

Appendix 1.
Japanese Tsunami Marine Debris. JTMD-BF Register by Object
Criteria for JTMD recognition detailed in text

As of 1.31.17, 677 items are shown, but 24 items have been de-registered. N = 653 as of Report Date.

Register Number Japanese Tsunami Marine Debris (JTMD) Biofouling (BF)-	Type of Item	Name JWC John W. Chapman NT Nancy Treneman HI State of Hawaii WDFW Wash Dept Fish Wildlife	State/ Territory/ Province	Location	Date of Collection (not in chronological order)
JTMD-BF-1	dock	Misawa 1 (M1)	OR	Agate Beach	2012 June 5
JTMD-BF-2	vessel	Ilwaco boat / Name of boat: 壮洋 (Sou-you; "Vast Ocean" or "Prosperous Ocean")	WA	Ilwaco	2012 June 15
JTMD-BF-3	float	Thompson float	OR	off Lincoln City	2012 June 9
JTMD-BF-4	float	OR offshore float	OR	off Alsea Bay	2012 June
JTMD-BF-5	float	Bodega float	CA	Bodega Bay	2012 June 19
JTMD-BF-6	vessel	Kahana Bay boat; Name of boat: 美和丸 (Miwa-maru; "Beautiful Harmony")	HI	Oahu	2012 November 29
JTMD-BF-7	float	Oceanus buoy	OR	at sea, nearshore central OR	2012 June 12
JTMD-BF-8	dock	Misawa 3 (M3)	WA	Olympic National Park	2012 December 18
JTMD-BF-9	float	Mosquito Creek float1 三信加工: Sanshin Process (a name of a rubber/ plastic products company)	WA	Olympic National Park	2012 December 20
JTMD-BF-10	float	Mosquito Creek float2	WA	Olympic National Park	2012 December 20
JTMD-BF-11	vessel	Punaluu boat / Name of boat: 正利丸(Shouri-maru;	HI	Oahu: Punaluu	2012 December 24

		"Right Profit")			
JTMD-BF-12	vessel	Damon Point boat	WA	Grays Harbor	2012 December 28
JTMD-BF-13	float	Goodman Creek float	WA	Olympic National Park	2012 July 20
JTMD-BF-14	float	Fort Bragg float	CA	north of Ft. Bragg	2012 April 1
JTMD-BF-15	float	Fort Ross float	CA	off Ft. Ross	2012 July 26
JTMD-BF-16	pallet	Midway pallet	Midway	Eastern Island	2012 November 2
JTMD-BF-17	float	Hanauma Bay float	HI	Oahu	2013 January 9
JTMD-BF-18	float	Astoria float	OR	Clatsop Beach	2013 January 9/10
JTMD-BF-19	vessel	Honokohau boat	HI	Hawaii (Big Island)	2013 January 15
JTMD-BF-20	cylinder	Mokuleia red metal cylinder (6'wide)	HI	Oahu	2013 January 17
JTMD-BF-21	buoy	Nohili Point buoy (Barking Sands) 国土交通省小名浜港港湾事務所 (Ministry of Land, Infrastructure, Transport and Tourism, Onahama Harbor Office)	HI	Kauai	2013 January 18
JTMD-BF-22	refrigerator	Ocean City Refrigerator	WA	Ocean City State Park	2013 February 2
JTMD-BF-23	vessel	Gleneden boat (AKA Salishan boat)	OR	Gleneden Beach	2013 February 5
JTMD-BF-24	pallet	South Beach pallet (むらせグループ: Murase Group, a rice corporation)	OR	South Beach	2013 February 8
JTMD-BF-25	vessel	Kahuku skiff Name of boat: ひさ丸 Hisa-maru (The life jacket has a text that says 長清水, which is a name of a town in Miyagi prefecture)	HI	Oahu	2013 February 13
JTMD-BF-27	dock	Makapuu dock	HI	Oahu	2013 February 14

JTMD-BF-28	vessel	Horsfall skiff Name of boat: The "Third" Thriving (第三隆昌丸 [Dai-San-Ryu-Sho-Maru])	OR	Horsfall Beach [not Horsefall]	2013 February 20
JTMD-BF-29	vessel	Clatsop Beach boat / Name of boat: [○] 龍丸 (fragmentary, missing first word(s): (something- Ryu-Marui; "Dragon")	OR	Clatsop Beach	2013 February 27
JTMD-BF-30	vessel	Roads End fragment	OR	Lincoln City	2013 February 28
JTMD-BF-31	rope	Laie rope floats	HI	Oahu: Laie	2013 March 4
JTMD-BF-32	dock (concrete/foa m piece)	Ahihi Kinau dock	HI	Maui	2013 March 11
JTMD-BF-33	buoy	Kahalu'u buoy	HI	Oahu	2013 March 7
JTMD-BF-34	ropes and buoys	Kauai ropes/buoys	HI	Kauai: Lepeuli Beach fide Bishop Museum work sheet	2013 February 20
JTMD-BF-35	buoy	Kahuku buoy	HI	Oahu	2013 February 21
JTMD-BF-36	vessel	Muriel Ponsler skiff Name of boat:第二合栄丸(Dai-ni- gou-ei-maru: The Second Aggregated Prosper)	OR	Florence	2013 March 14
JTMD-BF-37	box	Olympic styrofoam box Japanese: "Flammable, keep away from fire"	WA	Olympic National Park	2013 March 17
JTMD-BF-38	buoy	Lighthouse buoy	OR	Cape Arago	2013 March 17
JTMD-BF-39	vessel	Cannon Beach skiff Name of boat: なぎさ丸 (Nagisa-maru; "Beach")	OR	Cannon Beach	2013 March 21
JTMD-BF-40	vessel	Long Beach skiff Name of boat: 斎勝丸 (Sai-shō- maru, The Dignified Victory)	WA	Long Beach	2013 March 22
JTMD-BF-41	buoy	Kanapou buoy	HI	Kahoolawe	2013 March 13

JTMD-BF-42	log	Salishan log (wood)	OR	Lincoln City	2013 April 9
JTMD-BF-43	vessel	Westwind Camp boat	OR	North of Lincoln City (Westwind Camp)	2013 April 7/8
JTMD-BF-44	Post and Beam Wood	Ucluelet P&B-1	BC	Ucluelet	2013 March 28
JTMD-BF-45	Post and Beam Wood	Ucluelet P&B-2	BC	Ucluelet	2013 April 8
JTMD-BF-46	Post and Beam Wood	Ucluelet P&B-3	BC	Ucluelet	2013 April 8
JTMD-BF-47	Post and Beam Wood	Nye Beach P&B-1	OR	Nye Beach, Newport	2013 April 14
JTMD-BF-48	Post and Beam Wood	Nye Beach P&B-2	OR	Nye Beach, Newport	2013 April 14
JTMD-BF-49	bin (fish container)	Lanikai Beach bin (plastic fish container)	HI	Oahu	2013 March 29
JTMD-BF-50	vessel	Coos Bay skiff	OR	Coos Bay, North Spit	2013 April 22
JTMD-BF-51	pallet	North Spit pallet 1	OR	Coos Bay, North Spit	2013 April 25
JTMD-BF-52	pallet	North Spit pallet 2	OR	Coos Bay, North Spit	2013 April 25
JTMD-BF-53	Post and Beam Wood	Ucluelet P&B-4	BC	Ucluelet	2013 April
JTMD-BF-54	float	Kamilo float	HI	Big Island: Kamilo Beach	2013 April 8
JTMD-BF-55	Post and Beam Wood	Moolack P&B-1	OR	Lincoln Co.: Moolack Beach	2013 May 11
JTMD-BF-56	tree	South Beach tree	OR	Lincoln Co.: South Beach	2013 April 17
JTMD-BF-57	Post and Beam Wood	South Beach P&B-1	OR	Lincoln Co.: South Beach	2013 May 8
JTMD-BF-58	fiberglass boat	Clatsop boat fragment	OR	Clatsop Beach	2013 May 30
JTMD-BF-59	Post and Beam Wood	Nye Beach P&B-3	OR	Nye Beach, Newport	2013 May 30
JTMD-BF-60	Post-and beam wood	Tillamook lumber	OR	Tillamook: Bay Ocean Beach	2013 May 19
JTMD-BF-61	Post and	Nye Beach P&B-4	OR	Nye Beach, Newport	2013

	Beam Wood	106x9x9 beam			May 30
JTMD-BF-63	Post and Beam Wood	Grayland P&B	WA	Grayland Beach North	2013 April 21
JTMD-BF-64	Post and Beam Wood	Yaquina Head P&B	OR	Yaquina Head	2013 June 3
JTMD-BF-65	Post and Beam Wood	Lost Creek P&B-1	OR	Lost Creek	2013 June 9
JTMD-BF-66	Post and Beam Wood	Lost Creek P&B-2	OR	Lost Creek	2013 June 9
JTMD-BF-67	pallet	North Cove pallet: 森永乳業大和工場: Morinaga Milk Yamato Factory (a pallet from Tokyo)	OR	Cape Arago: North Cove	2013 June 18
JTMD-BF-68	refrigerator (minifridge)	Kamilo Point minifridge-1	HI	Big Island: Kamilo Point	2013 February
JTMD-BF-69	refrigerator (minifridge)	Kamilo Point minifridge-2	HI	Big Island: Kamilo Point	2013 March 16
JTMD-BF-70	TV Set	Kamilo Point TV set	HI	Big Island: Kamilo Point	2013 June 23
JTMD-BF-71	pallet	Kalaloch pallet	WA	Olympic National Park	2013 June 23
JTMD-BF-72	I-beam /styrofoam	Punaluu I-beam	HI	Oahu: Punaluu	2013 June 17
JTMD-BF-73	piling	Whiskey Run piling	OR	Coos County: Whiskey Run Beach	2013 July 8
JTMD-BF-74	Post and Beam Wood	Whiskey Run P&B-1	OR	Coos County: Whiskey Run Beach	2013 July 8
JTMD-BF-75	vessel	Malaekahana boat Myo-ei maru (妙栄丸) "Remarkable Prosper" (or, "Skillful Prosper"); a text on the boat says イトウマリンサービス (Itoh Marine Service), which is a marine transportation company based in Ofunato city, Iwate	HI	Oahu: Laie: Malaekahana Beach	2013 July 5
JTMD-BF-76	buoy	Kenai orange buoy	AK	Kenai Fjords National Park	2013 June 24
JTMD-BF-77	box	WCT blue box	BC	Vancouver Is: between	2013

		岩手大船渡港 鎌田水産: Iwate Prefecture Ofunato Harbor Kamata Marine Industry (A marine product company cased in Ofunato, Iwate)		Bamfield and Port Renfrew	June 13
JTMD-BF-78	vessel	Makah boat: "検査済 日本小型船舶検査機構: "Examined by Japan Craft Inspection Organization" and "Maximum two people on board"	WA	Makah Reservation	2013 May 12
JTMD-BF-79	buoy	Bandon buoy #1	OR	Bandon region	2013 Winter-summer
JTMD-BF-80	buoy	Bandon buoy #2	OR	Bandon region	2013 Winter-summer
JTMD-BF-81	pallet	Bandon blue pallet (label in Japanese: "This is made of polythene so please keep fire away ")	OR	Bandon region	2013 Winter-summer
JTMD-BF-82	maritime /vessel board	Coos Bay board	OR	"Coos Bay area"	2013 30 March
JTMD-BF-83	bottle	Turret plastic bottle (52 mm tall)	BC	Vancouver Is.: Turret Is.	2013 May 18
JTMD-BF-84	buoy	Campbell 3'-foam buoy	HI	Oahu: James Campbell NWR	2013 week of July 8
JTMD-BF-85	buoy with rope	Campbell 5'-foam buoy with 1.5m woven rope	HI	Oahu: James Campbell NWR	2013 week of July 8
JTMD-BF-86	post-and-beam wood	Sebastian P&B (= NT4+13+16)	OR	North of Cape Sebastian: Kissing Rock (KR)	2013 August 4
JTMD-BF-87	vessel	Kawela boat, 20-25'	HI	Oahu: Kawela	2013 August 14
JTMD-BF-88	vessel	Turtle Bay boat マーシ (too incomplete)	HI	Oahu: Turtle Bay Resort	2013 August 17
JTMD-BF-89	Post and Beam Wood	Bay Ocean P&B	OR	Tillamook Co.: Bay Ocean Peninsula	2013 July 28
JTMD-BF-90	buoy	Keauhou buoy	HI	Kona coast: 1 mile off, around Keauhou	2013 September 4
JTMD-BF-91	buoy	Red Hill buoy	HI	Kona coast: 1 mile offshore, around Red Hill	2013 September 5
JTMD-BF-92	buoy	Kamilo white styrofoam buoy 3 ft	HI	Big Island: Kamilo	2013 July 12
JTMD-BF-93	buoy,	Yamani white styrofoam buoy 3 ft	AK	Sitka area: SSSC/ Cherokee, Yamani area	2013 8 August

