

# 2004 IPHC Stock Assessment Survey

## Area 3A

Station	Date Fished	North Latitude	West Longitude	Depth (F)	Skates Set <sup>1</sup>	Legal Halibut		Sublegal Halibut		Bycatch (numbers) <sup>3</sup>		
						Lbs. <sup>2</sup>	#s	Lbs. <sup>2</sup>	#s	Sablefish	P. Cod	Rockfish
4001	8/13	57° 50.00'	137° 13.18'	162	8.0	331	8	0	0	336	0	104
4002	8/12	58° 00.00'	136° 53.98'	224	8.0	47	2	0	0	272	0	8
4003	8/12	58° 00.00'	137° 11.95'	112	8.0	1,077	47	151	18	184	0	0
4004	8/11	58° 00.00'	137° 31.13'	87	8.0	3,309	107	401	50	8	0	104
4005	6/23	58° 00.00'	137° 50.44'	99	8.0	1,424	64	425	58	72	0	48
4006	8/12	58° 10.00'	136° 54.81'	105	8.0	1,662	60	43	6	248	0	40
4007	8/11	58° 10.00'	137° 11.06'	65	8.0	1,295	41	79	10	0	0	16
4008	8/11	58° 10.00'	137° 30.16'	77	8.0	960	32	217	27	8	0	0
4009	6/23	58° 10.00'	137° 49.56'	84	8.0	1,129	49	15	2	0	0	0
4010	6/23	58° 10.00'	138° 07.62'	81	8.0	706	40	181	22	0	0	0
4011	6/12	58° 10.00'	138° 27.27'	87	8.0	2,552	83	138	17	0	0	40
4012	6/12	58° 10.00'	138° 46.20'	98	8.0	3,266	161	844	100	0	0	24
4013	6/8	58° 20.00'	137° 09.96'	91	8.0	0	0	0	0	0	0	0
4014	6/8	58° 20.00'	137° 29.77'	102	8.0	26	1	0	0	0	0	0
4015	8/10	58° 20.00'	137° 48.04'	93	8.0	41	2	14	2	0	0	0
4016	8/10	58° 20.00'	138° 07.17'	70	8.0	404	24	99	12	0	0	0
4017	6/12	58° 20.00'	138° 26.24'	71	8.0	218	5	0	0	0	0	0
4018	6/10	58° 20.00'	138° 46.36'	62	8.0	1,558	63	611	80	0	0	16
4019	6/10	58° 20.00'	139° 05.30'	62	8.0	2,096	109	531	61	0	0	120
4020	6/11	58° 20.00'	139° 23.46'	142	8.0	3,625	122	17	2	128	0	16
4021	6/8	58° 30.00'	137° 28.02'	41	8.0	97	3	32	6	0	0	0
4022	8/10	58° 30.00'	137° 46.94'	85	8.0	0	0	0	0	0	0	0
4023	6/13	58° 30.00'	138° 07.14'	72	8.0	147	6	0	0	0	0	8
4024	6/13	58° 30.00'	138° 26.05'	62	8.0	1,625	77	318	38	0	0	8
4025	6/10	58° 30.00'	138° 44.92'	51	8.0	1,261	32	58	7	0	0	16
4026	8/9	58° 30.00'	139° 03.99'	56	8.0	2,205	81	761	99	0	0	24
4027	6/11	58° 30.00'	139° 22.84'	88	8.0	5,225	197	788	99	8	0	16
4028	6/11	58° 30.00'	139° 41.82'	136	8.0	1,253	48	94	11	218	0	0
4029	6/13	58° 40.00'	138° 06.49'	49	8.0	254	3	0	0	0	0	0
4030	6/9	58° 40.00'	138° 24.87'	72	8.0	0	0	0	0	0	0	0
4031	8/9	58° 40.00'	138° 43.98'	54	8.0	3,634	82	593	85	0	0	120
4032	8/9	58° 40.06'	139° 04.03'	81	8.0	4,360	279	1,238	141	0	0	0
4033	6/22	58° 40.00'	139° 22.93'	136	8.0	1,460	47	39	5	232	0	8
4034	6/21	58° 40.00'	139° 41.75'	101	8.0	1,503	69	117	14	16	0	0
4035	6/21	58° 40.00'	140° 00.66'	103	8.0	6,951	184	738	91	120	0	0
4036	6/9	58° 50.00'	138° 05.12'	28	8.0	83	6	42	8	0	0	0
4037	6/9	58° 50.00'	138° 24.20'	40	8.0	341	6	9	1	0	0	0
4038	6/19	58° 50.00'	138° 43.80'	65	8.0	219	12	12	2	0	0	0
4039	6/22	58° 50.00'	139° 03.23'	104	8.0	178	2	0	0	0	0	0
4040	6/22	58° 50.00'	139° 21.91'	73	8.0	798	23	129	14	0	0	8
4041	6/20	58° 50.00'	139° 42.13'	87	8.0	497	20	45	5	0	0	0
4042	6/21	58° 50.00'	140° 01.17'	94	8.0	1,108	50	238	27	0	0	0
4044	6/19	59° 00.00'	138° 42.92'	85	8.0	84	4	0	0	0	0	0
4045	6/18	59° 00.00'	139° 01.93'	55	8.0	69	3	0	0	0	0	0
4046	6/20	59° 00.00'	139° 22.14'	59	8.0	146	6	33	4	0	0	0
4047	6/20	59° 00.00'	139° 41.45'	66	8.0	835	34	95	13	0	0	0
4048	6/18	59° 10.00'	139° 02.20'	30	8.0	96	6	30	4	0	0	0
4049	6/18	59° 10.00'	139° 21.30'	54	8.0	142	9	9	1	0	0	0
4051	6/4	58° 49.88'	140° 20.38'	100	8.0	1,630	61	475	61	24	0	8
4052	6/4	58° 49.92'	140° 40.11'	104	8.0	3,733	100	390	52	8	0	24
4053	6/3	58° 59.71'	140° 00.39'	73	8.0	2,099	46	237	32	0	0	8

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

<sup>2</sup> Weights are calculated from length-weight tables.

