	17
3A	4038	7/25/99	58° 50.02'	138° 43.93' W	66	6.8	553	86	0	0	0
3A	4039	7/25/99	58° 50.02'	139° 03.20' W	103	6.8	499	54	43	0	13
3A	4040	7/11/99	58° 50.00'	139° 22.09' W	75	6.7	3,315	430	0	0	8
3A	4041	7/11/99	58° 50.00'	139° 42.47' W	88	6.8	1,689	129	4	0	0
3A	4042	8/12/99	58° 49.99'	140° 01.09' W	94	6.8	1,383	303	4	0	4
3A	4043	7/08/99	59° 00.00'	138° 24.04' W	35	6.7	420	186	0	0	0
3A	4044	7/25/99	59° 00.03'	138° 43.06' W	86	6.8	0	0	0	0	0
3A	4045	7/25/99	58° 59.99'	139° 02.10' W	56	6.7	322	70	0	0	0
3A	4046	7/11/99	58° 60.00'	139° 22.12' W	59	6.8	1,074	343	0	0	0
3A	4047	7/11/99	59° 00.01'	139° 41.16' W	66	6.8	2,865	426	0	0	0
3A	4048	7/26/99	59° 10.04'	139° 02.02' W	31	6.7	13	0	0	0	0
3A	4049	7/26/99	59° 10.03'	139° 20.95' W	53	6.8	49	0	0	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.

# 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**		
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish
3A	4051	8/12/99	58° 50.08'	140° 20.23' W	100	6.7	1,865	545	4	0	0
3A	4052	8/12/99	58° 50.01'	140° 40.09' W	105	6.7	3,165	252	42	25	0
3A	4053	8/11/99	59° 00.04'	140° 01.00' W	72	6.7	3,326	525	0	0	4
3A	4054	8/11/99	59° 00.01'	140° 20.24' W	84	6.9	4,240	548	0	0	35
3A	4055	8/10/99	59° 00.00'	140° 39.02' W	97	6.7	1,324	384	4	0	0
3A	4056	8/10/99	59° 00.00'	140° 59.17' W	104	6.7	3,286	599	13	17	4
3A	4057	7/26/99	59° 10.00'	139° 41.03' W	68	6.8	1,521	279	0	9	0
3A	4058	8/11/99	59° 09.76'	140° 01.20' W	64	6.7	2,748	976	0	0	0
3A	4059	8/11/99	59° 09.99'	140° 20.11' W	71	6.8	3,676	415	9	4	0
3A	4060	8/10/99	59° 10.01'	140° 39.00' W	81	6.7	1,125	290	0	21	4
3A	4061	8/10/99	59° 10.02'	140° 58.90' W	98	6.7	4,799	494	0	0	0
3A	4062	8/09/99	59° 10.00'	141° 18.00' W	184	6.8	1,605	9	119	0	4
3A	4063	8/09/99	59° 10.02'	141° 38.15' W	124	6.7	8,040	155	75	8	4
3A	4064	7/26/99	59° 20.03'	139° 39.99' W	85	6.8	42	11	0	0	0
3A	4065	7/27/99	59° 20.01'	139° 59.86' W	88	6.8	316	27	4	0	0
3A	4066	7/27/99	59° 20.05'	140° 19.99' W	70	6.7	2,184	561	0	0	0
3A	4067	7/27/99	59° 20.02'	140° 39.09' W	77	6.8	1,314	352	0	0	0
3A	4068	8/09/99	59° 20.01'	140° 59.00' W	86	6.8	2,893	427	4	0	0
3A	4069	8/09/99	59° 20.01'	141° 17.96' W	178	6.7	448	0	214	0	0
3A	4070	8/08/99	59° 20.01'	141° 38.03' W	103	6.8	2,558	189	9	0	0
3A	4071	8/08/99	59° 20.00'	141° 57.97' W	118	6.7	2,952	230	25	4	0
3A	4072	7/28/99	59° 30.02'	140° 00.21' W	60	6.8	0	0	0	0	0
3A	4073	7/28/99	59° 30.01'	140° 19.52' W	123	6.8	716	0	13	0	0
3A	4074	7/28/99	59° 30.01'	140° 39.12' W	151	6.7	755	0	59	0	21
3A	4075	7/29/99	59° 30.00'	140° 59.02' W	161	6.8	902	0	158	0	4
3A	4076	7/29/99	59° 30.02'	141° 19.18' W	89	6.8	379	10	0	0	0
3A	4077	8/08/99	59° 30.05'	141° 38.11' W	87	6.9	228	0	0	0	0
3A	4078	8/08/99	59° 30.00'	141° 58.05' W	96	6.7	747	9	4	0	0
3A	4079	7/28/99	59° 40.02'	139° 59.16' W	74	6.8	735	61	0	17	0
3A	4080	7/29/99	59° 40.02'	140° 59.19' W	29	6.8	323	47	0	0	0
3A	4081	7/29/99	59° 40.00'	141° 19.10' W	36	6.8	490	383	0	0	0
3A	4082	7/31/99	59° 40.00'	141° 38.11' W	53	6.7	185	20	0	0	0
3A	4083	7/31/99	59° 40.01'	141° 58.05' W	81	6.7	122	0	0	0	0
3A	4084	7/31/99	59° 39.98'	142° 18.08' W	117	6.8	1,493	16	17	0	4
3A	4085	8/02/99	59° 39.99'	142° 37.95' W	207	6.7	396	0	211	0	34
3A	4086	8/02/99	59° 40.00'	142° 57.86' W	112	6.8	4,973	89	18	9	9
3A	4087	8/02/99	59° 40.02'	143° 16.79' W	146	6.7	3,186	21	84	17	21
3A	4088	8/03/99	59° 40.00'	143° 37.02' W	87	6.7	8,386	152	0	34	0
3A	4089	8/04/99	59° 40.01'	143° 57.04' W	70	6.7	6,840	244	0	0	17
3A	4090	8/04/99	59° 40.01'	144° 17.10' W	88	6.7	3,366	80	0	0	13
3A	4091	8/04/99	59° 40.00'	144° 37.25' W	80	6.7	1,330	17	0	0	0
3A	4092	7/31/99	59° 50.03'	141° 59.21' W	38	6.7	546	243	0	0	0
3A	4093	8/01/99	59° 50.00'	142° 18.02' W	52	6.8	3,909	416	0	0	34
3A	4094	8/01/99	59° 50.03'	142° 38.06' W	85	6.8	2,976	46	0	0	0
3A	4095	8/02/99	59° 50.03'	142° 58.44' W	94	6.8	178	10	0	0	0
3A	4096	8/03/99	59° 50.04'	143° 18.11' W	115	6.8	2,298	110	9	4	0
3A	4097	8/03/99	59° 50.00'	143° 38.09' W	153	6.7	669	20	114	0	13
3A	4098	8/03/99	59° 50.02'	143° 58.37' W	51	6.8	2,154	377	0	0	0
3A	4099	8/04/99	59° 50.00'	144° 17.98' W	35	6.8	843	307	0	34	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.

# 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**		
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish
3A	4100	8/01/99	60° 00.00'	142° 39.08' W	43	6.7	1,063	168	4	0	0
3A	4101	8/01/99	60° 00.02'	142° 59.01' W	61	6.7	506	134	0	0	0
3A	4102	8/15/99	59° 19.81'	146° 16.02' W	173	7.0	1,227	0	0	0	30
3A	4103	8/15/99	59° 19.95'	146° 35.00' W	81	7.0	1,942	99	0	0	0
3A	4104	8/16/99	59° 20.07'	146° 54.99' W	105	7.0	1,806	110	0	0	0
3A	4105	8/16/99	59° 19.96'	147° 14.99' W	101	7.0	340	10	10	0	0
3A	4106	8/07/99	59° 29.98'	145° 16.05' W	91	7.0	3,508	137	10	5	65
3A	4107	8/07/99	59° 30.09'	145° 55.01' W	96	7.0	1,718	111	15	0	0
3A	4108	8/15/99	59° 30.00'	146° 35.01' W	50	7.0	1,220	128	0	0	25
3A	4109	8/16/99	59° 30.20'	146° 54.02' W	101	7.0	334	0	10	0	0
3A	4110	8/12/99	59° 29.95'	147° 14.03' W	116	7.0	213	20	50	0	5
3A	4111	8/12/99	59° 30.00'	147° 32.98' W	59	7.0	2,381	272	0	0	0
3A	4112	8/07/99	59° 39.98'	145° 34.02' W	58	7.0	578	35	0	0	0
3A	4113	8/08/99	59° 40.09'	145° 54.03' W	45	7.0	1,747	642	0	0	0
3A	4114	8/09/99	59° 40.03'	146° 14.02' W	46	7.0	569	124	0	0	0
3A	4115	8/09/99	59° 39.86'	146° 34.02' W	47	7.0	2,196	498	0	0	20
3A	4116	8/14/99	59° 40.01'	146° 53.01' W	60	7.0	120	0	0	0	0
3A	4117	8/14/99	59° 39.97'	147° 13.01' W	101	7.0	430	0	0	0	0
3A	4118	8/12/99	59° 39.95'	147° 33.07' W	66	7.0	401	9	0	0	0
3A	4119	7/28/99	59° 49.73'	144° 58.05' W	105	7.0	170	8	0	0	0
3A	4120	8/08/99	59° 50.04'	145° 53.05' W	56	7.0	314	16	0	0	0
3A	4121	8/08/99	59° 49.95'	146° 12.98' W	34	7.0	1,049	331	0	0	0
3A	4122	8/09/99	59° 40.03'	146° 14.02' W	46	7.0	2,691	410	0	0	0
3A	4123	8/14/99	59° 49.99'	146° 53.01' W	43	7.0	505	154	0	0	0
3A	4124	8/13/99	59° 50.05'	147° 12.98' W	87	7.0	1,017	26	5	0	0
3A	4125	7/28/99	60° 00.12'	144° 38.96' W	123	6.8	261	0	0	0	0
3A	4126	7/28/99	60° 00.02'	144° 58.80' W	71	7.0	122	0	0	0	0
3A	4127	8/06/99	60° 00.02'	145° 19.02' W	67	7.0	441	36	0	0	0
3A	4128	8/05/99	60° 00.05'	146° 12.03' W	35	7.0	1,422	418	0	0	0
3A	4129	8/05/99	60° 00.04'	146° 31.95' W	36	7.0	1,068	1234	0	0	0
3A	4130	8/13/99	60° 00.06'	146° 51.99' W	80	7.0	0	7	5	0	0
3A	4131	8/13/99	59° 59.87'	147° 12.02' W	101	7.0	379	0	15	20	0
3A	4132	8/06/99	60° 10.08'	145° 31.01' W	47	7.0	837	76	0	5	0
3A	4133	8/06/99	60° 10.05'	145° 51.00' W	58	7.0	260	29	0	0	0
3A	4134	8/05/99	60° 10.00'	146° 10.99' W	48	7.0	380	94	0	0	0
3A	4135	8/23/99	60° 10.07'	147° 30.99' W	34	7.0	1,854	213	0	40	45
3A	4136	8/23/99	60° 09.98'	147° 51.02' W	174	7.0	785	156	0	5	10
3A	4137	8/22/99	60° 19.99'	147° 30.98' W	71	7.0	1,454	27	0	60	20
3A	4138	8/21/99	60° 29.96'	146° 28.98' W	37	7.0	280	122	5	0	0
3A	4139	8/21/99	60° 30.18'	146° 49.00' W	218	7.0	840	7	6	3	0
3A	4140	8/21/99	60° 30.02'	147° 10.00' W	98	7.0	759	88	25	30	0
3A	4141	8/22/99	60° 30.02'	147° 30.00' W	105	7.0	533	41	10	0	5
3A	4142	8/22/99	60° 28.95'	147° 50.00' W	253	7.0	1,178	30	15	0	0
3A	4143	8/20/99	60° 39.99'	146° 48.99' W	226	7.0	1,242	28	50	10	0
3A	4144	8/20/99	60° 39.96'	147° 09.00' W	135	7.0	878	21	21	36	0
3A	4145	8/20/99	60° 49.94'	147° 10.01' W	111	7.0	1,047	126	5	55	15
3A	4146	8/19/99	60° 50.09'	148° 09.97' W	140	7.0	761	82	10	15	45
3A	4147	7/15/99	58° 40.06'	148° 33.94' W	129	6.7	1,885	33	139	0	0
3A	4148	7/15/99	58° 39.88'	148° 53.08' W	87	6.7	2,546	124	45	29	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.

