

**Table B-1. First quarterly survey 4-hour soak time results 09/08/2003**

Deployment date:	9/8/2003	Retrieval date:	9/8/2003
Higher high tide, ft. MLLW (time):	11.3 (17:31)	Lower high tide, ft. MLLW (time):	9.4 (03:08)
Higher low tide, ft. MLLW (time):	5.2 (23:05)	Lower low tide, ft. MLLW (time):	-0.9 (10:13)
Crew:	Bob Complita and Maryann Welsch (Windward), Pete Heltzel (SAIC)		

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH	SEX	COMMENTS
	LATITUDE	LONGITUDE						
WWS-1	47 34.14	122 21.04	17:13	21:35	<i>C. gracilis</i>	111	M	Crab trap
					<i>C. gracilis</i>	109	M	
					<i>C. gracilis</i>	101	M	
					<i>C. gracilis</i>	92	M	
					<i>C. gracilis</i>	110	M	
					<i>C. gracilis</i>	104	M	
					<i>C. gracilis</i>	106	M	
					<i>C. productus</i>	163	M	
					<i>C. productus</i>	170	M	
					<i>C. productus</i>	127	F	
					<i>C. productus</i>	131	F	
					<i>C. productus</i>	130	F	
					<i>C. productus</i>	113	F	
					<i>C. magister</i>	154	M	
					<i>C. magister</i>	147	M	
					<i>C. magister</i>	149	M	
					<i>C. magister</i>	170	M	
					<i>C. magister</i>	174	M	
					<i>C. magister</i>	157	M	
					<i>C. magister</i>	159	M	
					<i>C. magister</i>	145	M	
					<i>C. magister</i>	155	M	
					<i>C. magister</i>	142	M	
					<i>C. magister</i>	140	M	
					<i>C. magister</i>	141	F	
					<i>C. magister</i>	125	F	
WWS-1	47 34.14	122 21.03	17:08	na	Shrimp trap, no data, trap missing at retrieval, redeployed 09/09/03			
WWS-2	47 34.07	122 20.83	17:03	21:20	<i>C. gracilis</i>	102	M	Crab trap
					<i>C. gracilis</i>	106	M	
					<i>C. gracilis</i>	102	M	
					<i>C. gracilis</i>	110	M	
					<i>C. gracilis</i>	104	M	
					<i>C. gracilis</i>	89	M	
					<i>C. productus</i>	156	M	
					<i>C. magister</i>	164	M	
					<i>C. magister</i>	165	M	

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH	SEX	COMMENTS
	LATITUDE	LONGITUDE						
WWS-2	47 34.09	122 20.83	16:59	21:18	Staghorn sculpin	100 - 150		Shrimp trap
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	150 - 200		
					<i>C. gracilis</i>	99	M	
WWS-3	47 34.02	122 20.92	16:55	21:07	<i>C. gracilis</i>	115	M	Crab trap
					<i>C. gracilis</i>	103	M	
					<i>C. gracilis</i>	101	M	
					<i>C. gracilis</i>	107	M	
					<i>C. gracilis</i>	113	M	
					<i>C. gracilis</i>	96	M	
					<i>C. productus</i>	184	M	
					<i>C. productus</i>	136	F	
					<i>C. magister</i>	138	M	
					<i>C. magister</i>	160	M	
					<i>C. magister</i>	151	M	
					<i>C. magister</i>	153	M	
					<i>C. magister</i>	163	M	
					<i>C. magister</i>	159	M	
					<i>C. magister</i>	183	M	
					<i>C. magister</i>	160	M	
WWS-3	47 34.02	122 20.92	16:50	21:00	<i>P. danae</i>	92		Shrimp trap, shrimp total length measured (rostrum to telson)
WWS-4	47 33.96	122 20.82	16:45	20:55	<i>C. gracilis</i>	104	M	Crab trap
					<i>C. gracilis</i>	111	M	
					<i>C. gracilis</i>	100	M	
					<i>C. gracilis</i>	109	M	
					<i>C. gracilis</i>	103	M	
					<i>C. productus</i>	130	F	
					<i>C. productus</i>	137	M	
					<i>C. productus</i>	130	F	
					<i>C. productus</i>	165	M	
					<i>C. productus</i>	118	F	
					<i>C. productus</i>	131	F	
					<i>C. productus</i>	164	M	
					<i>C. productus</i>	135	M	
					<i>C. magister</i>	176	M	
					<i>C. magister</i>	152	M	
					<i>C. magister</i>	121	M	
WWS-4	47 33.96	122 20.82	16:41	20:50	<i>C. gracilis</i>	96	M	Shrimp trap
WWS-5	47 33.88	122 20.87	16:36	20:45	Sunflower star			Crab trap
					<i>C. gracilis</i>	103	M	
					<i>C. gracilis</i>	102	M	
					<i>C. gracilis</i>	112	M	
					<i>C. gracilis</i>	111	M	

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH	SEX	COMMENTS
	LATITUDE	LONGITUDE						
					<i>C. gracilis</i>	109	M	
					<i>C. gracilis</i>	103	M	
					<i>C. productus</i>	153	M	
					<i>C. productus</i>	131	F	
					<i>C. magister</i>	161	M	
WWS-5	47 33.88	122 20.87	16:33	20:40	<i>C. gracilis</i>	88	M	Shrimp trap
					<i>C. gracilis</i>	98	M	
WWS-6	47 33.80	122 20.77	16:26	20:30	<i>C. gracilis</i>	105	M	Crab trap
					<i>C. gracilis</i>	104	M	
					<i>C. gracilis</i>	82	F	
					<i>C. gracilis</i>	90	M	
					<i>C. gracilis</i>	99	M	
					<i>C. gracilis</i>	80	F	
WWS-6	47 33.80	122 20.77	16:24	20:25	<i>C. gracilis</i>	80	F	Shrimp trap
WWS-7	47 33.71	122 20.89	16:19	20:20	<i>C. gracilis</i>	95	M	Crab trap
					<i>C. gracilis</i>	107	M	
					<i>C. gracilis</i>	76	F	
					<i>C. gracilis</i>	88	M	
					<i>C. gracilis</i>	97	M	
					<i>C. gracilis</i>	102	M	
					<i>C. productus</i>	126	F	
WWS-7	47 33.71	122 20.90	16:16	20:15				Shrimp trap, empty
WWS-8	47 33.69	122 20.75	16:11	20:10	<i>C. gracilis</i>	82	F	Crab trap
					<i>C. gracilis</i>	105	M	
					<i>C. gracilis</i>	100	M	
					<i>C. gracilis</i>	80	F	
					<i>C. gracilis</i>	98	M	
					<i>C. gracilis</i>	100	M	
					<i>C. gracilis</i>	99	M	
					<i>C. gracilis</i>	88	M	
					<i>C. gracilis</i>	92	M	
					<i>C. gracilis</i>	95	M	
WWS-8	47 33.69	122 20.75	16:08	20:05	Staghorn sculpin	100 - 150		Shrimp trap
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	150 - 200		
					<i>C. gracilis</i>	85	M	
					<i>C. gracilis</i>	85	M	
WWS-9	47 33.58	122 20.81	16:01	19:55	<i>C. gracilis</i>	102	M	Crab trap
								Fell through mesh, sex and length not recorded
					<i>C. gracilis</i>	na	na	
					<i>C. gracilis</i>	94	M	
					<i>C. gracilis</i>	84	M	
					<i>C. gracilis</i>	93	M	
					<i>C. gracilis</i>	92	M	
					<i>C. gracilis</i>	80	F	
					<i>C. gracilis</i>	104	M	

