

## 2013 IPHC Stock Assessment Survey Area 3A

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Station	Date Fished	North Latitude	West Longitude	Depth (F)		O32 Halibut		U32 Halibut		Bycatch (numbers) <sup>3</sup>		
						Lbs. <sup>2</sup>	#'s	Lbs. <sup>2</sup>	#'s	Sablefish	P. Cod	Rockfish
4001	7/18	57° 50.00'	-137° 13.38'	164	6.0	76	5	9	1	5	0	155
4002	7/18	58° 00.00'	-136° 54.22'	228	6.0	0	0	6	1	124	0	20
4003	7/18	58° 00.04'	-137° 12.74'	103	6.0	2,222	107	189	23	40	0	15
4004	7/17	58° 00.01'	-137° 31.02'	90	6.0	2,974	137	248	29	15	5	55
4005	7/17	58° 00.00'	-137° 49.61'	100	6.0	2,089	117	427	53	15	0	35
4006	5/26	58° 10.00'	-136° 55.22'	108	6.0	1,811	88	124	18	51	5	0
4007	5/26	58° 10.00'	-137° 11.18'	65	6.0	2,989	125	759	100	0	10	10
4008	7/17	58° 10.00'	-137° 29.63'	77	6.0	755	36	479	60	0	0	0
4009	7/17	58° 09.99'	-137° 48.95'	85	6.0	661	38	130	17	0	0	5
4010	7/16	58° 10.00'	-138° 08.18'	82	6.0	670	42	265	37	10	5	0
4011	7/16	58° 10.00'	-138° 27.09'	89	6.0	1,677	64	101	14	0	5	25
4012	7/16	58° 10.00'	-138° 46.58'	106	6.0	501	23	332	45	0	0	40
4013	5/26	58° 20.00'	-137° 09.98'	92	6.0	89	5	74	11	5	0	0
4014	5/27	58° 19.99'	-137° 29.39'	103	6.0	54	2	9	2	0	0	0
4015	5/27	58° 20.00'	-137° 47.59'	95	6.0	1,263	44	8	2	5	0	0
4016	5/28	58° 20.00'	-138° 07.79'	71	6.0	117	5	16	2	0	0	0
4017	5/28	58° 19.99'	-138° 25.70'	72	6.0	24	2	103	15	0	0	0
4018	7/15	58° 20.00'	-138° 46.37'	65	6.0	540	20	348	53	0	20	35
4019	7/15	58° 20.00'	-139° 05.17'	61	6.0	1,579	52	215	32	0	0	59
4020	7/14	58° 20.00'	-139° 24.12'	150	6.0	1,453	53	16	2	55	0	100
4021	5/27	58° 30.00'	-137° 27.95'	37	6.0	11	1	219	36	0	30	0
4022	5/27	58° 30.00'	-137° 47.05'	85	6.0	0	0	0	0	0	0	0
4023	5/28	58° 30.00'	-138° 07.11'	72	6.0	433	18	50	6	0	0	0
4024	5/28	58° 30.00'	-138° 26.12'	65	6.0	813	61	692	81	0	0	10
4025	7/15	58° 30.00'	-138° 45.38'	53	6.0	1,020	23	398	61	0	0	5
4026	7/15	58° 30.00'	-139° 04.29'	57	6.0	74	5	217	36	0	0	5
4027	7/14	58° 30.02'	-139° 23.46'	94	6.0	1,193	37	343	50	0	5	55
4028	7/14	58° 30.00'	-139° 42.02'	138	6.0	1,045	49	77	11	59	0	15
4029	5/30	58° 40.02'	-138° 06.42'	51	6.0	1,769	65	287	36	0	0	20
4030	5/30	58° 40.00'	-138° 25.19'	73	6.0	26	2	25	3	0	0	0
4031	5/30	58° 39.99'	-138° 44.02'	55	6.0	1,250	40	776	125	0	0	15
4032	5/31	58° 40.00'	-139° 03.84'	84	6.0	255	17	235	33	5	10	0
4033	5/31	58° 40.00'	-139° 22.69'	139	6.0	2,379	103	209	25	35	0	5
4034	6/4	58° 39.99'	-139° 42.20'	103	6.0	193	11	55	8	10	0	35
4035	6/4	58° 40.01'	-140° 00.73'	105	6.0	1,755	68	598	86	40	5	0
4036	5/30	58° 50.02'	-138° 05.38'	30	6.0	0	0	31	5	0	0	0
4037	5/29	58° 50.00'	-138° 24.55'	41	6.0	1,508	51	86	11	0	0	5
4038	5/29	58° 49.99'	-138° 44.13'	67	6.0	100	7	154	25	0	5	0
4039	5/31	58° 50.00'	-139° 03.31'	105	5.9	24	1	15	2	5	0	0
4040	5/31	58° 50.00'	-139° 22.09'	75	6.0	407	14	120	16	0	0	5
4041	6/4	58° 50.00'	-139° 41.94'	88	6.0	151	7	16	2	0	0	0
4042	6/4	58° 50.00'	-140° 01.28'	96	6.0	962	28	494	64	5	0	5
4043	5/29	59° 00.00'	-138° 24.30'	33	6.0	0	0	27	4	0	0	0
4044	5/29	58° 59.98'	-138° 43.34'	87	6.0	0	0	0	0	0	0	0
4045	6/3	59° 00.00'	-139° 02.06'	57	6.0	0	0	0	0	0	0	0
4046	6/3	59° 00.00'	-139° 22.00'	60	6.0	0	0	25	4	0	0	0
4047	6/5	59° 00.00'	-139° 41.67'	67	6.0	514	22	327	42	0	0	0
4048	6/3	59° 10.01'	-139° 02.22'	31	5.9	137	7	204	39	0	5	0
4049	6/3	59° 09.96'	-139° 21.05'	54	6.0	100	6	13	2	0	0	0
4051	6/5	58° 50.00'	-140° 20.20'	100	6.0	2,047	71	350	46	0	10	0
4052	6/9	58° 50.00'	-140° 39.88'	106	6.0	1,059	38	379	51	30	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.

