

Table C-1. Second quarterly survey 4-hour soak time results 11/20/2003

Deployment date:	11/20/2003	Retrieval date:	11/20/2003
Higher high tide, ft. MLLW (time):	11.5 (13:41)	Lower high tide, ft. MLLW (time):	8.3 (01:43)
Higher low tide, ft. MLLW (time):	3.6 (07:22)	Lower low tide, ft. MLLW (time):	1.3 (20:33)
Crew:	Bob Complita, Joanna Florer, and Scott Shotwell (Windward)		

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH (MM)	SEX	COMMENTS
	LATITUDE	LONGITUDE						
WWS-2	47 34.1110633	122 20.8260387	11:49	15:45	<i>C. gracilis</i>	97	M	Crab trap
WWS-2					<i>C. gracilis</i>	72	F	
WWS-2					<i>C. gracilis</i>	82	M	
WWS-2					<i>C. gracilis</i>	64	F	
WWS-2					<i>C. gracilis</i>			Went overboard
WWS-2					Sunflower star			
WWS-2					Sunflower star			
WWS-2					Sunflower star			
WWS-2					Sunflower star			
WWS-2	47 34.1110633	122 20.8260387	11:52	15:55	Shiner surfperch	50 - 100		Shrimp trap
WWS-2					Shiner surfperch	50 - 100		
WWS-2					Shiner surfperch	50 - 100		
WWS-2					Shiner surfperch	50 - 100		
WWS-2					Shiner surfperch	50 - 100		
WWS-2					<i>C. gracilis</i>	95	M	
WWS-2					<i>C. gracilis</i>	85	M	
WWS-2					<i>C. gracilis</i>	95	M	
WWS-2					<i>C. gracilis</i>	72	F	
WWS-2					<i>C. gracilis</i>	78	M	
WWS-2					<i>C. gracilis</i>	70	F	
WWS-2					<i>C. gracilis</i>	66	F	
WWS-2					<i>C. gracilis</i>	74	F	
WWS-2					<i>C. gracilis</i>	68	F	
WWS-2					<i>C. gracilis</i>	74	F	
WWS-2					<i>P. danae</i>	100		
WWS-2					<i>P. danae</i>	100		
WWS-2					<i>P. danae</i>	102		
WWS-2					<i>P. danae</i>	106		
WWS-2					<i>P. danae</i>	80		
WWS-2					<i>P. danae</i>	110		
WWS-2					<i>P. danae</i>	110		
WWS-2					<i>P. danae</i>	101		
WWS-2					<i>P. danae</i>	102		
WWS-2					<i>P. danae</i>	109		
WWS-2					<i>P. danae</i>	99		
WWS-2					<i>P. danae</i>	92		
WWS-2					<i>P. danae</i>	93		
WWS-2					<i>P. danae</i>	97		
WWS-3	47 34.0218329	122 20.9293417	12:07	16:10	<i>C. gracilis</i>	93	M	Crab trap
WWS-3					<i>C. gracilis</i>	92	M	
WWS-3					<i>C. gracilis</i>	79	F	
WWS-3					<i>C. gracilis</i>	80	F	
WWS-3					<i>C. gracilis</i>	93	M	
WWS-3					<i>C. gracilis</i>	70	F	

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH (MM)	SEX	COMMENTS
	LATITUDE	LONGITUDE						
WWS-3					<i>C. gracilis</i>	79	F	
WWS-3					<i>C. gracilis</i>	75	F	
WWS-3					<i>C. gracilis</i>	78	F	
WWS-3					<i>C. gracilis</i>	76	F	
WWS-3					<i>C. gracilis</i>	92	M	
WWS-3					<i>C. gracilis</i>	74	F	
WWS-3					<i>C. gracilis</i>	82	M	
WWS-3					<i>C. gracilis</i>	72	F	
WWS-3					<i>C. gracilis</i>	134	M	
WWS-3	47 34.0218329	122 20.9293417	12:08	16:15	<i>P. danae</i>	112		Shrimp trap
WWS-3					<i>P. danae</i>	111		
WWS-3					<i>P. danae</i>	109		
WWS-3					<i>P. danae</i>	110		
WWS-3					<i>P. danae</i>	104		
WWS-3					<i>P. danae</i>	103		
WWS-3					<i>P. danae</i>	91		
WWS-3					<i>P. danae</i>	105		
WWS-3					<i>P. danae</i>	106		
WWS-3					<i>P. danae</i>	97		
WWS-3					<i>P. danae</i>	106		
WWS-3					<i>C. gracilis</i>	80	F	
WWS-3					<i>C. gracilis</i>	81	M	
WWS-3					<i>C. gracilis</i>	69	F	
WWS-3					<i>C. gracilis</i>	71	F	
WWS-3					<i>C. gracilis</i>	71	F	
WWS-3					<i>C. gracilis</i>	72	F	
WWS-3					<i>C. gracilis</i>	76	F	
WWS-3					Shiner surfperch	50 - 100		
WWS-3					Staghorn sculpin	100 - 150		
WWS-3					<i>P. danae</i>	104		
WWS-3					<i>P. danae</i>	105		
WWS-3					<i>P. danae</i>	99		
WWS-3					<i>P. danae</i>	93		
WWS-3					<i>P. danae</i>	86		
WWS-3					<i>P. danae</i>	101		
WWS-4	47 33.9631707	122 20.8206013	12:18	16:28	<i>C. productus</i>	165	M	Crab trap
WWS-4					<i>C. productus</i>	174	M	
WWS-4					<i>C. productus</i>	175	M	
WWS-4					<i>C. productus</i>	134	M	
WWS-4					<i>C. productus</i>	161	M	
WWS-4					<i>C. magister</i>	144	M	
WWS-4					<i>C. magister</i>	155	M	
WWS-4					<i>C. magister</i>	179	M	
WWS-4					<i>C. magister</i>	131	M	
WWS-4					<i>C. gracilis</i>	112	M	
WWS-4					<i>C. gracilis</i>	76	M	
WWS-4	47 33.9631707	122 20.8206013	12:18	16:38	<i>C. gracilis</i>	92	M	Shrimp trap
WWS-4					<i>C. gracilis</i>	84	M	
WWS-4					<i>C. gracilis</i>	71	F	
WWS-4					<i>C. gracilis</i>	79	M	
WWS-4					<i>C. gracilis</i>	93	M	
WWS-4					<i>C. gracilis</i>	80	M	
WWS-4					<i>C. gracilis</i>	86	M	
WWS-4					<i>C. gracilis</i>	75	F	
WWS-4					<i>C. gracilis</i>	97	M	