## 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**			
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish	
3A	4149	Unsuccessful Station										
3A	4150	7/15/99	58° 50.43'	148° 33.99' W	160	6.6	2,950	10	99	0	0	
3A	4151	6/28/99	58° 50.01'	148° 52.95' W	140	6.4	3,364	0	117	20	0	
3A	4152	6/28/99	58° 50.06'	149° 12.07' W	112	6.6	2,387	23	89	24	4	
3A	4153	7/17/99	59° 01.14'	147° 55.02' W	165	6.6	790	85	33	45	16	
3A	4154	7/16/99	58° 59.78'	148° 13.98' W	119	6.6	1,440	7	59	17	8	
3A	4155	7/16/99	58° 59.78'	148° 34.13' W	131	6.6	882	21	95	0	0	
3A	4156	6/28/99	58° 59.86'	148° 52.99' W	117	6.6	968	7	93	32	0	
3A	4157	6/27/99	59° 00.04'	149° 12.10' W	112	6.7	686	16	59	8	0	
3A	4158	6/27/99	58° 59.88'	149° 32.04' W	129	6.7	388	0	66	8	0	
3A	4159	7/09/99	59° 10.02'	147° 36.52' W	126	6.6	6,500	36	24	8	4	
3A	4160	7/17/99	59° 10.00'	147° 51.98' W	113	6.7	1,823	60	54	0	0	
3A	4161	7/17/99	59° 10.02'	148° 13.25' W	68	6.5	6,926	391	0	4	77	
3A	4162	7/17/99	59° 09.93'	148° 33.02' W	88	6.5	1,926	88	8	8	0	
3A	4163	7/14/99	59° 09.99'	148° 52.95' W	98	6.6	3,532	27	29	12	4	
3A	4164	7/14/99	59° 10.16'	149° 12.00' W	85	6.7	2,439	51	38	13	0	
3A	4165	6/26/99	59° 09.84'	149° 31.99' W	89	6.5	1,985	110	4	52	0	
3A	4166	6/26/99	59° 09.96'	149° 50.95' W	73	6.7	1,781	235	8	12	0	
3A	4167	7/09/99	59° 19.94'	147° 34.09' W	68	6.6	4,994	402	0	0	21	
3A	4168	7/08/99	59° 20.20'	147° 53.94' W	102	6.7	1,331	10	12	4	0	
3A	4169	7/08/99	59° 20.15'	148° 12.97' W	88	6.8	2,633	123	4	21	4	
3A	4170	7/13/99	59° 19.99'	148° 33.00' W	50	6.6	6,660	654	0	0	44	
3A	4171	7/14/99	59° 19.80'	148° 53.04' W	92	6.5	1,011	46	20	0	0	
3A	4172	6/30/99	59° 19.91'	149° 11.98' W	102	6.6	3,228	27	16	0	0	
3A	4173	6/30/99	59° 20.17'	149° 31.95' W	66	6.7	2,449	347	0	4	0	
3A	4174	6/26/99	59° 19.96'	149° 50.99' W	103	6.6	1,660	102	4	16	0	
3A	4175	6/25/99	59° 20.23'	150° 11.02' W	86	6.2	1,596	49	4	38	0	
3A	4176	7/07/99	59° 31.34'	147° 53.73' W	63	6.7	2,002	228	0	4	8	
3A	4177	7/08/99	59° 29.93'	148° 13.02' W	114	6.7	1,324	57	34	25	4	
3A	4178	7/13/99	59° 29.84'	148° 32.91' W	52	6.6	1,062	1271	0	0	0	
3A	4179	7/13/99	59° 29.76'	148° 52.05' W	91	6.6	2,903	180	8	0	0	
3A	4180	6/30/99	59° 29.80'	149° 11.95' W	128	6.7	1,231	16	62	29	0	
3A	4181	6/30/99	59° 29.93'	149° 32.03' W	58	6.7	1,145	348	0	17	0	
3A	4182	6/25/99	59° 30.06'	149° 51.97' W	108	6.7	1,564	77	4	91	0	
3A	4183	6/25/99	59° 29.80'	150° 10.95' W	59	6.7	793	134	0	12	8	
3A	4184	7/07/99	59° 39.77'	147° 52.95' W	39	6.6	3,525	34	0	0	37	
3A	4185	7/07/99	59° 39.94'	148° 13.01' W	70	6.7	579	172	0	0	0	
3A	4186	7/06/99	59° 40.05'	148° 32.88' W	114	6.5	853	90	28	8	0	
3A	4187	7/05/99	59° 39.80'	148° 51.99' W	99	6.6	668	32	4	0	4	
3A	4188	7/04/99	59° 40.19'	149° 11.94' W	115	6.7	1,930	10	51	4	0	
3A	4189	7/04/99	59° 39.91'	149° 32.10' W	151	6.6	645	26	61	85	0	
3A	4190	7/06/99	59° 49.84'	148° 12.06' W	66	6.4	1,533	277	12	12	0	
3A	4191	7/06/99	59° 50.03'	148° 31.91' W	77	6.7	491	16	0	0	0	
3A	4192	7/05/99	59° 49.84'	148° 52.14' W	95	6.7	346	0	8	0	0	
3A	4193	7/05/99	59° 49.91'	149° 12.06' W	78	6.7	777	38	4	8	0	
3A	4194	7/04/99	59° 49.86'	149° 31.97' W	83	6.6	634	38	4	0	0	
3A	4195	8/03/99	57° 59.94'	149° 13.06' W	78	6.5	2,105	0	0	0	18	
3A	4196	8/03/99	58° 09.93'	148° 53.93' W	77	6.6	1,710	248	0	0	0	
3A	4197	8/03/99	58° 09.87'	149° 12.78' W	63	6.5	1,881	332	0	0	14	