## 2013 IPHC Stock Assessment Survey Area 3A

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Station	Date Fished	North Latitude	West Longitude	Depth (F)	Skates Set <sup>1</sup>	O32 Halibut		U32 Halibut		Bycatch (numbers) <sup>3</sup>		
						Lbs. <sup>2</sup>	#'s	Lbs. <sup>2</sup>	#'s	Sablefish	P. Cod	Rockfish
4053	6/5	58° 59.97'	-140° 01.09'	74	6.0	727	23	370	53	0	0	10
4054	6/5	59° 00.00'	-140° 19.48'	84	6.0	642	18	170	25	0	0	25
4055	6/9	59° 00.00'	-140° 39.88'	99	6.0	902	30	468	66	5	0	0
4056	6/9	59° 00.01'	-140° 59.05'	104	6.0	1,253	47	402	62	10	5	0
4057	6/6	59° 10.00'	-139° 40.83'	71	6.0	191	13	369	47	0	30	0
4058	6/6	59° 10.00'	-140° 00.28'	63	6.0	1,079	28	476	69	0	0	0
4059	6/8	59° 10.00'	-140° 20.44'	72	6.0	703	26	328	50	0	40	0
4060	6/8	59° 10.00'	-140° 38.84'	81	6.0	729	22	296	40	0	10	0
4061	6/12	59° 10.00'	-140° 58.94'	100	6.0	608	22	408	60	5	0	0
4062	6/12	59° 10.00'	-141° 18.41'	186	6.0	296	9	67	9	54	0	0
4063	7/11	59° 10.00'	-141° 37.73'	122	6.0	2,405	125	126	15	141	0	30
4064	6/6	59° 20.00'	-139° 40.36'	86	6.0	31	2	0	0	0	0	0
4065	6/6	59° 20.00'	-139° 59.98'	88	6.0	219	9	7	1	0	0	0
4066	6/8	59° 20.00'	-140° 20.34'	71	6.0	382	15	410	59	0	0	0
4067	6/8	59° 20.00'	-140° 39.00'	77	6.0	203	9	303	38	5	0	0
4068	6/12	59° 20.00'	-140° 59.40'	88	6.0	938	35	226	30	15	0	0
4069	6/12	59° 20.00'	-141° 18.04'	183	6.0	336	8	88	14	66	0	10
4070	7/11	59° 20.00'	-141° 38.50'	104	6.0	914	37	243	32	0	0	5
4071	7/11	59° 20.00'	-141° 58.07'	119	6.0	1,376	58	564	74	20	0	0
4072	6/7	59° 30.00'	-140° 00.80'	62	6.0	40	3	102	15	0	0	0
4073	6/7	59° 30.00'	-140° 18.96'	124	6.0	400	12	0	0	25	0	20
4074	6/7	59° 30.02'	-140° 39.03'	153	6.0	453	16	0	0	20	0	45
4075	6/13	59° 30.01'	-140° 59.33'	162	6.0	490	14	20	3	10	0	30
4076	6/13	59° 30.00'	-141° 19.45'	89	6.0	77	4	15	2	0	0	0
4077	7/10	59° 29.99'	-141° 38.08'	89	6.0	44	3	39	4	0	0	0
4078	7/10	59° 30.01'	-141° 58.24'	97	6.0	174	6	4	1	0	0	0
4079	6/7	59° 39.98'	-139° 59.55'	76	6.0	612	33	241	30	0	80	0
4080	6/13	59° 40.00'	-140° 59.23'	30	6.0	292	10	66	12	0	10	0
4081	6/13	59° 40.00'	-141° 19.15'	36	6.0	37	3	129	22	0	55	0
4082	7/10	59° 40.00'	-141° 38.34'	51	6.0	251	4	20	3	0	0	0
4083	7/10	59° 40.00'	-141° 57.81'	79	6.0	71	2	12	2	0	0	0
4084	6/14	59° 39.92'	-142° 18.22'	121	6.0	304	11	10	1	5	0	0
4085	6/14	59° 40.00'	-142° 38.12'	212	6.0	328	11	44	5	109	0	30
4086	7/9	59° 40.03'	-142° 58.44'	107	6.0	2,547	110	371	47	20	30	0
4087	7/9	59° 40.00'	-143° 17.66'	150	5.1	21	1	8	1	0	0	15
4088	7/8	59° 39.98'	-143° 37.83'	78	5.9	2,736	94	359	48	0	0	39
4089	7/8	59° 40.00'	-143° 57.14'	69	6.0	1,931	66	390	52	0	0	15
4090	6/16	59° 40.02'	-144° 17.15'	88	6.0	651	24	90	13	10	0	0
4091	6/16	59° 40.06'	-144° 36.52'	80	6.0	45	2	22	4	5	0	0
4092	6/14	59° 50.00'	-141° 59.13'	39	6.0	225	11	243	38	0	0	10
4093	6/14	59° 50.00'	-142° 18.24'	49	6.0	1,499	42	230	35	0	0	10
4094	6/15	59° 50.02'	-142° 38.21'	90	6.0	552	21	107	14	0	0	0
4095	7/9	59° 50.00'	-142° 58.02'	94	5.9	252	8	15	3	0	0	0
4096	7/9	59° 50.03'	-143° 17.89'	116	6.0	971	29	70	8	50	5	15
4097	7/8	59° 49.99'	-143° 38.59'	153	6.0	560	21	9	1	45	0	69
4098	7/8	59° 50.00'	-143° 57.80'	51	6.0	302	15	315	47	5	5	0
4099	6/16	59° 50.00'	-144° 18.50'	35	6.0	0	0	0	0	0	0	0
4100	6/15	59° 59.99'	-142° 39.02'	45	6.0	512	28	331	47	0	25	0
4101	6/15	60° 00.00'	-142° 58.77'	62	6.0	188	11	44	7	0	0	0
4102	6/21	59° 19.98'	-146° 16.31'	151	6.0	351	18	57	7	35	0	130
4103	6/21	59° 20.00'	-146° 35.05'	79	6.0	318	17	135	19	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.