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH	SEX	COMMENTS
	LATITUDE	LONGITUDE						
					<i>C. gracilis</i>	96	M	
					<i>C. gracilis</i>	102	M	
					<i>C. magister</i>	163	M	
					<i>C. magister</i>	133	M	
WWS-9	47 33.58	122 20.81	15:57	19:50	Shiner surfperch	80 - 100 (FL)		Shrimp trap
					Shiner surfperch	80 - 100 (FL)		
					<i>C. gracilis</i>	87	M	
					<i>C. gracilis</i>	98	M	
WWS-10	47 33.57	122 20.71	15:48	19:50	Sunflower star			Crab trap
					<i>C. gracilis</i>	96	M	
					<i>C. gracilis</i>	94	M	
					<i>C. gracilis</i>	104	M	
					<i>C. gracilis</i>	97	M	
					<i>C. gracilis</i>	87	F	
					<i>C. gracilis</i>	104	M	
					<i>C. magister</i>	165	M	
					<i>C. magister</i>	160	M	
WWS-10	47 33.58	122 20.71	15:46	19:45	<i>C. gracilis</i>	97	M	Shrimp trap
					<i>C. gracilis</i>	95	M	
					<i>C. gracilis</i>	79	F	

**Table B-2. First quarterly 4-hour soak time results 09/09/2003**

Deployment date:	9/9/2003	Retrieval date:	9/9/2003
Higher high tide, ft. MLLW (time):	11.3 (18:04)	Lower high tide, ft. MLLW (time):	9.6 (04:09)
Higher low tide, ft. MLLW (time):	4.5 (23:44)	Lower low tide, ft. MLLW (time):	-0.6 (10:58)
Crew:	Bob Complita, Maryann Welsch, and Derek Pelletier (Windward)		

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH	SEX	COMMENTS
	LATITUDE	LONGITUDE						
WWS-1	47 34.13	122 21.04	16:00	na	Shrimp trap, re-deploy from 09/08/03, trap missing at retrieval, no further re-deployment			
WWS-11	47 33.50	122 20.70	16:15	19:55	<i>C. gracilis</i>	107	M	Crab trap
					<i>C. gracilis</i>	92	M	
					<i>C. gracilis</i>	96	M	
					<i>C. gracilis</i>	100	M	
					<i>C. gracilis</i>	99	M	
					<i>C. gracilis</i>	100	M	
					<i>C. gracilis</i>	101	M	
					<i>C. magister</i>	150	M	
					<i>C. magister</i>	160	M	
					<i>C. magister</i>	124	M	
					<i>C. magister</i>	175	M	
					<i>C. magister</i>	115	M	
WWS-11	47 33.50	122 20.70	16:21	20:07	Staghorn sculpin	150 - 200		Shrimp trap
					<i>C. gracilis</i>	77	F	
					<i>C. gracilis</i>	91	M	
WWS-12	47 33.40	122 20.44	16:30	20:12	<i>C. gracilis</i>	88	M	Crab trap
					<i>C. gracilis</i>	100	M	
					<i>C. gracilis</i>	76	F	
					<i>C. gracilis</i>	78	F	
					<i>C. gracilis</i>	95	M	
WWS-12	47 33.40	122 20.44	16:31	20:16	Staghorn sculpin	100 - 150		Shrimp trap
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	150 - 200		
					<i>C. gracilis</i>	76	M	
WWS-13	47 33.36	122 20.61	16:39	20:23	<i>C. gracilis</i>	97	M	Crab trap
					<i>C. gracilis</i>	103	M	
					<i>C. gracilis</i>	100	M	
					<i>C. gracilis</i>	99	M	
					<i>C. gracilis</i>	103	M	
					<i>C. gracilis</i>	95	M	
					<i>C. gracilis</i>	96	M	
					<i>C. gracilis</i>	78	F	
					<i>C. gracilis</i>	102	M	

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH	SEX	COMMENTS
	LATITUDE	LONGITUDE						
					<i>C. gracilis</i>	102	M	
					<i>C. gracilis</i>	87	F	
					<i>C. gracilis</i>	100	M	
					<i>C. gracilis</i>	77	F	
					<i>C. gracilis</i>	84	M	
WWS-13	47 33.36	122 20.61	16:41	20:30	Staghorn sculpin	100 - 150		Shrimp trap
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	200+		
					Staghorn sculpin	150 - 200		
					<i>C. gracilis</i>	104	M	
					<i>C. gracilis</i>	64	F	
					<i>C. gracilis</i>	87	M	
					<i>C. gracilis</i>	70	F	
WWS-14	47 33.34	122 20.78	16:47	20:35	<i>C. gracilis</i>	78	F	Crab trap
					<i>C. gracilis</i>	94	M	
					<i>C. gracilis</i>	93	M	
					<i>C. gracilis</i>	95	M	
					<i>C. gracilis</i>	90	M	
					<i>C. gracilis</i>	89	M	
					<i>C. gracilis</i>	102	M	
					<i>C. gracilis</i>	92	M	
					<i>C. gracilis</i>	77	F	
WWS-14	47 33.34	122 20.78	16:48	20:39	<i>C. gracilis</i>	84	F	Shrimp trap
					<i>C. gracilis</i>	97	M	
					<i>C. gracilis</i>	84	M	
WWS-15	47 33.24	122 20.51	16:58	20:45	<i>C. gracilis</i>	101	M	Crab trap
					<i>C. gracilis</i>	96	M	
					<i>C. gracilis</i>	95	M	
					<i>C. gracilis</i>	92	M	
					<i>C. gracilis</i>	103	M	
					<i>C. gracilis</i>	99	M	
					<i>C. gracilis</i>	93	M	
					<i>C. gracilis</i>	88	F	
					<i>C. gracilis</i>	90	M	
					<i>C. gracilis</i>	77	F	
					<i>C. gracilis</i>	97	M	
					<i>C. gracilis</i>	73	F	
					<i>C. gracilis</i>	71	F	
					<i>C. gracilis</i>	100	M	
					<i>C. gracilis</i>	102	M	
					<i>C. gracilis</i>	70	F	
WWS-15	47 33.24	122 20.51	16:58	20:50	Staghorn sculpin	150 - 200		Shrimp trap
					<i>C. gracilis</i>	87	M	
					<i>C. gracilis</i>	75	F	