JTMD-BF-94	vessel fragment	Ucluelet boat	BC	Vancouver Island: Ucluelet area	2013 winter-spring
JTMD-BF-95	Post and Beam Wood	Ucluelet P&B-5	BC	Vancouver Island: Ucluelet area	2013 March-April
JTMD-BF-96	buoy	Au'au Buoy #1, orange "南フロ" (too incomplete)	HI	Maui: Au'au channel between Maui and Lana'i	2013 September 22
JTMD-BF-97	Post- and beam wood	Long Beach Peninsula P&B	WA	Long Beach Peninsula, N46.43.127, W124.06.12	2013 20 April
JTMD-BF-98	Post and Beam Wood	South Beach P&B-2	OR	South Beach	2013 17 April
JTMD-BF-99	Post and Beam Wood	Moolack Beach P&B#1	OR	Moolack Beach	2013 6 May
JTMD-BF-100	Post and Beam Wood	Moolack Beach P&B#2	OR	Moolack Beach	2013 6 May
JTMD-BF-101	Post and Beam Wood	Moolack Beach P&B#3	OR	Moolack Beach	2013 6 May
JTMD-BF-102	Post and Beam Wood	Fogarty Creek P&B	OR	Fogarty Creek Beach	2013 8 May
JTMD-BF-103	buoy	Bandon styrofoam buoy #1, large white	OR	Bandon region	late 2012 to early 2013
JTMD-BF-104	buoy	Bandon styrofoam buoy #2, large white	OR	Bandon region	late 2012 to early 2013
JTMD-BF-105	buoy	Bandon styrofoam buoy #3, large white	OR	Bandon region	late 2012 to early 2013
JTMD-BF-106	buoy	Cape Blanco styrofoam buoy, large white	OR	Cape Blanco	2013 11 July
JTMD-BF-107	Post and Beam Wood	Whiskey Run beach P&B	OR	Whiskey Run Beach	2013 8 July
JTMD-BF-108	Post and Beam Wood	Lighthouse Beach P&B #1	OR	Cape Arago: Lighthouse Beach	2013 11 July
JTMD-BF-109	Post and Beam Wood	Lighthouse Beach P&B #2	OR	Cape Arago: Lighthouse Beach	2013 13 July
JTMD-BF-110	Post and Beam Wood	Ucluelet #7	BC	Ucluelet	2013 Spring
JTMD-BF-111	Post and Beam Wood	Ucluelet burned wood	BC	Ucluelet	2013 Spring
JTMD-BF-112	Post and Beam Wood	Sand Point P&B	WA	Sand Point South, Olympic National Seashore	2013 20 April

JTMD-BF-113	Post and Beam Wood	Cape Alava P&B	WA	Olympic National Park: near Cape Alava	2013 20-21 September
JTMD-BF-114	Post and Beam Wood	P&B NT1	OR	Rocky Point south of Port Orford	2013 19 July
JTMD-BF-115	Post and Beam Wood	P&B NT2	OR	Rocky Point south of Port Orford	2013 19 July
JTMD-BF-116	Post and Beam Wood	P&B NT3 [Note: NT4 is BF-86]	OR	Crook Point, south of Gold Beach	2013 3 August
JTMD-BF-117	Post and Beam Wood	P&B NT5	OR	Lone Ranch State Park, Brookings	2013 5 August
JTMD-BF-118	Post and Beam Wood	P&B NT6	OR	South Cove, Cape Arago	2013 August
JTMD-BF-119	Post and Beam Wood	P&B NT7	OR	Pistol River, south of Gold Beach	2013 26 September
JTMD-BF-120	Post and Beam Wood	P&B NT8	OR	North Cove, Cape Arago	2013 6 October
JTMD-BF-121	Post and Beam Wood	P&B NT9	OR	North Cove, Cape Arago	2013 6 October
JTMD-BF-122	Post and Beam Wood	P&B NT10	OR	North Cove, Cape Arago	2013 6 October
JTMD-BF-123	Post and Beam Wood	P&B NT11	OR	North Cove, Cape Arago	2013 6 October
JTMD-BF-124	Post and Beam Wood	P&B NT12	OR	Crook Point, south of Gold Beach	2013 17 November
JTMD-BF-125	Post and Beam Wood	P&B NT14	OR	Lost Creek, south of Newport	2014 17 January
JTMD-BF-126	Post and Beam Wood	P&B NT15	OR	Agate Beach, Newport	2014 19 February
JTMD-BF-127	Post and Beam Wood	P&B NT17	OR	Crook Point, south of Gold Beach	2014 27 February
JTMD-BF-128	Post and Beam Wood	P&B NT18	OR	Bandon	2014 2 March
JTMD-BF-129	vessel	Long Beach BC skiff ○月日丸 (o moon sun)	BC	Long Beach, outer (west) coast of Vancouver Island	2013 6 October
JTMD-BF-130	Dock piece	Clatsop dock block	OR	Clatsop Beach: one km from Del Rey beach access	2013 9 October
JTMD-BF-131	vessel	Tokeland-Grayland skiff 八漁福丸 (Eight- Fishing- Fortune;	WA	between Grayland Beach State Park and Tokeland (N 47.7271	2013 13 November

		the complete text is probably: 第八漁福丸)		W -124.0510).	
JTMD-BF-132	buoy	Au'au buoy #2, orange ○南ブロ(○-South-??)	HI	Maui: Au'au channel between Maui and Lana'i	2013 27 November
JTMD-BF-133	buoy	Au'au buoy #3	HI	Maui: Au'au channel between Maui and Lana'i	2013 4 December
JTMD-BF-134	vessel	Twin Harbors boat, 22 feet 第 18 栄福丸 (The Eighteenth Prosperous-Fortune)	WA	Twin Harbors State Park, Westport N 46.86506 x W124.11851	2014 16 January
JTMD-BF-135	vessel piece	Yachats skiff fragment, 13'5" x 21", fiberglass S230	OR	just north of Yachats	2014 17 (18) February
JTMD-BF-136	lid	South Beach pink lid	OR	South Beach, 4 mile walk (Lost Creek)	2014 22 February
JTMD-BF-137	Post-and- beam wood	South Beach P&B #2 of this day South Beach P&B-3 /See 157 for #1	OR	South Beach, 4 mile walk	2014 22 February
JTMD-BF-138	Boat fragment	Kamilo boat fragment, large	HI	Kamilo Beach	2014 Late January; retrieved 28 February
JTMD-BF-139	vessel	Pearl Harbor – Hickam skiff (15')	HI	On reefs at Pearl Harbor – Hickam field	2014 18 February
JTMD-BF-140	cooler	Leadbetter plastic cooler (formerly “Long Beach cooler”)	WA	Leadbetter Point	2012 December
JTMD-BF-141	lid	Long Beach lid, plastic	WA	Long Beach Peninsula	2013 March
JTMD-BF-142	buoy	Hanauma Bay Buoy #2, black	HI	Hanauma Bay	2013 29 May
JTMD-BF-143	pallet	Kailua Beach pallet, 4 ft square	HI	Kailua Beach	2013 6 September
JTMD-BF-144	buoy	Waipake-Lepeuli buoy	HI	Waipake and Lepeuli	2013 29 September
JTMD-BF-145	buoys (2)	Moanalua Bay buoy	HI	Kauai: Moanalua Bay	2013 12 October
JTMD-BF-146	Post and Beam Wood	Waipake P&B	HI	Kauai: Waipake	2013 October
JTMD-BF-147	marine buoy, lighted	Hanamaulu buoy, marine, lighted, 10'	HI	Kauai: Hanamaulu Beach Park	2013 8 November
JTMD-BF-148	vessel fragment	Waihee skiff (piece); イワなわ (incomplete or an abbreviation; possibly from Iwate	HI	Maui: Kalepa Gulch: Waihee	2014 February

JTMD-BF-149	fishing buoy	Waipake buoy	HI	Kauai: Waipake Beach, NE Kauai	2013 27 April
JTMD-BF-150	Post & Beam wood	P&B NT19	OR	North Cove, Cape Arago	2014 March
JTMD-BF-151	Post & Beam wood	P&B NT20	OR	North Cove, Cape Arago	2014 March
JTMD-BF-152	vessel	Midway skiff: 伝宝丸 (The Link to the Treasure)	HI	Midway: Eastern Island	2012 2 November
JTMD-BF-153	Buoy	Midway buoy #1	HI	Midway	2013 16 February
JTMD-BF-154	Buoy	Midway styrofoam buoy	HI	Midway	2012-2013
JTMD-BF-155	Oyster buoy	Midway oyster buoy	HI	Midway: Eastern Island	2014 14 February
JTMD-BF-156	Buoy	Midway buoy #2	HI	Midway: N28.20830 x W 177.34088	2012-2013
JTMD-BF-157	Post-and- beam wood	South Beach P&B #1 of this day See 137 for #2 South Beach P&B-4 = NT 21	OR	South Beach, 4 mile walk	2014 22 February
JTMD-BF-158	Fiberglass (fish?) box	Malaekahana box	HI	Oahu: Malaekahan Beach Park	2014 12 February
JTMD-BF-159	Post and Beam Wood	South Cove P&B	OR	Cape Arago: South Cove	2013 June 16
JTMD-BF-160	Tree	Cape Meares tree NT30	OR	Tillamook Bay outer coast beach, north of Cape Meares (Tillamook Bay spit)	2014 April 26
JTMD-BF-161	Post and Beam Wood	Newport N Jetty P&B #1 = NT 22	OR	Newport: North Jetty	2014 3 April
JTMD-BF-162	Post and Beam Wood	Newport N Jetty P&B #2 = NT 23	OR	Newport: North Jetty	2014 5 April
JTMD-BF-163	Post and Beam Wood	Otter Rock P&B #1 = NT 24	OR	Otter Rock	2014 5 April
JTMD-BF-164	Post and Beam Wood	Otter Rock P&B #2 = NT 25	OR	Otter Rock	2014 5 April
JTMD-BF-165	Post and Beam Wood	Woodruff P&B = NT 26	OR	Woodruff Creek	2013 May
JTMD-BF-166	Post and Beam Wood	Newport N Jetty P&B #3 = NT 27	OR	Newport: North Jetty	2014 3 April
JTMD-BF-167	Post and Beam Wood	Crook Point P&B = NT 28	OR	Crook Point, south side	2014 16 April

JTMD-BF-168	Buoy	Long Beach float	WA	Long Beach	2014 10 March
JTMD-BF-169	Post and Beam wood	Lighthouse Beach P&B#3	OR	Lighthouse Beach	2013 December
JTMD-BF-170	vessel	Showa Skiff, Long Beach	WA	Long Beach	2014 April 23
JTMD-BF-171	Post and Beam wood	Tillamook P&B / NT29	OR	Tillamook: South Jetty Beach	2014 April 25
JTMD-BF-172	buoy	South Beach orange buoy	OR	Lost Creek, South Beach, 118th St.	2014 April 27
JTMD-BF-173	buoy	South Beach black buoy	OR	Lost Creek, South Beach, 118th St.	2014 April 27
JTMD-BF-174	Post and Beam wood	Yaquina Bay P&B-1	OR	Yaquina Bay, beach at Hatfield Station	2014 April 26
JTMD-BF-175	Post and Beam wood	South Beach P&B-4 S-300	OR	Lost Creek State Park, South Beach, 118th St.	2014 April 29
JTMD-BF-176	Post and Beam wood	South Beach P&B-5	OR	Lost Creek, South Beach, 118th St.	2014 April 29
JTMD-BF-177	vessel	Ocean City State Park (SP) / “Ocean Shores” skiff	WA	Ocean Shores, “off Ocean Lake Way”	2014 April 28
JTMD-BF-178	Post and Beam wood	Ucluelet P&B-6	BC	Ucluelet area: Salmon and Beach	2014 March 9/10
JTMD-BF-179	Post and Beam wood	Ucluelet P&B-7	BC	Ucluelet area: Salmon and Beach	2014 March 9/10
JTMD-BF-180	Post and Beam wood	Ucluelet P&B-8	BC	Ucluelet area: Broken Group Islands	2014 April 8
JTMD-BF-181	Buoy	Long Beach orange buoy Lewis #1	WA	Long Beach	2013 March
JTMD-BF-182	Post and beam wood	Long Beach Peninsula P&B #2	WA	Long Beach	2013 March
JTMD-BF-183	Buoy	Long beach buoy Lewis #2	WA	Long Beach	2014 April 24
JTMD-BF-184	Buoy	Long beach buoy Lewis #3	WA	Long Beach	2014 April 24
JTMD-BF-185	Post and beam wood	South Beach P&B-6	OR	Lost Creek, South Beach, 118th St.	2014 April 29
JTMD-BF-186	bin piece	Lost Creek plastic bin, white, piece	OR	Lost Creek, South Beach, 118th	2014