## 2013 IPHC Stock Assessment Survey Area 3A

3 of 8

Station	Date Fished	North Latitude	West Longitude	Depth (F)	Skates Set <sup>1</sup>	O32 Halibut		U32 Halibut		Bycatch (numbers) <sup>3</sup>		
						Lbs. <sup>2</sup>	#'s	Lbs. <sup>2</sup>	#'s	Sablefish	P. Cod	Rockfish
4104	6/21	59° 20.00'	-146° 55.11'	103	6.0	329	19	141	17	0	0	0
4105	6/21	59° 20.00'	-147° 15.20'	101	6.0	183	12	184	26	30	0	0
4106	6/22	59° 29.98'	-145° 16.13'	73	6.0	1,533	68	437	61	0	0	20
4107	6/22	59° 30.00'	-145° 55.14'	91	6.0	406	23	250	35	15	0	0
4108	6/20	59° 30.02'	-146° 34.75'	51	6.0	525	17	175	25	0	0	25
4109	6/20	59° 30.00'	-146° 53.92'	99	6.0	130	5	37	5	25	0	5
4110	6/17	59° 30.01'	-147° 14.34'	118	6.0	55	4	15	3	35	0	0
4111	6/17	59° 29.99'	-147° 33.95'	63	6.0	105	5	71	10	0	0	0
4112	6/22	59° 40.00'	-145° 34.15'	57	6.0	173	7	102	14	0	30	0
4113	6/23	59° 40.00'	-145° 53.02'	45	6.0	1,052	51	593	76	0	10	5
4114	6/23	59° 40.00'	-146° 14.24'	45	6.0	240	16	538	78	0	0	0
4115	6/20	59° 39.98'	-146° 34.42'	48	6.0	665	36	800	107	0	0	0
4116	6/20	59° 40.00'	-146° 53.31'	60	6.0	29	2	25	3	0	0	0
4117	6/17	59° 40.00'	-147° 13.41'	93	6.0	247	11	13	2	5	0	0
4118	6/17	59° 39.99'	-147° 32.83'	65	6.0	38	2	30	4	0	0	0
4119	7/7	59° 50.14'	-144° 58.54'	109	6.0	609	21	25	3	20	120	0
4120	6/23	59° 50.02'	-145° 53.19'	56	6.0	195	5	41	6	5	10	0
4121	6/23	59° 50.00'	-146° 13.25'	33	6.0	593	33	437	59	0	0	0
4122	6/25	59° 49.99'	-146° 33.24'	37	6.0	1,182	37	745	103	0	0	10
4123	6/24	59° 49.99'	-146° 53.12'	43	6.0	174	12	634	84	0	5	0
4124	6/24	59° 50.00'	-147° 13.21'	79	6.0	1,091	54	56	7	0	20	0
4125	7/7	60° 00.01'	-144° 39.10'	125	6.0	319	11	13	2	50	5	0
4126	7/7	60° 00.00'	-144° 58.61'	73	6.0	506	24	64	7	5	5	0
4127	7/7	60° 00.00'	-145° 17.95'	69	6.0	40	3	28	4	0	5	0
4128	6/25	60° 00.00'	-146° 11.90'	35	6.0	866	41	303	41	0	0	0
4129	6/25	60° 00.00'	-146° 31.96'	37	6.0	61	4	139	19	0	0	0
4130	6/24	60° 00.00'	-146° 51.97'	78	6.0	0	0	11	2	5	10	0
4131	6/24	60° 00.00'	-147° 12.00'	99	6.0	95	5	42	6	0	15	5
4132	6/30	60° 10.00'	-145° 31.45'	49	6.0	230	12	64	9	0	35	0
4133	6/30	60° 10.00'	-145° 51.10'	60	6.0	604	20	145	18	0	15	0
4134	6/30	60° 09.98'	-146° 10.90'	45	6.0	441	23	184	26	0	10	0
4135	6/29	60° 10.00'	-147° 30.94'	42	5.9	155	11	224	31	0	50	25
4136	6/29	60° 10.02'	-147° 51.00'	191	5.9	624	39	391	46	5	15	20
4137	6/29	60° 20.13'	-147° 30.98'	66	6.0	367	14	61	8	0	95	10
4138	7/1	60° 29.99'	-146° 29.37'	35	6.0	674	28	400	60	0	35	0
4139	7/1	60° 29.85'	-146° 49.02'	217	6.0	297	18	47	6	35	5	5
4140	7/1	60° 29.99'	-147° 10.00'	217	6.0	342	19	306	38	0	30	0
4141	7/3	60° 29.99'	-147° 30.10'	111	6.0	216	15	176	24	10	65	30
4142	7/3	60° 28.80'	-147° 50.10'	250	6.0	589	32	174	21	35	0	5
4143	7/2	60° 40.16'	-146° 49.00'	227	6.0	943	62	404	47	20	5	5
4144	7/2	60° 40.14'	-147° 08.97'	135	6.0	346	17	142	16	0	40	0
4145	7/2	60° 49.99'	-147° 08.62'	165	6.0	960	46	144	19	0	85	5
4146	7/4	60° 50.00'	-148° 10.03'	165	6.0	621	28	79	10	0	25	20
4147	6/14	58° 40.17'	-148° 34.52'	131	5.8	536	28	58	7	74	0	0
4148	6/14	58° 40.06'	-148° 52.59'	94	5.9	337	19	112	14	15	74	5
4149	6/13	58° 51.13'	-148° 14.50'	155	5.9	1,014	62	206	25	105	0	15
4150	6/13	58° 50.04'	-148° 32.83'	161	5.9	3,886	150	111	12	65	0	25
4151	6/14	58° 50.05'	-148° 52.39'	142	5.9	918	51	83	9	65	0	55
4152	6/15	58° 50.16'	-149° 12.21'	115	5.9	726	40	48	6	37	14	0
4153	6/12	59° 00.22'	-147° 55.29'	184	5.9	524	25	45	5	94	0	25
4154	6/13	59° 00.13'	-148° 13.91'	119	5.8	1,378	75	139	15	20	79	10