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

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

2/17/00

## 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**			
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish	
3A	4198	8/02/99	58° 10.04'	149° 31.66' W	58	6.7	3,492	331	0	0	0	
3A	4199	8/02/99	58° 09.85'	149° 51.06' W	82	6.7	2,175	47	5	10	5	
3A	4200	8/07/99	58° 20.06'	148° 35.31' W	107	6.7	4,286	71	10	0	0	
3A	4201	8/08/99	58° 20.03'	148° 53.85' W	68	6.3	525	48	0	0	0	
3A	4202	8/08/99	58° 20.02'	149° 13.32' W	84	6.2	1,913	88	0	22	0	
3A	4203	7/31/99	58° 19.88'	149° 31.97' W	82	5.7	2,082	135	0	0	0	
3A	4204	8/02/99	58° 19.82'	149° 51.05' W	42	6.5	2,155	303	0	0	0	
3A	4205	7/23/99	58° 19.79'	150° 09.99' W	27	6.5	867	375	0	0	0	
3A	4206	7/23/99	58° 20.05'	150° 29.76' W	28	7.0	314	396	0	0	0	
3A	4207	8/07/99	58° 30.08'	148° 40.39' W	65	6.5	1,587	33	0	0	14	
3A	4208	8/07/99	58° 29.99'	148° 53.01' W	60	6.4	3,565	270	0	0	0	
3A	4209	8/08/99	58° 30.02'	149° 13.04' W	65	6.5	2,849	153	0	9	0	
3A	4210	7/31/99	58° 29.93'	149° 31.95' W	77	6.5	1,458	178	0	28	0	
3A	4211	7/31/99	58° 30.05'	149° 51.01' W	77	6.7	1,149	54	0	33	0	
3A	4212	7/23/99	58° 29.95'	150° 10.03' W	50	6.4	1,751	456	0	0	0	
3A	4213	7/24/99	58° 29.87'	150° 29.02' W	48	6.7	1,227	681	0	0	0	
3A	4214	7/25/99	58° 29.73'	150° 47.94' W	54	7.0	1,847	371	0	0	0	
3A	4215	8/09/99	58° 40.04'	149° 13.03' W	74	6.7	756	60	10	14	0	
3A	4216	8/09/99	58° 40.03'	149° 32.21' W	73	6.5	1,796	116	9	24	0	
3A	4217	8/09/99	58° 40.03'	149° 51.16' W	84	6.6	1,089	28	5	0	0	
3A	4218	Unsuccessful Station										
3A	4219	7/24/99	58° 40.09'	150° 29.00' W	113	6.8	348	36	24	29	0	
3A	4220	7/25/99	58° 40.02'	150° 48.78' W	110	7.1	1,359	93	30	25	0	
3A	4221	7/25/99	58° 40.05'	151° 08.19' W	103	7.0	2,002	53	65	20	0	
3A	4222	8/09/99	58° 50.01'	149° 32.16' W	121	6.5	455	9	70	0	0	
3A	4223	8/10/99	58° 50.03'	149° 51.77' W	131	6.6	548	0	80	0	0	
3A	4224	8/10/99	58° 50.04'	150° 10.26' W	87	6.5	1,943	29	84	9	0	
3A	4225	7/26/99	58° 49.78'	150° 29.99' W	93	6.8	1,131	28	73	5	0	
3A	4226	7/26/99	58° 49.99'	150° 49.28' W	99	7.0	381	25	64	69	0	
3A	4227	7/30/99	58° 50.04'	151° 08.06' W	77	6.9	1,971	80	15	0	0	
3A	4228	7/30/99	58° 50.02'	151° 27.74' W	58	7.0	1,083	454	0	0	0	
3A	4229	8/04/99	59° 00.07'	149° 50.91' W	122	6.8	221	0	19	0	0	
3A	4230	8/04/99	59° 00.09'	150° 11.62' W	105	6.5	234	0	28	0	0	
3A	4231	7/26/99	58° 59.89'	150° 30.02' W	65	6.6	1,176	460	0	14	0	
3A	4232	7/26/99	59° 00.02'	150° 49.95' W	89	7.4	1,099	94	0	11	0	
3A	4233	7/28/99	59° 00.05'	151° 08.18' W	82	6.7	1,627	293	0	5	0	
3A	4234	7/30/99	59° 00.68'	151° 27.87' W	80	6.7	1,160	63	0	5	5	
3A	4235	8/04/99	59° 10.02'	150° 11.51' W	67	6.5	1,700	189	0	0	0	
3A	4236	7/27/99	59° 10.04'	150° 29.77' W	67	7.2	916	70	0	0	0	
3A	4237	7/27/99	59° 10.02'	150° 49.44' W	73	6.9	1,849	128	5	20	20	
3A	4238	7/27/99	59° 10.03'	151° 07.13' W	30	6.9	2,423	615	0	0	25	
3A	4239	7/27/99	59° 19.86'	150° 31.02' W	130	6.7	2,304	30	10	33	29	
3A	4240	8/17/99	57° 19.92'	150° 46.09' W	87	6.7	1,366	26	10	10	0	
3A	4241	8/18/99	57° 30.11'	150° 09.09' W	243	7.0	217	0	35	0	0	
3A	4242	8/18/99	57° 30.00'	150° 27.83' W	85	7.0	878	50	5	5	0	
3A	4243	8/17/99	57° 29.91'	150° 46.08' W	53	6.8	2,428	150	0	15	0	
3A	4244	8/19/99	57° 40.25'	149° 50.05' W	225	7.0	301	0	10	0	35	
3A	4245	8/18/99	57° 40.09'	150° 09.09' W	114	7.0	2,423	25	0	0	0	
3A	4246	8/18/99	57° 40.00'	150° 27.91' W	52	7.0	533	302	0	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.

## 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**		
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish
3A	4247	8/23/99	57° 39.91'	150° 47.05' W	46	6.9	1,341	266	0	0	0
3A	4248	8/23/99	57° 39.84'	151° 04.98' W	40	6.8	510	359	0	0	0
3A	4249	8/07/99	57° 39.85'	151° 24.35' W	35	7.0	1,603	415	0	45	0
3A	4250	8/19/99	57° 50.20'	149° 32.12' W	190	6.7	1,394	0	19	0	10
3A	4251	8/19/99	57° 50.06'	149° 50.34' W	140	6.7	982	35	0	5	0
3A	4252	8/19/99	57° 50.12'	150° 09.52' W	106	7.0	606	45	5	10	0
3A	4253	8/22/99	57° 50.04'	150° 28.20' W	51	7.1	1,152	350	0	0	0
3A	4254	8/23/99	57° 49.85'	150° 47.02' W	45	6.8	539	173	0	0	0
3A	4255	8/23/99	57° 49.89'	151° 06.00' W	38	6.8	696	352	0	0	0
3A	4256	8/07/99	57° 50.09'	151° 23.97' W	30	7.0	938	660	0	65	0
3A	4257	8/07/99	57° 50.03'	151° 43.53' W	28	7.0	501	944	0	0	0
3A	4258	8/16/99	57° 50.08'	152° 02.74' W	48	7.0	791	348	0	0	0
3A	4259	8/20/99	58° 00.04'	149° 32.49' W	83	6.8	1,721	112	5	0	0
3A	4260	8/20/99	57° 59.90'	149° 51.14' W	128	6.8	1,802	40	10	5	0
3A	4261	8/20/99	58° 00.10'	150° 09.14' W	123	6.9	1,269	68	10	0	0
3A	4262	8/22/99	57° 59.88'	150° 28.04' W	89	6.7	1,012	128	0	19	0
3A	4263	8/10/99	57° 59.94'	150° 46.98' W	71	7.0	1,231	112	5	5	0
3A	4264	8/23/99	58° 00.05'	151° 05.98' W	44	6.8	685	142	0	0	0
3A	4265	8/08/99	57° 59.73'	151° 25.03' W	42	7.0	438	248	0	15	0
3A	4266	8/08/99	58° 00.00'	151° 44.33' W	71	6.9	2,128	76	0	35	0
3A	4267	8/16/99	58° 00.03'	152° 02.74' W	98	7.0	731	0	5	0	0
3A	4268	8/16/99	58° 00.01'	152° 21.83' W	113	7.0	946	7	0	50	0
3A	4269	8/22/99	58° 10.02'	150° 09.99' W	80	6.8	2,070	135	0	5	10
3A	4270	8/22/99	58° 10.10'	150° 29.05' W	62	7.0	946	236	0	0	0
3A	4271	8/10/99	58° 09.82'	150° 47.95' W	60	7.0	676	44	5	35	0
3A	4272	8/10/99	58° 10.02'	151° 07.21' W	77	7.0	1,926	114	25	15	0
3A	4273	8/08/99	58° 09.64'	151° 25.05' W	88	7.0	679	38	15	76	0
3A	4274	8/09/99	58° 09.80'	151° 44.05' W	32	7.0	1,936	77	0	0	0
3A	4275	8/11/99	58° 20.08'	150° 46.95' W	35	7.0	1,391	894	0	10	0
3A	4276	8/11/99	58° 19.75'	151° 06.97' W	68	7.0	1,452	195	0	5	0
3A	4277	8/09/99	58° 19.83'	151° 26.00' W	51	7.0	1,766	546	0	0	0
3A	4278	8/09/99	58° 19.84'	151° 43.91' W	31	7.0	2,726	23	0	0	0
3A	4279	8/11/99	58° 29.93'	151° 07.00' W	59	7.0	847	239	0	10	0
3A	4280	8/12/99	58° 29.99'	151° 26.83' W	93	7.0	1,377	11	50	0	0
3A	4281	8/12/99	58° 30.00'	151° 46.23' W	102	7.0	1,394	11	45	20	0
3A	4282	8/12/99	58° 39.98'	151° 26.99' W	101	7.0	784	30	40	0	0
3A	4283	8/15/99	58° 40.03'	151° 45.91' W	71	6.8	2,430	78	0	0	0
3A	4284	8/15/99	58° 39.75'	152° 05.93' W	69	6.7	1,082	25	0	0	0
3A	4285	8/15/99	58° 49.80'	152° 05.88' W	55	6.7	789	62	0	0	24
3A	4286	7/15/99	56° 20.19'	152° 49.59' W	63	6.9	2,249	78	5	39	0
3A	4287	7/15/99	56° 20.05'	153° 08.19' W	57	7.0	1,413	136	5	10	5
3A	4288	7/16/99	56° 19.72'	153° 26.41' W	32	7.0	3,338	505	0	5	0
3A	4289	7/07/99	56° 30.49'	152° 13.70' W	107	6.9	4,576	222	10	5	5
3A	4290	7/07/99	56° 29.34'	152° 34.30' W	120	6.9	1,784	11	98	5	0
3A	4291	7/15/99	56° 30.07'	152° 51.01' W	30	6.8	3,547	470	0	0	0
3A	4292	7/16/99	56° 29.96'	153° 08.93' W	40	6.9	2,183	84	0	79	0
3A	4293	7/16/99	56° 29.71'	153° 27.21' W	48	6.9	2,403	261	0	34	0
3A	4294	7/24/99	56° 29.75'	153° 44.69' W	43	7.0	1,140	48	0	0	0
3A	4295	6/25/99	56° 39.61'	151° 58.16' W	32	7.0	3,286	1192	0	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.