				St.	April 30
JTMD-BF-187	Buoy	Catherine Island black buoy	AK	Catherine Island, Chatham Strait	2014 April 30
JTMD-BF-188	vessel	Cape Lookout skiff #1	OR	Cape Lookout Beach	2014 May 2?
JTMD-BF-189	float	Cape Lookout float #1, blue	OR	Cape Lookout Beach	2014 May 4
JTMD-BF-190	Propane tank	Cape Lookout propane tank	OR	Cape Lookout Beach	2014 May 4
JTMD-BF-191	Plastic fragment	Cape Lookout plastic fragment	OR	Cape Lookout Beach	2014 May 4
JTMD-BF-192	Float	Cape Lookout float #2, white	OR	Cape Lookout Beach	2014 May 4
JTMD-BF-193	Float,	Cape Lookout float #3, white oysters	OR	Cape Lookout Beach	2014 May 4
JTMD-BF-194	Post and beam wood	Cape Lookout post-and-beam #1	OR	Cape Lookout Beach	2014 May 4
JTMD-BF-195	Post and beam wood	Cape Lookout post-and-beam #2	OR	Cape Lookout Beach	2014 May 4
JTMD-BF-196	vessel	Waldport skiff	OR	Waldport	2014 May 11
JTMD-BF-197	dock float	Quinalt dock float	WA	Quinalt Indian Reservation	2014 May 9
JTMD-BF-198	vessel	Tierra del Mar boat	OR	Sand Lake region	2014 May 12
JTMD-BF-199	vessel	Umpqua skiff	OR	North of the Umpqua River	2014 May 15
JTMD-BF-200	float	Manzanita float	OR	Rockaway: Manzanita State Park	2012 April
JTMD-BF-201	vessel, 25 feet x 70 inches	Brian Booth SP skiff	OR	Just N of Beaver Creek at Brian Booth State Park	2014 May 16
JTMD-BF-202	vessel	Surfland Skiff	OR	Surfland, about 3 mi south of Newport	2014 May 16
JTMD-BF-203	buoy	Long beach buoy Lewis #4	WA	Long Beach	2013 April
JTMD-BF-204	buoy	Kauai buoy	HI	Kauai	2014 March 8

JTMD-BF-205	vessel	Lepeuli Skiff	HI	Kauai: Larsen's/ Lepeuli Beach	2014 April 12
JTMD-BF-206	“fuel” (propane?) tank	Waimanalo tank	HI	Oahu: Waimanalo	2014 April 16
JTMD-BF-207	buoy	Charleston buoy	OR	Coos Bay: Charleston Outer Boat Basin	2014 May 17
JTMD-BF-208	vessel	Cape Arago skiff	OR	Cape Arago: North Cove	2014 May 19
JTMD-BF-209	vessel	Haleiwa skiff	HI	Oahu: found offshore and towed into Haleiwa small boat harbor	2014 May 19/20
JTMD-BF-210	vessel	Carter Lake skiff	OR	Siuslaw region:	2014 May 21
JTMD-BF-211	vessel	Tahkenitch Lake vessel	OR	Siuslaw region:	2014 21 May
JTMD-BF-212	concrete dock section	Siuslaw concrete dock section	OR	Siuslaw region:	2014 May 21
JTMD-BF-213	Post-and- beam wood	Cape Blanco P&B#1 (NT33)	OR	Cape Blanco	2014 May 12
JTMD-BF-214	Post-and- beam wood	Cape Blanco P&B#2 (NT32)	OR	Cape Blanco	2014 May 12
JTMD-BF-215	buoy	Tehakenitch Buoy #1, black	OR	South of Dunes City	2014 May 19
JTMD-BF- 216	buoy	Tehakenitch Buoy #2, black	OR	South of Dunes City	2014 May 19
JTMD-BF-217	float	Cape Lookout float #4, orange-white	OR	Cape Lookout Beach	2014 May 4
JTMD-BF-218	float	Cape Lookout float #5, orange-white	OR	Cape Lookout Beach	2014 May 4
JTMD-BF-219	float	Cape Lookout float #6, orange	OR	Cape Lookout Beach	2014 May 4
JTMD-BF-221	vessel	Cape Lookout skiff #2	OR	Cape Lookout Beach	2014 May 25
JTMD-BF-222	vessel	Ocean Park skiff [Yamaha 21’]	WA	Long Beach Peninsula: 0.5mi N of Ocean Park approach	2014 May 23
JTMD-BF-223	vessel	Bolstad skiff #1 [Yamaha 31’]	WA	Long Beach Peninsula: 0.2mi S of Bolstad and 0.1mi N of Seaview Beach approach	2014 May 24

JTMD-BF-224	vessel	Bolstad skiff #2 [18']	WA	Long Beach Peninsula: 0.2mi S of Bolstad and 0.1mi N of Seaview Beach approach	2014 May 24
JTMD-BF-225	vessel	Neptune skiff	OR	S of Neptune and N of Strawberry Hill	2014 May 27
JTMD-BF-226	vessel	Grays Harbor skiff	WA	Near Ocean City	2014 May 25
JTMD-BF-227	vessel	38' Long Beach skiff (AKA Cranberry Beach skiff)	WA	Long Beach Peninsula	2014 June 5
JTMD-BF-228	vessel section	Long Beach skiff section (10')	WA	Long Beach Peninsula	2014 June 5
JTMD-BF-229	vessel	Quinault skiff	WA	Grays Harbor County	2014 June 6
JTMD-BF-230	vessel	Kalaloch skiff	WA	Long Beach Peninsula, south of Kalaloch lodge	2014 June 6
JTMD-BF-231	Post-and- beam wood	Crook Point North (=NT34)	OR	South of Pistol River State Park	2014 May 27
JTMD-BF-232	buoy ("pink float")	Mile 43 Buoy, red	OR	Mile 43, Port Orford area (Humbug Mountain) (Dale Lee)	2014 May 17
JTMD-BF-233	skiff bow	Netarts skiff	OR	Netarts Bay (JWC observed it being towed)	2014 June 28
JTMD-BF-234	propane tank	South Beach propane tank	OR	South Beach	2013 February 9
JTMD-BF-235	tire	Long Beach tire	WA	Long Beach Peninsula: Oysterville	2013 March 1
JTMD-BF-236	buoy	Sitka orange buoy	AK	Sitka	2014 May 25
JTMD-BF-237	buoy	Sitka black buoy #1	AK	Sitka	2014 May 24
JTMD-BF-239	buoy	Sitka black buoy #2	AK	Sitka	2013
JTMD-BF-240	vessel	Daly City skiff	CA	Daly City: Mussel Rock Beach (south of San Francisco)	2014 August 9
JTMD-BF-241	motorcycle helmet	Cape Meares helmet	OR	Cape Meares AKA Bay Ocean	2014 August 19
JTMD-BF-242	buoy	Maui buoy	HI	Maui	2014 September 7
JTMD-BF-244	Post & Beam wood	NT 35	BC	Vancouver Island: Ucluelet	2014

JTMD-BF-245	Post & Beam wood	NT 36	BC	Vancouver Island: Ucluelet	2014
JTMD-BF-246	Post & Beam wood	NT 37	BC	Vancouver Island: Ucluelet	2014
JTMD-BF-247	Post & Beam wood	NT 38	OR	Cape Arago: North Cove	2014
JTMD-BF-248	Post & Beam wood	NT 39	OR	Cape Arago: North Cove	2014
JTMD-BF-249	buoy	MacKerricher Buoy	CA	MacKerricher State Park, Mendocino Co.	2014 August 13
JTMD-BF-250	vessel	Dry Lagoon skiff (skiff #25 in spring landing)	CA	Dry Lagoon	2014 June 6
JTMD-BF-251	buoy	Amphitrite Beach buoy	BC	Amphitrite Beach, Ucluelet	2014 April 28
JTMD-BF-253	vessel	Kahana skiff	HI	Kahana Bay	2014 April 22
JTMD-BF-254	tote	Lost Creek blue tote	OR	Between Lost Creek and South Jetty	2014 29 April
JTMD-BF-255	container	Ocean Shores Container	WA	Ocean Shores	2014 May 7
JTMD-BF-257	concrete floating dock	Sandy's Beach dock = HI56 (row 252)	HI	Between Sandy's Beach and ERMA, Oahu	2014 October 6
JTMD-BF-258	container box doors (one unit)	Quail Street Doors; ; about 8' x 8.5' (6.5x5.5 crowbars)	OR	between Newport and Waldport: Seal Rock: Quail Street	2013 February 23
JTMD-BF-259	carboy	Bay Ocean carboy, white	OR	Bay Ocean	2013 February
JTMD-BF-260	wooden dock frame	Retz Creek dock frame, 15'x5'x12"	OR	Retz Creek, just south of Port Orford	2013 11 March
JTMD-BF-261	Post & Beam wood	NT41	OR	Gold Beach: Kissing Rock	2014 18 November
JTMD-BF-262	Post & Beam wood	NT42	OR	Bandon	2014 12 December (spring 2014 landing)

JTMD-BF-263	Post & Beam wood	NT43	OR	Crooked Creek, Bandon (Devil's Kitchen State Park)	2015 2 January
JTMD-BF-264	tree	NT44	WA	Oysterville, Long Beach	2014 22 December
JTMD-BF-265	Post & Beam wood	NT45	OR	Newport: Moolack Beach	check date
JTMD-BF-266	Post & Beam wood	NT46	OR	Newport: Moolack Beach	2015 January 9
JTMD-BF-267	Post & Beam wood (roof beam)	NT47	OR	Newport: Moolack Beach	2015 January 9
JTMD-BF-268	Post & Beam wood	NR48	OR	Newport: Moolack Beach	2015 January 9
JTMD-BF-269	Post & Beam wood	NT49	OR	Newport: Moolack Beach	2015 January 9
JTMD-BF-270	Post & Beam wood	NT50	OR	Newport: Moolack Beach	2015 January 9
JTMD-BF-271	Post & Beam wood	NT51	OR	Newport: Moolack Beach	2015 January 9
JTMD-BF-272	Post & Beam wood	NT52	OR	Newport: Moolack Beach	2015 January 9
JTMD-BF-273	Post & Beam wood (door frame)	NT53	OR	Newport: Moolack Beach	2015 January 9
JTMD-BF-274	Post & Beam wood	NT54	OR	Newport: South Beach	2015 January 10
JTMD-BF-275	Post & Beam wood	NT55	OR	Newport: South Beach	2015 January 10
JTMD-BF-276	Post & Beam wood	NT56	OR	Newport: South Beach	2015 January 10
JTMD-BF-277	tote 1.67m	Seal Rock tote	OR	Seal Rock	2014 November 30
JTMD-BF-279	Post & Beam wood	NT57	OR	Lincoln City: Roads End	2015 January 16 (about 2 yrs on beach?)
JTMD-BF-280	Post & Beam wood	NT58	OR	Lincoln City: Roads End	2015 January 16

JTMD-BF-281	carbuoy	Oysterville carbuoy (S265), plastic	WA	Oysterville	2014 May 8
JTMD-BF-282	milled wood	Oysterville wood (S266-7)	WA	Oysterville	2014 May 8
JTMD-BF-283	buoy	Oysterville black buoy (S268)	WA	Oysterville	2014 May 8
JTMD-BF-284	float	Long Beach green float	WA	Long Beach	2014 December 23
JTMD-BF-285 RESTORED	skiff fragment	Long Beach boat fragment	WA	Long Beach	2015 4 January
JTMD-BF-286	fillet board	Long Beach fillet board	WA	Long Beach	2015 January
JTMD-BF-287	tote	Long Beach tote	WA	Long Beach	2015 January
JTMD-BF-288	pallet	Beverly Beach crate (tote)	OR	Beverly Beach, north of Newport	2015 January 20
JTMD-BF-289	crate	Tillamook South Jetty pink crate	OR	Tillamook South Jetty Beach (north of the Cape)	2015 January 18
JTMD-BF-290	crate	Tillamook South Jetty red bottle crate	OR	Tillamook South Jetty Beach (north of the Cape)	2015 January 18
JTMD-BF-291	laundry basket	Tillamook South Jetty laundry basket	OR	Tillamook South Jetty Beach (north of the Cape)	2015 January 18
JTMD-BF-292	crate (tote)	Tokeland tote	WA	on beach in front of 3167 Kindred Ave., Tokeland	2015 January 20
JTMD-BF-293	pipe	Seaview pipe/I-beam	WA	Long Beach: Beard's Hollow	2013 January 28
JTMD-BF-294	post-and- beam wood	Donkey Beach p&b	HI	Kauai: Paliku	2014 September 29
JTMD-BF-295	sieve lid	Long Beach green sieve lid	WA	Long Beach	2015 January 27
JTMD-BF-296	post-and- beam wood	NT 59	OR	Bandon: Bullard's Beach	2015 January 31
JTMD-BF-297	post-and- beam wood	NT 60	OR	Bandon: Bullard's Beach	2015 January 31
JTMD-BF-298	post-and- beam wood	NT 61	OR	Bandon: Bullard's Beach	2015 January 31
JTMD-BF-299	basket	Long Beach white bucket	WA	Long Beach	2015 February 11
JTMD-BF-300	buoy	Toleak Point buoy, black plastic	WA	La Push: Toleak Point	2015