<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>	O32 Halibut		U32 Halibut		Bycatch (numbers) <sup>3</sup>		
						Lbs. <sup>2</sup>	#'s	Lbs. <sup>2</sup>	#'s	Sablefish	P. Cod	Rockfish
4155	6/16	59° 00.01'	-148° 34.30'	135	6.0	190	12	49	6	124	0	5
4156	6/15	58° 59.91'	-148° 53.27'	115	5.9	432	24	0	0	84	10	0
4157	6/15	59° 00.06'	-149° 12.03'	118	5.9	106	7	31	4	89	0	5
4158	6/23	59° 00.15'	-149° 32.70'	128	5.8	55	3	8	1	0	0	0
4159	6/12	59° 10.01'	-147° 35.32'	130	6.0	2,085	118	267	37	10	5	15
4160	6/12	59° 09.97'	-147° 53.97'	112	5.8	787	40	34	4	39	25	0
4161	6/16	59° 09.96'	-148° 14.40'	68	5.8	1,275	70	226	31	0	40	35
4162	6/16	59° 10.13'	-148° 32.49'	85	6.0	66	4	34	5	85	20	0
4163	6/22	59° 10.11'	-148° 53.03'	95	6.0	456	19	50	6	5	5	0
4164	6/22	59° 10.04'	-149° 11.64'	87	5.8	1,142	65	258	31	0	68	0
4165	6/23	59° 10.01'	-149° 31.88'	85	5.8	103	7	76	10	25	0	0
4166	6/23	59° 09.88'	-149° 50.95'	73	5.9	253	17	130	18	5	10	0
4167	6/11	59° 19.88'	-147° 34.30'	68	5.8	478	29	174	22	0	5	20
4168	6/11	59° 20.09'	-147° 54.52'	101	5.8	306	13	74	11	10	15	5
4169	6/21	59° 20.06'	-148° 12.98'	85	5.9	881	50	69	10	10	10	0
4170	6/21	59° 19.98'	-148° 33.38'	50	5.9	1,763	79	848	115	0	5	20
4171	6/22	59° 19.91'	-148° 53.47'	92	4.1	705	41	161	19	0	20	0
4172	6/24	59° 20.06'	-149° 12.27'	100	5.9	1,052	60	249	28	15	25	0
4173	6/24	59° 19.88'	-149° 31.75'	69	5.8	1,396	73	206	28	0	54	0
4174	8/15	59° 19.73'	-149° 50.77'	103	5.9	913	34	48	6	15	10	0
4175	7/20	59° 19.82'	-150° 12.03'	85	5.9	716	36	173	21	0	25	0
4176	6/11	59° 30.11'	-147° 53.48'	65	5.9	350	16	84	10	0	0	0
4177	6/21	59° 30.09'	-148° 12.40'	113	5.8	107	6	8	1	0	0	5
4178	6/20	59° 29.85'	-148° 33.23'	53	5.9	406	21	514	74	0	25	5
4179	6/20	59° 30.00'	-148° 51.69'	90	5.9	100	5	62	7	0	0	0
4180	6/24	59° 30.02'	-149° 11.93'	124	5.9	685	39	113	13	5	20	0
4181	8/15	59° 29.91'	-149° 32.40'	56	5.9	863	54	610	81	0	0	0
4182	7/20	59° 29.88'	-149° 51.91'	111	5.8	614	32	49	6	15	64	0
4183	7/20	59° 29.80'	-150° 10.62'	62	5.9	735	35	169	21	0	5	0
4184	6/7	59° 39.78'	-147° 52.81'	38	5.8	130	5	29	4	0	0	0
4185	6/6	59° 39.86'	-148° 13.27'	72	5.8	45	3	46	7	0	0	0
4186	6/6	59° 40.11'	-148° 31.95'	113	6.0	88	2	33	5	10	0	0
4187	6/20	59° 40.01'	-148° 51.85'	97	5.8	47	2	25	3	0	0	0
4188	6/19	59° 40.20'	-149° 12.57'	116	5.9	859	43	45	6	40	0	0
4189	6/19	59° 40.00'	-149° 31.96'	150	5.8	53	4	60	7	15	20	0
4190	6/6	59° 49.87'	-148° 12.38'	46	5.8	168	11	90	11	0	15	0
4191	6/5	59° 50.10'	-148° 32.20'	72	5.9	0	0	0	0	0	5	0
4192	6/5	59° 50.00'	-148° 51.95'	92	5.8	55	1	0	0	10	15	0
4193	6/4	59° 49.89'	-149° 12.33'	74	6.0	408	26	358	44	0	5	0
4194	6/19	59° 49.59'	-149° 31.80'	90	5.9	254	14	111	13	0	0	0
4195	7/28	58° 00.20'	-149° 13.70'	78	5.9	2,901	174	582	68	0	0	5
4196	7/28	58° 09.82'	-148° 54.34'	71	5.9	2,105	139	673	79	0	69	5
4197	7/28	58° 10.00'	-149° 12.62'	63	5.9	1,202	64	653	81	0	30	59
4198	7/29	58° 09.98'	-149° 32.03'	60	6.0	713	45	549	66	0	0	15
4199	7/30	58° 09.98'	-149° 51.19'	78	5.9	2,298	153	549	62	0	35	0
4200	7/27	58° 20.11'	-148° 34.92'	100	6.0	1,933	105	208	24	75	20	0
4201	7/27	58° 19.75'	-148° 54.22'	70	6.0	414	28	591	78	0	20	0
4202	7/29	58° 20.21'	-149° 12.43'	86	5.9	1,433	104	746	91	0	49	0
4203	7/29	58° 20.17'	-149° 32.37'	83	6.0	723	56	758	92	0	34	0
4204	7/30	58° 19.90'	-149° 51.47'	41	6.0	459	35	1,483	186	0	0	0
4205	7/30	58° 19.91'	-150° 09.64'	28	5.8	1,027	71	858	104	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.