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH (MM)	SEX	COMMENTS
	LATITUDE	LONGITUDE						
WWS-4					<i>P. danae</i>	91		
WWS-4					<i>P. danae</i>	102		
WWS-4					<i>P. danae</i>	100		
WWS-4					<i>P. danae</i>	106		
WWS-4					<i>P. danae</i>	102		
WWS-4					<i>P. danae</i>	105		
WWS-4					<i>P. danae</i>	93		
WWS-5	47 33.8806493	122 20.8831044	12:25	16:47	<i>C. gracilis</i>	75	F	Crab trap
WWS-5					<i>C. gracilis</i>	85	M	
WWS-5					<i>C. gracilis</i>	102	M	
WWS-5					<i>C. gracilis</i>	75	F	
WWS-5					<i>C. gracilis</i>	90	M	
WWS-5					<i>C. gracilis</i>	89	M	
WWS-5					<i>C. gracilis</i>	87	M	
WWS-5					<i>C. gracilis</i>	100	M	
WWS-5					<i>C. gracilis</i>	68	F	
WWS-5					<i>C. gracilis</i>	105	M	
WWS-5					<i>C. gracilis</i>	74	F	
WWS-5					<i>C. gracilis</i>	68	F	
WWS-5					<i>C. gracilis</i>	85	F	
WWS-5					<i>C. gracilis</i>	68	F	
WWS-5					<i>C. gracilis</i>	95	M	
WWS-5					<i>C. gracilis</i>	76	F	
WWS-5					<i>C. gracilis</i>	76	F	
WWS-5					<i>C. gracilis</i>	74	F	
WWS-5					<i>C. gracilis</i>	59	M	
WWS-5					<i>C. gracilis</i>	59	F	
WWS-5					<i>C. magister</i>	102	F	
WWS-5	47 33.8806493	122 20.8831044	12:25	16:55	Shiner surfperch	50 - 100		Shrimp trap
WWS-5					Shiner surfperch	50 - 100		
WWS-5					Shiner surfperch	50 - 100		
WWS-5					Shiner surfperch	100 - 150		
WWS-5					<i>C. gracilis</i>	76	M	
WWS-5					<i>C. gracilis</i>	75	F	
WWS-5					<i>C. gracilis</i>	82	M	
WWS-5					<i>C. gracilis</i>	76	F	
WWS-5					<i>P. danae</i>	103		
WWS-5					<i>P. danae</i>	109		
WWS-5					<i>P. danae</i>	90		
WWS-5					<i>P. danae</i>	101		
WWS-6	47 33.8055818	122 20.7909722	12:35	17:05	<i>C. gracilis</i>	84	F	Crab trap
WWS-6					<i>C. gracilis</i>	108	M	
WWS-6					<i>C. gracilis</i>	76	F	
WWS-6					<i>C. gracilis</i>	76	F	
WWS-6					<i>C. gracilis</i>	84	M	
WWS-6					<i>C. gracilis</i>	77	F	
WWS-6					<i>C. gracilis</i>	68	F	
WWS-6					<i>C. gracilis</i>	71	F	
WWS-6					<i>C. gracilis</i>	69	M	
WWS-6	47 33.8055818	122 20.7909722	12:35	17:05	Shiner surfperch	50 - 100		Shrimp trap
WWS-6					<i>C. gracilis</i>	55	M	
WWS-6					<i>P. danae</i>	84		
WWS-6					<i>P. danae</i>	89		
WWS-7	47 33.7340852	122 20.8936431	12:43	17:25	<i>C. gracilis</i>	101	M	Crab trap
WWS-7					<i>C. gracilis</i>	95	M	

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH (MM)	SEX	COMMENTS
	LATITUDE	LONGITUDE						
WWS-7					<i>C. gracilis</i>	60	F	
WWS-7					<i>C. gracilis</i>	95	M	
WWS-7					<i>C. gracilis</i>	88	M	
WWS-7					<i>C. gracilis</i>	85	M	
WWS-7					<i>C. gracilis</i>	95	M	
WWS-7					<i>C. gracilis</i>	69	M	
WWS-7					<i>C. gracilis</i>	76	F	
WWS-7					<i>C. gracilis</i>	75	F	
WWS-7					<i>C. gracilis</i>	73	F	
WWS-7					<i>C. gracilis</i>	72	F	
WWS-7					<i>C. gracilis</i>	67	F	
WWS-7					<i>C. gracilis</i>	90	M	
WWS-7					<i>C. gracilis</i>	65	F	
WWS-7					<i>C. magister</i>	105	M	
WWS-7					Shiner surfperch	50 - 100		
WWS-7					Shiner surfperch	50 - 100		
WWS-7					Shiner surfperch	50 - 100		
WWS-7					Staghorn sculpin	50 - 100		
WWS-7	47 33.7340852	122 20.8936431	12:43	17:30	<i>C. gracilis</i>	97	M	Shrimp trap
WWS-7					<i>C. gracilis</i>	86	M	
WWS-7					<i>C. gracilis</i>	71	F	
WWS-7					<i>P. danae</i>	112		
WWS-7					<i>P. danae</i>	74		
WWS-7					<i>C. gracilis</i>	72	F	
WWS-9	47 33.5987485	122 20.8134261	12:53	17:40	<i>C. gracilis</i>	94	M	Crab trap
WWS-9					<i>C. gracilis</i>	94	M	
WWS-9					<i>C. gracilis</i>	97	M	
WWS-9					<i>C. gracilis</i>	65	F	
WWS-9					<i>C. gracilis</i>	69	F	
WWS-9					<i>C. gracilis</i>	64	F	
WWS-9					<i>C. gracilis</i>	81	F	
WWS-9					<i>C. gracilis</i>	73	F	
WWS-9					<i>C. gracilis</i>	106	M	
WWS-9					<i>C. gracilis</i>	113	M	
WWS-9					<i>C. gracilis</i>	131	M	
WWS-9					<i>C. magister</i>	111	M	
WWS-9					<i>C. magister</i>	124	M	
WWS-9	47 33.5987485	122 20.8134261	12:53	17:45	Staghorn sculpin	100 - 150		Shrimp trap
WWS-9					Staghorn sculpin	50 - 100		
WWS-9					Shiner surfperch	< 50		
WWS-9					Shiner surfperch	50 - 100		
WWS-9					<i>C. gracilis</i>	90	M	
WWS-9					<i>C. gracilis</i>	75	F	
WWS-9					<i>C. gracilis</i>	65	F	
WWS-9					<i>C. gracilis</i>	80	F	
WWS-9					<i>C. gracilis</i>	63	F	
WWS-9					<i>P. danae</i>	102		
WWS-9					<i>P. danae</i>	87		
WWS-9					<i>P. danae</i>	81		
WWS-9					<i>P. danae</i>	73		
WWS-10	47 33.5834512	122 20.6888837	13:00	17:55	<i>C. gracilis</i>	75	F	Crab trap
WWS-10					<i>C. gracilis</i>	90	M	
WWS-10					<i>C. gracilis</i>	76	F	
WWS-10					<i>C. gracilis</i>	76	F	
WWS-10					<i>C. gracilis</i>	70	F	