<sup>3</sup> Bycatch numbers extrapolated from 20% subsample.

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## Area 3A

Station	Date Fished	North Latitude	West Longitude	Depth (F)	Skates Set <sup>1</sup>	Legal Halibut		Sublegal Halibut		Bycatch (numbers) <sup>3</sup>		
						Lbs. <sup>2</sup>	#s	Lbs. <sup>2</sup>	#s	Sablefish	P. Cod	Rockfish
4054	6/4	58° 59.89'	140° 19.69'	85	8.0	1,893	44	233	28	0	0	0
4055	6/6	59° 00.19'	140° 39.62'	99	8.0	1,516	48	367	45	8	0	0
4056	6/5	59° 00.10'	140° 59.05'	105	8.0	4,325	111	748	101	0	0	0
4057	6/3	59° 10.06'	139° 41.27'	71	8.0	71	4	27	3	0	0	0
4058	6/3	59° 09.95'	139° 59.91'	62	8.0	1,036	40	447	55	0	0	0
4059	6/6	59° 10.09'	140° 19.64'	70	8.0	4,448	100	394	55	0	0	0
4060	6/6	59° 09.81'	140° 38.59'	82	8.0	1,401	35	315	40	0	0	0
4061	6/5	59° 10.01'	140° 59.42'	99	8.0	1,911	56	344	43	0	0	0
4062	6/5	59° 10.02'	141° 17.82'	185	8.0	1,099	32	25	3	360	0	8
4063	8/19	59° 10.48'	141° 37.92'	124	8.0	3,698	118	191	22	71	0	16
4064	6/7	59° 20.05'	139° 40.52'	87	8.0	0	0	0	0	0	0	0
4065	6/7	59° 20.04'	140° 00.16'	88	8.0	66	2	10	1	0	0	0
4066	6/7	59° 19.92'	140° 19.55'	71	8.0	936	33	120	16	0	0	0
4067	7/18	59° 19.99'	140° 39.36'	77	8.1	668	35	368	42	0	0	0
4068	7/18	59° 19.93'	140° 59.06'	86	8.0	2,545	73	225	29	0	0	0
4069	7/20	59° 20.00'	141° 18.50'	182	8.1	767	24	29	3	234	0	16
4070	7/19	59° 19.68'	141° 39.05'	102	8.1	4,048	98	212	31	24	0	8
4071	7/19	59° 19.70'	141° 58.28'	121	8.0	4,106	125	202	25	64	0	0
4072	6/8	59° 30.09'	140° 00.66'	63	8.0	22	2	43	6	0	0	0
4073	6/8	59° 29.97'	140° 18.39'	124	8.0	1,008	26	0	0	72	0	16
4074	7/18	59° 29.65'	140° 40.27'	155	8.1	774	20	0	0	226	0	48
4075	7/17	59° 30.00'	140° 59.08'	159	8.0	925	16	0	0	272	0	8
4076	7/20	59° 30.00'	141° 18.91'	91	8.0	1,037	43	14	2	0	0	0
4077	7/20	59° 30.07'	141° 37.34'	88	8.0	162	6	14	2	0	0	0
4078	7/16	59° 30.13'	141° 59.12'	97	8.0	825	26	62	8	0	0	0
4079	6/8	59° 40.02'	139° 59.31'	75	8.0	2,217	95	238	26	16	56	0
4080	7/17	59° 40.06'	140° 59.02'	29	8.0	78	3	29	4	0	0	0
4081	7/17	59° 39.80'	141° 19.03'	36	8.0	213	8	0	0	0	0	0
4082	7/16	59° 40.03'	141° 38.17'	50	8.1	0	0	9	1	0	0	0
4083	7/16	59° 40.11'	141° 58.25'	79	8.0	159	8	10	1	0	0	8
4084	6/12	59° 39.92'	142° 18.23'	119	8.0	2,453	82	129	19	8	0	0
4085	6/13	59° 39.94'	142° 38.07'	213	8.0	642	22	9	1	312	0	80
4086	6/13	59° 39.89'	142° 57.94'	114	8.0	2,879	105	290	39	72	0	0
4087	6/15	59° 39.89'	143° 16.78'	146	8.0	1,414	37	40	5	251	16	32
4088	6/26	59° 39.80'	143° 37.12'	77	8.0	4,986	142	370	51	0	0	72
4089	6/26	59° 39.89'	143° 56.95'	71	8.1	6,308	177	339	48	0	0	16
4090	6/25	59° 39.98'	144° 16.98'	87	8.0	4,800	138	254	33	0	0	0
4091	6/25	59° 40.30'	144° 36.25'	79	8.0	220	8	13	2	0	0	0
4092	6/12	59° 49.87'	141° 58.87'	37	8.0	171	6	73	10	0	0	0
4093	6/12	59° 49.78'	142° 18.14'	51	8.0	4,648	97	61	9	0	0	0
4094	6/13	59° 50.14'	142° 38.33'	91	8.0	2,310	55	18	3	0	0	0
4095	6/14	59° 49.98'	142° 58.40'	93	8.0	489	16	5	1	0	0	0
4096	6/15	59° 49.68'	143° 17.79'	120	8.0	1,950	53	47	6	48	0	0
4097	6/15	59° 50.04'	143° 37.81'	152	8.0	2,107	51	22	3	158	0	24
4098	6/26	59° 49.80'	143° 58.87'	50	8.0	780	31	239	30	0	0	0
4099	6/25	59° 49.99'	144° 18.17'	34	8.0	116	2	41	6	0	8	0
4100	6/14	59° 59.77'	142° 39.55'	42	8.0	3,154	67	68	9	0	0	0
4101	6/14	59° 59.98'	142° 59.33'	61	8.0	80	2	9	1	0	0	0
4102	7/9	59° 19.91'	146° 16.07'	153	8.0	1,327	47	181	23	8	0	48
4103	7/8	59° 19.87'	146° 34.35'	80	8.0	1,336	43	75	10	0	0	0
4104	7/8	59° 20.13'	146° 55.13'	105	8.0	1,448	58	132	17	104	0	0