## 2013 IPHC Stock Assessment Survey Area 3A

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Station	Date Fished	North Latitude	West Longitude	Depth (F)	Skates Set <sup>1</sup>	O32 Halibut		U32 Halibut		Bycatch (numbers) <sup>3</sup>		
						Lbs. <sup>2</sup>	#'s	Lbs. <sup>2</sup>	#'s	Sablefish	P. Cod	Rockfish
4206	8/10	58° 20.12'	-150° 28.80'	30	3.3	49	3	141	22	0	0	0
4207	7/27	58° 30.02'	-148° 34.00'	73	5.9	958	50	343	42	10	198	0
4208	7/26	58° 30.05'	-148° 52.89'	61	5.8	1,006	48	563	79	0	0	10
4209	7/26	58° 30.02'	-149° 12.71'	68	6.0	122	9	305	43	0	40	0
4210	7/21	58° 29.98'	-149° 32.21'	77	6.0	169	13	196	27	0	183	0
4211	7/21	58° 29.98'	-149° 50.29'	75	5.9	218	13	247	34	0	104	0
4212	8/11	58° 29.88'	-150° 09.88'	51	5.9	56	5	590	84	0	40	0
4213	8/10	58° 29.57'	-150° 29.22'	45	5.9	99	8	918	131	0	0	0
4214	8/10	58° 30.05'	-150° 48.16'	57	6.0	350	26	340	42	0	60	0
4215	7/26	58° 40.02'	-149° 13.02'	75	5.9	581	32	215	28	0	20	5
4216	7/25	58° 39.97'	-149° 32.15'	75	5.9	257	13	196	25	10	40	0
4217	7/25	58° 40.14'	-149° 50.98'	83	5.9	475	33	434	54	20	15	0
4218	8/11	58° 39.84'	-150° 09.92'	68	6.0	1,203	80	739	96	10	10	0
4219	8/11	58° 39.96'	-150° 28.94'	111	6.0	427	27	157	21	35	35	0
4220	8/12	58° 40.05'	-150° 49.26'	110	6.0	599	39	84	10	74	54	0
4221	8/5	58° 40.06'	-151° 08.15'	106	5.9	536	33	98	12	25	10	0
4222	7/25	58° 49.93'	-149° 32.09'	123	5.9	154	7	0	0	39	0	0
4223	8/14	58° 50.19'	-149° 50.74'	131	6.0	377	20	47	5	135	0	0
4224	8/14	58° 50.09'	-150° 09.90'	88	6.0	874	54	296	34	64	69	0
4225	8/12	58° 50.04'	-150° 29.97'	91	6.0	706	49	390	48	35	54	0
4226	8/12	58° 49.89'	-150° 48.75'	99	6.0	126	8	205	25	45	130	0
4227	8/5	58° 49.92'	-151° 08.02'	77	6.0	1,063	74	757	96	0	40	0
4228	8/5	58° 50.08'	-151° 28.90'	62	6.0	198	15	644	88	0	54	5
4229	8/14	58° 59.92'	-149° 51.02'	123	6.0	107	5	15	2	64	0	0
4230	8/13	59° 00.10'	-150° 11.22'	105	5.9	166	9	79	10	20	5	5
4231	8/13	59° 00.05'	-150° 30.12'	66	6.0	334	24	413	59	0	69	0
4232	8/13	59° 00.13'	-150° 50.29'	90	5.9	729	37	142	19	5	83	0
4233	8/4	59° 00.03'	-151° 08.98'	78	4.8	1,337	72	316	39	0	59	14
4234	8/4	58° 59.98'	-151° 28.02'	69	5.9	1,026	55	832	106	0	10	0
4235	8/15	59° 10.07'	-150° 10.43'	69	6.0	516	30	348	47	0	60	0
4236	7/22	59° 09.96'	-150° 30.19'	65	5.9	347	22	338	46	0	5	0
4237	7/22	59° 10.38'	-150° 50.11'	70	5.8	307	22	386	48	0	34	0
4238	8/4	59° 09.65'	-151° 08.80'	36	6.0	1,040	40	347	41	0	0	50
4239	7/22	59° 19.88'	-150° 30.74'	115	6.0	1,006	40	94	11	10	124	5
4240	6/25	57° 20.11'	-150° 46.00'	86	6.0	763	48	298	37	20	35	0
4241	6/29	57° 29.89'	-150° 08.98'	251	6.0	0	0	0	0	35	0	5
4242	6/25	57° 30.00'	-150° 27.95'	87	6.0	258	18	224	30	25	35	0
4243	6/25	57° 29.98'	-150° 45.69'	52	6.0	268	18	137	18	0	69	0
4244	6/29	57° 40.00'	-149° 50.26'	220	6.0	157	11	57	6	114	0	30
4245	6/29	57° 40.00'	-150° 09.10'	116	6.0	431	27	121	14	75	15	0
4246	6/26	57° 40.02'	-150° 27.85'	52	6.0	352	26	447	63	0	25	0
4247	6/26	57° 39.98'	-150° 46.90'	46	6.0	1,507	77	457	61	0	35	0
4248	7/25	57° 40.00'	-151° 05.06'	40	6.0	417	22	167	20	0	0	0
4249	7/25	57° 40.00'	-151° 24.01'	35	6.0	413	27	609	72	0	0	0
4250	6/28	57° 50.01'	-149° 32.02'	187	6.0	501	31	77	8	139	0	45
4251	6/28	57° 50.00'	-149° 49.85'	141	6.0	432	29	192	24	47	0	11
4252	6/27	57° 50.00'	-150° 09.55'	107	6.0	359	23	129	17	55	90	0
4253	6/26	57° 50.00'	-150° 27.64'	50	6.0	2,266	134	795	107	0	15	0
4254	7/26	57° 50.06'	-150° 47.00'	46	6.0	834	51	576	72	0	30	0
4255	7/25	57° 49.92'	-151° 06.00'	38	6.0	355	23	926	123	0	10	0
4256	7/25	57° 50.00'	-151° 24.08'	31	6.0	253	16	817	108	0	15	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.