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH	SEX	COMMENTS
	LATITUDE	LONGITUDE						
					<i>C. gracilis</i>	95	M	
					<i>C. gracilis</i>	70	F	Gravid
					<i>C. gracilis</i>	70	F	
					<i>C. gracilis</i>	84	F	
WWS-16	47 33.12	122 20.41	17:04	20:56	<i>C. gracilis</i>	102	M	Crab trap
					<i>C. gracilis</i>	95	M	
					<i>C. gracilis</i>	95	M	
					<i>C. gracilis</i>	104	M	
					<i>C. gracilis</i>	101	M	
					<i>C. gracilis</i>	99	M	
					<i>C. gracilis</i>	100	M	
					<i>C. gracilis</i>	88	M	
					<i>C. gracilis</i>	83	M	
					<i>C. gracilis</i>	76	F	
					<i>C. gracilis</i>	104	M	
WWS-16	47 33.12	122 20.41	17:04	21:01	Staghorn sculpin	100 - 150		Shrimp trap
					Staghorn sculpin	100 - 150		
					Staghorn sculpin	100 - 150		
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	200+		
					Staghorn sculpin	200+		
					Staghorn sculpin	150 - 200		
					<i>C. gracilis</i>	74	F	
					<i>C. gracilis</i>	89	M	
					<i>C. gracilis</i>	83	F	
					<i>C. gracilis</i>	71	F	
WWS-17	47 32.99	122 20.42	17:13	21:06	<i>C. gracilis</i>	101	M	Crab trap
					<i>C. gracilis</i>	99	M	
					<i>C. gracilis</i>	98	M	
					<i>C. gracilis</i>	98	M	
					<i>C. gracilis</i>	90	M	
					<i>C. gracilis</i>	88	M	
					<i>C. gracilis</i>	102	M	
					<i>C. gracilis</i>	90	M	
					<i>C. gracilis</i>	93	M	
					<i>C. gracilis</i>	75	F	
					<i>C. gracilis</i>	88	M	
					<i>C. productus</i>	135	M	
WWS-17	47 32.99	122 20.42	17:13	21:13	Staghorn sculpin	150 - 200		Shrimp trap

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH	SEX	COMMENTS
	LATITUDE	LONGITUDE						
					Staghorn sculpin	100 - 150		
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	150 - 200		
					<i>C. gracilis</i>	73	F	
					<i>C. gracilis</i>	102	M	
					<i>C. gracilis</i>	78	F	
WWS-18	47 32.90	122 20.33	17:18	21:17	<i>C. gracilis</i>	98	M	Crab trap
					<i>C. gracilis</i>	104	M	
					<i>C. gracilis</i>	95	M	
					<i>C. gracilis</i>	98	M	
					<i>C. gracilis</i>	101	M	
					<i>C. gracilis</i>	83	M	
					<i>C. gracilis</i>	99	M	
					<i>C. gracilis</i>	105	M	
					<i>C. gracilis</i>	96	M	
					<i>C. gracilis</i>	65	F	
					<i>C. productus</i>	134	M	
WWS-18	47 32.90	122 20.33	17:18	21:22	Staghorn sculpin	100 - 150		Shrimp trap
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	150 - 200		
					<i>C. gracilis</i>	101	M	
					<i>C. gracilis</i>	90	M	
					<i>C. gracilis</i>	97	M	
					<i>C. gracilis</i>	95	M	
WWS-19	47 32.79	122 20.32	17:24	21:28	<i>C. gracilis</i>	101	M	Crab trap
					<i>C. gracilis</i>	97	M	
					<i>C. gracilis</i>	101	M	
					<i>C. gracilis</i>	90	M	
					<i>C. gracilis</i>	83	M	
					<i>C. gracilis</i>	102	M	
					<i>C. gracilis</i>	106	M	
					<i>C. gracilis</i>	94	M	
					<i>C. gracilis</i>	74	F	
					<i>C. gracilis</i>	82	F	
WWS-19	47 32.79	122 20.32	17:24	21:32	Staghorn sculpin	100 - 150		Shrimp trap
					Staghorn sculpin	100 - 150		



SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH	SEX	COMMENTS
	LATITUDE	LONGITUDE						
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	200+		
					Staghorn sculpin	200+		
					Staghorn sculpin	200+		
					Staghorn sculpin	200+		
					Staghorn sculpin	200+		
WWS-20	47 32.78	122 20.17	17:29	21:39	<i>C. gracilis</i>	90	M	Crab trap
					<i>C. gracilis</i>	91	M	
					<i>C. gracilis</i>	81	F	
					<i>C. gracilis</i>	90	F	
					<i>C. gracilis</i>	71	M	
					<i>C. gracilis</i>	93	M	
					<i>C. gracilis</i>	84	M	
					<i>C. gracilis</i>	81	M	
					<i>C. gracilis</i>	83	F	
					<i>C. gracilis</i>	87	M	
WWS-20	47 32.78	122 20.17	17:29	21:48	Staghorn sculpin	150 - 200		Shrimp trap
					Staghorn sculpin	150 - 200		

**Table B-3. First quarterly survey 4-hour soak time results 09/10/2003**

Deployment date:	9/10/2003	Retrieval date:	9/10/2003
Higher high tide, ft. MLLW (time):	11.2 (18:31)	Lower high tide, ft. MLLW (time):	9.7 (05:04)
		Low tide, ft. MLLW (time):	-0.1 (11:38)
Crew:	Bob Complita and Maryann Welsch (Windward), Andy Dalton (Muckleshoot) – deployment phase, and Derek Pelletier (Windward) – retrieval phase		

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH	SEX	COMMENTS
	LATITUDE	LONGITUDE						
WWS-21	47 32.65	122 20.22	16:33	20:33	<i>C. gracilis</i>	91	M	Crab trap
					<i>C. gracilis</i>	96	M	
					<i>C. gracilis</i>	99	M	
					<i>C. gracilis</i>	101	M	
					<i>C. gracilis</i>	89	M	
					<i>C. gracilis</i>	96	M	
					<i>C. gracilis</i>	101	M	
					<i>C. gracilis</i>	103	M	
					<i>C. gracilis</i>	95	M	
					<i>C. gracilis</i>	102	M	
					<i>C. gracilis</i>	87	M	
					<i>C. productus</i>	123	F	
WWS-21	47 32.65	122 20.21	16:38	20:40	Staghorn sculpin	150 - 200		Shrimp trap
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	150 - 200		
					<i>C. gracilis</i>	80	F	
WWS-22	47 32.55	122 19.89	16:55	21:00	<i>C. gracilis</i>	92	M	Crab trap
					<i>C. gracilis</i>	98	M	
					<i>C. gracilis</i>	79	M	
					<i>C. gracilis</i>	74	M	
WWS-22	47 32.55	122 19.89	16:57	21:05	Staghorn sculpin	150 - 200		Shrimp trap
					Shiner surfperch	80 - 100 (FL)		
					<i>C. gracilis</i>	74	F	
					<i>C. gracilis</i>	60	M	
WWS-23	47 32.54	122 20.12	16:46	20:45	<i>C. gracilis</i>	89	M	Crab trap
					<i>C. gracilis</i>	101	M	
					<i>C. gracilis</i>	97	M	
					<i>C. gracilis</i>	107	M	
					<i>C. gracilis</i>	89	M	
					<i>C. gracilis</i>	82	F	
					<i>C. gracilis</i>	78	F	
					<i>C. gracilis</i>	71	F	