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH (MM)	SEX	COMMENTS
	LATITUDE	LONGITUDE						
WWS-10					<i>C. gracilis</i>	61	F	
WWS-10	47 33.5834512	122 20.6888837	13:00	17:55	Staghorn sculpin	100 - 150		Shrimp trap
WWS-10					<i>Oregonia gracilis</i>	10		Retained
WWS-10					<i>C. gracilis</i>	71	F	
WWS-10					<i>C. gracilis</i>	75	F	
WWS-10					<i>C. gracilis</i>	74	F	
WWS-10					<i>C. gracilis</i>	66	F	
WWS-10					<i>C. gracilis</i>	63	F	
WWS-10					<i>C. gracilis</i>	57	F	
WWS-10					<i>C. gracilis</i>	60	F	
WWS-11	47 33.5015668	122 20.7035847	13:06	18:45	Staghorn sculpin	100 - 150		Shrimp trap
WWS-11					Staghorn sculpin	> 200		
WWS-11					<i>C. gracilis</i>	72	M	
WWS-11					<i>P. danae</i>	83		
WWS-11					<i>P. danae</i>	81		
WWS-11					<i>C. gracilis</i>	65	F	
WWS-12	47 33.3947011	122 20.4523025	13:13	18:30	<i>C. gracilis</i>	89	M	Crab trap
WWS-12					<i>C. gracilis</i>	92	M	
WWS-12					<i>C. gracilis</i>	104	M	
WWS-12					<i>C. gracilis</i>	92	M	
WWS-12					<i>C. gracilis</i>	105	M	
WWS-12	47 33.3947011	122 20.4523025	13:13	18:38	Staghorn sculpin	> 200		Shrimp trap
WWS-12					Staghorn sculpin	100 - 150		
WWS-12					Shiner surfperch	50 - 100		
WWS-12					<i>C. gracilis</i>	66	F	
WWS-12					<i>C. gracilis</i>	59	F	
WWS-12					<i>P. danae</i>	75		
WWS-12					<i>P. danae</i>	82		
WWS-12					<i>P. danae</i>	87		
WWS-13	47 33.3703367	122 20.6041475	13:20	18:55	<i>C. gracilis</i>	98	M	Crab trap
WWS-13					<i>C. gracilis</i>	101	M	
WWS-13					<i>C. gracilis</i>	82	M	
WWS-14	47 33.3347751	122 20.7864025	13:27	19:05	<i>C. gracilis</i>	91	M	Crab trap
WWS-14					<i>C. gracilis</i>	87	M	
WWS-14					<i>C. gracilis</i>	93	M	
WWS-14					<i>C. gracilis</i>	74	M	
WWS-14					<i>C. gracilis</i>	90	M	
WWS-14					<i>C. gracilis</i>	96	M	
WWS-14					<i>C. gracilis</i>	92	M	
WWS-14					<i>C. gracilis</i>	73	M	
WWS-14					<i>C. gracilis</i>	92	M	
WWS-14					<i>C. gracilis</i>	94	M	
WWS-14					<i>C. gracilis</i>	87	M	
WWS-14					<i>C. gracilis</i>	100	M	
WWS-14					<i>C. gracilis</i>	86	M	
WWS-14					<i>C. gracilis</i>	78	F	
WWS-14					<i>C. gracilis</i>	82	M	
WWS-14					<i>C. gracilis</i>	81	F	
WWS-14					<i>C. gracilis</i>	86	M	
WWS-14					<i>C. gracilis</i>	83	M	
WWS-14	47 33.3347751	122 20.7864025	13:27	19:05	<i>C. gracilis</i>	87	M	Shrimp trap
WWS-14					<i>C. gracilis</i>	81	M	
WWS-14					<i>C. gracilis</i>	62	M	

Table C-2. Second quarterly survey 4-hour soak time results 11/21/2003

Deployment date:	11/21/2003	Retrieval date:	11/21/2003
Higher high tide, ft. MLLW (time):	11.6 (14:12)	Lower high tide, ft. MLLW (time):	9.4 (02:53)
Higher low tide, ft. MLLW (time):	4.4 (08:19)	Lower low tide, ft. MLLW (time):	-0.3 (21:11)
Crew:	Bob Complita, Shannon Pierce, and Derek Pelletier (Windward)		