**2013 IPHC Stock Assessment Survey  
Area 3A**

Station	Date Fished	North Latitude	West Longitude	Depth (F)	Skates Set <sup>1</sup>	O32 Halibut		U32 Halibut		Bycatch (numbers) <sup>3</sup>		
						Lbs. <sup>2</sup>	#'s	Lbs. <sup>2</sup>	#'s	Sablefish	P. Cod	Rockfish
4257	7/24	57° 50.00'	-151° 42.89'	29	5.9	46	3	394	57	0	127	0
4258	7/23	57° 49.96'	-152° 02.00'	48	6.0	509	31	460	62	0	60	0
4259	6/28	57° 59.89'	-149° 31.98'	81	6.0	947	63	147	18	5	25	0
4260	6/27	57° 59.98'	-149° 50.95'	126	6.0	1,001	65	167	22	90	30	0
4262	7/27	58° 00.09'	-150° 28.00'	89	6.0	689	49	166	20	20	55	0
4263	7/26	58° 00.00'	-150° 46.95'	70	6.0	749	44	251	31	0	25	0
4264	7/26	57° 59.95'	-151° 06.00'	45	6.0	2,064	131	992	120	0	5	10
4265	7/24	57° 59.99'	-151° 25.12'	42	6.0	1,263	76	329	42	0	20	0
4266	7/24	58° 00.00'	-151° 43.96'	63	6.0	833	56	260	33	0	30	0
4267	7/23	58° 00.00'	-152° 03.04'	96	6.0	1,002	50	87	10	10	126	0
4268	7/23	58° 00.00'	-152° 21.91'	131	6.0	475	22	112	13	0	90	0
4269	7/27	58° 10.00'	-150° 10.05'	81	6.0	4,176	258	421	47	10	20	0
4270	7/27	58° 10.00'	-150° 28.86'	63	6.0	1,430	91	889	109	0	5	0
4271	7/19	58° 10.16'	-150° 48.00'	62	6.0	321	22	231	28	0	164	0
4272	7/19	58° 09.99'	-151° 06.86'	79	6.0	752	53	220	25	25	130	0
4273	7/19	58° 10.00'	-151° 24.92'	90	6.0	1,115	74	119	13	10	145	0
4274	7/20	58° 09.98'	-151° 41.97'	33	6.0	1,780	113	1,222	144	0	0	0
4275	7/18	58° 19.99'	-150° 48.00'	35	6.0	112	9	724	101	0	0	0
4276	7/18	58° 20.00'	-151° 07.03'	69	6.0	668	44	380	45	0	69	0
4277	7/20	58° 19.98'	-151° 25.99'	41	6.0	1,215	83	1,086	135	0	10	5
4278	7/20	58° 20.02'	-151° 45.00'	28	6.0	802	53	802	95	0	0	0
4279	7/18	58° 30.00'	-151° 07.00'	51	6.0	153	12	391	53	0	60	0
4280	7/17	58° 29.70'	-151° 26.98'	92	6.0	1,649	111	238	29	0	99	0
4281	7/17	58° 30.00'	-151° 45.98'	95	6.0	2,236	118	43	5	5	26	5
4282	7/17	58° 40.00'	-151° 26.98'	102	6.0	783	49	199	25	40	80	0
4283	7/16	58° 40.03'	-151° 47.80'	70	6.0	498	32	444	61	0	50	0
4284	7/16	58° 39.97'	-152° 05.50'	71	6.0	713	40	131	16	5	20	0
4285	7/16	58° 48.98'	-152° 05.95'	65	6.0	455	27	436	56	0	25	30
4286	6/30	56° 20.03'	-152° 49.71'	68	5.9	706	44	431	59	5	152	0
4287	6/30	56° 20.23'	-153° 07.96'	48	5.8	637	42	767	94	0	25	0
4288	7/4	56° 20.25'	-153° 26.35'	33	6.0	1,032	49	547	72	0	0	0
4289	6/28	56° 30.09'	-152° 15.00'	116	5.9	643	42	309	35	5	35	20
4290	6/29	56° 30.01'	-152° 33.19'	148	5.9	605	44	339	40	74	0	25
4291	6/30	56° 29.80'	-152° 50.91'	27	5.9	2,690	113	932	115	0	0	0
4292	7/4	56° 29.92'	-153° 09.19'	39	5.9	336	19	436	57	0	83	0
4293	7/4	56° 30.07'	-153° 27.03'	48	5.9	590	35	467	65	0	69	0
4294	7/3	56° 29.95'	-153° 45.49'	33	6.0	2,449	85	242	30	0	78	0
4295	6/28	56° 39.94'	-151° 57.05'	34	5.8	1,542	92	909	119	0	10	0
4296	6/28	56° 39.92'	-152° 14.71'	24	6.0	802	53	1,097	147	0	0	0
4297	6/29	56° 39.91'	-152° 33.94'	77	6.0	768	47	613	80	0	55	0
4298	6/29	56° 39.95'	-152° 52.17'	38	5.9	378	25	928	133	0	0	0
4299	7/2	56° 40.03'	-153° 10.08'	82	5.9	1,085	53	136	16	0	5	0
4300	7/3	56° 39.77'	-153° 27.89'	78	6.0	296	12	86	11	0	115	5
4301	7/3	56° 39.85'	-153° 46.34'	46	5.9	1,035	47	421	55	0	54	0
4302	7/11	56° 49.97'	-151° 40.49'	151	5.9	565	39	243	29	10	0	100
4303	7/11	56° 49.98'	-151° 59.29'	41	5.9	2,143	82	509	68	0	15	0
4304	7/12	56° 50.12'	-152° 16.07'	53	5.9	590	38	1,170	157	0	45	0
4305	7/12	56° 50.00'	-152° 34.92'	76	6.0	268	19	357	45	0	5	0
4306	7/13	56° 50.00'	-152° 53.11'	35	6.0	188	12	592	81	0	10	0
4307	7/2	56° 49.80'	-153° 11.14'	45	5.8	2,231	131	697	82	0	40	0
4308	7/2	56° 50.00'	-153° 29.01'	54	5.9	836	34	567	72	0	20	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.