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH	SEX	COMMENTS
	LATITUDE	LONGITUDE						
WWS-23	47 32.55	122 20.12	16:48	20:55	Staghorn sculpin	150 - 200		Shrimp trap
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	150 - 200		
					<i>C. gracilis</i>	88	F	
					<i>C. gracilis</i>	71	F	Gravid
					<i>C. gracilis</i>	73	F	
					<i>C. gracilis</i>	72	M	
WWS-24	47 32.42	122 19.94	17:05	21:11	<i>C. gracilis</i>	92	M	Crab trap
					<i>C. gracilis</i>	92	M	
					<i>C. gracilis</i>	98	M	
					<i>C. gracilis</i>	79	M	
					<i>C. productus</i>	134	F	
WWS-24	47 32.42	122 19.94	17:06	21:16	Staghorn sculpin	200+		Shrimp trap
					Staghorn sculpin	150 - 200		
					<i>C. gracilis</i>	75	M	
					<i>C. gracilis</i>	79	M	
WWS-25	47 32.35	122 19.72	17:10	21:23	<i>C. gracilis</i>	97	M	Crab trap
					<i>C. gracilis</i>	71	M	
					<i>C. gracilis</i>	73	F	
WWS-25	47 32.35	122 19.72	17:13	21:32	Staghorn sculpin	150 - 200		Shrimp trap
					Staghorn sculpin	150 - 200		
					<i>C. gracilis</i>	86	F	
					<i>C. gracilis</i>	67	M	
WWS-26	47 32.24	122 19.67	17:17	21:35	<i>C. gracilis</i>	106	M	Crab trap
					<i>C. gracilis</i>	99	M	
					<i>C. gracilis</i>	80	F	
WWS-26	47 32.24	122 19.67	17:18	21:38	Shiner surfperch	100 - 150 (FL)		Shrimp trap
					Shiner surfperch	na		Anterior portion only
					Staghorn sculpin	200+		
					Staghorn sculpin	200+		
					Staghorn sculpin	200+		
					Staghorn sculpin	200+		
					Staghorn sculpin	200+		
					<i>C. gracilis</i>	89	M	
					<i>C. gracilis</i>	95	M	

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH	SEX	COMMENTS
	LATITUDE	LONGITUDE						
WWS-27	47 32.12	122 19.49	17:27	21:56	<i>C. gracilis</i>	73	M	
					<i>C. gracilis</i>	99	M	Crab trap
					<i>C. gracilis</i>	99	M	
					<i>C. gracilis</i>	89	M	
					<i>C. gracilis</i>	94	M	
					<i>C. gracilis</i>	92	M	
WWS-27	47 32.12	122 19.49	17:29	21:54	<i>C. gracilis</i>	73	F	
					Staghorn sculpin	150 - 200		Shrimp trap
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	150 - 200		
					<i>C. gracilis</i>	104	M	
					<i>C. gracilis</i>	77	M	
WWS-28	47 32.14	122 19.16	17:37	22:00	<i>C. magister</i>	87	M	Crab trap
					<i>C. magister</i>	100	F	
WWS-28	47 32.14	122 19.15	17:38	22:04	Staghorn sculpin	150 - 200		Shrimp trap
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	200+		
WWS-29	47 32.05	122 19.31	17:48	22:09	<i>C. gracilis</i>	102	M	Crab trap
					<i>C. gracilis</i>	103	M	
					<i>C. gracilis</i>	91	M	
					<i>C. gracilis</i>	89	M	
					<i>C. gracilis</i>	75	M	
WWS-29	47 32.05	122 19.31	17:50	22:14	Staghorn sculpin	150 - 200		Shrimp trap
					Shiner surfperch	100 - 150 (FL)		
WWS-30	47 31.93	122 19.18	17:57	22:18	<i>C. gracilis</i>	81	F	Gravid
					<i>C. magister</i>	185	M	Crab trap
					<i>C. magister</i>	175	M	
					<i>C. magister</i>	159	M	
					<i>C. magister</i>	160	M	
					<i>C. gracilis</i>	106	M	
					<i>C. gracilis</i>	93	M	
					<i>C. gracilis</i>	101	M	
					<i>C. gracilis</i>	103	M	
					<i>C. gracilis</i>	101	M	
WWS-30	47 31.94	122 19.18	17:58	22:25	<i>C. gracilis</i>	98	M	
					<i>C. gracilis</i>	83	M	
					Staghorn sculpin	150 - 200		Shrimp trap
					Staghorn sculpin	150 - 200		

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH	SEX	COMMENTS
	LATITUDE	LONGITUDE						
					Shiner surfperch	100 - 150 (FL)		
					<i>C. gracilis</i>	90	M	
					<i>C. gracilis</i>	74	M	
					<i>C. gracilis</i>	86	M	
					<i>C. gracilis</i>	96	M	
					<i>C. gracilis</i>	76	M	

**Table B-4. First quarterly survey 4-hour soak time results 09/11/2003**

Deployment date:	9/11/2003	Retrieval date:	9/11/2003
Higher high tide, ft. MLLW (time):	11.0 (18:55)	Lower high tide, ft. MLLW (time):	9.7 (05:53)
Higher low tide, ft. MLLW (time):	3.7 (00:20)	Lower low tide, ft. MLLW (time):	0.7 (12:15)
Crew:	Bob Complita and Derek Pelletier (Windward), Maryann Welsch (Windward) – retrieval phase		

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH	SEX	COMMENTS
	LATITUDE	LONGITUDE						
WWS-31	47 31.86	122 19.04	16:53	21:10	Flatfish	260		Crab trap
					<i>C. gracilis</i>	93	M	
					<i>C. gracilis</i>	77	M	
					<i>C. gracilis</i>	98	M	
					<i>C. gracilis</i>	89	M	
					<i>C. gracilis</i>	81	M	
					<i>C. gracilis</i>	82	M	
					<i>C. gracilis</i>	97	M	
					<i>C. magister</i>	149	M	
WWS-31	47 31.86	122 19.04	16:54	21:25	Staghorn sculpin	200+		Shrimp trap
					Staghorn sculpin	200+		
					Staghorn sculpin	200+		
					Staghorn sculpin	200+		
					Staghorn sculpin	200+		
					<i>C. gracilis</i>	87	M	
					<i>C. gracilis</i>	103	M	
WWS-32	47 31.72	122 18.77	17:05	21:45	<i>C. magister</i>	165	M	Crab trap
					<i>C. magister</i>	133	M	
					<i>C. magister</i>	156	M	
					<i>C. magister</i>	129	M	
					<i>C. magister</i>	134	M	
					<i>C. magister</i>	144	M	
					<i>C. magister</i>	152	M	
					<i>C. magister</i>	130	M	
WWS-32	47 31.72	122 18.77	17:06	21:50	Staghorn sculpin	200+		Shrimp trap
					Staghorn sculpin	200+		
					Staghorn sculpin	200+		
					Staghorn sculpin	200+		
					Staghorn sculpin	200+		
					Staghorn sculpin	150 - 200		