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

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Station	Date Fished	North Latitude	West Longitude	Depth (F)	Skates Set <sup>1</sup>	Legal Halibut		Sublegal Halibut		Bycatch (numbers) <sup>3</sup>		
						Lbs. <sup>2</sup>	#s	Lbs. <sup>2</sup>	#s	Sablefish	P. Cod	Rockfish
4105	7/8	59° 20.00'	147° 14.33'	102	8.0	1,521	78	110	13	16	0	0
4106	7/10	59° 29.76'	145° 16.28'	87	8.0	5,967	162	234	29	0	8	168
4107	7/9	59° 30.08'	145° 55.09'	96	8.0	2,520	126	214	24	0	0	0
4108	7/1	59° 29.94'	146° 35.02'	47	8.0	1,925	63	214	29	0	0	8
4109	7/2	59° 30.18'	146° 53.78'	99	8.1	705	29	37	4	0	0	0
4110	7/2	59° 29.98'	147° 13.79'	116	8.0	1,597	47	83	10	88	0	40
4111	7/3	59° 29.88'	147° 34.75'	61	8.0	126	7	59	7	0	0	0
4112	7/10	59° 39.91'	145° 33.93'	58	8.0	211	12	13	2	0	0	0
4113	6/30	59° 40.14'	145° 53.19'	43	8.0	2,737	118	628	79	0	0	0
4114	7/1	59° 40.11'	146° 13.72'	44	8.1	1,266	56	525	73	0	0	0
4115	7/1	59° 40.12'	146° 34.52'	46	8.1	3,125	93	341	45	0	16	16
4116	7/2	59° 40.00'	146° 53.17'	60	8.0	99	6	5	1	0	0	0
4117	7/3	59° 40.39'	147° 14.16'	83	8.0	1,102	65	489	64	0	16	0
4118	7/3	59° 40.06'	147° 33.05'	63	8.0	1,113	41	95	11	0	0	0
4119	6/24	59° 50.04'	144° 58.20'	109	8.0	571	18	41	4	0	8	0
4120	6/30	59° 50.09'	145° 53.12'	55	8.0	64	1	0	0	0	0	0
4121	6/30	59° 49.99'	146° 13.32'	33	8.0	2,427	138	890	106	0	0	0
4122	6/29	59° 49.89'	146° 33.31'	36	8.0	3,551	123	516	69	0	0	0
4123	6/29	59° 49.92'	146° 53.14'	43	8.0	935	62	845	111	0	0	0
4124	7/4	59° 49.99'	147° 13.24'	81	8.0	1,947	121	563	64	8	56	0
4125	6/24	59° 59.94'	144° 39.80'	126	8.0	161	7	17	2	24	8	0
4126	6/24	59° 59.90'	144° 58.84'	73	8.0	52	2	0	0	0	0	0
4127	6/23	60° 00.27'	145° 18.97'	66	8.0	92	5	8	1	0	0	0
4128	6/22	60° 00.05'	146° 12.19'	34	8.0	3,456	124	676	88	0	0	8
4129	6/29	60° 00.07'	146° 32.10'	35	8.0	200	13	115	19	0	0	0
4130	7/4	60° 00.07'	146° 52.35'	80	8.0	50	3	19	3	0	0	0
4131	7/4	60° 00.04'	147° 11.50'	102	8.0	416	20	69	8	16	80	0
4132	6/23	60° 10.21'	145° 30.98'	45	8.0	434	20	65	8	0	0	0
4133	6/22	60° 09.57'	145° 51.21'	56	8.0	245	11	44	5	0	0	0
4134	6/22	60° 09.58'	146° 11.88'	43	8.0	582	35	131	21	0	0	0
4135	7/12	60° 10.21'	147° 30.95'	37	8.0	1,609	88	760	106	0	8	16
4136	7/12	60° 09.82'	147° 50.62'	181	8.0	1,439	71	287	36	24	8	0
4137	7/12	60° 19.96'	147° 31.08'	71	8.1	1,486	62	137	17	0	40	8
4138	6/21	60° 29.98'	146° 29.26'	36	8.0	422	22	344	43	0	0	0
4139	6/21	60° 29.88'	146° 48.54'	212	8.0	393	14	11	1	57	0	0
4140	7/11	60° 29.77'	147° 09.91'	93	8.0	912	39	106	14	8	24	0
4141	7/11	60° 29.96'	147° 29.52'	109	8.0	367	15	141	20	0	16	8
4142	6/17	60° 29.05'	147° 50.08'	229	8.0	1,332	43	29	3	176	8	8
4143	6/21	60° 39.70'	146° 49.16'	231	8.0	737	32	8	1	136	0	0
4144	7/11	60° 40.07'	147° 09.35'	129	8.0	1,056	46	79	10	24	0	0
4145	6/20	60° 49.87'	147° 08.19'	155	8.0	1,201	51	267	36	64	64	16
4146	6/17	60° 49.94'	148° 10.11'	211	8.0	814	28	72	9	0	0	16
4147	8/4	58° 39.95'	148° 33.58'	130	8.0	2,132	68	78	10	301	16	0
4148	8/4	58° 40.12'	148° 52.98'	91	8.0	2,820	91	157	19	150	8	8
4149	8/5	58° 50.12'	148° 15.05'	153	8.0	2,687	129	353	40	150	0	24
4150	8/5	58° 50.10'	148° 33.87'	160	7.9	1,892	54	23	3	314	0	8
4151	8/4	58° 50.09'	148° 52.91'	142	8.0	970	36	72	8	269	0	8
4152	8/7	58° 50.02'	149° 12.09'	112	8.0	2,232	84	70	8	230	16	0
4153	8/14	59° 00.12'	147° 55.13'	232	8.0	345	15	11	1	214	0	8
4154	8/6	58° 59.95'	148° 13.93'	125	8.0	7,222	320	389	44	32	48	8
4155	8/6	58° 59.99'	148° 34.14'	134	8.0	1,422	52	146	17	264	0	0