		WDFW 517			February 10
JTMD-BF-301	buoy	Strawberry Pt buoy, black plastic WDFW 526	WA	La Push: Strawberry Point	2015 February 11
JTMD-BF-302	buoy	Strawberry Point, La Push buoy, black plastic WDFW527	WA	La Push: Strawberry Point	2015 February 11
JTMD-BF-303	buoy	Strawberry Point, La Push buoy, black plastic WDFW529	WA	La Push: Strawberry Point	2015 February 11
JTMD-BF-304	basket	offshore Newport yellow basket; sample rec'd June 2016	OR	offshore of Newport, at sea	2015 February 12
JTMD-BF-305	crate	Westwind Camp blue crate	OR	north of Lincoln City	2015 February 13
JTMD-BF-306	basket	Brookings blue crate (tote, basket)	OR	Brookings	2015 February 10
JTMD-BF-309	post-and-beam wood	NT63	OR	Cape Arago: South Cove	2015 7 March
JTMD-BF-310	post-and-beam wood	NT64	OR	Cape Arago: South Cove	2015 7 March
JTMD-BF-311	post-and-beam wood	NT66	HI	Oahu: Waimanalo Beach	2013(estimated landing date)
JTMD-BF-312	post-and-beam wood	NT67	HI	Oahu: Waimanalo Beach	2013(estimated landing date)
JTMD-BF-313	post-and-beam wood	NT68	HI	Kauai: Donkey Beach	2015 22 March
JTMD-BF-315	post-and-beam wood	NT70	HI	Kauai: Hanamaula Beach	2013 9 November
JTMD-BF-316	post-and-beam wood	NT71	WA	Moclips	2013 spring (estimated landing date)
JTMD-BF-317	post-and-beam wood	NT72	WA	Moclips	2013 spring(estimated landing date)
JTMD-BF-318	post-and-beam wood	NT73	WA	Moclips	2013-14(estimated landing date)
JTMD-BF-319	post-and-beam wood	NT74	WA	Moclips	2013-14(estimated landing date)
JTMD-BF-320	post-and-beam wood	NT75	WA	Moclips	2013-14(estimated landing date)
JTMD-BF-321	post-and-beam wood	NT76	WA	Grayland	2014 spring (estimated landing

					date)
JTMD-BF-322	post-and-beam wood	NT77	WA	Queets	2014 October (estimated landing date)
JTMD-BF-323	post-and-beam wood	NT78	WA	Ocean Shores	2014 spring (estimated landing date)
JTMD-BF-324	post-and-beam wood	NT80	WA	Ocean Shores	2013 fall (estimated landing date)
JTMD-BF-325	post-and-beam wood	NT81	WA	Ocean Shores	2013 fall (estimated landing date)
JTMD-BF-326	post-and-beam wood	NT82	WA	Ocean Shores	2013 fall (estimated landing date)
JTMD-BF-327	milled log	NT83	WA	Oysterville	2013 spring (estimated landing date)
JTMD-BF-328	tray	JWC #50, yellow tray	WA	Long Beach	2015 early April to 26 May
JTMD-BF-329	vessel hull	Kohanaiki Vessel, , 20'	HI	Kohanaiki	2015 14 February
JTMD-BF-330	buoy	Strawberry Point foam buoy 16"x20" WDFW 539	WA	Strawberry Point, south of La Push	2015 25 February
JTMD-BF-331	vessel	Oysterville boat fragment: 第三寿丸 (Dai-San-Kotobuki-Maru) (The Third Celebration)	WA	Long Beach: Oysterville	2014 14 March
JTMD-BF-332	lid	Long Beach lid JWC27, light blue	WA	Long Beach	2015 early April to 26 May
JTMD-BF-333	pot	Long Beach brown pot JWC38	WA	Long Beach	2015 early April to 26 May
JTMD-BF-334	urchin tray	Long Beach green urchin tray JWC29	WA	Long Beach	2015 early April to 26 May

JTMD-BF-335	sieve	Long Beach blue circular sieve JWC15; urchin pot support disk	WA	Long Beach	2015 March 16 to April 1
JTMD-BF-336	buoy	Long Beach black buoy 14"; JWC32	WA	Long Beach	2015 early April to 26 May
JTMD-BF-337	pipe	Long Beach blue pipe; JWC31	WA	Long Beach	2015 early April to 26 May
JTMD-BF-338	pallet	Second Beach pallet	WA	Second Beach ONP	2015 22 May
JTMD-BF-339	vessel	Queets vessel WDFW 706-709	WA	ONP Queets	2015; sighted 8 May by USCG; onshore 16 May
JTMD-BF-340	pallet	Wouwer pallet	BC	Wouwer Island	2015 29 March
JTMD-BF-341	buoy, fishing	Second Beach buoy	WA	Second Beach ONP	2015 22 May
JTMD-BF-342	buoy	Second Beach crab [mis-written, meant: "FAD" ?] buoy	WA	Second Beach ONP	2015 22 May
JTMD-BF-343	basket	Debris #50, white basket	WA	Long Beach	2015 March 16 to April 1
JTMD-BF-344	crate	Cape Perpetua crate	OR	South of Yachats	2015 7 April
JTMD-BF-345	frame	Long Beach frame	WA	Long Beach	2014 week of 29 December
JTMD-BF-346	basket	Waikiki Washington blue basket	WA [not HI]	Waikiki Beach	2015 April 1
JTMD-BF-347	buoy	Quail Street black buoy large	OR	Quail Street, Seal Rock	2015 14 April
JTMD-BF-348	buoy	Quail Street black buoy imploded	OR	Quail Street, Seal Rock	2015 14 April
JTMD-BF-349	tank	fish tank	WA	Copalis Beach	2015 14 April
JTMD-BF-350	sieve	Moclips pink sieve #2	WA	Moclips	2015 14 April
JTMD-BF-352	vessel	Long Beach vessel / Ilwaco north	WA	Long Beach	2015 29 March
JTMD-BF-353	tote	Moclips blue tote	WA	Roosevelt Beach, Moclips 47.1722 x 124.19536	2015 5 April

JTMD-BF-354	tote	Ocean Park blue tote 1 mussel rec'd June 2016	WA	Long Beach near Ocean Park	2015 3 April
JTMD-BF-355	crate	Moclips blue crate fragment	WA	Roosevelt Beach, Moclips 47.1722 x 124.19536	2015 6 April
JTMD-BF-356	vessel	Seal Rock / Ona Beach vessel 26'	OR	off Seal Rock / Ona Beach	2015 9 April sighted 6 April (2013)
JTMD-BF-357	buoy	WA orange buoy	WA	La Push: change to: Ocean Shores 47.53138 x 124.353	
JTMD-BF-358	tray	Queets green plastic tray	WA	ONP Queets	2015 9 April
JTMD-BF-359	tote	Long Beach blue plastic tank	WA	Long Beach	2015 13 April
JTMD-BF-360	tote	Long Beach Grass Roots	WA	Long Beach	2015 25 April
JTMD-BF-361	basket	Long Beach Grass Roots basket	WA	Long Beach	2015 25 April
JTMD-BF-362	tote	tote WDFW 560	WA	Oysterville	2015 29 July
JTMD-BF-363	bowl	WDFW 555, plastic bowl	WA	Oysterville	2015 26 February
JTMD-BF-364	container (carboy)	plastic	WA	Oysterville	2015 8 May
JTMD-BF-365	basket/crate	WDFW 557	WA	Ocean Shores	2015 5 July
JTMD-BF-366	plastic-metal boom	WDFW 558 40 feet	WA	Kayostia Beach	2015 15 July
JTMD-BF-367	tote (crate) piece	yellow tote piece WDFW561	WA	Oysterville	2015 29 July
JTMD-BF-368	lid	white lid #30	WA	Long Beach	2015 18 May
JTMD-BF-369	tote fragment	JWC33: blue tote fragment 24 lb with sand, 17 lb clean	WA	Long Beach	2015 early April to 26 May
JTMD-BF-370	rebar cap	yellow rebar cap JWC37	WA	Long Beach	2015 early April to 26 May
JTMD-BF-371	eel trap	JWC47	WA	Long Beach (Seaview)	2015 early April to

					26 May
JTMD-BF-372	tray (tote)	JWC42, pink tray (tote)	WA	Long Beach	2015 early April to 26 May
JTMD-BF-373	tote fragment	JWC43, white tote fragment	WA	Long Beach	2015 early April to 26 May
JTMD-BF-374	tote	JWC45, red Coca Cola 24 bottle tote	WA	Long Beach	2015 early April to 26 May
JTMD-BF-375	top	JWC46, blue plastic top	WA	Long Beach	2015 early April to 26 May
JTMD-BF-376	tote	JWC48, pastry tote	WA	Seaview (Long Beach)	2015 May 25
JTMD-BF-377	pan	JWC49, pale yellow pan	WA	Long Beach (Seaview)	2015 early April to 26 May
JTMD-BF-378	tote fragment	JWC52, red tote fragment	WA	Long Beach (Seaview)	2015 early April to 26 May
JTMD-BF-379	tote fragment	JWC53, blue tote fragment	WA	Long Beach (Seaview)	2015 early April to 26 May
JTMD-BF-380	tote fragment	JWC55, blue tote fragment	WA	Long Beach (Seaview)	2015 early April to 26 May
JTMD-BF-382	crate	Ocean Beach blue crate	CA	Ocean Beach, south of San Francisco	2015 26 May
JTMD-BF-383	crate	JWC18, plastic crate	WA	Long Beach	2015 March 16 to April 1
JTMD-BF-384	basket	debris 18, shallow white basket	WA	Long Beach	2014: 25 December; sampled 2015 5 March
JTMD-BF-386	buoy	JWC20, black buoy 14"	WA	Long Beach	2015 March 16 to April 1
JTMD-BF-387	metal frame	green and white long metal frame debris#20 sieved	WA	Long Beach	2014 25 December
JTMD-BF-388	basket	debris#19 sieved, orange basket	WA	Long Beach	2014

	fragment	fragment			25 December
JTMD-BF-389	basket	debris #30 sieved, shallow white basket	WA	Long Beach	2014 25 December
JTMD-BF-390	propeller	debris #29 sieved; black propeller	WA	[Long Beach area]	Jan-March 2015
JTMD-BF-391	cylinder	debris #23 sieved; notched black cylinder	WA	[Long Beach area]	Jan-March 2015
JTMD-BF-392	cutting board	sample #14, cutting board	WA	Long Beach	2015 March 16 to April 1
JTMD-BF-393	tub	sample #17, gray tub	WA	Long Beach	March 16 to April 1 2015
JTMD-BF-395	crate	sample #23, , blue crate	WA	Long Beach	2015 March 16 to April 1
JTMD-BF-396	pallet /helmet	pallet (Pt. Grenville) /helmet (Moclips)	WA	Pacific Beach // Moclips-Pt. Grenville area	2014 April 14
JTMD-BF-397	dock piece	WDFW662, dock piece (660-671 all = BF 397)	WA	Long Beach: Klipsan Approach	2015 1 May
JTMD-BF-398	octopus trap	JWC sample 24, octopus trap	WA	[Long Beach area]	2015 March 16 to April 1
JTMD-BF-400	mirror cover	JWC Sample 51, mirror cover	WA	Long Beach	2015 early April to 26 May
JTMD-BF-401	buoy	WDFW 562, black buoy	WA	Kalaloch Beach	2015 August 7
JTMD-BF-402	vessel	WDFW Seaview Boat AKA Ilwaco Boat	WA	Seaview	2015 May 10
JTMD-BF-403	buoy	WDFW658, Kalaloch buoy WDFW 660 and 659?	WA	Kalaloch	2015 April 25, 27
JTMD-BF-404	buoy	buoy (black collapsed buoy / float)	OR	Kissing Rock Beach	2015 August 25
JTMD-BF-405	basket	basket	WA	Long Beach	2015 March 16 to April 1
JTMD-BF-406	basket	Waikiki Beach basket	WA [not HI]	Waikiki Beach	2015 March 16 to April 1
JTMD-BF-407	bucket	Chapman25, blue basket	WA	Long Beach	2015 March 16 to April 1
JTMD-BF-408	basket	Chapman 16, white basket	WA	Long Beach	2015 March 16 to April 1