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH	SEX	COMMENTS
	LATITUDE	LONGITUDE						
WWS-32	47 31.72	122 18.77	17:06	21:50	<i>C. gracilis</i>	100	M	Shrimp trap
					<i>C. gracilis</i>	102	M	
WWS-33	47 31.43	122 18.50	17:17	22:00	<i>C. magister</i>	165	M	Crab trap
					<i>C. magister</i>	117	M	
WWS-33	47 31.43	122 18.50	17:19	22:10	Staghorn sculpin	100 - 150		Shrimp trap
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	150 - 200		
WWS-34	47 33.11	122 18.38	17:27	22:20	<i>C. magister</i>	144	M	Crab trap
					<i>C. magister</i>	146	M	
					<i>C. magister</i>	112	M	
WWS-34	47 33.11	122 18.38	17:28	22:25				Shrimp trap, empty
WWS-35	47 30.86	122 18.29	17:37	22:30				Crab trap, empty
WWS-35	47 30.86	122 18.29	17:38	22:35	Staghorn sculpin	150 - 200		Shrimp trap
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	100 - 150		
					<i>C. gracilis</i>	84	M	
WWS-36	47 30.74	122 18.18	17:43	22:40				Crab trap, empty
WWS-36	47 30.74	122 18.18	17:44	22:50	Staghorn sculpin	100 - 150		Shrimp trap
					Staghorn sculpin	100 - 150		
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	200+		
WWS-37	47 30.69	122 17.88	17:51	23:00				Crab trap, empty
WWS-37	47 30.69	122 17.88	17:52	23:00	Staghorn sculpin	150 - 200		Shrimp trap
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	200+		
					Prickly sculpin	150 - 200		
WWS-38	47 30.54	122 17.54	17:59	23:10				Crab trap, empty
WWS-38	47 30.54	122 17.54	18:00	23:15	Prickly sculpin	100 - 150		Shrimp trap
					Shiner surfperch	100 - 150		
					Shiner surfperch	100 - 150		

9.8.03

Bob Complita + Maryann Welser  
Underway Env.Pete Heltzel  
SAIC

## DEPLOYMENT

STATION	TIME	TYPE	LAT / LON	WP
WWS10	3 <sup>46</sup> pm	<del>Crab</del> Shrimp	47 33.58	WP241
		AS 09/08/03	122 20.71	
WWS10	3 <sup>48</sup> pm	Shrimp Crab	47 33.57	WP242
		AS 09/08/03	122 20.71	
WWS9	3 <sup>57</sup> pm	Shrimp	47 33.58	WP243
			122 20.81	
WWS <del>10</del> 9	4 <sup>01</sup> pm	CRAB	47 33.58	WP244
			122 20.81	
WWS8	<del>4</del> 4 <sup>08</sup>	SHRIMP	47 33.69	WP245
			122 20.75	
WWS8	4 <sup>11</sup>	CRAB	47 33.69	WP246
			122 20.75	



STATION	TIME	TYPE	LAT/LON	WP
WWS7	410	SHRIMP	47 33.71 122 20.90	247
WWS7	419	CRAB	47 33.71 122 20.89	248
BARGE LOCATED ON EXACT SPOT				
WWS6	424	SHRIMP	47 33.80 122 20.77	249
WWS6	426	CRAB	47 33.80 122 20.77	250
WWS5	433	SHRIMP	47 33.88 122 20.87	251
WWS5	436	CRAB	47 33.88 122 20.87	252
WWS4	441	SHRIMP	47 33.96 122 20.82	253
WWS4	445	CRAB	47 33.96 122 20.82	254

STATION	TIME	TYPE	LAT/LON	WP
WWS3	450	SHRIMP	47 34.02 122 20.92	255
WWS3	455	CRAB	47 34.02 122 20.92	256
			(RC 09/01/03)	
WWS2	459	SHRIMP	47 34.09 122 20.83	257
WWS2	503	CRAB	47 34.07 122 20.83	258
WWS1	508	SHRIMP	47 34.14 122 20.03	259
WWS1	518	CRAB	47 34.14 122 20.04	260

RETRIEVAL (4 Hours) 9.8.03

STATION TIME  
WWS 10 745

SHRIMP  
SPECIES LENGTH (mm) SEX

SLENDER 97 M

SLENDER 95 M

SLENDER 79 ~~EF~~ RC 8/20/03

3 SLENDER

CRAB WWS 10 750 mm

SPP LENGTH SEX

SUNSTAR (1) (ON TOP)

DUNGENESS 165 M

DUNGENESS 160 M

SLENDER 96 M

SLENDER 94 M

SLENDER 104 M

SLENDER 97 M

SLENDER 87 F

SLENDER 104 M

1 SUNSTAR, 2 DUNGE, 6 SLENDER

9.8.03

SHRIMP WWS 9	750	
SPP	LENGTH (mm)	SEX
SHINERS (2)		
SLENDER	87	M
SLENDER	98	M
2 SHINERS, 2 SLENDER		
CRAB WWS 9	755	
SPP	LENGTH	SEX
10 SLENDER - ESCAPED ?		?
ON RETRIEVAL		
		♀
2 DUNGE	163	M
DUNGE	133	M
SLENDER	102	M
SLENDER	94	M
SLENDER	84	M
SLENDER	93	M
SLENDER	92	M
SLENDER	80	F
SLENDER	104	M
"	94	M
"	102	M

9-8-03

WWS 8 - SHRIMP 8<sup>05</sup>

SPP	LENGTH(mm)	SEX
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SCULPIN (3)

2 SLENDER	85	M
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SLENDER	85	M
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WWS 8 - CRAB 8<sup>10</sup>

SPP	LENGTH(mm)	SEX
-----	------------	-----

10 SLENDER	82	F
------------	----	---

SLENDER	105	M
---------	-----	---

SLENDER	100	M
---------	-----	---

SLENDER	80	F
---------	----	---

SLENDER	98	M
---------	----	---

SLENDER	100	M
---------	-----	---

SLENDER	99	M
---------	----	---

SLENDER	88	M
---------	----	---

SLENDER	92	M
---------	----	---

SLENDER	95	M
---------	----	---

9-8-03

WWS 7 SHRIMP 8<sup>15</sup>

SPP	LENGTH(mm)	SEX
-----	------------	-----

EMPTY

WWS 7 CRAB 8<sup>20</sup>

SPP	LENGTH	SEX
-----	--------	-----

1 RED ROCK	126	F
------------	-----	---

6 SLENDER	95	M
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SLENDER	107	M
---------	-----	---

SLENDER	76	F
---------	----	---

SLENDER	88	M
---------	----	---

SLENDER	97	M
---------	----	---

SLENDER	102	M
---------	-----	---

9-8-03

WWS 6 SHRIMP 825

<u>SPP</u>	<u>LENGTH (mm)</u>	<u>SEX</u>
1 SLENDER	80	F

WWS 6 CRAB 830

<u>SPP</u>	<u>LENGTH</u>	<u>SEX</u>
6 SLENDER	105	M
SLENDER	104	M
SLENDER	82	F
SLENDER	90	M
SLENDER	99	M
SLENDER	80	F

WWS 5 SHRIMP 840

<u>SPP</u>	<u>LENGTH</u>	<u>SEX</u>
2 SLENDER	<del>88</del>	M
SLENDER	98	M

9-8-03

WWS 5 CRAB 845

<u>SPP</u>	<u>LENGTH</u>	<u>SEX</u>
1 SUNSTAR (1)		
DUNGENESS	161	M
1 SLENDER	103	M
SLENDER	102	M
SLENDER	112	M
SLENDER	111	M
SLENDER	109	M
SLENDER	103	M
2 RED ROCK	153	M
RED ROCK	131	F