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

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Station	Date Fished	North Latitude	West Longitude	Depth (F)	Skates Set <sup>1</sup>	Legal Halibut		Sublegal Halibut		Bycatch (numbers) <sup>3</sup>		
						Lbs. <sup>2</sup>	#s	Lbs. <sup>2</sup>	#s	Sablefish	P. Cod	Rockfish
4156	8/7	59° 00.03'	148° 52.99'	116	8.0	1,950	75	61	8	198	0	0
4157	8/7	59° 00.09'	149° 11.60'	113	8.0	1,108	47	91	11	198	8	0
4158	8/3	59° 00.04'	149° 31.94'	126	7.8	1,101	52	14	2	194	0	0
4159	8/19	59° 10.18'	147° 35.20'	134	8.0	6,871	265	202	22	64	16	32
4160	8/14	59° 10.02'	147° 54.17'	110	8.0	3,230	112	29	3	24	0	0
4161	8/14	59° 10.14'	148° 14.38'	67	8.0	6,005	207	1,023	131	0	0	24
4162	8/6	59° 10.19'	148° 33.02'	82	8.0	4,907	190	637	83	10	0	0
4163	8/13	59° 10.02'	148° 53.26'	98	8.0	663	24	21	3	8	0	0
4164	8/13	59° 09.95'	149° 12.03'	85	8.0	2,066	74	115	14	0	8	0
4165	8/3	59° 09.93'	149° 31.70'	85	7.9	4,184	178	257	31	78	0	0
4166	8/3	59° 09.94'	149° 50.52'	73	7.9	2,915	128	598	69	16	0	0
4167	8/19	59° 20.01'	147° 34.21'	67	8.0	5,167	188	734	96	0	0	71
4168	8/20	59° 20.12'	147° 53.97'	101	8.0	602	23	15	2	24	0	0
4169	8/20	59° 19.79'	148° 12.93'	86	8.0	5,055	227	242	28	8	16	0
4170	8/21	59° 19.96'	148° 32.79'	51	8.0	5,134	165	675	81	0	0	104
4171	8/22	59° 19.94'	148° 53.15'	93	8.0	682	22	74	8	0	0	0
4172	8/13	59° 19.94'	149° 11.75'	102	8.0	2,731	100	35	4	152	16	0
4173	8/27	59° 19.83'	149° 32.58'	68	8.0	2,283	92	359	44	0	16	0
4174	8/12	59° 19.97'	149° 51.39'	103	8.0	1,190	52	44	6	55	16	0
4175	8/12	59° 19.97'	150° 11.04'	89	8.0	3,642	170	235	26	16	24	16
4176	8/20	59° 30.10'	147° 52.96'	61	8.0	1,085	40	386	51	0	8	0
4177	8/21	59° 30.00'	148° 13.12'	115	8.0	548	16	38	5	32	0	0
4178	8/21	59° 29.91'	148° 33.22'	54	8.0	743	30	1,038	149	0	0	0
4179	8/22	59° 29.87'	148° 52.34'	94	8.0	338	10	0	0	8	0	0
4180	8/22	59° 30.02'	149° 11.89'	126	8.0	1,506	45	10	1	144	8	0
4181	8/27	59° 29.92'	149° 32.25'	56	8.0	1,295	66	774	106	0	0	0
4182	8/27	59° 30.05'	149° 51.78'	110	8.0	631	25	42	5	88	88	0
4183	8/12	59° 30.38'	150° 10.84'	65	8.0	1,352	63	183	26	8	0	0
4184	8/18	59° 39.92'	147° 53.11'	37	8.0	2,148	78	263	34	0	0	24
4185	8/18	59° 39.86'	148° 12.70'	64	8.0	1,193	72	443	53	0	0	0
4186	8/24	59° 39.97'	148° 31.99'	116	8.0	119	5	0	0	64	0	8
4187	8/24	59° 39.97'	148° 51.59'	98	8.0	253	8	9	1	8	0	0
4188	8/25	59° 39.88'	149° 12.04'	115	8.0	750	22	8	1	112	8	0
4189	8/26	59° 39.98'	149° 31.86'	157	8.0	317	10	17	2	71	8	0
4190	8/18	59° 49.90'	148° 11.98'	57	8.0	1,503	62	350	42	0	8	8
4191	8/24	59° 50.01'	148° 31.76'	73	8.0	127	7	35	4	24	0	0
4192	8/25	59° 49.96'	148° 52.03'	93	8.0	331	13	13	2	103	0	0
4193	8/25	59° 50.00'	149° 12.15'	81	8.0	1,075	44	198	22	8	0	0
4194	8/26	59° 50.04'	149° 31.99'	85	8.0	341	13	8	1	16	0	0
4195	8/9	58° 00.00'	149° 13.04'	76	7.2	7,396	378	808	88	0	0	7
4196	8/9	58° 10.00'	148° 53.79'	74	8.0	4,625	231	1,173	134	0	0	48
4197	8/9	58° 10.00'	149° 12.84'	63	7.9	4,081	201	1,361	154	0	0	16
4198	8/8	58° 10.00'	149° 32.06'	60	8.0	3,272	163	1,402	170	0	0	16
4199	8/8	58° 10.00'	149° 51.18'	75	8.0	3,211	173	1,206	137	0	8	0
4200	8/28	58° 19.91'	148° 35.00'	102	8.0	6,398	243	489	60	56	16	0
4201	8/28	58° 20.00'	148° 53.83'	67	8.0	1,871	92	1,410	171	0	8	0
4202	8/18	58° 20.00'	149° 12.80'	85	8.0	4,724	245	1,048	129	0	24	0
4203	8/8	58° 20.00'	149° 32.05'	83	7.9	5,537	278	686	81	16	0	0
4204	8/7	58° 20.00'	149° 51.15'	43	8.0	3,808	158	1,379	173	0	0	0
4205	8/6	58° 20.00'	150° 09.84'	28	7.9	2,342	118	692	83	0	0	0
4206	8/6	58° 20.00'	150° 28.91'	30	8.0	2,015	121	577	69	0	0	0

