

Table 1

Summary of Recruitment Processes Task ichthyoplankton surveys (1972-2015) with positive tows for larvae used in this study. BS = Bering Sea, GOA = Gulf of Alaska, NSB = North of Bering Sea, WC = U. S. west coast. Bongo = bongo net, neuston = neuston net, Tucker = Tucker trawl. EcoDAAT data not available for years 1973-1976.

Year	Cruise	Area	Dates	Tows	Gear
1972	2KE72	GOA	4/26 - 5/9	67	bongo
1973					
1974					
1975					
1976					
1977	4MF77	GOA	10/30 - 11/14	80 83	Tucker neuston
1978	4DI78	GOA	3/29 - 4/20	85 113	bongo neuston
	2MF78	GOA	6/20 - 7/5	102 112	Tucker neuston
	3MF78	GOA	9/9 - 9/21	26 28	bongo neuston
	4MF78	GOA	9/26 - 10/7	66 45	bongo neuston
	5MF78	GOA	10/19 - 11/1	19 11	bongo neuston
	1WE78	GOA	10/27 - 11/13	88 92	bongo neuston
	6MF78	GOA	11/8 - 11/16	43 21	bongo neuston
1979	1MF79	GOA	2/14 - 3/8	88 89	bongo neuston
	5TK79	GOA	5/16 - 5/24	58	bongo
	3MF79	BS	6/1 - 7/23	126 130	bongo neuston
	1PO79	GOA	9/3 - 9/29	18 48	bongo neuston
1980	1TK80	WC	4/20 - 5/15	125	bongo

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Year	Cruise	Area	Dates	Tows	Gear
				125	neuston
	1PO80	WC	8/1 - 8/25	101	bongo
				101	neuston
1981	1SH81	GOA	3/5 - 3/30	131	bongo
			3/5 - 3/27	130	neuston
	1MF81	GOA	3/12 - 3/20	31	bongo
	2MF81	GOA	3/30 - 4/8	89	bongo
	2SH81	GOA	4/16 - 4/24	60	bongo
				60	neuston
	3MF81	GOA	4/26 - 5/2	79	bongo
	1PO81	WC	5/9 - 6/2	131	bongo
				123	neuston
	4MF81	GOA	5/20 - 5/24	80	bongo
	3SH81	GOA	5/20 - 5/28	56	bongo
	1DA81	WC	10/24 - 11/21	125	bongo
				125	neuston
1982	1DA82	GOA	4/4 - 4/23	83	bongo
				82	neuston
	1PO82	WC	5/3 - 6/1	56	bongo
				124	neuston
	2DA82	GOA	5/21 - 5/31	62	bongo
				61	neuston
1983	1EQ83	WC	4/23 - 5/15	124	bongo
				124	neuston
	1CH83	GOA	5/14 - 5/30	68	bongo
			5/14 - 5/28	73	neuston
	1MF83	WC	11/12 - 12/2	113	bongo
				113	neuston
1984	1PO84	WC	3/11 - 4/5	124	bongo
				124	neuston
1984	3CH84	GOA	3/28	4	bongo
	1SH84	GOA	4/7 - 5/4	157	bongo
				157	neuston