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH (MM)	SEX	COMMENTS
	LATITUDE	LONGITUDE						
WWS-1	47 34.1366834	122 21.0596324	12:24	16:20	<i>C. productus</i>	164	M	Crab trap
					<i>C. productus</i>	122	M	
					<i>C. productus</i>	157	M	
					<i>C. productus</i>	135	M	
					<i>C. productus</i>	120	F	
					<i>C. productus</i>	167	M	
					<i>C. productus</i>	137	M	
					<i>C. productus</i>	175	M	
WWS-1	47 34.1366834	122 21.0596324	12:21	16:26	<i>C. gracilis</i>	79	F	Shrimp trap
					<i>C. gracilis</i>	81	M	
WWS-8	47 33.7143187	122 20.7575794	12:32	16:36	<i>C. gracilis</i>	72	F	Crab trap
					<i>C. gracilis</i>	72	F	
					<i>C. gracilis</i>	72	F	
					<i>C. gracilis</i>	80	F	
					<i>C. gracilis</i>	62	F	
					<i>C. gracilis</i>	78	F	
WWS-8	47 33.7143187	122 20.7575794	12:34	16:42	Staghorn sculpin	150		Shrimp trap
WWS-11	47 33.5015668	122 20.7035847	12:40	16:48	<i>C. gracilis</i>	102	M	Crab trap
					<i>C. gracilis</i>	70	F	
					<i>C. gracilis</i>	83	F	
					<i>C. gracilis</i>	76	F	
					<i>C. gracilis</i>	72	F	
					<i>C. gracilis</i>	82	M	
					<i>C. gracilis</i>	80	F	
					<i>C. gracilis</i>	99	M	
					<i>C. gracilis</i>	103	M	
					<i>C. gracilis</i>	86	M	
					<i>C. gracilis</i>	86	F	
					<i>C. gracilis</i>	85	M	
					<i>C. gracilis</i>	92	M	
					<i>C. gracilis</i>	62	F	
					<i>C. gracilis</i>	90	M	
					<i>C. gracilis</i>	61	F	
WWS-13	47 33.3703367	122 20.6041475	12:45	16:57	Shiner surfperch	50 - 100		Shrimp trap
					Shiner surfperch	50 - 100		
					Shiner surfperch	100 - 150		
					Shiner surfperch	100 - 150		
					<i>C. gracilis</i>	69	F	
					<i>C. gracilis</i>	65	F	
					<i>C. gracilis</i>	57	F	
					<i>C. gracilis</i>	62	F	
					<i>C. gracilis</i>	68	F	
					<i>C. gracilis</i>	76	F	
					<i>C. gracilis</i>	70	F	

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH (MM)	SEX	COMMENTS
	LATITUDE	LONGITUDE						
					<i>P. danae</i>	66		
WWS-15	47 33.2381535	122 20.5183519	12:51	17:06	<i>C. gracilis</i>	73	M	Crab trap
					<i>C. gracilis</i>	60	F	
					<i>C. gracilis</i>	82	F	
					<i>C. gracilis</i>	75	F	
					<i>C. gracilis</i>	94	M	
					<i>C. gracilis</i>	65	F	
					<i>C. gracilis</i>	73	F	
					<i>C. gracilis</i>	81	F	
					<i>C. gracilis</i>	62	F	
					<i>C. gracilis</i>	104	M	
					<i>C. gracilis</i>	60	F	
					<i>C. gracilis</i>	83	M	
					<i>C. gracilis</i>	88	F	
					<i>C. gracilis</i>	85	M	
					<i>C. gracilis</i>	76	F	
					<i>C. gracilis</i>	84	F	
					<i>C. gracilis</i>	79	M	
WWS-15	47 33.2381535	122 20.5183519	12:53	17:12	Staghorn sculpin	100 - 150		Shrimp trap
					Shiner surfperch	100 - 150		
					Shiner surfperch	50 - 100		
					Shiner surfperch	50 - 100		
					Shiner surfperch	50 - 100		
					<i>C. gracilis</i>	74	F	
					<i>C. gracilis</i>	67	F	
WWS-16	47 33.1214820	122 20.4250439	12:56	17:24	<i>C. gracilis</i>	96	M	Crab trap
					<i>C. gracilis</i>			Went overboard
					<i>C. gracilis</i>	83	M	
					<i>C. gracilis</i>	73	F	
					<i>C. gracilis</i>	73	F	
					<i>C. gracilis</i>	94	M	
					<i>C. gracilis</i>	104	M	
					<i>C. gracilis</i>	84	M	
					<i>C. gracilis</i>	98	M	
					<i>C. gracilis</i>	72	F	
					<i>C. gracilis</i>	69	F	
					<i>C. gracilis</i>	70	F	
WWS-16	47 33.1214820	122 20.4250439	12:58	17:24	Staghorn sculpin	> 200		Shrimp trap
					Shiner surfperch	100 - 150		
					Shiner surfperch	100 - 150		
					Shiner surfperch	100 - 150		
					Shiner surfperch	100 - 150		
					Shiner surfperch	100 - 150		
					Shiner surfperch	50 - 100		
					Shiner surfperch	50 - 100		
					<i>C. gracilis</i>	95	M	
					<i>C. gracilis</i>	87	M	
					<i>C. gracilis</i>	108	M	
					<i>C. gracilis</i>	108	M	
					<i>C. gracilis</i>	69	F	
					<i>C. gracilis</i>	61	F	
					<i>C. gracilis</i>	61	F	
					<i>C. gracilis</i>	74	F	
					<i>C. gracilis</i>	65	F	
					<i>C. gracilis</i>	65	F	

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH (MM)	SEX	COMMENTS
	LATITUDE	LONGITUDE						
WWS-30	47 31.9340399	122 19.1867971	14:01	18:36	<i>C. gracilis</i>	29	F	Shrimp trap
WWS-31	47 31.8681220	122 19.0415438	14:08	18:47	<i>C. magister</i>	167	M	Crab trap
					<i>C. magister</i>	131	M	
					<i>C. magister</i>	133	M	
					<i>C. magister</i>	152	M	
					<i>C. gracilis</i>	97	M	
					<i>C. magister</i>	135	F	
WWS-31	47 31.8681220	122 19.0415438	14:11	18:56	Shiner surfperch	100 - 150		Shrimp trap
					Staghorn sculpin	> 250		