**2013 IPHC Stock Assessment Survey  
Area 3A**

Station	Date Fished	North Latitude	West Longitude	Depth (F)	Skates Set <sup>1</sup>	O32 Halibut		U32 Halibut		Bycatch (numbers) <sup>3</sup>		
						Lbs. <sup>2</sup>	#'s	Lbs. <sup>2</sup>	#'s	Sablefish	P. Cod	Rockfish
4309	7/11	56° 59.97'	-151° 40.04'	41	5.8	2,108	119	447	53	0	132	10
4310	7/17	56° 59.83'	-151° 58.84'	45	6.0	278	13	672	97	0	80	0
4311	7/12	57° 00.04'	-152° 17.05'	42	6.0	228	13	591	84	0	60	0
4312	7/13	56° 59.85'	-152° 35.23'	85	6.0	606	38	197	24	0	0	0
4313	7/13	56° 59.81'	-152° 53.77'	62	6.0	731	50	421	58	0	55	0
4314	7/10	57° 12.13'	-151° 05.47'	82	6.0	308	22	354	45	15	20	0
4315	7/10	57° 10.02'	-151° 22.23'	70	6.0	2,639	170	277	33	0	59	0
4316	7/17	57° 09.62'	-151° 42.18'	41	5.9	377	26	898	116	0	25	0
4317	7/17	57° 09.88'	-151° 58.43'	37	5.8	447	29	965	120	0	10	0
4318	7/16	57° 10.03'	-152° 18.26'	43	6.0	114	7	335	49	0	80	0
4319	7/16	57° 09.91'	-152° 36.30'	53	5.9	238	17	273	36	0	74	0
4320	7/10	57° 19.96'	-151° 04.03'	50	5.9	762	49	514	66	0	119	0
4321	7/9	57° 20.16'	-151° 23.06'	74	6.0	3,224	217	282	34	10	25	0
4322	7/18	57° 19.91'	-151° 39.22'	34	6.0	486	21	505	62	0	144	0
4323	7/18	57° 20.21'	-151° 59.89'	39	5.8	510	35	374	46	0	29	0
4324	7/16	57° 20.04'	-152° 17.67'	20	5.9	1,917	75	272	33	0	15	0
4325	7/9	57° 29.54'	-151° 05.14'	44	6.0	1,372	66	260	30	0	100	0
4326	7/9	57° 29.86'	-151° 22.80'	48	6.0	819	52	496	59	0	75	0
4327	7/8	57° 29.98'	-151° 41.72'	58	6.0	685	46	334	46	0	15	0
4328	7/18	57° 30.15'	-152° 01.20'	26	6.0	1,499	70	400	44	0	0	0
4329	7/8	57° 39.80'	-151° 42.99'	36	5.9	355	25	880	112	0	15	0
4330	7/8	57° 40.07'	-152° 01.20'	96	6.0	626	40	214	27	5	70	0
4331	8/4	57° 30.00'	-154° 55.00'	127	6.0	277	13	92	11	0	5	0
4332	8/2	57° 40.00'	-154° 34.95'	120	6.0	451	22	72	9	0	5	0
4333	8/4	57° 39.91'	-154° 53.99'	128	6.0	80	3	9	1	5	0	0
4334	8/4	57° 40.00'	-155° 12.94'	163	6.0	0	0	14	2	0	0	0
4335	8/1	57° 50.00'	-154° 14.89'	112	6.0	687	40	395	48	5	35	0
4336	8/2	57° 50.00'	-154° 33.94'	127	6.0	104	6	29	4	0	20	0
4337	8/2	57° 50.00'	-154° 52.90'	159	6.0	39	1	0	0	0	20	0
4338	7/30	58° 00.00'	-153° 36.94'	91	6.0	1,550	96	419	55	0	25	0
4339	8/1	58° 00.00'	-153° 56.03'	108	6.0	836	42	370	45	0	5	0
4340	8/1	58° 00.00'	-154° 13.80'	128	6.0	263	13	159	22	0	20	0
4341	7/30	58° 10.00'	-153° 18.98'	52	6.0	171	10	264	47	0	31	0
4342	7/30	58° 09.93'	-153° 38.00'	107	6.0	352	19	167	20	0	45	0
4343	7/31	58° 10.12'	-153° 57.00'	116	5.7	161	8	35	5	0	5	0