JTMD-BF-409	tote (crate)	Chapman21, white tote (crate)	WA	Long Beach	2015 March 16 to April 1
JTMD-BF-410	basket	no tracking #, green basket	OR	off Newport; same event as 573 and 574: off Heceta Head	2015 February 10
JTMD-BF-411	basket	no tracking #, white basket	OR	off Newport; same event as 573 and 574: off Heceta Head	2015 February 10
JTMD-BF-412	basket	white broken basket, Debris #53	WA	Long Beach	2015 March 16 to April 1
JTMD-BF-413	basket	white basket	WA	Long Beach	2015 Jan-March
JTMD-BF-414	basket	blue round tall basket	WA	Long Beach	2014 25 December
JTMD-BF-415	plastic piece (fragment)	white plastic piece (fragment)	WA	Long Beach	2015 Jan--February
JTMD-BF-416	milled log	NT88	OR	Newport: South Beach	2013 spring (collected June 1, 2013; est. landing date is spring '13)
JTMD-BF-417	tote	S304 plastic tote	OR	recovered offshore: assume about 20 mi offshore of Newport	2015 25 February
JTMD-BF-418	tote	JWC44 white tote	WA	Long Beach	2015 26 May
JTMD-BF-419	post-and-beam wood	NT91	OR	Cape Blanco	2013-14
JTMD-BF-420	boat panel fragment	NT92	WA	Long Beach (Oysterville)	2015 May-June
JTMD-BF-421	post-and-beam wood	NT93	HI	Kauai: Kealia Point	2014
JTMD-BF-422	post-and-beam wood	NT94	OR	Bandon	2014 22 May
JTMD-BF-423	pallet	blue pallet	OR	Gold Beach: Bailey Beach	2015 14 May
JTMD-BF-424	laundry basket	red laundry basket	OR	Crook Point, south of Gold Beach	2015 28 March
JTMD-BF-425	golf caddy	Ja-Ru golf caddy robot leg	OR	Crook Point, south of Gold	2015

	leg			Beach	17 April
JTMD-BF-426	tray	black tray	WA	Queets	2015 9 April
JTMD-BF-427	plastic bar	black plastic bar	OR	Cape Arago: South Cove	2015 28 May
JTMD-BF-428	float	black round float	WA	Long Beach (Oysterville)	2015 11 April
JTMD-BF-429	tray	white tray	WA	Queets	2015 9 April
JTMD-BF-430	tray	black plastic tray	WA	Ocean Shores 47.53138 x 124.353	2014
JTMD-BF-433	bucket	yellow bucket	OR	Kissing Rock Beach, north of Gold Beach	2014 16 December
JTMD-BF-434	post-and- beam wood	post-and-beam NT95	CA	Doran Spit, Bodega Bay	2015 3 November
JTMD-BF-435	bin	blue bin / blue tote	WA	Long Beach (Surfside and north)	2015 4 November
JTMD-BF-436	tray	large white tray bread tray	WA	Long Beach: north of Oysterville Approach	2015 5 November
JTMD-BF-437	tote	orange tote	WA	Long Beach: near Oysterville approach	2015 5 November
JTMD-BF-438	float	black plastic float	WA	Long Beach: Leadbetter Point	2015 8 May
JTMD-BF-439	float	brown plastic float	WA	Long Beach: Leadbetter Point	2015 29 May
JTMD-BF-440	buoy	buoy	OR	Beverly Beach	2015 16 December
JTMD-BF-441	basket fragment	yellow basket fragment	OR	2 miles south of Coquille Point, Bandon	2015 week of 2 November
JTMD-BF-442	buoy	black-brown buoy	WA	Long Beach	2015 14 November
JTMD-BF-443	tote	blue tote	WA	Long Beach	2015 9 December
JTMD-BF-444	tote	yellow tote	WA	Long Beach	2015 14 December
JTMD-BF-445	buoy?	white buoy?	WA	Long Beach	2015 15 December
JTMD-BF-446	tote	white tote	WA	Long Beach	2015 17 December

JTMD-BF-447	tote	blue bottle tote	WA	Long Beach	2015 22 December
JTMD-BF-448	rope on container	rope remnant on 5 gallon blue plastic container	WA	Long Beach: Leadbetter Point	2015 22 December
JTMD-BF-449	vessel	Moclips vessel, 32'	WA	Moclips	2014 (sic) 29 May
JTMD-BF-450	post-and-beam	Long Beach post-and-beam	WA	Long Beach	[2013] 2015 23 December
JTMD-BF-451	buoy	Nye Beach buoy	OR	Nye Beach	2015 26 December
JTMD-BF-452	orange buoy	Long Beach orange buoy; Russ Lewis 006	WA	Long Beach	2015 24 December
JTMD-BF-453	post-and-beam	Waimalano p&b/NT96	HI	Oahu: Waimalano Bay	2015 May-August
JTMD-BF-454	styrofoam-wood panel	Long Beach styro-wood panel; JWC25	WA	Long Beach	2015 between early April and end of May; sampled 27 May
JTMD-BF-455	buoy	14" Copalis black buoy	WA	Copalis Beach	2015 3 April
JTMD-BF-456	ring	Bandon black plastic ring	OR	Bandon	2015 20 December
JTMD-BF-457	basket	Manzanita white basket (half) #1	OR	Manzanita [Tillamook County]	2015 28 February
JTMD-BF-458	fish box	blue plastic commercial fish box	WA	Long Beach	2015 15 April
JTMD-BF-459	buoy	WDFW 721	WA	Ocean Shores	2015 4 December
JTMD-BF-460	plastic piece	WDFW 726	WA	Ocean Shores	2015 4 December
JTMD-BF-461	basket	Manzanita blue baskets one of 2 blue baskets of this date and location; other is 570	OR	Manzanita [Tillamook County]	2015 28 February
JTMD-BF-462	float (buoy)	Long Beach black float	WA	Long Beach	2015 4 January
JTMD-BF-463	tray	Queets green planting tray	WA	ONP Queets	2015 9 April
JTMD-BF-464	tote	Queets white bottom tote	WA	Queets [Quinalt Reservation]	2015

		WDFW 731		south of Queets River mouth)	16 December
JTMD-BF-465	basket	Queets yellow basket fragment WDFW 733	WA	Queets (ditto 464 details)	2015 16 December
JTMD-BF-466	crate	beer bottle crate	OR	Devils Punchbowl State Natural Area	2015 23 January
JTMD-BF-467	tote	sample #35	WA	Long Beach	2015 early April to May 26
JTMD-BF-468	pallet	"Korean pallet"	WA	3 miles north of Oysterville (Jesse Schultz)	2014 (sic) 13 March
JTMD-BF-469	tote	WDFW 729	WA	Queets [Quinalt Reservation south of Queets River mouth)	2015 16 December
JTMD-BF-470	white basket	WDFW735	WA	Queets [Quinalt Reservation south of Queets River mouth)	2015 16 December
JTMD-BF-471	line	WDFW 736	WA	Queets [Quinalt Reservation south of Queets River mouth)	2015 16 December
JTMD-BF-472	tote	WDFW 732; blue top tote	WA	Queets [Quinalt Reservation south of Queets River mouth)	2015 16 December
JTMD-BF-473	crate	WDFW 730	WA	Queets [Quinalt Reservation south of Queets River mouth)	2015 16 December
JTMD-BF-474	tote	grey tote WDFW 728	WA	Queets [Quinalt Reservation south of Queets River mouth)	2015 16 December
JTMD-BF-475	yellow basket	WDFW 734	WA	Queets [Quinalt Reservation south of Queets River mouth)	2015 16 December
JTMD-BF-476	tote	old blue tote	WA	Long Beach: near Leadbetter Point	2015 25 December
JTMD-BF-477	buoy		WA	La Push to Kalaloch	2015 10 May
JTMD-BF-478	buoy		WA	La Push to Kalaloch	2015 24 May
JTMD-BF-479	buoy		WA	La Push to Kalaloch	2015 24 May
JTMD-BF-480	buoy		WA	La Push to Kalaloch	2015 July
JTMD-BF-481	float (glass)		WA	Long Beach	2015 24 December
JTMD-BF-482	ball of nylon rope	NT: MpW462015-2; rec'd June 2016	WA	Roosevelt Beach, Moclips	2015 6 April

JTMD-BF-483	post-and-beam	NT98	OR	Cape Lookout 45.36350 x 123.97057	2014 retrieved 1-17-16
JTMD-BF-485	post-and-beam	NT100	WA	Oysterville 46.63135 x 124.07090	2013 retrieved 1-19-16
JTMD-BF-486	post-and-beam	NT101	WA	Oysterville 46.63135 x 124.07090	2013 retrieved 1-19-16
JTMD-BF-487	post-and-beam	NT102	WA	Oysterville 46.63135 x 124.07090	2013 retrieved 1-20-16
JTMD-BF-488	post-and-beam	NT103	WA	Oysterville 46.63135 x 124.07090	2013 retrieved 1-20-16
JTMD-BF-489	post-and-beam	NT104	WA	Oysterville 46.63135 x 124.07090	2013 retrieved 1-20-16
JTMD-BF-490	post-and-beam	NT105	WA	Oysterville 46.63135 x 124.07090	2013 retrieved 1-20-16
JTMD-BF-491	post-and-beam	NT106	WA	Oysterville 46.63135 x 124.07090	2013 retrieved 1-20-16
JTMD-BF-492	post-and-beam	NT107	WA	Oysterville 46.63135 x 124.07090	2013 retrieved 1-20-16
JTMD-BF-493	boat panel	NT108	WA	Oysterville 46.63135 x 124.07090	2015 spring-summer; retrieved December 2015
JTMD-BF-494	post-and-beam	NT109	OR	Pistol River, Gold Beach	2013 retrieved 1-26-16
JTMD-BF-495	wood: painted with metal fastenings; dock section?	NT110	OR	Bandon	2014 22 May
JTMD-BF-496	basket	large blue basket	WA	Long Beach	2016 29 January
JTMD-BF-497	jet ski	Hawaii ID # DAR 447 = should be 477 per labels	HI	Oahu: Laie	2016 25 January
JTMD-BF-498	tote	plastic tote blue tote 2 mussels rec'd Oysterville Beach approach; 015	WA	Long Beach	2016 11 February
JTMD-BF-499	buoy	brown plastic floats; two tied together	WA	Long Beach	2016 15 February
JTMD-BF-500	tote	Saporo beer tote	WA	Long Beach	2016 16 February
JTMD-BF-501	tree	NT111; tree is 8 feet long (roots and	WA	Long Beach	2016

		lower part of trunk); Japanese black pine			18 February
JTMD-BF-502	float	yellow float	WA	Long Beach	2016 20 February
JTMD-BF-503	float	black float, plastic says Inaba Kasen on it JWC 898	WA	Long Beach: Leadbetter Point	2016 20 February
JTMD-BF-504	plastic cap	Kure black plastic spray cap	CA	Salmon Creek Beach, Bodega Bay	2016 5 March
JTMD-BF-505	buoy	12" float: black 2-eared buoy with rope: SANSHIN Lewis #18	WA	Long Beach	2016 7 March
JTMD-BF-506	styrofoam float	foam cylinder float with rope harness 017	WA	Long Beach: Leadbetter Point	2016 7 March
JTMD-BF-507	buoy	white float (plastic)	OR	Tillamook Bay: Bay Ocean Peninsula	2016 7 March
JTMD-BF-508	crate	white crate	OR	Arch Cape	2016 19 February
JTMD-BF-509	styrofoam float	large weathered white styrofoam float; styrofoam "log"; Russ Lewis 820	WA	Long Beach	2016 7 March
JTMD-BF-510	buoy		WA	Ocean Shores 47.53138x124.353	2015 10 January
JTMD-BF-511	buoy	orange float	WA	Ocean Shores 47.53138x124.353	(2012-2015)
JTMD-BF-512	buoy	orange float	WA	Ocean Shores 47.53138x124.353	(2012-2015)
JTMD-BF-513	buoy	black float	OR	Kissing Rock, Gold Beach 42.362x124.42448	2015 21 December
JTMD-BF-514	buoy	pink float	OR	Tillamook: South Jetty	2016 16 January
JTMD-BF-515	buoy	float: "black float blow co. with rope"	OR	Bandon: Mars Street	2015 22 December
JTMD-BF-516	plastic bar	red plastic bar	OR	Tillamook: South Jetty	2016 16 January
JTMD-BF-517	crate	yellow Kirin beer bottle crate	OR	Cape Blanco, south near Eel River 42.82883x124.5506	2015 28 December
JTMD-BF-518	buoy	large black plastic float	WA	Long Beach: Leadbetter	2016