## 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**		
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish
3A	4296	6/25/99	56° 39.52'	152° 15.56' W	24	7.0	2,313	1205	0	0	0
3A	4297	6/26/99	56° 39.72'	152° 34.37' W	75	7.0	271	125	5	0	0
3A	4298	7/23/99	56° 39.95'	152° 52.31' W	39	7.0	1,013	725	0	0	0
3A	4299	7/23/99	56° 40.06'	153° 09.58' W	83	6.9	1,281	11	0	0	0
3A	4300	7/14/99	56° 39.58'	153° 28.68' W	78	7.0	3,866	128	0	15	0
3A	4301	7/24/99	56° 39.78'	153° 45.85' W	40	6.8	2,148	198	0	10	0
3A	4302	6/24/99	56° 49.73'	151° 41.27' W	139	6.5	951	83	65	0	0
3A	4303	6/25/99	56° 49.53'	151° 58.46' W	42	7.0	5,223	485	0	0	0
3A	4304	7/06/99	56° 49.87'	152° 16.22' W	54	7.0	2,036	227	0	0	0
3A	4305	6/26/99	56° 49.52'	152° 35.22' W	72	7.0	1,239	57	0	0	0
3A	4306	7/23/99	56° 50.14'	152° 52.70' W	35	6.9	719	1137	0	0	0
3A	4307	7/14/99	56° 49.67'	153° 11.25' W	58	6.9	2,288	152	0	0	0
3A	4308	7/14/99	56° 49.68'	153° 30.12' W	56	7.0	1,566	144	0	0	0
3A	4309	6/24/99	56° 59.61'	151° 40.35' W	40	7.0	2,047	399	0	0	0
3A	4310	7/06/99	56° 59.86'	151° 59.30' W	45	7.0	766	1231	0	5	0
3A	4311	7/06/99	56° 59.70'	152° 17.41' W	41	7.0	2,754	358	0	0	0
3A	4312	7/05/99	56° 59.72'	152° 35.44' W	85	7.0	1,975	38	5	0	0
3A	4313	7/05/99	56° 59.80'	152° 54.40' W	69	7.0	1,686	93	15	10	0
3A	4314	6/20/99	57° 09.39'	151° 08.01' W	187	7.0	960	34	65	0	5
3A	4315	6/20/99	57° 09.70'	151° 23.14' W	69	7.0	5,435	454	0	0	0
3A	4316	6/23/99	57° 09.60'	151° 41.80' W	41	7.0	1,504	356	0	0	0
3A	4317	6/23/99	57° 09.57'	151° 59.78' W	40	7.0	914	452	0	5	0
3A	4318	7/04/99	57° 09.66'	152° 18.80' W	43	6.9	411	165	0	0	0
3A	4319	7/04/99	57° 09.88'	152° 36.16' W	52	7.0	1,987	173	0	20	0
3A	4320	6/17/99	57° 20.09'	151° 04.96' W	51	7.0	3,545	733	0	50	0
3A	4321	6/20/99	57° 19.48'	151° 23.93' W	74	7.0	2,986	494	0	25	0
3A	4322	6/19/99	57° 19.23'	151° 41.94' W	35	7.0	2,303	1197	0	0	0
3A	4323	6/23/99	57° 19.74'	152° 01.46' W	40	7.0	1,066	268	0	70	0
3A	4324	7/04/99	57° 19.18'	152° 19.75' W	24	7.0	956	39	0	0	0
3A	4325	6/17/99	57° 30.04'	151° 04.49' W	45	7.0	3,856	965	0	25	0
3A	4326	6/17/99	57° 29.91'	151° 23.68' W	68	7.0	1,538	575	0	40	0
3A	4327	6/19/99	57° 29.30'	151° 43.16' W	54	7.0	2,309	607	0	41	0
3A	4328	6/16/99	57° 29.71'	152° 01.82' W	25	6.9	4,096	464	0	15	0
3A	4329	6/16/99	57° 39.77'	151° 44.36' W	38	6.8	1,715	834	0	34	0
3A	4330	6/16/99	57° 39.66'	152° 01.19' W	80	6.4	1,890	396	0	73	0
3A	4331	7/26/99	57° 30.17'	154° 54.79' W	125	6.8	826	25	54	34	0
3A	4332	7/26/99	57° 39.44'	154° 35.93' W	119	7.0	947	28	10	20	0
3A	4333	7/26/99	57° 39.77'	154° 53.95' W	127	7.0	939	45	59	35	0
3A	4334	7/27/99	57° 39.94'	155° 13.54' W	163	6.9	903	40	25	34	0
3A	4335	8/02/99	57° 49.64'	154° 15.94' W	113	6.9	1,138	102	10	15	0
3A	4336	8/02/99	57° 49.67'	154° 34.69' W	126	6.8	1,140	21	24	29	0
3A	4337	7/27/99	57° 49.73'	154° 53.42' W	160	6.8	1,257	46	24	10	0
3A	4338	8/01/99	57° 59.73'	153° 37.34' W	88	6.9	984	64	5	15	0
3A	4339	8/01/99	57° 59.79'	153° 55.84' W	109	6.9	1,522	134	10	10	0
3A	4340	8/02/99	57° 59.66'	154° 14.46' W	127	7.0	819	36	20	30	0
3A	4341	8/03/99	58° 09.78'	153° 19.68' W	70	7.5	1,130	137	0	28	0
3A	4342	8/03/99	58° 09.73'	153° 38.44' W	107	6.9	1,253	109	0	5	0
3A	4343	8/01/99	58° 09.09'	153° 58.39' W	117	6.9	1,779	107	25	10	0
3A	4344	8/03/99	58° 19.66'	153° 20.23' W	96	7.0	565	28	0	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.



## 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**			
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish	
3A	4345	Unsuccessful Station										
3A	4346	8/05/99	58° 19.71'	153° 58.29' W	49	7.0	3,049	236	0	5	0	
3A	4347	8/06/99	58° 29.70'	153° 03.21' W	92	7.0	1,141	86	0	10	0	
3A	4348	8/06/99	58° 29.68'	153° 21.86' W	100	7.0	1,856	153	0	15	0	
3A	4349	8/05/99	58° 30.05'	153° 41.36' W	52	6.9	3,393	122	0	10	0	
3A	4350	8/11/99	58° 39.69'	152° 44.84' W	106	7.0	666	37	5	45	0	
3A	4351	8/11/99	58° 39.59'	153° 03.50' W	86	7.0	4,845	260	0	25	5	
3A	4352	8/06/99	58° 39.64'	153° 23.98' W	27	7.0	1,781	159	5	10	0	
3A	4353	8/10/99	58° 49.05'	152° 25.34' W	88	7.0	5,961	46	0	70	0	
3A	4354	8/10/99	58° 49.96'	152° 44.91' W	102	7.0	979	92	0	50	0	
3A	4355	8/11/99	58° 49.55'	153° 04.24' W	91	6.9	1,930	350	0	64	0	
3A	4356	8/09/99	58° 59.48'	151° 47.51' W	66	6.9	3,073	1175	0	0	0	
3A	4357	8/09/99	58° 59.70'	152° 08.63' W	65	7.0	2,402	1080	0	0	0	
3A	4358	8/10/99	59° 00.52'	152° 26.27' W	87	7.0	4,974	189	0	5	0	
3A	4359	8/12/99	58° 59.63'	152° 46.80' W	93	7.0	2,029	149	5	114	0	
3A	4360	8/12/99	58° 59.66'	153° 05.65' W	83	6.9	1,784	171	0	122	0	
3A	4361	8/27/99	59° 09.82'	152° 07.98' W	78	7.0	1,087	701	0	60	0	
3A	4362	8/27/99	59° 10.00'	152° 27.01' W	56	7.0	635	540	0	40	0	
3A	4363	8/12/99	59° 09.81'	152° 47.22' W	75	6.9	1,239	136	0	54	0	
3A	4364	8/29/99	59° 09.98'	153° 06.02' W	47	7.0	2,494	82	0	25	0	
3A	4365	8/29/99	59° 09.96'	153° 25.98' W	21	7.0	467	74	0	5	0	
3A	4366	Unsuccessful Station										
3A	4367	8/28/99	59° 20.00'	152° 28.00' W	40	7.0	681	827	0	0	0	
3A	4368	8/28/99	59° 19.99'	152° 48.02' W	43	7.0	541	412	0	0	0	
3A	4369	8/29/99	59° 19.97'	153° 08.01' W	28	7.0	1,133	82	0	65	0	
3A	4370	8/31/99	59° 29.90'	151° 50.03' W	38	7.0	608	207	0	5	0	
3A	4371	8/31/99	59° 30.00'	152° 09.00' W	24	7.0	507	276	0	0	0	
3A	4372	8/30/99	59° 30.02'	152° 29.01' W	30	7.0	286	26	0	0	0	
3A	4373	8/30/99	59° 29.89'	152° 49.02' W	27	7.0	1,890	257	0	10	0	
3A	4374	9/01/99	59° 39.91'	152° 30.02' W	43	7.0	1,430	65	0	15	0	
3A	4375	9/01/99	59° 50.03'	152° 11.00' W	29	7.0	565	361	0	0	0	
3A	4376	Unsuccessful Station										