~~WWS 4 SHRIMP~~

WWS 4 SHRIMP 850

<u>SPP</u>	<u>LENGTH</u>	<u>SEX</u>
1 SLENDER	96	M

WWS 4 CRAB 855

<u>SPP</u>	<u>LENGTH</u>	<u>SEX</u>
5 SLENDER	104	M
SLENDER	111	M
SLENDER	100	M
SLENDER	109	M
SLENDER	103	M
8 RED ROCK	130	F
RED ROCK	137	M
RED ROCK	130	F
RED ROCK	165	M
RED ROCK	118	F
RED ROCK	131	F
RED ROCK	164	M
RED ROCK	135	M
3 DUNGNESS	176	M
DUNGNESS	152	M
DUNGNESS	121	M

WWS 3 SHRIMP 900 pm

<u>SPP</u>	<u>LENGTH</u>	<u>SEX</u>
<del>SHRIMP</del>		
SHRIMP (1)	IN LAB	

WWS 3 CRAB 907

<u>SPP</u>	<u>LENGTH</u>	<u>SEX</u>
2 RED ROCK	184	M
RED ROCK	136	F
8 DUNGNESS	138	M
DUNG.	160	M
DUNG.	151	M
DUNG.	153	M
DUNG.	163	M
DUNG.	159	M
DUNG.	183	M
DUNG.	160	M
6 DUNG SLENDER	115	M
SLENDER	103	M
SLENDER	101	M
SLENDER	107	M
SLENDER	113	M
SLENDER	96	M

WWS 2

SHRIMP

918

SPP	LENGTH	SEX
1 SCULPIN (4)		
1 SLENDER	99	M

WWS 2

CRAB

920

SPP	LENGTH	SEX
6 SLENDER	102	M
SLENDER	106	M
SLENDER	102	M
SLENDER	110	M
SLENDER	104	M
SLENDER	89	M
2 DUNGENESS	164	M
DUNZ	165	M
1 <del>DUNZ</del> RED ROCK	156	M

NO SPT CRABS - ALL HARD

→ 9-8-03

WWS 1

SHRIMP

925

SPP	LENGTH	SEX
- LOST POT -		

WWS 1

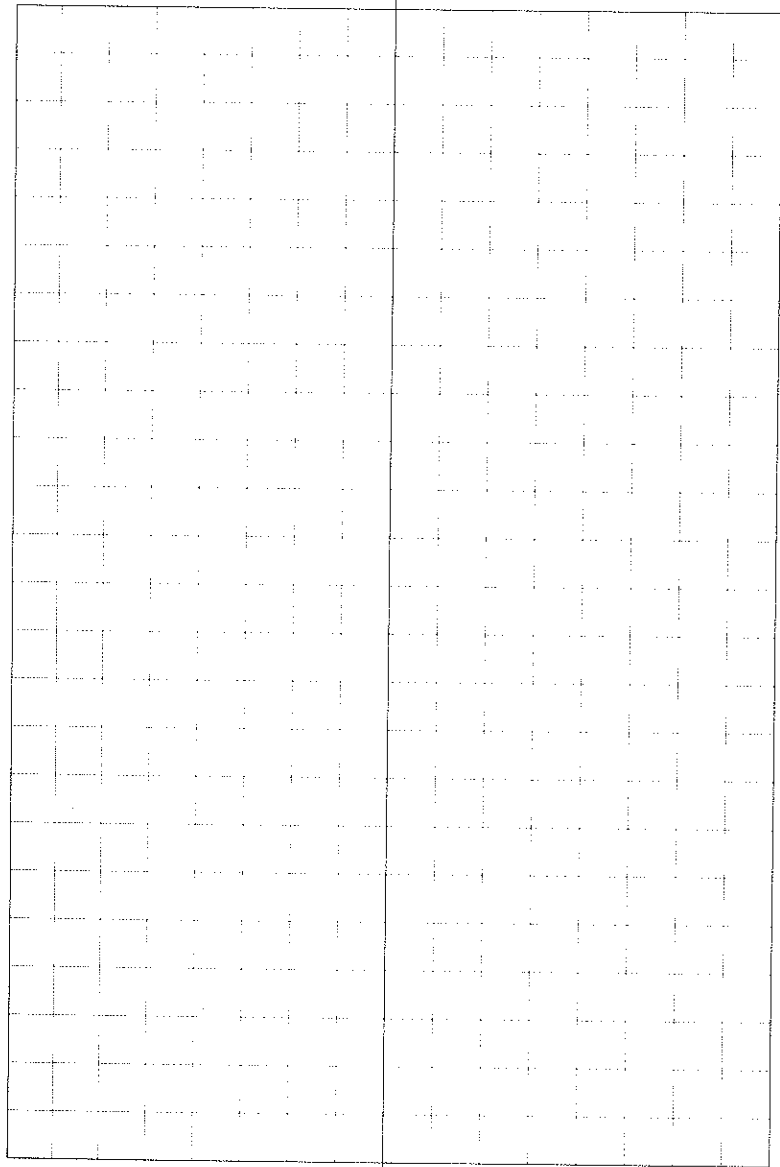
CRAB

935

SPP	LENGTH	SEX
7 SLENDER	111	M
SLENDER	109	M
SLENDER	101	M
SLENDER	<del>92</del> 92	M
SLENDER	110	M
SLENDER	104	M
SLENDER	106	M
6 RED ROCK	163	M
RED ROCK	170	M
RED ROCK	127	F
RED ROCK	131	F
RED ROCK	130	F
RED ROCK	113	F
13 DUNGENESS	154	M
DUNZ	147	M
DUNZ	149	M
DUNZ	170	M
<del>DUNZ</del>		

→

<u>SPP</u>	<u>LENGTH</u>	<u>SEX</u>
DUNZ.	174	M
DUNZ.	157	M
DUNZ.	159	M
DUNZ.	145	M
DUNZ.	155	M
DUNZ.	142	M
DUNZ.	140	M
DUNZ.	141	F
DUNZ.	125	F



9-9-03

Bob Compton, Derek Pallekas  
Shannon Pierce, Windward

## Deployment

Station	Time	Type	Lat/Long	WPT
WWS1 + redisplay	16:00	Shrimp	47°34.13N 122°21.64W	wp261
WWS11	16:15	Crab	47°33.56 122°20.70W	wp262
WWS11	16:21	Shrimp	47°33.50 122°20.70	wp263
WWS12	16:30	<del>shrimp</del> crab	47°33.40 122°20.44	wp264
WWS12	16:31	shrimp	47°33.40 122°20.44	wp265



Station	Time	Type	Lat/Lon	WPT
WWS13	16:39	Crab	47°33'36 122°20'61	WPT266
WWS13	16:41	Shrimp	47°33'36 122°20'61	WPT267
WWS14	16:47	Crab	47°33'34 122°20'78	WPT268
WWS14	16:48	Shrimp	47°33'34 122°20'78	WPT269
WWS15	16:58	Crab	47°33'24 122°20'51	WPT270
WWS15	16:58	Shrimp	47°33'24 122°20'57	"
WWS16	7 <sup>(K. 09/04/03)</sup> 15:04	Crab	47°33'12 122°20'41	WPT271
WWS16	7 <sup>(K. 09/04/03)</sup> 15:04	Shrimp	47°33'12 122°20'41	"