					14 March
JTMD-BF-519	container	blue container; sample #819	WA	Long Beach	2016 7 March
JTMD-BF-520	buoy	orange float	OR	Tillamook Bay: Bay Ocean Peninsula	2016 14 March
JTMD-BF-521	tote	blue tote JWC 822	OR	Nye Beach	2016 14 March
JTMD-BF-522	buoy, orange	South Beach float orange float 2 ears 12" diameter JWC #900	OR	South Beach, Yaquina Bay area	2016 16 March
JTMD-BF-523	child's shoe	Pistol River shoe	OR	Pistol River, south of Gold Beach	2016 21 March
JTMD-BF-524	broom handle	Myers Creek handle	OR	Myers Creek, Gold Beach	2016 3 March
JTMD-BF-525	dust pan	Yachats melted pan: Japanese "silver model A" fide A. Isobe	OR	Yachats	2016 ca. 16 March
JTMD-BF-526	vessel	Horsfall Beach Vessel 16' vessel: Vessel ID #: 730 265 105 44 7556	OR	1.5mi N of Horsfall Beach, N of Coos Bay	2016 22 March
JTMD-BF-527	pot	Hubbard's Creek cooking pot	OR	Hubbard's Creek, N of Gold Beach	2016 24 March
JTMD-BF-528	tray	Hubbard's Creek tray	OR	Hubbard's Creek, N of Gold Beach	2016 24 March
JTMD-BF-529	buoy	Hubbard's Creek float with rope	OR	Hubbard's Creek, N of Gold Beach	2016 24 March
JTMD-BF-530	vessel fragment		OR	Hubbard's Creek, N of Gold Beach	2016 24 March
JTMD-BF-531	styrofoam buoy	white cylindrical styrofoam float, 41cmLx28cmD; Fawn and Michael Custer (notebook 34, p. 26; #739)	OR	Quail St., Seal Rock	2016 25 March
JTMD-BF-532	vessel	20' vessel from Iwate Prefecture: IT 3-37322	WA	South of Kalaloch	2016 26 March
JTMD-BF-533	vessel	Lincoln City boat; AKA Roads End boat, 14' stern fragment JWC 890	OR	Roads End, Lincoln City: 1 block N of path leading to beach from turn-around next to Road's End parking	2016 27 March (on beach)
JTMD-BF-534	tote	plastic white bottle tote	WA	Long Beach: 2 miles South of Leadbetter	2016 25 March

JTMD-BF-535	rope	Long Beach rope	WA	Long Beach	2016 3 April
JTMD-BF-536	tote	Long Beach tote	WA	Long Beach	2016 5 April
JTMD-BF-537	tote		OR	South of Winchester Bay	2016 15 April
JTMD-BF-538	vessel	Sixes River vessel	OR	mouth of Sixes River	2016 16 April
JTMD-BF-539	milled log	Douglas fir log #1	HI	Kauai: Kealia Beach	2016 7 April
JTMD-BF-540	milled log	Douglas fir log #2	HI	Kauai: Kealia Beach	2016 10 April
JTMD-BF-541	tote, broken		WA	Long Beach	2016 15 or 17 April
JTMD-BF-542	post and beam		WA	Long Beach	2016 April
JTMD-BF-543	buoy, black		OR	Seal Rock Quail Street beach	2016 18 April
JTMD-BF-544	dish rack		OR	Seal Rock Quail Street beach	2016 18 April
JTMD-BF-545	vessel		OR	mouth of the Umpqua River	2016 26 March
JTMD-BF-546	barrel fragment	blue plastic barrel fragment 839	OR	Moolack Beach Bridge	2016 29 April
JTMD-BF-547	pink basket		WA	Long Beach	2016 14 May
JTMD-BF-548	orange float		WA	Long Beach	2016 16/17 May
JTMD-BF-549	blue tote		WA	Long Beach	2016 16/17 May
JTMD-BF-550	yellow float		WA	Long Beach	2016 16/17 May
JTMD-BF-551	Gray tote, gray flat		WA	Long Beach	2015 Sept-Dec
JTMD-BF-553	Pink pot		WA	Long Beach	Dec 2015-Jan 2016
JTMD-BF-554	White plastic object		WA	Pacific Beach	2015 12 April
JTMD-BF-555	vessel	Daini Katsu Maru	HI	Oahu: Alan Davis Beach	2015

		HI DAR 318			22 April
JTMD-BF-556	bucket lid	Bd1142016-2 green cracked	OR	Bandon: Mars St.	2016 14 January
JTMD-BF-557	crate	CPS3262016-14 blue crate fragment	OR	Crook Point South Gold Beach	2016 26 March
JTMD-BF-558	basket fragment	CPS3262016-10	OR	Crook Point South Gold Beach	2016 26 March
JTMD-BF-559	float, black		OR	Crook Point South Gold Beach	2016 26 March
JTMD-BF-560	hollow black bar	CPS 3262016-1	OR	Crook Point South Gold Beach	2016 26 March
JTMD-BF-561	crate, white, fragment		OR	Bandon	2015 6 November
JTMD-BF-562	collapsed styrofoam float with rope		OR	Pistol River, Gold Beach	2016 18 March
JTMD-BF-563	basket	pink basket, #54	WA	Long Beach	2015 2 April
JTMD-BF-564	lid	pink lid #55	WA	Long Beach	2015 2 April
JTMD-BF-565	basket	basket fragment #56	WA	Long Beach	2015 2 April
JTMD-BF-566	plastic lid	#32	WA	Long Beach	2015 (Dec14-Mar15)
JTMD-BF-567	buoy	black buoy #11	WA	Long Beach	2015 25-27 February
JTMD-BF-569	bowl	white bowl #1 group A	OR	Manzanita	2015 28 February
JTMD-BF-570	basket	blue basket #2 group A one of 2 blue baskets of this date and location; other is 461	OR	Manzanita	2015 28 February
JTMD-BF-571	basket	shallow white rectangular basket #6	WA	Long Beach	2015 (Dec14-Mar15)
JTMD-BF-572	bumper piece	black bumper piece #22	WA	Long Beach	2015 (Dec14-Mar15)
JTMD-BF-573	basket	blue no #	OR	off Heceta Head	2015 10 February

JTMD-BF-574	basket	orange no #	OR	off Heceta Head	2015 10 February
JTMD-BF-575	basket	green #27	WA	Long Beach	2015 (Dec14-Mar15)
JTMD-BF-576	jug	white jug #8	WA	Long Beach	2015 (Dec14-Mar15)
JTMD-BF-577	basket	white #10	WA	Long Beach	2015 (Dec14-Mar15)
JTMD-BF-578	basket	#3	WA	Long Beach	2015 (Dec14-Mar15)
JTMD-BF-579	float	#16 small blue	WA	Long Beach	2015 (Dec14-Mar15)
JTMD-BF-580	basket	yellow plastic, fragment #28	WA	Long Beach	2015 (Dec14-Mar15)
JTMD-BF-581	bowl	white dog #25	WA	Long Beach	2015 (Dec14-Mar15)
JTMD-BF-582	lid	pink #4	WA	Long Beach	2015 (Dec14-Mar15)
JTMD-BF-583	piece	yellow plastic #7	WA	Long Beach	2015 (Dec14-Mar15)
JTMD-BF-585	cylinder	black plastic #17	WA	Long Beach	2015 (Dec14-Mar15)
JTMD-BF-586	shelving	black plastic #14	WA	Long Beach	2015 (Dec14-Mar15)
JTMD-BF-587	basket	shallow white #9	WA	Long Beach	2015 (Dec14-Mar15)
JTMD-BF-588	lid	green #5 "Mauser" embossed on lid "Debris #5"	WA	Long Beach	2015 (25-27 Feb 2015)
JTMD-BF-589	2-eared black buoy	Moolack/Beverly buoy	OR	Moolack-Beverly Beach	2016 15 June
JTMD-BF-590	pink/orange float	Crook Point float	OR	Crook Point	2016 16 March
JTMD-BF-591	tote	Mosquito Creek float	WA	La Push: Mosquito Creek, Olympic National Park, at landing site of BF-8	2015 21 April
JTMD-BF-592	basket	blue basket fragment	OR	Bandon: Mars Street	2016 14 January
JTMD-BF-593	tote	broken tote	WA	Long Beach	2016 16 April

JTMD-BF-594	tote	green tote	WA	Long Beach (Leadbetter)	2016 1 February
JTMD-BF-595	tote	blue tote	WA	Long Beach (Leadbetter)	2016 1 February
JTMD-BF-596	crate		OR	Lane County: Bob Creek Wayside	2015 19 April
JTMD-BF-597	blue tote		WA	North Ocean Park	2016 24 January
JTMD-BF-598	floats	2 attached black plastic floats 899	WA	Long Beach: Leadbetter	2016 16 February
JTMD-BF-599	basket	blue fish basket	WA	Long Beach	2015 26 April
JTMD-BF-600	bottle cap	Crook Point bottle cap	OR	Crook Point South	2016 15 June
JTMD-BF-601	float	black float	OR	Crook Point South	2016 15 June
JTMD-BF-602	tire	Yokohoma wheel and tire	OR	Crook Point South	2016 17 June
JTMD-BF-603	tote	Beard's Hollow tote	WA	Beard's Hollow, south of Long Beach	2015 16 May
JTMD-BF-604	beer crate	Long Beach beer crate / bottle rack	WA	Long Beach	2016 rec'd May 6 2016
JTMD-BF-605	orange plastic float	large orange plastic float	WA	Long Beach: Leadbetter Point	2015
JTMD-BF-606	float	brown basketball size float	WA	Long Beach	2015 8 March
JTMD-BF-607	float	styrofoam float	WA	Surfside	2015 17 May
JTMD-BF-608	float	small plastic tote	WA	Long Beach: near Ocean Park	2015 15 April
JTMD-BF-609	float	black float 023	WA	Long Beach: Leadbetter	2016 15 March
JTMD-BF-610	tote	yellow tote	WA	Long Beach: Leadbetter	2015 14 May
JTMD-BF-611	float	pale big orange plastic float with a big hole in it	WA	WA: 3 miles north of Long Beach	2015 13 May
JTMD-BF-612	float	small round float and we have the float	WA	Long Beach: Leadbetter	2016 16 March
JTMD-BF-613	float	beige plastic float; JWC 897	WA	Long Beach: Leadbetter	2016 19 February

JTMD-BF-614	basket	blue basket	OR	Lincoln Co.: Moolack Beach	2016 11 April
JTMD-BF-615	float	brown float	WA	WA: 3 miles south of Leadbetter Point	2015 26 May
JTMD-BF-616	plastic can fragment	large round blue plastic can fragment, #47	WA	Long Beach	bet'n 27 May and 8 September 2015
JTMD-BF-617	fiberglass foam piece		WA	QIN South Queets QIN = Quinault Indian Reservation	2015 21 May
JTMD-BF-618	buoy	orange buoy	WA	Long Beach: Seaside dumpster	2016 12 January
JTMD-BF-619	float	orange plastic float	WA	Long Beach: Leadbetter Point	2015 24 December
JTMD-BF-621	float	rope float	WA	Long Beach: Leadbetter Point	2015 22 December
JTMD-BF-622	tote	plastic sake bottle tote	WA	Long Beach: Leadbetter Point	2015 25 December
JTMD-BF-623	tote	blue tote	WA	Long Beach: Leadbetter Point	2015 24 December
JTMD-BF-624	tote	blue tote with rope handles ex Don Sarver, photos JWC 558	OR	0.5 miles north of Yaquina Head light, Newport	2015 20 December
JTMD-BF-625	pallet	green plastic pallet	WA	Long Beach	2015 2 June
JTMD-BF-626	vessel fragment	Friendship House vessel	HI	on the rocky beach just north of Kapa'a on Kauai	2016 25 June
JTMD-BF-627	post-and- beam	Kapa'a Beach p&b	HI	Kauai: Kapa'a Beach	2016 15 June
JTMD-BF-628	post-and- beam	South beach p&b15	OR	Newport: South Beach	2013 (sic) 24 April
JTMD-BF-629	post-and- beam	South beach p&b27	OR	Newport: South Beach	2013 (sic) 27 April
JTMD-BF-630	post-and- beam	South beach p&b29	OR	Newport: South Beach	2013 (sic) 27 April
JTMD-BF-631	pallet	Roosevelt Beach blue pallet	WA	Grays Harbor County: Roosevelt Beach	2015 12 August
JTMD-BF-632	tote	blue tote	OR	Seal Rock: Quail Street	2015 14 April
JTMD-BF-633	post-and-	Waipake p&b 2013	HI	Kauai: Waipake Beach	2013 (sic)