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

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

# 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**			
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish	
3B	5001	7/04/99	55° 59.99'	153° 35.98' W	53	7.0	8,728	444	0	0	0	
3B	5002	7/04/99	55° 59.98'	153° 54.11' W	63	6.7	4,421	687	0	0	0	
3B	5003	7/08/99	55° 59.99'	154° 13.09' W	60	7.0	6,806	399	0	30	15	
3B	5004	7/08/99	56° 00.00'	154° 30.09' W	264	7.0	580	0	125	0	0	
3B	5005	7/08/99	55° 59.98'	154° 48.04' W	119	6.8	676	30	83	34	0	
3B	5006	7/14/99	55° 59.63'	155° 05.85' W	31	6.8	568	271	0	209	0	
3B	5007	7/04/99	56° 10.00'	153° 36.24' W	90	7.0	2,876	266	5	64	0	
3B	5008	7/05/99	56° 09.89'	153° 54.69' W	128	6.9	10,220	107	5	0	0	
3B	5009	7/06/99	56° 09.96'	154° 11.12' W	66	6.7	1,214	792	10	67	0	
3B	5010	7/07/99	56° 10.00'	154° 28.98' W	53	7.0	7,040	879	0	0	0	
3B	5011	7/07/99	56° 10.00'	154° 46.99' W	44	7.0	1,447	666	0	50	0	
3B	5012	Unsuccessful Station										
3B	5013	Unsuccessful Station										
3B	5014	8/08/99	56° 10.11'	155° 41.00' W	33	7.0	885	938	0	5	0	
3B	5015	7/06/99	56° 20.04'	153° 50.91' W	49	6.9	1,891	649	0	73	0	
3B	5016	Unsuccessful Station										
3B	5017	7/07/99	56° 20.01'	154° 28.05' W	34	7.0	1,117	395	0	124	0	
3B	5018	8/09/99	56° 20.07'	155° 22.11' W	25	7.0	1,668	1247	0	5	0	
3B	5019	8/10/99	56° 19.95'	155° 40.00' W	39	6.8	2,180	470	0	136	0	
3B	5020	8/10/99	56° 29.87'	155° 20.99' W	29	6.7	1,953	708	0	14	0	
3B	5021	8/10/99	56° 29.93'	155° 38.98' W	62	7.1	3,426	298	0	51	0	
3B	5022	8/19/99	56° 40.08'	155° 02.01' W	23	7.0	4,835	238	0	0	0	
3B	5023	8/19/99	56° 40.09'	155° 20.00' W	56	7.0	1,479	390	0	95	0	
3B	5024	8/18/99	56° 40.00'	155° 38.00' W	131	7.0	1,760	43	15	30	0	
3B	5025	8/18/99	56° 39.98'	155° 56.00' W	160	7.0	1,746	86	75	5	0	
3B	5026	8/21/99	56° 50.06'	154° 24.00' W	33	7.0	3,950	314	0	72	0	
3B	5027	8/21/99	56° 50.02'	154° 42.00' W	32	7.0	1,071	367	0	15	0	
3B	5028	8/19/99	56° 50.04'	154° 60.00' W	42	7.0	2,198	578	0	40	0	
3B	5029	8/22/99	56° 49.96'	155° 19.00' W	124	7.0	2,223	22	50	25	0	
3B	5030	8/18/99	56° 49.91'	155° 37.00' W	151	7.0	1,808	84	35	10	0	
3B	5031	7/30/99	56° 49.95'	155° 54.95' W	164	6.9	1,153	18	64	20	0	
3B	5032	8/21/99	56° 59.75'	154° 40.99' W	23	7.0	1,112	196	0	0	0	
3B	5033	8/22/99	56° 59.99'	154° 59.00' W	60	7.0	552	308	5	65	0	
3B	5034	8/22/99	56° 59.98'	155° 18.01' W	138	7.0	2,371	120	45	35	0	
3B	5035	9/05/99	56° 59.92'	155° 36.00' W	154	7.1	2,237	115	41	30	0	
3B	5036	7/30/99	56° 59.95'	155° 53.99' W	163	7.0	2,151	28	60	30	0	
3B	5037	9/04/99	57° 10.04'	154° 39.48' W	33	7.0	1,362	91	0	0	0	
3B	5038	9/04/99	57° 10.05'	154° 58.00' W	109	7.0	1,900	147	60	30	0	
3B	5039	9/05/99	57° 09.97'	155° 15.87' W	133	6.9	1,547	123	93	44	0	
3B	5040	9/02/99	57° 09.96'	155° 34.98' W	150	7.0	1,364	134	35	40	0	
3B	5041	9/02/99	57° 09.93'	155° 53.00' W	136	7.0	3,426	144	124	35	0	
3B	5042	9/04/99	57° 19.95'	154° 56.99' W	106	7.0	1,436	92	59	114	0	
3B	5043	9/05/99	57° 19.96'	155° 15.07' W	134	7.0	2,147	172	40	45	0	
3B	5044	Unsuccessful Station										
3B	5045	9/02/99	57° 19.70'	155° 52.05' W	63	6.9	3,612	439	0	103	0	
3B	5046	9/01/99	57° 19.96'	156° 10.98' W	75	6.9	2,724	140	0	148	0	
3B	5047	8/31/99	57° 30.36'	155° 14.02' W	142	7.0	2,480	67	70	70	0	
3B	5048	8/31/99	57° 29.84'	155° 33.19' W	165	7.1	2,665	354	10	25	0	
3B	5096	8/20/99	54° 49.96'	157° 33.23' W	228	6.2	125	0	109	0	23	

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

## 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**		
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish
3B	5097	6/22/99	54° 50.05'	157° 50.16' W	93	7.0	1,732	338	0	119	0
3B	5098	8/20/99	55° 00.23'	157° 15.16' W	101	7.0	1,453	174	15	30	0
3B	5099	8/20/99	55° 00.38'	157° 32.27' W	50	7.0	4,537	480	0	0	15
3B	5100	6/22/99	55° 00.25'	157° 49.97' W	45	7.0	7,111	366	0	0	10
3B	5101	8/21/99	55° 00.18'	158° 07.08' W	72	7.0	2,283	391	0	125	0
3B	5102	8/17/99	55° 09.88'	156° 22.45' W	282	7.0	28	0	75	0	0
3B	5103	8/17/99	55° 10.09'	156° 39.24' W	281	7.0	0	0	219	0	15
3B	5104	8/17/99	55° 09.78'	156° 57.03' W	87	7.0	1,555	100	10	45	0
3B	5105	8/19/99	55° 09.94'	157° 14.12' W	61	7.0	2,288	792	0	60	0
3B	5106	8/19/99	55° 09.90'	157° 32.71' W	46	7.0	3,015	464	0	0	0
3B	5107	8/19/99	55° 10.12'	157° 47.95' W	43	7.0	2,190	1266	0	50	0
3B	5108	8/21/99	55° 10.18'	158° 07.08' W	57	7.0	3,631	1420	0	15	0
3B	5109	6/23/99	55° 20.09'	156° 39.31' W	62	7.0	6,569	1309	0	0	0
3B	5110	6/23/99	55° 20.23'	156° 56.14' W	50	7.0	3,035	1007	0	20	0
3B	5111	8/18/99	55° 20.36'	157° 14.25' W	48	7.0	1,596	518	0	0	0
3B	5112	8/18/99	55° 20.27'	157° 31.16' W	47	7.0	1,211	1523	0	0	0
3B	5113	8/18/99	55° 20.18'	157° 49.20' W	44	7.0	265	1551	0	0	0
3B	5114	8/21/99	55° 19.61'	158° 05.66' W	60	7.0	4,538	1148	0	5	0
3B	5115	8/28/99	55° 20.17'	158° 24.45' W	81	7.0	1,339	84	20	171	0
3B	5116	6/23/99	55° 30.28'	156° 39.25' W	97	7.0	3,508	426	15	104	10
3B	5117	8/22/99	55° 30.12'	156° 55.28' W	47	7.0	3,954	895	0	0	0
3B	5118	8/22/99	55° 29.91'	157° 13.15' W	47	7.0	3,648	578	0	15	0
3B	5119	8/31/99	55° 30.02'	157° 31.80' W	51	7.0	855	380	0	141	0
3B	5120	8/29/99	55° 29.97'	157° 48.25' W	52	7.0	3,165	373	0	60	0
3B	5121	8/28/99	55° 29.90'	158° 06.16' W	69	7.0	2,698	410	5	45	0
3B	5122	8/28/99	55° 29.94'	158° 24.18' W	79	7.0	3,726	313	10	75	0
3B	5123	8/23/99	55° 40.13'	156° 55.01' W	47	7.0	2,892	489	0	55	0
3B	5124	8/22/99	55° 40.18'	157° 13.96' W	47	7.0	1,880	1501	0	0	0
3B	5125	8/31/99	55° 40.00'	157° 30.05' W	54	7.0	1,799	360	0	20	0
3B	5126	8/29/99	55° 39.93'	157° 48.19' W	72	7.0	1,800	278	10	129	0
3B	5127	8/29/99	55° 39.92'	158° 06.05' W	69	7.0	1,667	169	30	20	0
3B	5128	8/30/99	55° 40.10'	158° 23.00' W	71	7.0	2,083	150	20	5	0
3B	5129	8/30/99	55° 40.16'	158° 40.74' W	50	7.0	1,723	1016	0	0	0
3B	5130	8/23/99	55° 50.06'	157° 12.26' W	55	7.0	3,333	830	0	5	0
3B	5131	7/31/99	55° 50.01'	157° 30.07' W	55	7.0	1,406	261	15	90	0
3B	5132	7/30/99	55° 50.19'	157° 48.25' W	62	7.0	4,191	1129	0	0	0
3B	5133	7/30/99	55° 50.06'	158° 05.42' W	43	7.0	7,255	952	0	0	0
3B	5134	8/30/99	55° 50.21'	158° 23.04' W	60	7.0	4,158	784	10	0	0
3B	5135	7/31/99	56° 00.11'	157° 29.20' W	67	7.0	2,523	610	0	30	0
3B	5136	7/31/99	56° 00.04'	157° 47.35' W	67	7.0	2,837	707	0	30	0
3B	5137	7/30/99	56° 00.16'	158° 05.29' W	48	7.0	2,009	540	0	0	0
3B	5138	7/29/99	56° 10.00'	157° 47.60' W	95	7.0	6,434	75	0	16	0
3B	5139	7/29/99	56° 10.07'	158° 05.25' W	45	7.0	4,129	370	0	0	0
3B	5140	7/29/99	56° 19.95'	158° 03.80' W	36	7.0	5,859	219	0	10	0
3B	5141	6/19/99	54° 30.07'	159° 00.44' W	149	7.0	1,696	99	110	5	0
3B	5142	6/18/99	54° 30.01'	159° 17.16' W	84	7.1	4,192	315	0	213	0
3B	5143	6/18/99	54° 30.08'	159° 34.03' W	64	7.1	8,275	487	0	35	0
3B	5144	6/17/99	54° 29.92'	159° 51.09' W	67	7.1	2,273	745	0	35	0
3B	5145	6/10/99	54° 30.19'	160° 08.79' W	66	7.0	2,765	717	0	151	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.