Table C-4. Second quarterly survey 4-hour soak time results 11/23/2003

Deployment date:	11/23/2003	Retrieval date:	11/23/2003
Higher high tide, ft. MLLW (time):	11.7 (15:20)	Lower high tide, ft. MLLW (time):	11.4 (04:51)
Higher low tide, ft. MLLW (time):	5.8 (10:06)	Lower low tide, ft. MLLW (time):	-2.8 (22:32)
Crew:	Bob Complita and Shannon Pierce, deployment; and Derek Pelletier, retrieval (Windward)		

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH (MM)	SEX	COMMENTS
	LATITUDE	LONGITUDE						
WWS-32	47 31.7174475	122 18.7766916	13:18	17:06	<i>C. magister</i>	141	M	Crab trap
					<i>C. magister</i>	122	F	
					<i>C. magister</i>	134	M	
					<i>C. magister</i>	108	M	
					<i>C. magister</i>	126	F	
					<i>C. magister</i>	116	F	
					<i>C. magister</i>	137	F	
					<i>C. magister</i>	129	M	
					<i>C. magister</i>	148	M	
					<i>C. magister</i>	131	M	
					<i>C. magister</i>	125	M	
WWS-32	47 31.7174475	122 18.7766916	13:22	17:10	Shiner surfperch	100 - 150		Shrimp trap
WWS-33	47 31.4396828	122 18.5059926	13:31	17:23	<i>C. magister</i>	129	F	Crab trap
					<i>C. magister</i>	136	M	
					<i>C. magister</i>	140	M	
WWS-33	47 31.4396828	122 18.5059926	13:29	17:20				Shrimp trap, empty
WWS-34	47 31.1161107	122 18.3796627	13:39	17:33				Crab trap, empty
WWS-34	47 31.1161107	122 18.3796627	13:36	17:37	Shiner surfperch	100 - 150		Shrimp trap
					Staghorn sculpin	100 - 150		
WWS-35	47 30.8736349	122 18.2988728	13:50	17:48				Crab trap, empty
WWS-35	47 30.8736349	122 18.2988728	13:47	17:52	Staghorn sculpin	> 200		Shrimp trap
					Staghorn sculpin	> 200		
					Staghorn sculpin	150 - 200		
					Staghorn sculpin	100 - 150		
					Shiner surfperch	50 - 100		
					Shiner surfperch	50 - 100		
					Shiner surfperch	50 - 100		
					Shiner surfperch	100 - 150		
					Shiner surfperch	100 - 150		
WWS-36	47 30.7455689	122 18.1906107	13:57	18:00				Crab trap, empty
WWS-36	47 30.7455689	122 18.1906107	13:56	18:05	Shiner surfperch	50 - 100		Shrimp trap
					Shiner surfperch	50 - 100		
					Shiner surfperch	50 - 100		
					Shiner surfperch	100 - 150		
					Shiner surfperch	100 - 150		
					Unidentified flatfish	50 - 100		
WWS-37	47 30.6962921	122 17.8889348	14:05	18:14				Crab trap, empty
WWS-37	47 30.6962921	122 17.8889348	14:04	18:10	Shiner surfperch	50 - 100		Shrimp trap
WWS-38	47 30.5526712	122 17.5516427	14:11	18:20				Crab trap, empty
WWS-38	47 30.5526712	122 17.5516427	14:10	18:22	Prickly sculpin	100 - 150		Shrimp trap
					Prickly sculpin	100 - 150		
					Prickly sculpin	> 200		

SAMPLE #	LOCATION		DEPL. TIME	RETR. TIME	SPECIES	LENGTH (MM)	SEX	COMMENTS
	LATITUDE	LONGITUDE						
					Prickly sculpin	> 200		

11/20/03

Bob Complita, Scott Shortwell
Joanna FloresDeployment

Station	Time	type	loc/nm	WY pt
WWS2	1149	crab		1
	1149	shrimp		2
		lost shrimp trap - cut line		
WWS2	1152	shrimp (redeploy)		3
WWS3	1205	shrimp		4
		off station, need to redeploy		
	1207	crab		5
	1208	shrimp (redeploy)		6
WWS4	1218	crab		7
		shrimp		7
WWS5	1225	crab		8
		shrimp		
WWS6	1235	crab		9
		shrimp		

WWS2 - Shrimp - Cont

Species	length (mm)	sex
Slender	74	F
Slender	68	F
Slender	74	F
Dock	100	-
Dock	100	-
Dock	102	-
Dock	106	-
Dock	80	-
Dock	110	-
Dock	110	-
Dock	101	-
Dock	102	-
Dock	109	-
Dock	99	-
Dock	92	-
Dock	93	-
Dock	97	-

WWS3 - Crab - 1610

Species	length (mm)	sex
Slender	93	M
Slender	92	M
Slender	79	F
Slender	80	F
Slender	93	M
Slender	70	M
Slender	79	F
Slender	75	F
Slender	78	F
Slender	76	F
Slender	92	M
Slender	74	F
Slender	82	M
Slender	72	M
Roundness	134	M

WWS3 - Shrimp - 1615

Species	length (mm)	Sex
Dock	112	-
Dock	111	-
Dock	109	-
Dock	110	-
Dock	104	-
Dock	103	-
Dock	91	-
Dock	105	-
Dock	106	-
Dock	97	-
Dock	106	-
Slender	80	F
slender	81	M
slender	69	F
Slender	71	F
Slender	71	F
Slender	72	F
Slender	76	F

1 - slender perch 50-100mm
 1 - Stagnon mulpin 100-150mm

WWS3 - Shrimp - Corie

Species	length (mm)
Dock	104
Dock	105
Dock	99
Dock	93
Dock	86
Dock	101

WWS4 - Crabs - 1628

Species	length (mm)	Sex
Red Rock	165	M
Red Rock	174	M
Red Rock	175	M
Red Rock	134	M
Red Rock	161	M
Dungeness	144	M
Dung	155	M
Dung	179	M
Dung	131	M
Slender	112	M
Slender	76	M