Station	Time	Type	Lat/Lon	WPT
WWS17	17:13	Crab	47°32'99 122°20'42	WPT272
WWS17	17:13	Shrimp	47°32'99 122°20'42	"
WWS18	17:18	Crab	47°32'90 122°20'33	WPT273
WWS18	17:18	Shrimp	47°32'90 122°20'33	"
WWS19	17:24	Crab	47°32'79 122°20'32	WPT274
WWS19	17:24	Shrimp	47°32'79 122°20'32	"
WWS20	17:29	Crab	47°32'78 122°20'17	WPT275
WWS20	17:29	Shrimp	47°32'78 122°20'17	"

\*4 HOUR SOAK TIME\*

## Retreival

~~19:55~~

WWS11 - CRAB

Species	length <sup>(mm)</sup>	sex
slender	107	M
slender	92	M
slender	96	M
slender	100	M
slender	99	M
slender	100	M
slender	101	M
dungeness	150	M
dungeness	160	M
dungeness	124	M
dungeness	175	M
dungeness	115	M

WWS11 - SHRIMP

20:07

Species	length	sex
sculpin		
slender	77	F
slender	91	M

20:12

WWS12 - CRAB

Species	length	sex
slender	88	M
slender	100	M
slender	76	F
slender	78	F
slender	95	M

WWS12 - SHRIMP

20:16

Species	length	sex
sculpin	-	-
sculpin	-	-
sculpin	-	-
slender	76	M

WWS13 - CRAB

20:23

Species	length (mm)	Sex
slender	97	M
slender	103	M
slender	100	M
slender	99	M
slender	103	M
slender	95	M
slender	96	M
slender	78	F
slender	102	M
slender	102	M
slender	87	F
slender	100	M
slender	77	F
slender	84	M

20:30

WWS13 - SHRIMP

Species	length	SEX
sculpin (4)	<del>9</del>	-
slender	104	M
slender	64	F
slender	87	M
slender	70	F

WWS14 - CRAB		
20:35		
Species	length	SEX
slender	78	F
slender	94	M
slender	93	M
slender	95	M
slender	90	M
slender	89	M
slender	102	M
slender	92	M
slender	77	F

20:39		
WWS14 - SHRIMP		
↳		

Species	Length	Sex
slender	87	F
slender	97	M
slender	84	M

WWS15 - CRAB  
20:45

Species	Length (mm)	Sex
slender	101	M
slender	90	M
slender	95	M
slender	92	M
slender	103	M
slender	99	M
slender	93	M
slender	88	F
slender	90	M
slender	77	F
slender	97	M
slender	73	F
slender	71	F
slender	100	M
slender	102	M
slender	70	F

WWS15 - SHRIMP  
20:50

Species	Length	Sex
sculpin (1)	-	-
slender	87	M
slender	75	F
slender	95	M
slender	70	F - gravid
slender	70	F
slender	84	F

WWS16 - CRAB  
20:56

Species	Length (mm)	Sex
slender	102	M
slender	95	M
slender	95	M
slender	104	M
slender	101	M
slender	99	M
slender	100	M

species	length	sex
slender	88	M
slender	83	M
slender	76	F
slender	104	M

WWS16 - SHRIMP  
21:01

Species	Length	sex
sculpin-(8)	-	-
slender	74	F
slender	89	M
slender	83	F
slender	71	F

WWS17 - CRAB - ~~shrimp~~  
21:06

species	length(mm)	sex
red rock	135	M
slender	101	M
slender	99	M
slender	98	M

Species	length	sex
slender	78	M
slender	90	M
slender	88	M
slender	102	M
slender	90	M
slender	93	M
slender	75	F
slender	88	M

WWS17 - SHRIMP  
21:13

Species	length	sex
sculpin (6)	-	-
slender	73	F
slender	102	M
slender	78	F

## WWS18 - CRAB

21:17

Species	length (mm)	sex
red rock	134	M
slender	90	M
Slender	104	M
slender	95	M
slender	98	M
slender	101	M
slender	83	M
slender	99	M
slender	105	M
slender	96	M
slender	65	F

## WWS18 - SHRIMP

21:22

Species	length	sex
sculpin (3)		
slender	101	M
slender	90	M
slender	97	M
slender	95	M

## WWS19 - CRAB

21:28

Species	length (mm)	sex
slender	101	M
Slender	97	M
slender	101	M
slender	90	M
slender	83	M
slender	102	M
slender	106	M
slender	94	M
slender	74	F
slender	82	F

## WWS19 - SHRIMP

21:32

Species	length (mm)	sex
sculpin (8)		

WWS20 - CRAB

~~2000~~ 21:39

<u>Species</u>	<u>length (mm)</u>	<u>Sex</u>
slender	90	M
slender	91	M
slender	81	F
slender	90	F
slender	71	M
slender	93	M
slender	84	M
slender	81	M
slender	83	F
slender	87	M

WWS20 - SHRIMP

21:48

<u>Species</u>	<u>length (mm)</u>	<u>Sex</u>
sculpin (2)	—	—

WWS1 - SHRIMP

trap was lost

end crabbing 21:50

9-10-03

Bob Complita Shannon Pierce  
Windward Env.

Andy Dalton

## Deployment

Station	Time	Type	Lat/Lon	WPT
WWS21	16:33	CRAB	47°32.65 122°20.22	WPT276

<del>WWS24</del>				
WWS21	16:38	Shrimp	47°32.65 122°20.21	WPT277

WWS23	16:46	CRAB	47°32.54 122°20.12	WPT278
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WWS23	16:48	Shrimp	47°32.55 122°20.12	WPT279
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WWS22	16:55	crab	47°32.55 122°19.89	WPT280
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Station	Time	Type	Lat/Lon	WPT
WWS22	16:57	Shrimp	47°32.55 122°19.89	WPT281
WWS24	17:05	crab	47°32.42 122°19.94	WPT282
WWS24	17:06	shrimp	47°32.42 122°19.94	WPT283
WWS25	17:10	crab	47°32.35 122°19.72	WPT284
WWS25	17:13	shrimp	47°32.35 122°19.72	WPT285
WWS26	17:17	crab	47°32.24 122°19.67	WPT286
WWS26	17:18	shrimp	47°32.24 122°19.67	WPT287
WWS27	17:27	crab	47°32.12 122°19.49	WPT288



Station	Time	Type	Lat/lon	WPT
WWS27	17:29	shrimp	47°32.12 122°19.49	WPT289
WWS28	17:37	crab	47°32.14 122°19.16	WPT290
WWS28	17:38	shrimp	47°32.14 122°19.15	WPT291
WWS29	17:48	crab	47°32.05 122°19.31	WPT292
WWS29	17:50	Shrimp	47°32.05 122°19.31	WPT293
WWS30	17:57	crab	47°31.93 122°19.18	WPT294
WWS30	17:58	Shrimp	47°31.94 122°19.18	WPT295