2/17/00

## 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**		
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish
3B	5146	6/20/99	54° 40.27'	158° 25.31' W	123	7.0	3,212	419	30	66	0
3B	5147	6/20/99	54° 40.14'	158° 41.95' W	57	7.0	6,990	775	0	20	0
3B	5148	6/19/99	54° 39.95'	159° 00.01' W	50	7.1	9,638	665	0	10	0
3B	5149	6/18/99	54° 39.98'	159° 17.06' W	41	7.0	6,405	954	0	45	0
3B	5150	6/17/99	54° 40.05'	159° 34.11' W	33	7.0	3,666	811	0	31	0
3B	5151	6/17/99	54° 39.94'	159° 51.95' W	44	7.0	10,027	654	0	30	0
3B	5152	6/09/99	54° 40.09'	160° 08.53' W	50	7.1	4,667	1490	0	5	0
3B	5153	6/22/99	54° 49.92'	158° 07.18' W	55	7.0	4,505	1027	0	40	0
3B	5154	6/21/99	54° 50.13'	158° 25.23' W	106	7.0	2,114	125	15	151	0
3B	5155	6/21/99	54° 50.21'	158° 42.52' W	54	7.0	4,496	1725	0	0	0
3B	5156	6/21/99	54° 50.09'	159° 00.40' W	39	7.0	2,863	1114	0	0	0
3B	5157	6/09/99	54° 49.99'	159° 52.02' W	31	7.0	3,380	338	0	191	0
3B	5158	6/09/99	54° 49.99'	160° 09.03' W	38	7.1	3,244	414	0	65	0
3B	5159	6/14/99	54° 50.02'	160° 26.16' W	47	7.0	3,018	581	0	149	0
3B	5160	6/03/99	55° 00.21'	158° 24.99' W	113	7.1	6,419	308	25	101	0
3B	5161	6/03/99	55° 00.11'	158° 42.02' W	71	7.0	3,250	648	0	136	0
3B	5162	6/02/99	54° 59.99'	158° 59.08' W	47	7.0	2,734	408	0	141	0
3B	5163	6/01/99	55° 00.03'	159° 16.97' W	21	7.0	2,656	51	0	196	0
3B	5164	6/14/99	54° 59.97'	160° 27.16' W	60	7.0	3,333	1017	0	120	0
3B	5165	6/14/99	55° 00.12'	160° 44.01' W	47	7.0	4,407	513	0	45	0
3B	5166	6/03/99	55° 10.09'	158° 24.33' W	100	7.0	2,491	237	10	70	0
3B	5167	6/02/99	55° 10.06'	158° 42.07' W	114	7.0	3,260	137	15	50	0
3B	5168	6/02/99	55° 09.85'	158° 59.20' W	73	7.0	2,535	913	0	120	0
3B	5169	6/01/99	55° 10.04'	159° 16.98' W	39	7.0	2,122	148	0	137	5
3B	5170	6/04/99	55° 20.12'	158° 41.96' W	107	7.0	3,611	96	10	106	0
3B	5171	6/04/99	55° 19.98'	158° 59.02' W	102	7.0	3,823	168	10	25	0
3B	5172	5/31/99	55° 19.80'	159° 16.94' W	97	7.0	3,405	186	25	35	0
3B	5173	5/31/99	55° 19.84'	159° 34.42' W	76	7.0	2,540	298	0	110	0
3B	5174	5/30/99	55° 20.01'	159° 51.88' W	48	7.0	2,519	512	0	201	0
3B	5175	6/04/99	55° 30.06'	158° 40.88' W	88	7.0	2,303	106	25	56	0
3B	5176	6/05/99	55° 29.72'	158° 58.73' W	58	7.0	2,783	359	0	50	0
3B	5177	6/05/99	55° 29.67'	159° 17.15' W	68	7.0	2,704	752	0	70	0
3B	5178	5/31/99	55° 29.95'	159° 34.20' W	92	7.0	2,473	269	0	120	0
3B	5179	5/30/99	55° 29.81'	159° 51.80' W	92	7.0	3,921	571	0	79	0
3B	5181	6/05/99	55° 40.16'	158° 59.09' W	84	7.0	2,736	285	0	10	0
3B	5182	6/06/99	55° 39.99'	159° 17.06' W	52	7.0	2,877	483	0	73	0
3B	5183	5/30/99	55° 40.04'	159° 51.98' W	70	7.0	3,727	443	0	169	0
3B	5184	6/06/99	55° 49.96'	158° 59.02' W	69	7.0	2,723	271	0	10	0
3B	5185	6/06/99	55° 50.07'	159° 17.14' W	32	7.0	1,348	393	0	118	0
3B	5186	7/10/99	54° 00.02'	163° 15.05' W	47	7.0	2,428	499	0	193	5
3B	5187	7/10/99	54° 00.04'	163° 32.11' W	52	7.0	819	414	0	288	0
3B	5188	7/10/99	54° 00.05'	163° 48.95' W	51	7.0	1,424	722	0	216	0
3B	5189	7/26/99	54° 10.00'	161° 33.92' W	77	7.0	2,681	463	20	55	0
3B	5190	8/09/99	54° 10.00'	161° 51.15' W	45	7.0	9,845	113	0	40	5
3B	5191	7/15/99	54° 10.04'	162° 08.21' W	47	6.8	7,194	823	0	24	5
3B	5192	7/15/99	54° 10.06'	162° 25.06' W	94	7.0	697	266	59	89	5
3B	5193	7/11/99	54° 10.01'	163° 49.94' W	50	7.0	2,624	602	0	158	0
3B	5194	6/10/99	54° 20.04'	160° 08.22' W	169	7.0	2,222	157	100	0	5
3B	5195	6/10/99	54° 20.04'	160° 25.89' W	71	7.0	4,007	704	0	60	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.

2/17/00

# 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**		
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish
3B	5196	6/11/99	54° 20.08'	160° 43.19' W	58	7.0	4,181	705	0	157	0
3B	5197	7/25/99	54° 20.05'	161° 00.19' W	69	7.0	2,678	1145	0	60	0
3B	5198	7/26/99	54° 20.05'	161° 17.29' W	59	7.0	6,037	517	0	60	0
3B	5199	7/26/99	54° 20.06'	161° 34.23' W	78	7.0	4,283	376	0	40	0
3B	5200	8/09/99	54° 20.01'	161° 51.21' W	38	7.0	5,623	281	0	15	0
3B	5201	7/15/99	54° 20.02'	162° 09.21' W	31	7.0	10,356	576	0	0	0
3B	5202	7/14/99	54° 19.93'	163° 16.93' W	25	7.0	8,474	915	0	0	0
3B	5203	7/14/99	54° 19.98'	163° 33.95' W	60	7.0	2,222	409	0	211	0
3B	5204	7/11/99	54° 19.99'	163° 50.99' W	62	7.0	1,950	462	0	261	0
3B	5205	7/11/99	54° 20.12'	164° 09.04' W	51	7.0	1,527	711	0	239	0
3B	5206	6/11/99	54° 30.09'	160° 26.12' W	80	7.1	2,606	586	0	35	0
3B	5207	6/11/99	54° 30.00'	160° 43.08' W	76	7.0	1,503	242	0	10	0
3B	5208	7/25/99	54° 30.01'	161° 00.02' W	71	7.0	1,845	544	5	110	0
3B	5209	7/25/99	54° 29.99'	161° 18.18' W	62	7.0	3,438	499	10	90	0
3B	5210	8/10/99	54° 29.98'	161° 35.05' W	38	7.0	7,072	662	0	20	0
3B	5211	7/27/99	54° 30.06'	161° 52.10' W	77	7.0	3,994	452	0	51	0
3B	5212	7/27/99	54° 30.03'	162° 09.07' W	77	7.0	3,406	329	0	75	0
3B	5213	7/27/99	54° 30.04'	162° 26.25' W	79	7.0	3,652	395	0	115	0
3B	5214	7/14/99	54° 30.05'	163° 17.91' W	43	7.0	3,668	645	0	50	0
3B	5215	7/12/99	54° 30.05'	163° 35.06' W	54	7.0	3,576	1060	0	87	0
3B	5216	7/12/99	54° 30.09'	163° 53.08' W	48	7.0	2,188	735	0	175	0
3B	5217	7/12/99	54° 30.05'	164° 10.22' W	51	7.0	1,314	618	0	306	0
3B	5218	6/12/99	54° 40.03'	160° 26.10' W	56	7.1	3,199	1105	0	162	0
3B	5219	6/12/99	54° 39.86'	160° 43.12' W	52	7.0	3,697	1479	0	0	0
3B	5220	7/16/99	54° 40.00'	161° 01.09' W	51	7.0	3,777	862	0	0	0
3B	5221	8/11/99	54° 40.05'	161° 18.05' W	73	7.0	1,577	218	0	130	0
3B	5222	8/10/99	54° 39.95'	161° 35.19' W	34	6.5	3,741	1257	0	0	0
3B	5223	8/10/99	54° 39.96'	161° 53.28' W	40	7.0	5,321	267	0	60	0
3B	5224	7/13/99	54° 40.05'	162° 44.22' W	44	7.0	1,239	465	0	10	0
3B	5225	6/12/99	54° 49.98'	160° 44.12' W	55	7.0	2,665	771	0	45	0
3B	5226	7/16/99	54° 50.04'	161° 01.24' W	56	7.0	2,079	538	0	10	0
3B	5227	8/08/99	54° 50.05'	161° 18.05' W	60	7.0	2,642	522	0	10	0
3B	5228	8/08/99	54° 50.03'	161° 36.06' W	38	7.0	5,025	353	0	5	5
3B	5229	7/13/99	54° 50.04'	162° 44.91' W	28	7.0	1,964	399	0	5	0
3B	5230	7/13/99	54° 50.02'	163° 02.90' W	46	7.0	2,559	798	0	137	0
3B	5231	6/13/99	54° 59.86'	161° 01.02' W	51	7.0	1,866	506	0	5	0
3B	5232	8/08/99	55° 00.03'	161° 19.12' W	43	7.0	5,327	164	0	141	5
3B	5233	6/13/99	55° 09.94'	161° 02.13' W	51	7.0	4,576	487	0	201	0
3B	5234	7/16/99	55° 19.83'	156° 02.94' W	183	7.0	1,049	19	124	0	25
3B	5235	7/16/99	55° 19.94'	156° 20.98' W	95	7.0	5,220	162	10	35	0
3B	5236	7/15/99	55° 29.84'	155° 45.02' W	119	7.0	568	42	80	45	0
3B	5237	7/16/99	55° 30.05'	156° 02.97' W	111	5.9	1,023	134	24	53	0
3B	5238	7/17/99	55° 30.12'	156° 19.97' W	118	7.0	2,619	111	65	50	0
3B	5239	7/15/99	55° 39.92'	155° 26.00' W	105	6.8	562	298	15	97	5
3B	5240	7/15/99	55° 39.95'	155° 44.00' W	67	6.7	2,951	368	0	82	0
3B	5241	7/17/99	55° 39.92'	156° 01.96' W	125	6.9	2,061	76	59	49	0
3B	5242	7/17/99	55° 39.94'	156° 18.94' W	140	7.0	92	25	65	40	0
3B	5243	7/25/99	55° 39.87'	156° 36.99' W	131	6.9	1,754	154	89	5	0
3B	5244	7/14/99	55° 49.91'	155° 07.00' W	66	6.9	1,359	404	0	69	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.