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

<sup>2</sup> Weights are calculated from length-weight tables.

<sup>3</sup> Bycatch numbers extrapolated from 20% subsample.

# 2004 IPHC Stock Assessment Survey

## Area 3A

Station	Date Fished	North Latitude	West Longitude	Depth (F)	Skates Set <sup>1</sup>	Legal Halibut		Sublegal Halibut		Bycatch (numbers) <sup>3</sup>		
						Lbs. <sup>2</sup>	#s	Lbs. <sup>2</sup>	#s	Sablefish	P. Cod	Rockfish
4207	8/28	58° 29.99'	148° 34.00'	71	7.9	5,372	258	1,339	159	0	0	0
4208	8/18	58° 30.00'	148° 52.75'	60	7.9	4,476	200	1,524	188	0	0	8
4209	8/18	58° 30.00'	149° 12.86'	65	7.8	3,529	154	495	62	0	54	0
4210	8/17	58° 30.00'	149° 32.09'	76	8.0	4,356	201	389	46	48	71	0
4211	8/7	58° 30.00'	149° 51.00'	76	8.0	2,892	156	912	107	32	40	0
4212	8/7	58° 30.00'	150° 10.01'	50	8.0	2,936	126	876	107	0	72	0
4213	8/6	58° 30.00'	150° 28.98'	47	7.9	1,950	81	1,351	175	0	8	0
4214	8/5	58° 30.00'	150° 47.98'	55	8.0	3,669	199	608	71	0	0	0
4215	8/17	58° 40.00'	149° 12.95'	75	8.0	2,643	107	459	58	63	48	24
4216	8/17	58° 40.00'	149° 31.96'	72	8.0	4,991	200	269	30	55	40	0
4217	8/16	58° 40.00'	149° 50.95'	82	7.8	2,846	116	362	44	78	62	0
4218	8/15	58° 40.00'	150° 09.92'	67	8.0	4,171	192	410	48	8	104	0
4219	8/15	58° 40.00'	150° 28.78'	107	8.0	459	18	97	11	182	24	0
4220	8/5	58° 40.00'	150° 48.88'	111	8.0	1,910	106	217	23	88	8	0
4221	8/5	58° 40.00'	151° 08.12'	105	8.0	1,993	90	175	20	135	48	0
4222	8/16	58° 50.00'	149° 31.91'	121	8.0	475	20	0	0	246	0	8
4223	8/16	58° 50.00'	149° 50.91'	129	7.9	1,756	60	24	3	243	0	0
4224	8/15	58° 50.00'	150° 10.05'	87	8.0	4,531	174	380	42	63	16	0
4225	8/27	58° 50.00'	150° 30.35'	93	7.9	2,125	88	204	23	78	16	0
4226	8/26	58° 50.00'	150° 49.07'	96	8.0	1,580	75	167	20	48	32	0
4227	8/26	58° 50.00'	151° 08.00'	76	8.0	2,041	118	631	70	24	32	0
4228	8/4	58° 50.00'	151° 27.95'	57	7.9	1,523	88	940	120	0	0	24
4229	8/14	59° 00.00'	149° 50.98'	121	7.9	443	18	46	7	212	0	0
4230	8/14	58° 59.50'	150° 11.07'	102	8.0	1,207	60	46	6	143	0	0
4231	8/27	59° 00.00'	150° 30.04'	64	7.9	2,788	172	1,329	159	0	0	0
4232	8/26	59° 00.00'	150° 49.95'	89	7.9	1,375	86	617	72	8	8	0
4233	8/25	59° 00.00'	151° 09.12'	84	5.9	2,579	124	573	68	0	0	0
4234	8/25	59° 00.00'	151° 28.24'	67	7.9	4,221	240	1,017	127	0	8	0
4235	8/14	59° 10.00'	150° 11.18'	67	7.8	2,501	138	801	100	0	16	8
4236	8/24	59° 10.00'	150° 29.98'	65	8.0	2,820	160	409	44	8	8	0
4237	8/24	59° 10.00'	150° 49.87'	69	6.2	3,623	190	288	33	0	15	7
4238	8/25	59° 10.00'	151° 08.82'	29	7.9	5,138	262	686	75	0	0	47
4239	8/24	59° 20.00'	150° 31.10'	125	8.0	2,543	96	36	4	48	48	0
4240	7/18	57° 19.75'	150° 46.00'	87	8.0	3,825	248	980	112	0	40	0
4241	7/20	57° 29.96'	150° 09.00'	247	8.0	150	9	28	3	103	0	0
4242	7/18	57° 29.89'	150° 28.00'	84	8.0	1,706	122	921	103	0	48	0
4243	7/18	57° 29.95'	150° 46.00'	53	8.0	3,046	183	1,160	137	0	0	0
4244	7/20	57° 40.03'	149° 50.00'	228	8.0	140	8	0	0	224	0	16
4245	7/20	57° 40.11'	150° 09.00'	114	8.0	4,115	230	340	37	64	80	0
4246	7/19	57° 40.00'	150° 28.00'	52	8.0	2,216	145	1,553	178	0	8	0
4247	7/17	57° 39.92'	150° 47.00'	45	8.0	7,784	370	1,765	209	0	0	0
4248	7/17	57° 39.96'	151° 05.00'	39	8.0	3,369	185	801	92	0	0	0
4249	7/15	57° 39.97'	151° 24.00'	34	8.0	2,063	114	310	33	0	8	0
4250	7/21	57° 50.00'	149° 31.77'	223	8.0	718	38	67	7	104	0	0
4251	7/21	57° 50.19'	149° 49.99'	140	8.0	2,768	183	950	105	48	0	0
4252	7/19	57° 50.05'	150° 09.00'	107	5.5	979	69	466	52	50	25	0
4253	7/19	57° 49.93'	150° 28.00'	49	8.0	9,744	374	783	88	0	0	0
4254	7/17	57° 49.94'	150° 47.00'	45	8.0	4,328	241	1,847	206	0	16	0
4255	7/16	57° 49.95'	151° 06.00'	38	7.9	3,473	207	2,284	259	0	0	0
4256	7/15	57° 49.96'	151° 24.00'	29	8.0	1,429	92	1,016	113	0	0	0
4257	7/15	57° 49.84'	151° 43.00'	29	8.0	1,208	97	1,648	183	0	16	0