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Year	Cruise	Area	Dates	Tows	Gear
1985	1DI85	GOA	3/11 - 3/28	69	bongo
	1PO85	GOA	3/29 - 4/21	154	bongo
				151	neuston
	1MF85	GOA	4/9	36	bongo
	1BA85	WC	4/19 - 5/11	124	bongo
124				neuston	
1985	2MF85	GOA	5/3 - 5/11	62	bongo
	2PO85	GOA	5/16 - 6/8	189	bongo
				189	neuston
1986	MF862	BS	2/16 - 2/28	48	bongo
	1GI86	GOA	3/30 - 4/20	149	bongo
				149	neuston
	1MF86	GOA	4/4 - 4/12	81	bongo
	2MF86	GOA	5/2 - 5/18	108	bongo
1987	1MF87	WC	1/7 - 1/28	88	bongo
	88			neuston	
	2MF87	GOA	4/4 - 4/16	143	bongo
	1BB87	GOA	4/9 - 4/27	117	bongo
	3MF87	GOA	5/19 - 5/27	60	bongo
	4MF87	GOA	6/20 - 7/11	19	bongo
1988	1OC88	BS	3/17 - 4/4	61	bongo
	1DN88	GOA	3/19 - 4/11	157	bongo
	1MF88	GOA	4/1 - 4/12	173	bongo
	1DN88	BS	4/11 - 5/8	46	bongo
	2MF88	GOA	4/17 - 4/30	64	bongo
	3MF88	GOA	5/6	13	bongo
	4MF88	GOA	5/20 - 6/7	176	Tucker
1989	1MF89	GOA	4/6 - 4/15	128	bongo
	2MF89	GOA	4/26 - 5/5	92	bongo
	3MF89	GOA	5/9 - 5/24	211	bongo
	4MF89	GOA	5/29 - 6/5	99	Tucker

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Year	Cruise	Area	Dates	Tows	Gear
1990	1MF90	GOA	4/8 - 4/13	107	bongo
	2MF90	GOA	5/7 - 5/15	90	bongo
	3MF90	GOA	5/18 - 5/24	17	bongo
	4MF90	GOA	5/28 - 6/5	133	bongo
	5MF90	GOA	9/8 - 9/20	6	bongo
1991	0MF91	BS	3/11 - 3/15	20	bongo
	1MF91	GOA	4/2 - 4/13	90	bongo
	1MP91	BS	4/14 - 5/8	61	bongo
	2MF91	GOA	4/16 - 4/27	150	bongo
	3MF91	GOA	5/1 - 5/13	119	bongo
	4MF91	GOA	5/17 - 5/25	97	bongo
1992	1MF92	GOA	4/5 - 4/10	94	bongo
	2MF92	BS	4/16 - 4/18	36	bongo
	3MF92	GOA	5/2 - 5/14	158	bongo
	4MF92	GOA	5/18 - 5/28	137	bongo
1993	2MF93	GOA	4/6 - 4/11	96	bongo
	3MF93	BS	4/15 - 4/30	119	bongo
	4MF93	GOA	5/3 - 5/13	141	bongo
	5MF93	GOA	5/23 - 6/3	114	bongo
	6MF93	GOA	9/7 - 9/17	12	Tucker
1994	3MF94	GOA	3/14 - 4/9	19	bongo
	4MF94	GOA	4/15 - 4/30	128	bongo
	5MF94	GOA	5/2 - 5/15	89	bongo
	6MF94	GOA	5/24 - 6/1	139	bongo
	7MF94	BS	7/17 - 9/6	10	neuston
1994	1SU94	BS	9/4 - 9/13	30	bongo
			9/12	2	neuston
	8MF94	BS	9/21 - 9/24	2	neuston
	8MF94	GOA	9/25 - 9/28	2	neuston
1995	1MF95	BS	2/19	1	bongo
	1MF95	BS	2/22	2	bongo
	2MF95	BS	3/8	1	bongo