# 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**			
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish	
3B	5245	Unsuccessful Station										
3B	5246	7/18/99	55° 50.01'	156° 00.96' W	56	7.0	8,323	537	0	80	0	
3B	5247	7/18/99	55° 50.12'	156° 19.00' W	132	6.7	366	0	81	5	0	
3B	5248	7/25/99	55° 49.81'	156° 35.95' W	125	7.0	396	57	80	0	0	
3B	5249	7/25/99	55° 49.97'	156° 53.95' W	71	6.8	1,288	527	0	68	0	
3B	5250	8/08/99	55° 60.00'	155° 42.00' W	25	6.8	814	1739	0	5	0	
3B	5251	7/18/99	55° 59.95'	156° 00.00' W	42	7.0	1,519	230	0	89	0	
3B	5252	7/19/99	55° 59.95'	156° 17.99' W	117	7.0	1,507	44	114	55	0	
3B	5253	7/19/99	55° 59.89'	156° 35.99' W	107	7.0	1,946	260	15	61	0	
3B	5254	7/26/99	55° 59.97'	157° 11.00' W	60	6.9	2,756	665	0	25	0	
3B	5255	Unsuccessful Station										
3B	5256	7/19/99	56° 10.00'	156° 17.00' W	127	7.0	2,245	40	60	129	0	
3B	5257	8/07/99	56° 09.93'	156° 35.00' W	101	7.0	2,058	157	0	35	0	
3B	5258	8/06/99	56° 10.07'	156° 52.98' W	46	7.0	2,089	699	0	0	0	
3B	5259	7/26/99	56° 09.93'	157° 10.99' W	56	6.9	3,896	675	0	30	0	
3B	5260	7/26/99	56° 10.00'	157° 28.95' W	83	7.0	5,076	165	0	30	0	
3B	5261	8/11/99	56° 19.98'	155° 57.99' W	113	6.7	1,591	84	58	0	0	
3B	5262	8/07/99	56° 20.00'	156° 16.00' W	153	7.0	1,248	39	101	0	0	
3B	5263	Unsuccessful Station										
3B	5264	8/06/99	56° 20.09'	156° 51.99' W	67	7.0	2,893	863	0	75	0	
3B	5265	8/06/99	56° 19.98'	157° 10.00' W	92	6.9	2,542	112	0	84	0	
3B	5266	7/27/99	56° 19.92'	157° 28.00' W	36	6.9	4,567	705	0	0	0	
3B	5267	7/27/99	56° 19.91'	157° 46.00' W	38	7.0	3,558	698	0	0	0	
3B	5268	8/11/99	56° 29.91'	155° 56.86' W	134	7.1	1,220	30	48	36	0	
3B	5269	8/11/99	56° 29.86'	156° 15.00' W	141	6.9	1,745	26	74	74	0	
3B	5270	8/05/99	56° 30.11'	156° 32.99' W	106	7.0	4,108	218	5	15	0	
3B	5271	8/05/99	56° 29.93'	156° 51.00' W	51	7.0	2,997	929	0	5	0	
3B	5272	7/27/99	56° 29.96'	157° 27.97' W	82	7.0	6,027	180	0	30	0	
3B	5273	8/17/99	56° 40.02'	156° 14.00' W	116	7.0	3,282	74	65	15	0	
3B	5274	8/05/99	56° 40.05'	156° 31.98' W	85	6.9	3,680	166	0	93	0	
3B	5275	7/29/99	56° 39.99'	156° 50.49' W	51	7.0	4,247	484	0	30	0	
3B	5276	7/29/99	56° 40.00'	157° 09.02' W	74	7.0	2,445	151	0	69	0	
3B	5277	8/17/99	56° 50.05'	156° 12.99' W	107	6.9	3,951	324	15	49	0	
3B	5278	8/17/99	56° 50.04'	156° 32.03' W	51	6.8	3,535	546	0	44	0	
3B	5279	7/29/99	56° 49.99'	156° 50.00' W	59	7.0	5,710	324	0	64	0	
3B	5280	7/30/99	56° 59.95'	156° 13.00' W	85	7.0	3,349	175	0	60	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.

## 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**		
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish
4A	6001	8/29/99	52° 29.99'	169° 40.71' W	133	6.7	5,054	47	34	0	0
4A	6002	8/30/99	52° 30.03'	169° 58.11' W	131	6.9	6,001	63	0	30	0
4A	6003	9/01/99	52° 30.04'	170° 45.84' W	99	6.7	3,356	331	0	0	0
4A	6004	8/28/99	52° 40.03'	169° 09.05' W	59	6.8	5,567	384	0	24	5
4A	6005	8/29/99	52° 39.97'	169° 24.94' W	104	6.7	7,434	206	0	39	0
4A	6006	Unsuccessful Station									
4A	6007	8/30/99	52° 39.97'	169° 58.14' W	163	6.7	8,314	11	5	19	19
4A	6008	9/01/99	52° 39.99'	170° 48.03' W	44	6.8	267	236	0	0	0
4A	6009	8/20/99	52° 42.02'	171° 21.46' W	107	6.6	2,995	162	0	0	0
4A	6010	8/28/99	52° 49.95'	168° 35.97' W	57	6.7	4,037	380	0	63	0
4A	6011	8/28/99	52° 50.03'	168° 52.19' W	32	7.0	5,327	409	0	0	0
4A	6012	8/30/99	52° 50.02'	170° 16.73' W	96	6.6	6,120	143	0	5	5
4A	6013	8/20/99	52° 49.93'	171° 21.09' W	98	6.9	5,473	406	0	0	0
4A	6014	Unsuccessful Station									
4A	6015	9/03/99	52° 59.99'	167° 28.97' W	102	6.8	75	158	54	73	0
4A	6016	9/03/99	52° 59.98'	167° 46.08' W	56	6.5	889	344	0	89	0
4A	6017	9/04/99	52° 59.98'	168° 02.02' W	65	7.0	1,051	514	0	104	0
4A	6018	9/04/99	52° 59.98'	168° 18.98' W	47	6.9	968	374	0	5	0
4A	6019	8/18/99	52° 59.98'	169° 09.03' W	155	6.8	4,144	91	15	59	10
4A	6020	8/19/99	53° 00.02'	169° 59.14' W	65	6.7	3,396	428	0	0	0
4A	6021	8/19/99	52° 59.91'	170° 15.34' W	102	6.7	11,369	64	0	0	0
4A	6022	8/24/99	53° 10.00'	166° 56.05' W	114	6.8	67	225	58	83	0
4A	6023	8/25/99	53° 09.98'	167° 11.91' W	61	6.9	2,029	498	0	133	0
4A	6024	8/25/99	53° 09.99'	167° 28.95' W	50	6.9	1,452	387	0	34	0
4A	6025	9/03/99	53° 10.00'	167° 46.03' W	43	6.6	1,191	377	0	24	5
4A	6026	9/04/99	53° 10.02'	168° 02.13' W	36	6.8	56	179	0	49	0
4A	6027	8/18/99	53° 10.07'	168° 52.01' W	147	6.5	4,218	39	0	19	9
4A	6028	8/19/99	53° 10.01'	169° 42.30' W	173	6.9	3,745	22	10	25	59
4A	6029	8/23/99	53° 19.96'	166° 05.27' W	262	6.7	0	0	29	0	5
4A	6030	8/23/99	53° 19.97'	166° 21.88' W	138	6.7	634	389	43	5	5
4A	6031	8/24/99	53° 20.04'	166° 37.92' W	75	6.9	161	154	30	162	0
4A	6032	8/24/99	53° 19.95'	166° 55.02' W	52	6.8	2,160	839	0	25	0
4A	6033	8/25/99	53° 19.99'	167° 12.04' W	39	6.8	1,059	348	0	34	10
4A	6034	8/18/99	53° 20.00'	168° 35.94' W	45	6.6	3,390	217	0	24	0
4A	6035	8/11/99	53° 29.93'	165° 48.02' W	122	6.8	110	62	84	17	0
4A	6036	8/23/99	53° 30.01'	166° 03.93' W	74	6.6	453	247	0	160	0
4A	6037	8/23/99	53° 30.06'	166° 21.04' W	64	6.6	1,367	407	0	19	0
4A	6038	9/05/99	53° 30.05'	167° 28.03' W	44	7.0	1,131	83	0	5	0
4A	6039	8/22/99	53° 40.05'	164° 38.21' W	195	6.7	256	25	62	0	14
4A	6040	Unsuccessful Station									
4A	6041	Unsuccessful Station									
4A	6042	8/11/99	53° 40.05'	165° 29.99' W	91	6.6	437	62	61	24	0
4A	6043	8/11/99	53° 39.95'	165° 46.94' W	70	6.7	2,469	1236	0	72	0
4A	6044	8/10/99	53° 39.91'	166° 03.95' W	47	6.7	2,681	1040	0	0	0
4A	6045	9/05/99	53° 39.91'	167° 11.00' W	40	6.7	1,492	32	14	24	5
4A	6046	9/05/99	53° 40.00'	167° 28.16' W	180	6.8	599	11	5	5	29
4A	6047	8/15/99	53° 50.08'	163° 47.98' W	50	6.7	4,334	365	0	88	24
4A	6048	8/15/99	53° 50.07'	164° 04.99' W	44	6.6	6,596	448	0	5	5
4A	6049	8/14/99	53° 50.00'	164° 21.96' W	48	6.7	3,663	905	0	72	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.

## 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**		
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish
4A	6050	8/14/99	53° 49.99'	164° 38.98' W	56	6.8	1,499	447	0	127	0
4A	6051	8/13/99	53° 49.97'	164° 56.02' W	62	6.7	547	526	0	82	0
4A	6052	8/13/99	53° 50.02'	165° 12.00' W	62	6.9	925	475	15	152	0
4A	6053	8/12/99	53° 50.06'	165° 28.93' W	51	6.6	665	149	0	24	0
4A	6054	8/12/99	53° 49.94'	165° 45.95' W	42	6.7	546	997	0	57	0
4A	6055	8/10/99	53° 49.78'	166° 03.04' W	37	6.6	2,147	553	0	0	0
4A	6056	8/10/99	53° 50.12'	166° 20.02' W	100	6.7	1,085	81	0	76	0
4A	6057	8/15/99	54° 00.02'	164° 05.99' W	40	6.8	3,680	275	0	20	5
4A	6058	8/14/99	54° 00.00'	164° 23.04' W	56	6.7	947	459	0	111	0
4A	6059	8/14/99	54° 00.06'	164° 40.00' W	54	6.7	1,373	487	0	24	0
4A	6060	8/13/99	53° 59.90'	164° 57.02' W	44	6.6	232	399	0	99	0
4A	6061	8/13/99	54° 00.05'	165° 11.95' W	44	6.8	4,260	415	0	0	0
4A	6062	8/12/99	53° 59.98'	165° 28.95' W	40	6.7	2,348	292	0	0	0
4A	6063	Unsuccessful Station									
4A	6064	8/16/99	54° 10.02'	164° 07.09' W	40	6.7	607	46	0	119	0
4A	6065	8/16/99	54° 10.02'	164° 25.23' W	46	6.9	369	223	0	39	0
4A	6066	8/16/99	54° 10.03'	164° 42.09' W	40	6.7	2,327	223	0	0	0
4A	6067	8/28/99	51° 09.25'	179° 00.27' W	180	7.2	446	38	5	0	10
4A	6068	Unsuccessful Station									