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

<sup>2</sup> Weights are calculated from length-weight tables.

<sup>3</sup> Bycatch numbers extrapolated from 20% subsample.

# 2004 IPHC Stock Assessment Survey

## Area 3A

Station	Date Fished	North Latitude	West Longitude	Depth (F)	Skates Set <sup>1</sup>	Legal Halibut		Sublegal Halibut		Bycatch (numbers) <sup>3</sup>		
						Lbs. <sup>2</sup>	#s	Lbs. <sup>2</sup>	#s	Sablefish	P. Cod	Rockfish
4258	7/9	57° 50.00'	152° 01.91'	48	8.0	1,488	69	542	72	0	63	0
4259	7/21	57° 59.99'	149° 31.78'	81	8.0	6,122	293	623	71	0	0	0
4260	7/27	57° 59.98'	149° 51.00'	126	7.8	4,347	220	197	22	163	16	0
4261	7/27	57° 59.80'	150° 09.00'	123	7.9	1,511	97	119	13	71	0	0
4262	7/28	57° 59.72'	150° 28.00'	126	8.0	1,734	111	405	44	40	56	0
4263	7/15	58° 00.06'	150° 47.00'	70	7.0	1,932	109	334	37	123	18	0
4264	7/16	57° 59.95'	151° 06.00'	43	8.0	5,276	236	1,605	178	0	8	8
4265	7/8	58° 00.00'	151° 24.61'	43	8.0	576	35	446	53	16	119	0
4266	7/8	58° 00.00'	151° 44.11'	66	8.0	1,002	73	1,044	122	24	96	0
4267	7/9	57° 59.99'	152° 03.03'	96	8.0	1,648	64	123	14	88	88	0
4268	7/9	58° 00.00'	152° 22.16'	104	8.0	1,928	84	156	17	0	127	0
4269	7/27	58° 09.93'	150° 10.00'	82	8.0	5,584	278	759	85	0	0	0
4270	7/28	58° 10.15'	150° 29.00'	60	8.0	4,190	271	1,313	148	0	0	0
4271	7/28	58° 10.00'	150° 48.00'	59	7.9	2,095	138	1,114	132	0	71	0
4272	7/29	58° 09.95'	151° 07.00'	79	8.1	838	48	148	16	170	73	0
4273	7/8	58° 10.00'	151° 25.12'	90	8.0	592	42	458	52	0	196	0
4274	8/1	58° 09.94'	151° 41.67'	35	8.0	4,570	321	1,268	139	0	0	0
4275	7/29	58° 19.89'	150° 48.00'	34	8.0	1,793	137	1,172	141	0	0	0
4276	7/29	58° 19.93'	151° 07.00'	66	8.1	3,960	222	643	74	0	48	0
4277	8/1	58° 20.00'	151° 26.11'	37	8.0	9,168	513	2,731	308	0	0	0
4278	8/1	58° 20.00'	151° 45.15'	28	8.0	3,546	205	1,327	159	0	0	0
4279	7/30	58° 30.02'	151° 07.00'	57	7.9	1,179	84	476	57	71	63	0
4280	7/30	58° 29.98'	151° 26.99'	92	8.0	2,198	114	166	19	150	40	0
4281	7/31	58° 29.99'	151° 45.97'	94	8.1	4,701	202	59	7	65	32	0
4282	7/30	58° 39.88'	151° 27.00'	100	8.0	2,232	109	388	42	103	0	0
4283	7/31	58° 40.00'	151° 45.96'	71	8.0	781	30	89	10	88	32	0
4284	7/31	58° 40.00'	152° 05.83'	69	8.0	1,585	70	190	23	32	8	0
4285	8/4	58° 49.36'	152° 06.14'	57	8.0	5,371	182	266	31	0	9	9
4286	7/14	56° 20.00'	152° 50.31'	59	8.0	5,787	270	494	59	8	32	0
4287	7/14	56° 20.00'	153° 08.39'	51	8.1	1,075	70	517	62	8	0	0
4288	7/13	56° 20.00'	153° 26.20'	32	8.1	6,326	340	789	90	0	0	0
4289	6/27	56° 30.00'	152° 15.30'	126	8.1	2,983	161	302	35	120	10	10
4290	6/27	56° 30.00'	152° 34.28'	129	8.2	2,949	153	214	24	196	0	8
4291	7/14	56° 30.00'	152° 51.09'	27	7.3	8,100	321	655	73	0	0	0
4292	7/13	56° 30.00'	153° 09.10'	39	8.1	3,172	196	1,397	164	0	8	0
4293	7/13	56° 30.00'	153° 27.09'	49	8.0	2,065	139	1,440	168	0	0	0
4294	7/12	56° 30.00'	153° 45.00'	37	8.0	2,547	105	437	53	0	0	0
4295	8/9	56° 40.00'	151° 56.99'	33	8.0	3,146	171	601	66	0	0	0
4296	8/9	56° 40.00'	152° 15.10'	25	8.0	4,205	260	1,301	140	0	0	0
4297	6/27	56° 39.94'	152° 33.66'	78	8.1	3,161	184	892	105	0	8	0
4298	7/15	56° 40.00'	152° 52.04'	37	8.0	3,055	181	1,587	186	0	0	0
4299	7/11	56° 40.00'	153° 10.25'	82	8.1	4,002	155	257	29	0	16	0
4300	7/12	56° 40.00'	153° 28.13'	75	8.0	2,611	121	421	48	0	87	0
4301	7/12	56° 40.00'	153° 46.08'	47	8.0	3,641	189	373	46	0	16	0
4302	8/10	56° 50.00'	151° 40.17'	155	8.1	1,516	89	155	17	218	0	32
4303	8/8	56° 50.00'	151° 57.97'	41	8.0	4,547	224	1,066	119	0	0	0
4304	8/8	56° 50.00'	152° 16.04'	52	8.1	4,570	247	1,172	132	0	0	0
4305	8/8	56° 50.00'	152° 35.01'	75	8.1	1,715	110	667	73	73	73	0
4306	7/15	56° 50.00'	152° 53.05'	33	8.1	1,713	119	2,008	238	0	0	0
4307	7/11	56° 50.00'	153° 11.32'	57	7.9	3,137	183	890	106	0	0	0
4308	7/11	56° 49.50'	153° 29.57'	48	8.0	2,867	122	265	31	0	0	0