WWS4 - Shrimp - 1638

Species	length (mm)	Sex
Slender	92	M
Slender	84	M
Slender	71	F
Slender	79	M
Slender	93	M
Slender	80	M
Slender	86	M
Slender	75	F
Slender	97	M
Dock	91	-
Dock	102	-
Dock	100	-
Dock	106	-
Dock	102	-
Dock	105	-
Dock	93	-

WWS5 - Crab - 1647
1 - Slender overboard

Species	length (mm)	Sex
Slender	75	F
Slender	85	M
Slender	102	M
Slender	75	F
Slender	90	M
Slender	89	M
Slender	87	M
Slender	100	M
Slender	68	F
Slender	105	M
Slender	74	F
Slender	68	F
Slender	85	F
Slender	68	F
Slender	95	M
Slender	76	F
Slender	76	F
Slender	74	F
Slender	59	M
Slender	59	F
Dung	102	F

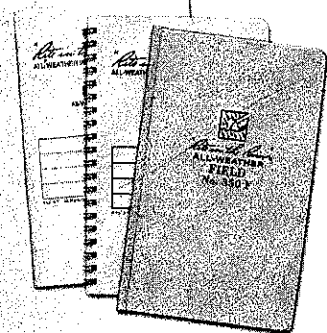
~~48~~
 WW-55-Shrimp-1655
 (3) Shiner 50-100 mm
 (1) Shiner 100-150 mm

Species	Length (mm)	Sex
Slender	76	M
Slender	75	F
Slender	82	M
Slender	76	F
Rock	103	—
Rock	109	—
Rock	90	—
Rock	101	—

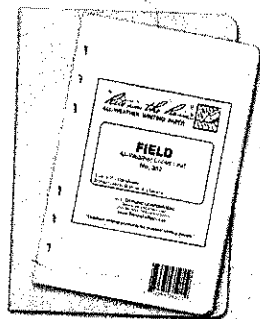
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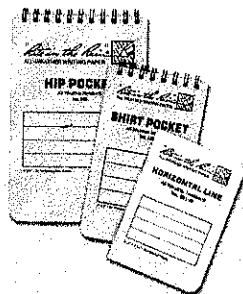
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Memo Books

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11/20/03

WWS6 - Crab - 1705

Species	length (mm)	Sex
slender	84	F
slender	108	M
Slender	76	F
Slender	76	F
slender	84	M
slender	77	F
slender	68	F
slender	71	F
slender	69	M

WWS6 - Shrimp - 1715

1 - shiner perch 56-100mm

Species	length (mm)	Sex
slender	55	M
Dock	84	-
Dock	89	-

4 11/20/03

1745

5

WWS7 - Crabs - 1725

Species	length (mm)	Sex
slender	101	M
slender	95	M
slender	60	F
slender	95	M
slender	88	M
slender	85	M
slender	95	M
slender	69	F
slender	76	F
slender	75	F
slender	73	F
slender	72	F
slender	67	F
slender	90	M
slender	65	M
Dung	105	M

WWS7 - Shrimp - 1730

3 - Shiner perch 50-100 mm
 1 - Sloghorn sculpin 50-100 mm

Species	length (mm)	Sex
slender	97	M
slender	86	M
slender	71	F

WWS7 - Shrimp - crabs

Species	length (mm)	sex
Dock	112	-
Dock	74	-
slender	72	F

WWS9 - Crabs - 1740

Species	length (mm)	Sex
slender	94	M
slender	94	M
slender	97	M
slender	65	F
slender	69	F
slender	64	F
slender	81	F
slender	73	F
Dung	106	M
Dung	113	M
Dung	131	M
Dung	111	M
Dung	124	M

WW-59-Shrimp-1745

1-Sculpin 100-150mm (Staghorn)

1-Sculpin 90-100mm (Staghorn)

1 Shiner perch 250mm

1 Shiner perch 50-100mm

Species	length(mm)	Sex
Slender	90	M
Slender	75	F
Slender	65	F
Slender	80	F
Slender	63	F
Doak	102	-
Doak	87	-
Doak	81/73	-

WW-510-Crabs-1755

Species	length(mm)	Sex
Slender	75	F
Slender	90	M
Slender	76	F
Slender	76	F
Slender	70	F
Slender	61	F

WW-510-Shrimp-1803

1-Sculpin (Staghorn) 100-150mm

Unidentified Crabs - kept -

Species	length(mm)	Sex
Slender	71	F
Slender	75	F
Slender	74	F
Slender	66	F
Slender	63	F
Slender	57	F
Slender	60	F

WW-512-Crabs-1830

Species	length(mm)	Sex
Slender	89	M
Slender	92	M
Slender	104	M
Slender	92	M
Slender	105	M

WW-512-Shrimp-1838

1-Sculpin 250+mm

1-Sculpin 100-150mm

1-Shiner 50-100mm

WW-512 - Shrimp (Cont)

Species	Length	Sex
Slender	100	F
Slender	59	F
Dock	75	-
Dock	82	-
Dock	87	-

WW-511 - Shrimp - 1845

Sculpin 100-150mm

Sculpin 800+mm

Species	Length (mm)	Sex
Slender	72	M
Dock	83	-
Dock	81	-
Slender	65	F

WW-513 - Crab		IBSS
Species	Length (mm)	Sex
Slender	81	M
Slender	101	M
Slender	82	M

WW-514 - Crab - 1905

Species	Length (mm)	Sex
Slender	91	M
Slender	87	M
Slender	93	M
Slender	79	M
Slender	90	M
Slender	96	M
Slender	92	M
Slender	73	M
Slender	92	M
Slender	94	M
Slender	87	M
Slender	100	M
Slender	86	M

Shrimp	Crab (cont)	Length (mm)	Sex
Shrimp		75	F
Shrimp		82	M
Shrimp		81	F
Shrimp		86	M
Shrimp		83	M