4344	7/13	58° 20.04'	-153° 19.99'	96	6.0	968	48	382	46	0	0	0
4345	7/31	58° 20.00'	-153° 38.86'	94	6.0	593	28	367	45	0	54	0
4346	7/31	58° 20.00'	-153° 57.87'	43	6.0	887	38	210	28	0	10	0
4347	7/12	58° 30.12'	-153° 02.02'	92	6.0	526	32	277	35	0	20	0
4348	7/13	58° 29.89'	-153° 21.02'	99	6.0	499	24	110	16	0	10	0
4349	7/31	58° 29.98'	-153° 40.88'	54	6.0	757	32	226	34	0	90	0
4350	7/11	58° 40.12'	-152° 44.05'	107	6.0	292	17	106	12	0	95	0
4351	7/12	58° 39.97'	-153° 03.01'	86	6.0	1,190	53	196	25	0	65	0
4352	7/12	58° 40.00'	-153° 23.12'	25	6.0	521	20	241	40	0	35	0
4353	7/2	58° 49.98'	-152° 25.98'	96	6.0	770	41	79	10	0	99	0
4354	7/11	58° 50.01'	-152° 45.03'	105	6.0	132	8	102	13	0	100	0
4355	7/11	58° 49.98'	-153° 04.19'	91	6.0	983	42	210	26	0	130	0
4356	7/3	58° 59.97'	-151° 47.82'	73	6.0	689	45	877	116	0	70	0
4357	7/3	58° 59.98'	-152° 06.61'	76	6.0	1,291	83	882	116	0	55	0
4359	7/10	59° 00.00'	-152° 45.78'	91	6.0	648	35	78	9	0	60	0
4360	7/10	59° 00.00'	-153° 04.81'	82	6.0	510	26	94	13	0	105	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.

**2013 IPHC Stock Assessment Survey  
Area 3A**

Station	Date Fished	North Latitude	West Longitude	Depth (F)	Skates Set <sup>1</sup>	O32 Halibut		U32 Halibut		Bycatch (numbers) <sup>3</sup>		
						Lbs. <sup>2</sup>	#'s	Lbs. <sup>2</sup>	#'s	Sablefish	P. Cod	Rockfish
4361	7/3	59° 10.02'	-152° 08.00'	77	6.0	282	19	462	67	0	10	0
4362	7/2	59° 10.04'	-152° 26.99'	56	6.0	210	14	305	47	0	121	0
4363	7/10	59° 09.97'	-152° 47.31'	76	6.0	365	28	378	50	0	50	0
4364	7/9	59° 10.07'	-153° 05.99'	44	6.0	410	12	409	61	0	30	0
4365	7/9	59° 10.01'	-153° 25.96'	22	6.0	278	16	71	9	0	20	0
4366	7/6	59° 20.06'	-152° 06.98'	35	6.0	389	23	1,092	156	0	0	0
4367	7/4	59° 19.98'	-152° 27.77'	39	6.0	240	14	327	50	0	180	0
4368	7/4	59° 20.02'	-152° 47.80'	41	6.0	95	6	463	70	0	130	0
4369	7/9	59° 19.94'	-153° 07.96'	27	6.0	721	40	213	27	0	110	0
4370	7/6	59° 30.00'	-151° 50.13'	38	6.0	442	27	399	52	0	42	0
4371	7/6	59° 29.84'	-152° 08.96'	23	6.0	458	22	944	126	0	0	0
4372	7/5	59° 29.98'	-152° 28.98'	30	6.0	753	48	1,529	198	0	30	0
4373	7/4	59° 29.89'	-152° 48.97'	27	6.0	1,232	73	860	112	0	26	0
4374	7/5	59° 39.83'	-152° 30.01'	43	6.0	917	39	115	13	0	30	0
4375	7/5	59° 49.84'	-152° 11.03'	27	6.0	684	51	1,549	199	0	0	0
<b>372 Total Effective 3A Stations</b>					<b>Totals</b>	<b>258,412</b>	<b>13,368</b>	<b>108,935</b>	<b>14,295</b>	<b>4,094</b>	<b>9,589</b>	<b>2,161</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.