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

<sup>2</sup> Weights are calculated from length-weight tables.

<sup>3</sup> Bycatch numbers extrapolated from 20% subsample.

# 2004 IPHC Stock Assessment Survey

## Area 3A

Station	Date Fished	North Latitude	West Longitude	Depth (F)	Skates Set <sup>1</sup>	Legal Halibut		Sublegal Halibut		Bycatch (numbers) <sup>3</sup>		
						Lbs. <sup>2</sup>	#'s	Lbs. <sup>2</sup>	#'s	Sablefish	P. Cod	Rockfish
4309	8/10	57° 00.00'	151° 40.17'	40	8.0	3,602	204	1,320	160	0	0	0
4310	8/10	57° 00.01'	151° 59.14'	43	8.1	1,081	85	1,996	230	0	0	0
4311	6/28	57° 00.01'	152° 17.23'	40	8.2	3,495	199	1,833	223	0	0	0
4312	6/26	57° 00.00'	152° 34.84'	85	8.2	2,786	136	525	60	57	49	0
4313	6/26	57° 00.00'	152° 53.72'	64	8.2	2,941	166	904	112	0	65	0
4315	8/11	57° 10.00'	151° 22.32'	69	8.0	4,917	274	885	98	0	32	0
4316	8/11	57° 10.00'	151° 41.06'	39	8.1	2,449	153	1,077	126	0	0	0
4317	6/28	57° 09.97'	151° 59.28'	38	8.0	2,499	150	1,315	148	0	0	0
4318	6/28	57° 10.00'	152° 18.45'	42	8.0	1,578	100	1,626	202	0	0	0
4319	6/26	57° 10.00'	152° 36.25'	53	8.2	1,764	99	656	78	0	204	0
4320	8/12	57° 20.00'	151° 04.11'	48	8.0	4,092	228	1,160	131	0	24	0
4321	8/12	57° 20.00'	151° 23.14'	72	8.1	2,496	128	331	40	89	89	0
4322	8/12	57° 20.00'	151° 41.10'	32	8.0	1,546	113	1,549	173	0	16	0
4323	6/25	57° 19.95'	152° 00.09'	40	8.1	2,022	100	597	72	0	121	0
4324	6/25	57° 20.00'	152° 17.84'	23	8.1	3,430	105	94	12	0	0	0
4325	8/13	57° 30.00'	151° 04.08'	42	8.0	2,144	135	1,692	200	0	0	0
4326	8/13	57° 30.00'	151° 24.10'	58	8.0	2,607	180	1,097	127	16	112	0
4327	6/24	57° 29.99'	151° 41.94'	62	8.2	1,856	125	652	73	16	114	0
4328	6/25	57° 30.01'	152° 01.10'	26	6.3	4,865	218	403	47	0	52	0
4329	6/24	57° 40.00'	151° 43.30'	36	8.0	1,292	100	1,979	231	0	0	0
4330	6/24	57° 40.01'	152° 00.75'	99	7.2	2,121	100	128	15	0	213	0
4331	6/4	57° 30.06'	154° 55.25'	129	8.0	859	40	97	12	97	57	0
4332	6/5	57° 40.03'	154° 34.81'	121	8.0	1,558	62	101	12	81	40	0
4333	6/4	57° 40.02'	154° 54.26'	129	8.0	1,750	76	61	8	0	100	0
4334	6/4	57° 39.87'	155° 13.54'	163	7.9	1,774	75	127	16	86	8	0
4335	6/6	57° 49.91'	154° 14.79'	114	8.0	1,240	56	42	5	32	87	0
4336	6/6	57° 49.98'	154° 34.38'	128	8.0	1,915	92	86	9	63	8	0
4337	6/5	57° 49.86'	154° 52.88'	158	8.0	1,768	86	67	8	72	0	0
4338	6/2	58° 00.01'	153° 37.30'	91	7.9	2,126	102	413	48	0	32	0
4339	6/3	57° 59.95'	153° 56.17'	109	8.0	1,181	52	55	7	0	88	0
4340	6/6	57° 59.91'	154° 14.33'	127	8.0	1,496	76	101	11	112	24	0
4341	6/2	58° 10.14'	153° 18.60'	62	7.9	1,056	71	864	107	0	157	0
4342	6/2	58° 09.96'	153° 38.12'	107	7.9	1,374	61	97	12	16	71	0
4343	6/9	58° 09.98'	153° 56.85'	118	8.0	754	39	135	15	63	32	0
4344	6/20	58° 19.83'	153° 20.13'	98	8.0	2,066	96	143	17	40	32	0
4345	6/9	58° 19.86'	153° 39.34'	97	8.0	2,633	102	126	15	0	65	0