	beam				29 September
JTMD-BF-634	buoy	black buoy, broken eared	OR	Newport: South Beach	2016 16 March
JTMD-BF-635	float	black float	OR	Lincoln Co.: Moolack Beach	2016 17 May
JTMD-BF-636	basket	basket #1 Manzanita	OR	Manzanita	2015 28 February
JTMD-BF-637	tote	blue tote	OR	Moolack Beach	2015 8 April
JTMD-BF-638	vessel	Sacchi Beach vessel	OR	Sacchi Beach	2016 23 April
JTMD-BF-639	buoy	15.5" black buoy 2 ears	WA	Long Beach	February 24 - May 5 2016
JTMD-BF-640	tote	blue tote	OR	Agate Beach	2016 23 March
JTMD-BF- 641	pallet		WA	Long Beach	2016 6 July
JTMD-BF-642	tote	broken plastic tote	WA	Long Beach	2016 6 July
JTMD-BF-643	float		WA	Long Beach	2016 15 March
JTMD-BF-645	buoy	12" black buoy	WA	Long Beach	collected bet'n Jan and May 2016
JTMD-BF-646	bucket	bucket #1	OR	Manzanita	2015 28 February
JTMD-BF-647	float	brown float	WA	Long Beach: Leadbetter Point	2016 15 March
JTMD-BF-648	drain lid	metal vessel deck drain lid	OR	Crook Point South	2016 26 March
JTMD-BF-649	jug	white plastic jug	OR	Moolack/Beverly Beach	2016 10 April
JTMD-BF-650	table	small folding plastic table	WA	Long Beach	2016 10 July
JTMD-BF-651	tree	tree	OR	Nye Beach	2016 13 July
JTMD-BF-652	vessel	Falcon Cove boat	OR	Falcon Cove	2016 20 July
JMTD-BF-653	yellow navigation	Kahuku buoy DAR 506 / HI59	HI	Kahuku, Oahu	2016 13 March

	buoy				
JTMD-BF-654	buoy	HI 60	HI	Kailua, Hawaii	2016 11 March
JTMD-BF-655	fishing bin	NWHI HI61	HI	HI: Papahānaumokuākea MNM (Marine National Monument), found at sea	take as 6-1-15 2015 1 June
JTMD-BF-656	plastic jug	Otter Crest jug	OR	Otter Crest	2016 26 March
JTMD-BF-657	buoy	imploded buoy	WA	Long Beach	2015 April-May
JTMD-BF-658	pallet	So. Beach pallet	OR	South Beach	2016 5 October
JTMD-BF-659	crate	blue plastic crate fragment	WA	Long Beach	2015 May
JTMD-BF-660	tire (wheel)	Long Beach wheel	WA	Long Beach	2014 no date
JTMD-BF-661	buoy	black buoy	HI	Big Island (Hawai'i Island): offshore South Kona, south of Honokohau Harbor	2016 17 November
JTMD-BF-662	crate	Kamilo Point blue crate	HI	Big Island (Hawai'i): Kamilo Point	2016 19 November
JTMD-BF-663	tote fragment	blue tote fragment	WA	Long Beach	2016 8 November
JTMD-BF-664	buoy	Long Beach turquoise buoy	WA	Long Beach	2016 30 November
JTMD-BF-665	buoy	black buoy	WA	Long Beach	2016 1 December
JTMD-BF-666	crate	green crate (box) called "pallet" in correspondence and (in part) in NOAA database	CA	Daly City: Mussel Rock Beach	2015 (sic) 25 July
JTMD-BF-667	rope and buoy mass	rope mass with about 100 floats: Hi- Zex Float, Sanshino Kako Co., Ltd., Oyama Blow Ind Co. Ltd	HI	Kauai Kapa'a UTM 4Q 467554.96E 2441508.99N	2016 7 December
JTMD-BF-668	tube	black tube, about 13" long split	OR	Bandon: on the beach N 43.088001 W 124.435364	2016 15 March
JTMD-BF-669	sieve	black, open ended, <6"	OR	Bandon: on the beach	2016 15 March

JTMD-BF-670	pot	plant pot -- orange / brown; SU-35 Sanko, <6"	OR	Bandon: on the beach	2016 15 March
JTMD-BF-671	tubing	gray tubing, small	OR	Bandon: on the beach	2016 15 March
JTMD-BF-672	lid	brown square lid, "Nestle", small	OR	Bandon: on the beach	2016 18 April
JTMD-BF-673	tote	blue tote #41	WA	Long Beach	2015 May 27-Sept 15
JTMD-BF-674	plastic piece	yellow plastic #49	WA	Long Beach	2015 May 27-Sept 15
JTMD-BF-675	vessel	MG3-38403, 18'	HI	Oahu: Waimanalo	2016 22 December
JTMD-BF-676	crate fragment		OR	Bandon	2016 15 December
JTMD-BF-677	vessel		HI	Big Island (Hawai'i): southeast coast on DHHL lands	2017 16 January

Appendix 1-A.

"Category 1" JTMD objects amenable to fine-grained biodiversity spatial and temporal analyses (see Methods)

JTMD-BF-001	JTMD-BF-215	JTMD-BF-526
JTMD-BF-002	JTMD-BF-216	JTMD-BF-531
JTMD-BF-003	JTMD-BF-222	JTMD-BF-532
JTMD-BF-006	JTMD-BF-223	JTMD-BF-533
JTMD-BF-008	JTMD-BF-224	JTMD-BF-538
JTMD-BF-017	JTMD-BF-226	JTMD-BF-555
JTMD-BF-018	JTMD-BF-227	JTMD-BF-667
JTMD-BF-020	JTMD-BF-229	
JTMD-BF-023	JTMD-BF-232	
JTMD-BF-024	JTMD-BF-237	
JTMD-BF-027	JTMD-BF-240	
JTMD-BF-028	JTMD-BF-241	
JTMD-BF-032	JTMD-BF-255	
JTMD-BF-037	JTMD-BF-258	
JTMD-BF-039	JTMD-BF-264	
JTMD-BF-040	JTMD-BF-277	
JTMD-BF-042	JTMD-BF-282	
JTMD-BF-043	JTMD-BF-283	
JTMD-BF-050	JTMD-BF-288	
JTMD-BF-058	JTMD-BF-293	
JTMD-BF-067	JTMD-BF-304	
JTMD-BF-071	JTMD-BF-305	
JTMD-BF-082	JTMD-BF-306	
JTMD-BF-090	JTMD-BF-328	
JTMD-BF-129	JTMD-BF-329	
JTMD-BF-130	JTMD-BF-330	
JTMD-BF-131	JTMD-BF-338	
JTMD-BF-134	JTMD-BF-339	
JTMD-BF-135	JTMD-BF-341	
JTMD-BF-139	JTMD-BF-347	
JTMD-BF-154	JTMD-BF-349	
JTMD-BF-160	JTMD-BF-352	
JTMD-BF-168	JTMD-BF-356	
JTMD-BF-170	JTMD-BF-358	
JTMD-BF-172	JTMD-BF-363	
JTMD-BF-173	JTMD-BF-367	
JTMD-BF-177	JTMD-BF-369	
JTMD-BF-188	JTMD-BF-382	
JTMD-BF-196	JTMD-BF-386	
JTMD-BF-197	JTMD-BF-387	
JTMD-BF-198	JTMD-BF-398	
JTMD-BF-199	JTMD-BF-402	
JTMD-BF-201	JTMD-BF-405	
JTMD-BF-202	JTMD-BF-406	
JTMD-BF-205	JTMD-BF-410	
JTMD-BF-207	JTMD-BF-414	
JTMD-BF-208	JTMD-BF-449	
JTMD-BF-209	JTMD-BF-455	
JTMD-BF-210	JTMD-BF-458	
JTMD-BF-212	JTMD-BF-497	
	JTMD-BF-521	

APPENDIX 2.

Scientists Contributing to JTMD Taxonomic Effort

Scientist	Affiliation / Institution	Taxon	Common Name
Bjorn Altermark	University of Tromso	Teredinidae	shipworms
Claudia Arango	Queensland Museum, Australia	Pycnogonida	sea spiders
David Bilderback	Bandon, Oregon	Bryozoa	bryozoans
Luisa M. S. Borges	Portugal (now Helmholtz-Zentrum Geesthacht, Germany)	Teredinidae	shipworms
Stephen Cairns	Smithsonian Institution (NMNH)	Scleractinia	corals
Dale Calder	Royal Ontario Museum	Hydrozoa	hydroids
James T. Carlton	Williams College	General; Mollusca; Cirripedia	barnacles, mollusks
Benny Chan	Academia Sinica, Taiwan	Cirripedia: <i>Chthamalus</i>	barnacles
John W. Chapman	Oregon State University	Amphipoda, Isopoda, Tanaidacea; Decapoda	amphipods, isopods, tanaids, crabs
Henry Choong	Royal Ontario Museum; Fairbanks Museum, St. Johnsbury, VT	Hydrozoa	hydroids
Eugene V. Coan	Santa Barbara Museum of Natural History	Bivalvia	clams and oysters
Jeffery R. Cordell	University of Washington	Copepoda	copepods
Natalia Demchenko	Zhirmunsky Institute, Vladivostok, Russia	Caprellidae	skeleton "shrimp"
Matthew Dick	Hokkaido University	Bryozoa	bryozoans
Anthony Draeger	Kensington CA	Polyplacophora	chitons
Douglas Eernisse	California State University, Fullerton	Lottidae, Nacellidae, Siphonariidae, Polyplacophora	limpets, chitons
David Elvin	Shelburne, Vermont	Porifera	sponges
Neal Evenhuis	Bishop Museum	Chironomidae	marine flies
Daphne Fautin	University of Kansas	Anthozoa	sea anemones
Kenneth Finger	University of California, Berkeley	Foraminifera	foraminiferans
Aaron Gann	Oregon State University	Pisces: <i>Seriola</i>	yellowtail amberjack
Jonathan Geller	Moss Landing Marine Laboratories	Barcoding and metagenomics	many groups
Scott Godwin	NOAA Honolulu	General	several groups
Terry Gosliner	California Academy of Sciences, San Francisco	Opisthobranchia	sea slugs
Takuma Haga	Toyohashi Museum of Natural History, Toyohashi	Bivalvia	clams, oysters, scallops
Gayle Hansen	Oregon State University	Algae	seaweeds
Takeaki Hanyuda	Kobe University	Algae	seaweeds
Niels-Viggo Hobbs	University of Rhode Island	Isopoda: <i>Ianiropsis</i>	isopods
Leslie Harris	Los Angeles County Museum of Natural History	Polychaeta	worms

John Holleman	Merritt College	Platyhelminthes	flatworms
Gyo Itani	Kochi University	Decapoda	crabs
Colin Johnson	Harvard University	Bryozoa: <i>Tricellaria</i>	bryozoans
Hiroshi Kajihara	Hokkaido University	Nemertea	ribbon worms
Hiroshi Kawai	Kobe University	Algae	seaweeds
Gerald Krantz	Oregon State University	Halacaridae	marine mites
Elena Kupriyanova	Australian Museum	Serpulidae	tube worms
Gretchen Lambert	University of Washington	Ascidacea	sea squirts
Katrina Lohan	SERC	bivalve parasites	parasites
Konstantin Lutaenko	Zhirmunsky Institute, Vladivostok, Russia	Mytilidae	mussels
Josh Mackie	California State University, San Jose	Bryozoa	bryozoans
Christopher Mah	Smithsonian Institution (NMNH)	Asteroidea	sea stars
Svetlana Maslakova	University of Oregon Institute of Marine Biology	Nemertea	ribbon worms
Gary McDonald	University of California, Santa Cruz	Opisthobranchia	sea slugs
James H. McLean	Los Angeles County Museum of Natural History	Gastropoda	snails
Richard Mooi	California Academy of Sciences	Echinoidea	sea urchins
Bruce Mundy	NOAA NFMS	Pisces: <i>Oplegnathus</i>	barred knifejaw
Eijiroh Nishi	Yokohama National University	Annelida	serpulid <i>Spirobranchus</i>
Teruaki Nishikawa	Nagoya University	Sipuncula	peanut worms
Peter Ng	National University of Singapore	Decapoda	crabs
Michio Otani	Osaka Museum of Natural History	Cirripedia	barnacles
David Pawson	Smithsonian Institution (NMNH)	Holothuroidea	sea cucumbers
Erik Pilgrim	EPA National Exposure Research Laboratory	Lottidae, Nacellidae, Siphonariidae, Polyplacophora	limpets, chitons
Michael Raupach	Deutsches Zentrum für Marine Biodiversitätsforschung	Teredinidae	shipworms
Gregory Ruiz	Smithsonian Institution (SERC)	bivalve parasites	haplosporidians, hydrozoa, crustacea
J. Reuben Shipway	Northeastern University	Teredinidae	shipworms
Ashleigh Smythe	Virginia Military Institute	Nematoda	roundworms
Ichiro Takeuchi	Ehime University	Caprellidae	skeleton "shrimp"
Hayato Tanaka	Hiroshima University	Ostracoda	ostracods
Nancy Treneman	University of Oregon Institute of Marine Biology	Teredinidae	shipworms
Paul Valentich-Scott	Santa Barbara Museum of Natural History	Bivalvia	clams and oysters
Moriaki Yasuhara	University of Hong Kong	Ostracoda	ostracods

**JTMD BIODIVERSITY:
MASTER SPECIES LIST
as January 30, 2017**

CHROMISTA**Rhizaria****Foraminifera**

Cibicides lobatulus
Elphidium crispum
Elphidium hannai
Bolivina seminuda
Cornuspira planorbis
Dyocibicides biserialis
Miliolinella subrotundata
Nonionella stella
Planogypsina squamiformis
Planorbulina acervalis
Rosalina globularis
Trochammina cf. T. hadai
 Arenaceous/agglutinating, unidentified

Cercozoa

Gromia "oviformis"

Ciliophora**Suctorina**

Species A (yellow)
 Species B (white)

Folliculinidae

Unidentified species (2+ species)

Vorticellidae

Vorticella sp.