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Year	Cruise	Area	Dates	Tows	Gear
	4MF95	GOA	3/17 - 3/24	5	bongo
	6MF95	BS	4/17 - 4/30	137	bongo
	7MF95	BS	5/4 - 5/18	134	bongo
	8MF95	GOA	5/21 - 5/28	99	bongo
	2SU95	BS	9/11 - 9/18	16	Tucker
	1OM95	BS	7/19 - 7/31	3	Tucker
1996	2MF96	BS	3/6	1	bongo
	5MF96	BS	4/23 - 4/24	4	Tucker
	1DI96	GOA	4/26 - 5/6	154	bongo
	6MF96	GOA	5/2 - 5/14	177	bongo
	6MF96	BS	5/15	5	bongo
	7MF96	BS	5/19 - 5/20	5	Tucker
	8MF96	GOA	5/24 - 6/1	130	bongo
	9MF96	BS	7/21 - 8/7	16	bongo
1997	5MF97	BS	4/15 - 5/1	34	bongo
	6MF97	BS	5/3 - 5/13	32	bongo
	8MF97	GOA	5/23 - 5/31	100	bongo
	4WE97	BS	6/29 - 7/14	67	bongo
1998	2MF98	BS	4/14 - 4/29	20	bongo
	4MF98	GOA	5/1 - 5/10	72	bongo
	5MF98	GOA	5/21 - 5/30	130	bongo
	3WE98	GOA	6/17 - 6/30	26	bongo
1999	1MF99	BS	4/10 - 4/19	37	bongo
	1WE99	GOA	5/7 - 5/9	6	bongo
1999	4MF99	BS	5/12 - 5/20	21	bongo
	5MF99	GOA	5/12 - 6/2	114	bongo
	2WE99	GOA	5/21 - 6/5	202	bongo
	1GP99	BS	7/12 - 7/26	60	bongo
2000	2MF00	BS	2/15 - 2/16	2	bongo
	5MF00	BS	5/1 - 5/12	67	bongo
	6MF00	GOA	5/25 - 6/4	142	bongo
	7MF00	BS	6/21 - 7/3	14	bongo

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Year	Cruise	Area	Dates	Tows	Gear
	1OM00	BS	7/21 - 8/3	8	bongo
	8MF00	GOA	9/2 - 9/20	103	Tucker
	1RB00	BS	9/16 - 9/23	16	bongo
2001	1MF01	GOA	6/21 - 2/5	18	bongo
	2MF01	GOA	4/28 - 5/8	148	bongo
	1RB01	GOA	5/13 - 5/23	81	bongo
	3MF01	GOA	5/24 - 6/2	148	bongo
	1OM01	BS	7/14 - 7/29	9	bongo
	4MF01	GOA	9/2 - 9/19	90	Tucker
				40	neuston
2002	3MF02	BS	5/12 - 5/21	80	bongo
				80	neuston
	1EW02	GOA	5/22 - 6/10	124	bongo
	4MF02	GOA	5/23 - 6/1	137	bongo
	1MA02	BS	8/14 - 8/28	5	bongo
	1SS02	BS	8/20 - 10/6	108	bongo
	5MF02	GOA	9/8 - 9/23	122	bongo
				136	neuston
	1NW02	BS	9/8 - 10/6	42	bongo
2003	1MF03	GOA	2/13 - 2/22	66	bongo
				26	neuston
	2MF03	BS	2/24 - 3/7	15	bongo
	2KM03	GOA	4/29 - 5/11	67	bongo
	4MF03	BS	5/17 - 5/24	120	bongo
2003				58	neuston
	5MF03	GOA	5/25 - 6/2	115	bongo
				4	neuston
	1OM03	BS	7/19 - 7/26	5	bongo
	7MF03	GOA	9/7 - 9/21	67	Tucker
	1SS03	GOA	9/9 - 9/27	45	bongo
	3KM03	GOA	9/20 - 9/26	5	bongo
2004	5MF04	GOA	5/23 - 6/3	190	bongo