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



## 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**		
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish
4B	6069	8/22/99	51° 30.16'	176° 51.95' W	173	6.8	738	0	24	38	62
4B	6070	8/30/99	51° 30.09'	178° 29.11' W	104	7.1	1,756	19	15	15	0
4B	6071	8/28/99	51° 30.24'	178° 44.84' W	83	6.7	618	215	0	14	0
4B	6072	8/21/99	51° 40.76'	175° 47.97' W	225	7.1	593	21	47	0	41
4B	6073	8/21/99	51° 39.80'	176° 04.20' W	165	7.1	1,331	52	0	5	10
4B	6074	8/23/99	51° 40.05'	176° 19.90' W	79	7.0	435	180	0	10	0
4B	6075	8/22/99	51° 39.88'	177° 09.03' W	66	7.2	3,973	189	0	61	10
4B	6076	8/22/99	51° 40.00'	177° 24.96' W	73	7.2	1,099	222	0	113	5
4B	6077	8/30/99	51° 43.34'	178° 12.90' W	36	7.2	2,456	87	0	82	0
4B	6078	8/30/99	51° 38.28'	178° 24.95' W	159	7.2	641	38	10	30	0
4B	6079	6/25/99	51° 49.94'	174° 26.07' W	162	6.7	1,201	112	25	15	55
4B	6080	6/25/99	51° 49.98'	174° 43.08' W	116	6.7	2,811	630	0	11	0
4B	6081	6/25/99	51° 49.56'	174° 59.86' W	114	6.7	3,763	774	0	24	0
4B	6082	6/26/99	51° 49.96'	175° 16.16' W	109	7.0	1,256	181	0	15	0
4B	6083	6/26/99	51° 49.34'	175° 31.88' W	103	6.8	2,995	589	0	15	0
4B	6084	6/26/99	51° 49.90'	175° 48.12' W	68	7.0	750	818	0	70	0
4B	6085	6/24/99	52° 00.34'	173° 22.48' W	34	7.0	2,084	222	0	225	0
4B	6086	6/24/99	52° 00.18'	173° 37.65' W	42	6.9	1,382	211	0	105	0
4B	6087	6/24/99	52° 00.55'	173° 53.93' W	36	6.9	1,955	229	0	113	0
4B	6088	8/20/99	52° 00.27'	174° 11.05' W	57	7.1	2,418	413	0	46	0
4B	6089	8/20/99	51° 59.98'	174° 26.46' W	39	7.0	2,210	213	0	71	0
4B	6090	8/20/99	52° 00.13'	174° 58.70' W	36	7.2	1,451	180	0	98	5
4B	6091	6/15/99	52° 00.65'	176° 21.25' W	86	6.5	2,462	355	0	83	5
4B	6092	8/27/99	51° 59.81'	278° 86.95' W	48	7.0	831	111	0	0	0
4B	6093	6/22/99	52° 10.38'	172° 49.50' W	80	6.7	3,364	87	0	172	0
4B	6094	6/22/99	52° 10.41'	173° 03.97' W	46	7.0	3,601	334	0	229	0
4B	6095	6/22/99	52° 11.70'	173° 20.86' W	51	6.9	2,019	289	0	25	0
4B	6096	6/23/99	52° 10.29'	173° 53.35' W	54	6.9	728	343	0	101	0
4B	6097	6/29/99	52° 09.94'	174° 43.23' W	60	7.0	1,108	219	0	135	0
4B	6098	6/29/99	52° 10.00'	174° 58.85' W	64	7.0	1,523	170	0	0	0
4B	6099	6/29/99	52° 10.25'	175° 14.80' W	132	7.0	488	70	5	69	0
4B	6100	6/27/99	52° 09.86'	175° 46.78' W	195	6.7	1,435	30	117	33	28
4B	6101	8/26/99	52° 09.98'	178° 88.50' E	150	7.2	956	0	0	0	0
4B	6102	Not Fished in 1999									
4B	6103	8/26/99	52° 09.59'	179° 43.83' E	50	7.3	789	10	0	0	0
4B	6104	8/26/99	52° 09.84'	179° 58.03' W	55	6.5	374	8	0	5	0
4B	6105	6/23/99	52° 19.65'	173° 54.00' W	59	6.8	332	126	0	10	0
4B	6106	8/25/99	52° 20.05'	179° 41.00' W	146	7.0	493	0	0	0	0
4B	6107	Not Fished in 1999									
4B	6108	Not Fished in 1999									
4B	6109	8/18/99	52° 29.63'	173° 36.36' W	196	7.1	621	0	34	10	5
4B	6110	8/25/99	52° 29.93'	179° 41.05' W	56	7.2	454	9	0	0	0
4B	6111	Not Fished in 1999									
4B	6112	8/25/99	52° 39.81'	179° 25.13' W	68	7.1	57	0	0	5	5
4B	6113	7/30/99	51° 20.14'	178° 67.09' E	49	7.0	615	0	0	111	16
4B	6114	7/30/99	51° 29.86'	177° 95.97' E	122	6.9	238	17	0	44	5
4B	6115	7/30/99	51° 29.82'	178° 52.45' E	43	7.0	805	13	0	75	0
4B	6116	7/26/99	51° 40.11'	174° 98.84' E	91	7.2	982	28	0	5	5
4B	6117	Unsuccessful Station									

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

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

# 1999 IPHC Stock Assessment Survey

Reg. Area	Station Number	Date Fished	North		Depth (F)	Skates Hauled*	Halibut (pounds)		Bycatch (numbers)**			
			Latitude	Longitude			Legal	Sublegal	Sablefish	P. Cod	Rockfish	
4B	6118	Unsuccessful Station										
4B	6119	7/26/99	51° 50.19'	174° 99.51' E	74	7.0	447	11	0	20	24	
4B	6120	7/26/99	51° 50.10'	175° 56.14' E	78	7.0	624	0	0	0	0	
4B	6121	7/25/99	51° 50.00'	176° 92.99' E	63	6.9	1,961	8	0	141	10	
4B	6122	7/25/99	51° 50.23'	177° 49.23' E	58	6.7	1,121	8	0	183	10	
4B	6123	7/29/99	51° 49.65'	177° 80.56' E	85	7.0	1,039	61	0	144	0	
4B	6124	7/26/99	52° 00.05'	175° 56.53' E	70	7.0	1,140	0	0	20	35	
4B	6125	7/28/99	52° 00.03'	176° 45.02' E	71	7.0	1,639	66	0	371	0	
4B	6126	Unsuccessful Station										
4B	6127	7/25/99	51° 59.98'	177° 49.82' E	68	6.7	1,205	46	0	220	0	
4B	6128	7/29/99	52° 00.19'	177° 82.24' E	59	7.0	19	0	0	89	0	
4B	6129	6/08/99	52° 09.47'	173° 45.88' E	93	6.7	44	115	0	110	0	
4B	6130	7/27/99	52° 10.02'	174° 67.05' E	96	6.7	806	0	5	48	10	
4B	6131	7/27/99	52° 10.04'	174° 83.01' E	134	7.2	453	6	0	54	54	
4B	6132	6/08/99	52° 19.59'	172° 89.18' E	44	7.0	1,617	6	0	276	0	
4B	6133	6/08/99	52° 19.90'	173° 44.10' E	34	6.5	150	60	0	210	0	
4B	6134	6/11/99	52° 19.77'	173° 61.55' E	75	6.7	2,140	41	0	68	0	
4B	6135	6/11/99	52° 20.76'	173° 78.59' E	94	7.0	2,201	30	0	335	0	
4B	6137	6/09/99	52° 30.34'	172° 56.66' E	109	6.6	1,698	387	0	119	0	
4B	6138	7/17/99	52° 29.92'	172° 71.92' E	64	7.1	1,445	12	0	219	0	
4B	6139	6/07/99	52° 30.15'	172° 89.00' E	77	6.7	627	13	0	249	0	
4B	6140	6/11/99	52° 29.50'	173° 61.28' E	66	7.0	1,420	0	0	65	0	
4B	6141	6/12/99	52° 29.79'	173° 77.84' E	65	6.7	1,675	51	0	29	0	
4B	6142	6/12/99	52° 30.13'	173° 94.27' E	168	7.0	1,776	0	0	10	5	
4B	6143	6/12/99	52° 29.86'	174° 53.00' E	120	7.0	1,726	36	0	121	0	
4B	6144	6/09/99	52° 40.30'	172° 55.13' E	66	6.8	2,338	11	0	68	0	
4B	6145	7/17/99	52° 40.13'	172° 72.02' E	53	8.1	4,394	174	0	179	0	
4B	6146	6/07/99	52° 49.95'	171° 82.88' E	40	6.5	1,757	34	0	302	0	
4B	6147	6/07/99	52° 40.32'	173° 45.15' E	52	6.1	1,330	39	0	139	0	
4B	6148	6/10/99	52° 40.35'	173° 61.28' E	38	7.0	870	71	0	30	0	
4B	6149	6/10/99	52° 40.50'	173° 77.80' E	62	7.1	562	36	0	79	0	
4B	6150	Unsuccessful Station										
4B	6151	6/06/99	52° 49.95'	171° 82.88' E	156	6.6	1,585	32	0	44	6	
4B	6152	6/05/99	52° 50.45'	171° 97.24' E	43	7.0	4,018	141	0	178	0	
4B	6153	6/10/99	52° 50.45'	173° 45.19' E	87	6.8	2,931	103	0	170	0	
4B	6154	7/15/99	52° 59.08'	170° 57.42' E	178	6.8	202	0	19	0	28	
4B	6155	6/05/99	52° 59.74'	171° 80.94' E	151	6.9	3,083	143	0	173	20	
4B	6156	7/15/99	53° 09.50'	170° 57.06' E	65	7.1	378	0	0	0	0	
4B	6157	7/15/99	53° 19.55'	169° 99.30' E	148	7.2	0	0	10	0	61	

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