WWS4 - Shrimp - 19/10

Shrimp	Length (mm)	Sex
Shrimp	81	M
Shrimp	81	M
Shrimp	82	M

11-21-03

Bob Complita, Derek Peltier
and Shannon Pierce, Woodward

Start 12:20

sunny, cool + clear

WWS1 - 117°34.14'N
122°21.06'W

12:20 - shrimp
N

shrimp 12:21

crab - 12:24

WWS8

12:32 - crab

12:34 shrimp

WWS11

crab - 12:40

WWS13

shrimp - 12:45

WWS15

crab - 12:51

shrimp - 12:53

WWS16

crab 12:56

shrimp 12:58

WWS17

skipped station - expected
 barge traffic right over station

WWS18

crab - 13:05

shrimp - 13:07

WWS19

crab - 13:11

shrimp - 13:12

WWS20

crab - 13:17

shrimp - 13:18

WWS21

crab - 13:28

shrimp - 13:29

WWS22

crab - 13:36

shrimp - 13:38

4 hour soak time

U. Trap Retrieval

WWS1

crab - 16:20

Species	length (mm)	sex
Red rock	164	M
Red rock	122	m
Red rock	157	—
Red Rock	157	M
Red Rock	135	m
Red Rock	120	F
Red Rock	167	M
Red Rock	137	M
Red Rock	175	M

Shrimp - 16:26

Species	length (mm)	sex
Slender	79	F
slender	81	M

WWSB

crab - 16:30

Species	length (mm)	sex
slender	~72	F
slender	~72	F
slender	72	F
Slender	80	F
slender	62	F
slender	78	F

Shrimp - 16:42

Species	length	sex
sculpin	~150	—

WWS11

crab - 16:48

Species	length (mm)	sex
slender	~102	M
slender	70	F
slender	83	F
slender	76	F
slender	72	F

Species	Length	Sex
Slender	82	M
Slender	80	F
Slender	99	M
Slender	103	M
Slender	86	M
Slender	86	F
Slender	85	M
Slender	92	M
Slender	62	F
Slender	90	M
Slender	61	F

WWS13

shrimp - 16:57

Species	Length	Sex
Perch (2)	50-900	-
Perch (2)	100-150	-
Slender	69	F
Slender	65	F
Slender	57	F
Slender	62	F
Slender	60	F

Species	Length	Sex
Slender	76	F
Slender	70	F
Stock shrimp	66	-

WWS15

Crab - 17:06

Species	Length (mm)	Sex
Slender	73	M
Slender	60	F
Slender	82	F
Slender	75	F
Slender	94	M
Slender	65	F
Slender	73	F
Slender	81	F
Slender	62	F
Slender	104	M
Slender	60	F
Slender	83	M
Slender	88	F
Slender	85	M

Species	length	sex
slender	76	F
slender	84	F
slender	79	M
slender		

Shrimp - 17.12

Species	length	sex
sculpin	100-150	—
Shiner	100-150	—
Shiner (3)	50-100	—
slender	74	F
slender	67	F

WWS16

Crab - 17.24

Species	length (mm)	sex
Slender (dropped) ?		—
slender	96	M
slender	83	M
slender	73	F
slender	73	F

Species	length	sex
slender	94	M
slender	104	M
slender	84	M
slender	98	M
slender	72	F
slender	69	F
slender	70	F

shrimp - 17.24 caught

Species	length	sex
sculpin	200+	—
perch (5)	100-150	—
perch (2)	50-100	—
slender	95	M
slender	87	M
slender	108	M
slender	108	M
slender	69	F
Slender	61	F
slender	61	F
slender	74	F
slender	65	F
slender	65	F

WWS18

Crab - 17:43

Species	Length	Sex
dungeness	144	M
Slender	78	M
Slender	87	M
Slender	88	M
Slender	75	F
Slender	85	M
Slender	67	F

Shrimp - 17:45

Species	Length	Sex
dock shrimp	68	—
perch (2)	100 150-200	—
sculpin	100-150	—
perch (4)	100-150	—
perch (11)	50-100	—
Slender	89	M
Slender	79	M
Slender	63	F
Slender	73	F

WWS20

Crab - 17:57

Species	Length (mm)	Sex
Slender	80	M
Slender	74	F
Slender	80	M
Slender	102	M
Slender	74	M
Slender	99	M
Slender	73	F
Slender	78	F
Slender	72	F

Shrimp - 17:59

Species	Length	Sex
dock shrimp	79	—
sculpin	100-150	—
perch (6)	100-150	—
perch (13)	50-100	—
Slender	74	F
Slender	81	M
Slender	72	F

<u>Species</u>	<u>Length</u>	<u>Sex</u>
slender	70	F
slender	80	M
slender	68	M
slender	66	F

WWS 19

crab - 18:11

<u>Species</u>	<u>Length</u>	<u>Sex</u>
rd rock	180	M
lunginess	150	M
slender	102	M
slender	85	M
slender	90	M
slender	90	M

shrimp 18:17

<u>Species</u>	<u>Length (mm)</u>	<u>Sex</u>
dock shrimp	72	-
dock shrimp	79	-
sculpin	100-150	-

<u>Species</u>	<u>Length</u>	<u>Sex</u>
slender	71	F
slender	77	F
<u>WWS 21</u>		
crab - 18:23		
<u>Species</u>	<u>Length</u>	<u>Sex</u>
slender	107	M
slender	92	M
slender	97	M
slender	98	M
slender	92	M
slender	97	M
slender	72	F
shrimp - 18:30		
<u>Species</u>	<u>Length</u>	<u>Sex</u>
sculpin	100-150	-
perch (4)	100-150	-
perch (4)	50-100	-
slender	83	M