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Year	Cruise	Area	Dates	Tows	Gear
	2HX04	GOA	7/8 - 7/19	60	bongo
	1OM04	BS	7/28 - 8/5	6	bongo
	1KR04	BS	8/10 - 8/22	36	bongo
	1SS04	BS	8/14 - 9/28	97	bongo
	7MF04	GOA	9/9 - 9/22	91	bongo
				90	neuston
	8MF04	BS	9/24 - 10/4	11	bongo
2005	2MF05	GOA	2/21 - 3/4	118	bongo
				51	neuston
	1TT05	GOA	4/28 - 5/7	23	bongo
	5MF05	BS	5/9 - 5/20	94	bongo
				74	neuston
	3TT05	BS	5/16 - 5/27	42	bongo
	6MF05	GOA	5/21 - 6/3	193	bongo
	1OM05	BS	7/15 - 7/21	9	bongo
	1FA05	GOA	7/19 - 7/28	47	bongo
	1SS05	BS	8/14 - 10/7	118	bongo
	7MF05	GOA	9/5 - 9/19	79	Tucker
	8MF05	BS	9/21 - 10/4	16	bongo
2006	1TT06	BS	4/12 - 5/10	92	bongo
	3MF06	BS	5/8 - 5/19	90	bongo
				90	neuston
	4MF06	GOA	5/21 - 6/1	175	bongo
	1OM06	BS	6/21 - 6/28	21	bongo
	1AR06	BS	7/10 - 7/25	15	bongo
	5MF06	GOA	8/16 - 8/31	19	bongo
	1SS06	BS	8/18 - 9/20	99	bongo
	1NW06	BS	8/23 - 9/5	36	bongo
	6MF06	BS	9/8 - 9/23	86	bongo
				86	neuston
2007	2MF07	GOA	4/6 - 4/12	75	bongo
	1HE07	BS	4/10 - 5/12	64	bongo
	3MF07	BS	4/18 - 4/28	6	bongo
	4MF07	BS	5/7 - 5/18	101	bongo

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Year	Cruise	Area	Dates	Tows	Gear
				84	neuston
	5MF07	GOA	5/19 - 5/28	134	bongo
	1AR07	BS	6/8 - 6/22	12	bongo
	2AR07	BS	6/25 - 7/11	16	bongo
	1OM07	BS	7/25 - 8/1	12	bongo
	1SS07	BS	8/15 - 10/8	126	bongo
	6MF07	GOA	9/5 - 9/15	65	Tucker
	2DY07	BS	9/5 - 9/25	47	bongo
	1TT07	BS	9/27 - 10/11	75	bongo
	8MF07	BS	10/3 - 10/11	14	bongo
2008	1MF08	BS	2/18 - 2/26	44	bongo
	1DY08	BS	2/19 - 2/28	9	bongo
	2DY08	BS	5/7 - 5/10	11	bongo
	3DY08	BS	5/12 - 5/21	65	bongo
	4DY08	GOA	5/24 - 5/30	95	bongo
	1AR08	BS	6/3 - 6/16	14	bongo
	2AR08	BS	6/20 - 6/29	8	bongo
	3AR08	BS	7/11 - 7/18	7	bongo
	1OE08	NBS	8/6 - 8/22	38	bongo
	1ME08	BS	8/26 - 9/11	93	bongo
	6DY08	BS	9/11 - 9/27	32	bongo
	3MF08	BS	9/11 - 9/20	49	bongo
2009	1DY09	BS	2/25 - 3/4	28	bongo
	2DY09	BS	4/24 - 5/4	12	bongo
	3DY09	BS	5/7 - 5/20	87	bongo
				78	neuston
	4DY09	GOA	5/26 - 6/6	152	bongo
	1AR09	BS	6/2 - 6/17	9	bongo
	2AR09	BS	6/18 - 7/7	11	bongo
	3AR09	BS	7/12 - 7/30	10	bongo
	1EE09	BS	9/1 - 9/14	41	bongo
	5DY09	BS	9/3 - 9/27	53	bongo
	1KR09	NBS	9/4 - 9/29	24	bongo