4346	6/9	58° 19.98'	153° 58.17'	46	8.0	1,137	52	600	88	0	32	0
4347	6/19	58° 29.88'	153° 02.15'	91	8.0	3,027	139	274	34	32	8	0
4348	6/20	58° 30.00'	153° 20.86'	100	8.0	1,937	84	242	29	24	48	0
4349	6/20	58° 30.00'	153° 41.56'	52	8.0	3,321	121	419	53	0	79	0
4350	6/19	58° 40.42'	152° 43.73'	109	7.9	1,432	71	130	15	16	94	0
4351	6/21	58° 39.91'	153° 03.11'	87	8.0	3,464	160	144	17	0	40	0
4352	6/21	58° 40.02'	153° 23.04'	26	8.0	1,230	54	452	66	0	64	0
4353	8/11	58° 50.01'	152° 25.86'	96	8.0	3,190	170	161	18	56	56	0
4354	8/11	58° 50.03'	152° 44.97'	103	8.0	635	35	209	24	8	168	0
4355	6/21	58° 49.95'	153° 03.86'	91	8.0	1,795	69	169	19	0	16	0
4356	6/18	58° 59.88'	151° 47.14'	71	8.0	3,319	186	675	83	0	8	0
4357	6/18	59° 00.20'	152° 06.89'	78	8.0	5,559	307	1,092	131	0	0	0
4358	8/11	59° 00.14'	152° 26.79'	79	8.0	2,476	110	321	42	56	24	0
4359	8/10	58° 59.97'	152° 46.09'	93	8.0	1,495	81	223	27	0	182	0
4360	6/14	59° 00.05'	153° 05.18'	83	8.0	3,863	161	250	32	0	0	0

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

<sup>2</sup> Weights are calculated from length-weight tables.

<sup>3</sup> Bycatch numbers extrapolated from 20% subsample.

# 2004 IPHC Stock Assessment Survey

## Area 3A

Station	Date Fished	North Latitude	West Longitude	Depth (F)	Skates Set <sup>1</sup>	Legal Halibut		Sublegal Halibut		Bycatch (numbers) <sup>3</sup>		
						Lbs. <sup>2</sup>	#'s	Lbs. <sup>2</sup>	#'s	Sablefish	P. Cod	Rockfish
4361	6/22	59° 10.32'	152° 07.88'	74	8.0	3,320	215	984	122	0	32	0
4362	8/10	59° 10.07'	152° 26.84'	55	8.0	754	44	442	58	0	55	0
4363	8/10	59° 09.95'	152° 47.02'	77	8.0	2,470	113	234	27	0	166	0
4364	6/14	59° 09.93'	153° 06.04'	47	8.0	1,436	64	294	38	0	40	0
4365	6/14	59° 10.04'	153° 25.61'	22	8.0	1,797	77	270	39	0	71	0
4366	6/10	59° 19.78'	152° 08.92'	40	8.0	2,168	146	1,924	244	0	0	0
4367	6/10	59° 20.14'	152° 28.03'	40	8.0	1,799	124	1,475	198	0	0	0
4368	6/13	59° 19.96'	152° 48.27'	43	8.0	494	32	295	43	0	0	0
4369	6/13	59° 20.00'	153° 07.95'	27	8.0	822	38	139	19	0	23	0
4370	6/1	59° 29.93'	151° 50.33'	38	8.0	1,563	83	396	61	0	32	0
4371	6/1	59° 29.92'	152° 08.98'	22	8.0	2,303	113	631	82	0	0	0
4372	6/11	59° 29.98'	152° 29.23'	30	8.0	2,816	153	1,083	138	0	0	0
4373	6/13	59° 29.93'	152° 49.11'	27	8.0	1,203	58	284	37	0	80	0
4374	6/11	59° 40.15'	152° 29.93'	45	8.0	3,973	156	359	43	0	158	0
4375	6/15	59° 49.92'	152° 11.04'	28	8.0	1,424	83	1,234	162	0	0	0
<b>372</b>	<b>Total Effective Stations</b>				<b>Totals</b>	<b>803,157</b>	<b>36,611</b>	<b>159,877</b>	<b>19,215</b>	<b>13,814</b>	<b>6,624</b>	<b>2,141</b>

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

<sup>2</sup> Weights are calculated from length-weight tables.

<sup>3</sup> Bycatch numbers extrapolated from 20% subsample.