WWS22

shrimp - 18:38

Species	Length (mm)	Sex
perch (2)	50-100	<u> </u>
gould pin	100-150	<u> </u>
slender	63	F
slender	68	F

crab - 18:42

Species	Length (mm)	Sex
slender	67	M
slender	84	M
slender	69	M
slender	81	M

Finish for day -
back to dock 18:45

11-22-03

Thai Do, Bob Compton
Shannon Pierce - Window 6

start 12:52

cloudy, cool, light wind

WWS17

shrimp - 13:03

crab - 13:05

WWS23

crab - 13:15

shrimp - 13:17

WWS24

crab - 13:23

shrimp - 13:22

WWS25

shrimp - 13:27

crab - 13:29

WWS26

shrimp - 13:33

crab - 13:34

WWS27

shrimp - 13:42

crab - 13:43

WWS28

crab - 13:49

shrimp - 13:50

WWS29

crab - 13:57

shrimp - 13:55

WWS30

crab - 14:03

shrimp - 14:01

WWS31

crab - 14:08

shrimp - 14:11

- 4 HR SOAK TIME ->

Trap Retrieval

WWS17

crab - 17:07

Species	Length	Sex
Dungeness	189	M
slender	92	M
slender	102	M
slender	64	M
slender	81	F

shrimp 17:13

Species	length	sex
perch	50-100	-
slender	90	M
slender	90	M
slender	89	F
slender	66	F

WWS23

crab - 17.20

Species	length	sex
slender	79	F
slender	62	F
slender	81	F
slender	73	F
slender	81	F
slender	75	F
slender	63	F
slender	74	F

shrimp 17.24

Species	length	sex
perch (16)	50-100	—
perch (32)	0-50	—
slender	65	M
slender	75	F
slender	70	M

WWS24

crab 17.31

Species	length	sex
Ø	—	—
nothing in trap		

shrimp - ~~18.38~~ 17.38

Species	length	sex
perch (15)	100-150	—
perch (14)	50-100	—
perch (2)	0-50	—

WWS25

crab - 17.44

Species	length	sex
Ø	—	—

shrimp - 17.48

Species	length	sex
Stygian sculpin	150-200	—
perch	100-150	—
cherry crab	22	M
shave crab	22	N

WWS26

crab - 17.52

Species	Length	sex
slender	84	M
dungeness	141	M
slender	95	M
slender	80	F
dungeness	123	F
slender	82	F

shrimp - 17.58

Species	Length	sex
slender	72	M
perch (4)	100-150	—
perch (19)	50-100	—
perch (11)	0-50	—

WWS27

crab - 18.03

species	Length	sex
dungeness	126	F
dungeness	142	M
slender	89	M

shrimp - 18.10

Species	Length	sex
♂	—	—

WWS28

crab - 18.16

Species	Length	sex
♂	—	—

shrimp 18.20

Species	Length	sex
sculpin	200 ⁺	—

WWS29

crab - 18.24

Species	Length	sex
slender	79 79	F

shrimp 18.30

Species	Length	sex
perch	50-100	—
perch	100-150	—
sculpin	100-150	—
Slender	94	M

WWS30

shrimp - 18.36

<u>Species</u>	<u>length</u>	<u>sex</u>
slender	29	F

Crab 18.41

<u>Species</u>	<u>length</u>	<u>sex</u>
dungeness	193	M
dungeness	145	M
dungeness	157	M
dungeness	143	M
dungeness	120	F

WWS31

Crab - 18.47

<u>Species</u>	<u>length</u>	<u>Sex</u>
dungeness	167	M
dungeness	131	M
dungeness	133	M
dungeness	152	M
slender	97	M
dungeness	135	F

shrimp - 18.56

<u>Species</u>	<u>length</u>	<u>sex</u>
perch	100-150	-
sculpin	250+	-

Finished - 1858

Back to dock

11-23-03

Bob Complita, Shannon Pierce
Windward

12:00, cloudy, cool, light breeze

start 12:50

Deploy traps

WWS32

crab - 13:18

shrimp - 13:22

WWS33

crab - 13:31

shrimp - 13:29

WWS34

crab 13:39

shrimp 13:36

WWS35

shrimp 13:47

crab 13:50

WWS36

shrimp 13:56

crab 13:57

WWS37

shrimp - 14:04

crab - 14:05

WWS38

shrimp 14:10

crab 14:11

4 hour soak

Trap Retrieval

WWS32~~crab~~
crab - 17:06

<u>species</u>	<u>length</u>	<u>sex</u>
dungenes	141	M
dungenes	122	F
dungenes	134	M
dungenes	108	M
dungenes	126	F
dungenes	116	F
dungenes	137	F
dungenes	129	M
dungenes	148	M
dungenes	131	M
dungenes	125	M

shrimp - 17:10

<u>species</u>	<u>length</u>	<u>sex</u>
parch	100-150	—

WWS33

Shrimp - 17:20

<u>species</u>	<u>length</u>	<u>sex</u>
♂	♀	—

crab - 17:23

<u>species</u>	<u>length</u>	<u>sex</u>
dungenes	129	F
dungenes	136	M
dungenes	140	M

WWS34

crab - 17:33

<u>species</u>	<u>length</u>	<u>sex</u>
♂		

shrimp - 17:37

<u>species</u>	<u>length</u>	<u>sex</u>
sliver perch	100-150	—
sculpin	100-150	—

WWS35
Crab - 17:48

<u>Species</u>	<u>Length</u>	<u>Sex</u>
shrimp	17:52	

<u>Species</u>	<u>Length</u>	<u>Sex</u>
sculpin (2)	600+	---
salpinx	150-200	---
sculpin	100-150	---
perch (2)	50-100	---
perch (2)	100-150	---

WWS36
Crab - 18:00

<u>Species</u>	<u>Length</u>	<u>Sex</u>
shrimp	18:05	

<u>Species</u>	<u>Length</u>	<u>Sex</u>
shrimp	18:05	
perch (3)	50-100	---
perch (2)	100-150	---

<u>Species</u>	<u>Length</u>	<u>Sex</u>
Unidentified flatfish	50-100	---

WWS37
shrimp - 18:10

<u>Species</u>	<u>Length</u>	<u>Sex</u>
perch	50-100	---

Crab - 18:14

<u>Species</u>	<u>Length</u>	<u>Sex</u>

WWS38
Crab - 18:20

<u>Species</u>	<u>Length</u>	<u>Sex</u>

Shrimp - 18:22

<u>Species</u>	<u>Length</u>	<u>Sex</u>
rocky sculpin (2)	100-150	---
rocky sculpin (2)	200+	---