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Year	Cruise	Area	Dates	Tows	Gear
	1MF09	GOA	9/6 - 9/19	137	Tucker
	2MF09	BS	9/24 - 10/10	67	bongo
2010	1NW10	GOA	4/15 - 4/24	44	bongo
	1DY10	BS	4/27 - 5/1	8	bongo
	2DY10	BS	5/6 - 5/17	102	bongo
				102	neuston
	3DY10	GOA	5/22 - 5/31	163	bongo
	1AK10	BS	6/6 - 6/26	21	bongo
	2AK10	BS	6/30 - 7/16	17	bongo
	2NW10	GOA	7/4 - 7/22	68	bongo
	3AK10	BS	7/23 - 8/7	15	bongo
	4DY10	BS	8/18 - 9/24	92	bongo
	1WE10	BS	8/23 - 9/2	79	bongo
	1MF10	BS	9/9	2	bongo
	1EE10	BS	9/9 - 10/4	36	bongo
2011	1TX11	GOA	4/26 - 5/11	46	bongo
				47	neuston
	1TT11	GOA	4/30 - 5/21	114	bongo
				116	neuston
	1DY11	BS	5/18 - 5/28	37	bongo
	2DY11	GOA	6/2 - 6/9	72	bongo
				20	neuston
	1AK11	BS	6/5 - 6/20	8	bongo
	2AK11	BS	6/24 - 7/11	11	bongo
	1NW11	GOA	7/3 - 7/17	49	bongo
				52	neuston
	3AK11	BS	7/14 - 7/21	7	bongo
	2NW11	GOA	8/2 - 8/21	53	bongo
				54	neuston
	1BE11	BS	8/21 - 9/19	78	bongo
	4DY11	BS	8/23 - 9/15	49	bongo
	3DY11	BS	9/20 - 9/28	46	bongo
	7DY11	GOA	10/1 - 10/14	9	bongo

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Year	Cruise	Area	Dates	Tows	Gear
2012	1DY12	BS	4/26 - 5/09	66	bongo
	2DY12	BS	5/16 - 6/02	195	bongo
	1NW12	GOA	7/03 - 7/22	65	bongo
	2NW12	GOA	8/03 - 8/20	61	bongo
	1BE12	NBS	8/07 - 8/22	64	bongo
	3DY12	BS	8/19 - 10/10	141	bongo
	2BE12	NBS	8/28 - 9/11	42	bongo
	1KR12	NBS	8/28 - 9/17	18	bongo
	3BE12	BS	9/12 - 9/24	36	bongo
2013	DY13-04	GOA	4/4-4/24	114	bongo
				112	neuston
	1TX13	GOA	4/26-5/10	25	bongo
				14	neuston
	DY13-05	BS	4/29-5/11	28	bongo
	DY13-06	GOA	5/17-6/1	226	bongo
				43	neuston
	1NW13	GOA	7/3-7/21	69	bongo
				68	neuston
	2NW13	GOA	8/3-8/22	52	bongo
				54	neuston
	BE13-01	NBS	8/8-8/18	42	bongo
	DY13-08	GOA	8/17-9/17	224	bongo
BE13-02	NBS	8/22-9/11	60	bongo	
BE13-03	NBS	9/12-9/24	38	bongo	
2014	DY14-05	BS	5/7-5/17	50	bongo
	DY14-06	BS	5/21-6/7	240	bongo
	NW14-01	GOA	6/27-6/29	8	bongo
	NW14-02	GOA	7/7-7/24	66	bongo
	NW14-03	GOA	7/27-8/2	9	bongo
	NW14-04	GOA	8/5-8/25	71	bongo
	DY14-08	BS	8/18-10/3	183	bongo
	NW14-05	GOA	8/29-9/4	9	bongo
	AE14-01	NBS	9/4-9/11	26	bongo
	AE14-02	NBS/BS	9/14-9/22	25	bongo

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Year	Cruise	Area	Dates	Tows	Gear
2015	DY15-04	BS	4/26-5/9	32	bongo
	DY15-05	GOA	5/15-6/6	250	bongo
	NW15-01	GOA	6/26-7/3	9	bongo
	NW15-02	GOA	7/5-7/25	65	bongo
	RB15-04	GOA	7/17-7/31	85	bongo
	NW15-03	GOA	7/26-8/3	9	bongo
	NW15-01L2A	GOA	8/5-8/26	67	bongo
	RB15-05	Arctic	8/6-9/4	8	bongo
	DY15-07	GOA	8/20-9/2	74	bongo
	NW15-04	GOA	8/28-9/3	9	bongo
	AE15-01	NBS	9/1-9/25	38	bongo
	DY15-08	BS	9/5-10/6	92	bongo
	Totals				23,827