\* FOUR HOUR SOAK TIME

### Retrieval w/ Derek Reddick

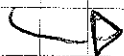
WWS21 - CRAB

20:33

Species	length(mm)	Sex
red rock	123	F
slender	91	M
slender	96	M
slender	99	M
slender	101	M
slender	89	M
slender	96	M
slender	101	M
slender	103	M
slender	95	M
slender	102	M
slender	87	M

WWS21 - SHRIMP

20:40



Species	Length (mm)	Sex
sculpin (4)	~150-200	—
slender	80	F

WWS23 - CRAB  
20:45

Species	Length (mm)	Sex
slender	89	M
slender	101	M
slender	97	M
slender	107	M
slender	89	M
slender	82	F
slender	78	F
slender	71	F

WWS23 - SHRIMP  
20:55

Species	Length (mm)	Sex
sculpin (4)	~150-200	—
slender	88	F
slender	71	F-gravid

Species	Length (mm)	Sex
slender	73	F
slender	72	M

WWS27 - CRAB  
21:00

Species	Length (mm)	Sex
slender	92	M
slender	98	M
slender	79	M
slender	74	M

WWS22 - SHRIMP  
21:05

Species	Length (mm)	Sex
sculpin	~150-200 class	—
shiner	93 (80-100) class	—
slender	74	F
slender	60	M

WWS24 - CRAB

21:11

Species	length (mm)	SEX
red rock	134	F
slender	92	M
slender	92	M
slender	98	M
slender	79	M

WWS24 - SHRIMP

21:16

Species	length (mm)	sex
sculpin	260+ class	—
sculpin	150-200 class	—
slender	75	M
slender	79	M

WWS25 - CRAB

21:23

Species	length (mm)	SEX
slender	97	M
slender	71	M
slender	73	F

WWS25 - SHRIMP

21:32

Species	length (mm)	sex
sculpin (2)	~150-200	—
slender	86	F
slender	67	M

WWS26 - CRAB

21:35

Species	length (mm)	sex
slender	106	M
slender	99	M
slender	80	F

WWS26 - SHRIMP  
21:38

Species	length(mm)	sex
shiner	110 <del>110</del> (100+ class)	-
Sculpin (5)	~200+	-
shiner-head only	-	-
<del>slender</del>	<del>110</del>	<del>class</del>
slender	89	M
slender	95	M
slender	73	M

WWS27 - CRAB  
21:56

species	length(mm)	sex
slender	99	M
slender	99	M
slender	89	M
slender	94	M
slender	92	M
slender	73	R

~~WWS~~ WWS27 - SHRIMP  
21:54

Species	length(mm)	sex
sculpin (3)	~150-200 class	-
slender	104	M
slender	77	M

WWS28 - CRAB  
22:00

Species	length(mm)	sex
<del>slender</del>		
<del>slender</del>		
clungeness	87	M
clungeness	100	F

WWS28 - SHRIMP  
22:04

Species	length(mm)	sex
Sculpin (3)	~150-200 class	-
sculpin	200+ class	-

## WWS29 - CRAB

22:09

Species	length (mm)	sex
slender	402	M
Slender	103	M
slender	91	M
slender	89	M
slender	75	M

## WWS29 - SHRIMP

22:14

Species	length (mm)	sex
Sculpin	-150-200 class	-
Shiner	118 (100+ class)	-
slender	81	F-gravid

## WWS30 - CRAB

22:18

Species	length (mm)	sex
Jungness	185	M
	175	M

Species	length (mm)	sex
Jungness	159	M
Jungness	160	M
slender	106	M
slender	93	M
slender	101	M
slender	103	M
slender	101	M
slender	98	M
slender	83	M

## WWS30 - SHRIMP

22:25

Species	length (mm)	sex
Sculpin	-150-200 class	-
Shiner (2)	100+ class	-
slender	90	M
slender	74	M
slender	86	M
slender	96	M
slender	76	M

end processing 22:30

9-11-03

Bob Complit  
Derek Palletter } Windward  
Maryam Welsch }

## Deployment

Station	Time	Type	Lat/Lon	WPT
WWS31	16:53	CRAB	47 31.86 122 19.04	296
WWS31	16:54	SHRIMP	47 31.86 122 19.04	297
WWS32	17:05	CRAB	47 31.72 122 18.77	298
WWS32	17:06	SHRIMP	47 31.72 122 18.77	299
WWS33	17:17	CRAB	47 31.43 122 18.50	300
WWS33	17:19	SHRIMP	47 31.43 122 18.50	301

Station	Time	Type	Lat/Lon	WPT
WWS34	17:27	CRAB	47 31.16 122 18.38	302
WWS34	17:28	SHRIMP	47 31.11 122 18.33	303
WWS35	17:37	CRAB	47 30.86 122 18.29	304
WWS35	17:38	SHRIMP	47 30.82 122 18.21	305
WWS36	17:43	CRAB	47 30.74 122 18.19	306
WWS36	17:44	SHRIMP		307
WWS37	17:51	CRAB		308
WWS37	17:52	SHRIMP		309

WWS 38 Crab 1759

WWS 38 Shrimp 1800

Retrieval

WWS 31 910  
CRAB

SP	LENGTH	SEX
ENGLISH SOLE (picture)	200	
Dungy (pic)	144	M
Slender	73	M
Slender	77	M
	98	M
	89	M
	81	ME
	82	M
	97	M

WWS 31 SHRIMP 925

SP	LENGTH	SEX
SCULPIN (S)	200	
Slender	87	M
Slender	103	M

WWS 32 CRAB 945

SP	LENGTH	SEX
* DUNG	165	M
D	133	M
D	56	M
D	129	M
D	134	M
D	144	M
D	152	M
D	130	M

WWS 32 SHRIMP 950

SP	LENGTH	SEX
SLEND	105	M
SLEND	102	M

SCULPIN (C) 1-150-150  
5-200+

WWS 33 CRAB 10 pm

SPP	Length	Sex
DUNG	165	M
DUNG	117	M

WWS 33 SHRIMP 1010

SPP	LENGTH	SEX
SCULPIN (1)	100-150	
(2)	150-200	

WWS 34 CRAB 1020

SPP	LENGTH	SEX
DUNG	144	M
DUNG	146	M
DUNG	112	M

WWS 34 SHRIMP 1025

SPP	LENGTH	SEX
EMPTY		

WWS 35 CRAB 1030

SPP	LENGTH	SEX
EMPTY		

WWS 35 SHRIMP 1035

SPP	LENGTH	SEX
SCULPIN (1)	100-150	
(4)	150-200	
SLENDER	84	M



WWS 36 1040  
CRAB

EMPTY

WWS 34 SHRIMP 1050

SPP	LENGTH	SEX
SCULPIN (1)	150-200	
" (1)	200+	
" (2)	100-150	

WWS 37 CRAB 1100

SPP	LENGTH	SEX
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EMPTY

WWS 37 SHRIMP 1100

SPP	LENGTH	SEX
SCULPIN (3)	150-200	
(1)	200+	

1 buffalo  
2 staghorn

WWS 38 CRAB 110

EMPTY

WWS 38 SHRIMP 115

SPP	LENGTH	SEX
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SCULPIN (1) 100-150  
SHINER (2) 113  
130  
BUFFALO