Zoothamniidae

Zoothamnium sp.

PORIFERA

Callyspongia murex
 Chalinidae, unidentified species
Clathrina coriacea
Cliona sp.
Halichondria sp. A
Halichondria sp. B
Halichondria sp. C
Halichondria panicea
Hymenciadon sinapium
Leucandra sp.
Leucosolenia eleanor
Leucosolenia variabilis
Mycale macginitei
Sycon raphanus
Sycon sp. A
Sycon sp. B
Sycon sp. C

CNIDARIA**Hydrozoa****Thecata**

Abietinaria sp.
Aglaophenia lophocarpa
Amphisbetia furcata
Antenella sp.
Bougainvillia muscus?
 Campanulinidae, unidentified
Clytia cf gracilis
Clytia cf linearis
Eutima japonica
Halecium tenellum
Halecium cf. beani
Hydrodendron gracile
Obelia longissima
Opercularella sp.
Orthopyxis caliculata
Orthopyxis platycarpa
Phialella sp.
 Plumaleciidae, undetermined
Plumularia setacea
Plumularia caliculata
Plumularia sp.
Sertularella sp. A
Sertularella mutsuensis
Stylactaria sp.

Athecata

Sarsia sp.
 Unidentified

Anthozoa**Actiniaria**

Metridium dianthus
Anthopleura asiatica
Diadumene lineata
 ?*Urticina* sp.
Actinaria sp. A
Actinaria sp. B
Scleractinia
Pocillopora damicornis

NEMATODA

Unidentified species (3+)

NEMERTEA

Lineidae, unidentified species
Quasitetrastemma nigrifrons
Oerstedia dorsalis
Unidentified species

PLATYHELMINTHES

Rhabditophora
Tricladida
Uteriporidae? Unidentified species
Unidentified species (2+)
Monogenea
Benedenia seriolae

SIPUNCULA

Phascolosoma scolops

ANNELIDA

Oligochaeta
Unidentified species (2+)

Polychaeta

Nereidae
Nereis pelagica
Perinereis nigropunctata
Phyllodocidae
Eulalia quadrioculata
Eulalia viridis-complex
Eteone sp.
Nereiphylla sp. cf. *N. castanea*
Polynoidae
Halosydna brevisetosa-complex
Harmothoe imbricata
Lepidonotus sp.
Syllidae
Syllis elongata-complex
Syllis hyalina-complex
Syllis sp. cf. *S. ehlersoides*
Syllis sp. cf. *S. farallonensis*
Syllis sp. cf. *S. pulchra*
Syllis gracilis-complex
Syllinae species 1, 2, 3, 4, 5, 6
Sphaerosyllis sp.
Trypanosyllis zebra?
Amblosyllis speciosa-complex
Terebellidae
Amphitrite sp.
Terebella sp.
Oeonidae
Arabella semimaculata
Arabella iricolor-complex
Onuphidae
Unidentified species
Spionidae
Polydora sp.

Pygospio californica

Orbiniidae

Naineris sp.

Chrysopetalidae

Unidentified species

Paleanotus sp.

Acrocirridae

Acrocirrus sp.

Fabriciidae

Unidentified species

Sabellariidae?

Unidentified species

Sabellidae

Amphiglena sp.

Serpulidae

Hydroides ezoensis

Pomatoceros sp. cf. *P. minutus*

(= *Spirobranchus minutus*)

Salmacina sp.?

Spirobranchus polytrema

Spirorbidae

Unidentified species (3+)

MOLLUSCA

Gastropoda

Lottiidae

Nipponacmea habei

Lottia species H

Lottia dorsuosa

Lottia tenuisculpta

Lottia cf. *tenuisculpta*

Lottia sp. TN2016

Nacellidae

Cellana grata

Cellana toreuma

Calyptraeidae

Crepidula onyx

Vermetidae

Serpulorbis sp.

Columbellidae

Mitrella moleculina

Mitrella sp. A (axial sculpture)

Muricidae

Reishia bronni

Pulmonata

Siphonariidae

Siphonaria sirius

Siphonaria japonica

Nudibranchia

Dolabella auricularia

Hermisenda crassicornis

Dendronotus frondosus

Eubranchus sp.
Unidentified species

Bivalvia

Mytilidae

Mytilus galloprovincialis
Mytilus coruscus
Mytilus trossulus
Modiolus nipponicus?
Modiolus kurilensis?
Modiolus sp. B
Modiolus sp. A
Modiolus comptus?
Musculus cupreus
Musculus sp. A
Mytilisepta virgata
(= *Septifer virgatus*)

Lithophaga curta

Anomiidae

Anomia cytaeum Gray, 1850 *sensu*
Huber, 2010: 617

Gryphaeidae

Hytotissa numisma (= *Hytotissa*
inaequivalvis)
Hytotissa chemnitzii (= *Parahytotissa*
quercinus; = *Parahytotissa* n. sp.
of Huber)

Ostreidae

Crassostrea gigas
Dendostrea folium
(= *Dendostrea affinis*)

Montacutidae

Mysella sp.?

Spondylidae

Spondylus cruentus
(= *Spondylus squamosus*)

Arcidae

Arca navicularis
Arca sp. A
Arca sp. B
Barbatia fusca

Pectinidae

Scaechlamys squamata
Laevichlamys irregularis
Pascahinnites coruscans
(= *Bractaeclamys coruscans*)
Mizuhopecten yessoensis
(= *Patinopecten yessoensis*)

Pectinidae species C

Pectinidae species A

Limidae

Limaria hakodatensis

Pteriidae

Pteria sp.
Pinctada imbricata
(cf. Japanese clade *fucata*)

Pinctada margaritifera
Pinctada chemnitzii
Isognomon cf. *ephippium*

Malleidae

Malleus cf. *irregularis*

Chamidae

Chama sp. A (smooth internal margin)
Chama sp. (crenulated internal margin)

Myidae

Sphenia coreanica?

Hiatellidae

Hiatella orientalis

Teredinidae

Psiloteredo sp.
Teredothyra smithi
Bankia carinata
Bankia bipennata
Lyrodus takanoshimensis
Teredo navalis

Polyplacophora

Mopalia seta
Acanthochitona achates
Acanthochitona defilippii
Acanthochitona rubrolineata
Placiphorella stimpsoni

CRUSTACEA

Copepoda

Harpacticus sp.-*flexus* group
Harpacticus pacificus
Harpacticus septentrionalis
Harpacticus nicacensis
Parastenhelia spinosa
Tisbe (2 spp.)
Paralaophonte congenera
Paralaophonte sp.
Sarsamphiascus minutus
Sarsamphiascus varians group
Heterolaophonte discophora
Parathalestris intermedia
Paramphiascella fulvofasciata
Laophontidae (unidentified species)
Dactylopodamphiascopsis latifolius

Ostracoda

Sclerochilus verecundus
Sclerochilus sp.
Xestoleberis setouchiensis
Obesotoma setosum
Obesotoma sp.

Paradoxostomatidae

Cirripedia

Megabalanus rosa
Megabalanus zebra
Semibalanus cariosus
Balanus crenatus
Balanus glandula
Balanus trigonus
Chthamalus challengeri
Pseudoctomeris sulcata

Amphipoda

Ischyroceridae

Jassa marmorata-complex
(includes *staudei*, *slatteryi*)

Ampithoidae

Ampithoe valida
Ampithoe lacertosa
Ampithoe koreana

Stenothoidae

Stenothoe crenulata-complex
(includes *dentirama*, *gallensis*)

Photidae

Gammaropsis japonica

Dogielinotidae

Allorchestes sp.

Pleustidae

Trachypleustes sp.

Caprellidae

Caprella mutica
Caprella cristibrachium
Caprella penantis
Caprella equilibra
Caprella drepanochir

Tanaidacea

Zeuxo normani

Isopoda

Ianiropsis serricaudis
Ianiropsis derjugini
Munna japonica
Dynoides spinipodus

Decapoda

Hemigrapsus sanguineus
Oedignathus inermis
Sphaerozius nitidus

PYCNOGONIDA

Endeis nodosa

INSECTA

Diptera

Telmatogeton japonicus

ACARINA

Halacaridae

Halacarellus schefferi

BRYOZOA

Cheilostomatida

Aetea cf. anguina
Aetea cf. truncata
Biflustra grandicella
Biflustra irregularata
Biflustra sp. A
Arbocuspis cf. bellula
Bugula sp.
Callopora craticula
Candidae, undetermined
Catenicella elegans
Cauloramphus spinifer
Cauloramphus sp. A
Celleporaria brunnea
Celleporella "hyalina"
Celleporina porosissima
Celleporina umbonata
Celleporina cf. globosa
Conopeum nakanosum
Cribrilina mutabilis
Cryptosula pallasiana
Drepanophora cf. gutta
Escharella hozawai
Exochella tricuspis
Fenestrulina orientalis
Membranipora villosa
Metroperiella cf. bififormis
Microporella borealis
Microporella neocriboides
Microporella luellae
Rhynchozoon sp.
Schizoporella japonica
Scruparia ambigua
Smittoidea spinigera
Tricellaria inopinata
Watersipora mawatarii
Watersipora subatra

Cyclostomatida
Borgiola sp.
Crisia cf. operculata
Crisidia sp.
Disporella cf. novaehollandiae
Entalophora sp.
Filicrisia franciscana
Proboscina sp.
Stomatopora sp.

Tubulipora misakiensis
Tubulipora pulchra

Ctenostomatida

Alcyonidium sp.
Walkeria prorepens

KAMPTOZOA

Barentsia sp.

ECHINODERMATA

Asteroidea

Asterias amurensis
Aphelasterias japonica
Patiria pectinifera

Echinoidea

Temnotrema sculptum

Holothuroidea

Havelockia versicolor

CHORDATA

Ascidiacea

Didemnum vexillum
Diplosoma sp.
Herdmania cf. pallida
Unidentified species

PISCES

Oplegnathus fasciatus
Seriola aureovittata

**Oceanic – Neustonic Acquisitions via Larval or
Planktonic Recruitment
(PELAGIC)**

CNIDARIA

Hydrozoa

Obelia griffini

ANNELIDA

Polychaeta

Amphinome rostrata

CRUSTACEA

Amphipoda

Caprella andreae

Cirripedia

Lepas spp.
Conchoderma auritum

Decapoda

Planes major
Plagusia immaculata
Plagusia squamosa

MOLLUSCA

Gastropoda

Fiona pinnata

Bivalvia

Teredora princesae
Uperotus clava

BRYOZOA

Cheilostomata

Jellyella tuberculata
Jellyella eburnea
Arbopercula angulata
(= *Electra tenella*)

**Oceanic – Neustonic Acquisitions: Entrainment (i.e.,
Passive Physical Entanglement)
(PELAGIC)**

RHIZARIA

Foraminifera

Globigerina bulloides
Globigerina uvula

Radiolaria

Unidentified

CNIDARIA

Hydrozoa

Velella velella

MOLLUSCA

Gastropoda

Pteropoda (including *Clio*, *Cavolina*,
Limacina)
Heteropoda, unidentified
Janthina sp.

CRUSTACEA

Ostracoda

Conchoecia sp.

Euphausiacea

Unidentified species

Eastern Pacific Near Shore Pelagic Acquisitions

CRUSTACEA

Amphipoda

Calliopius pacificus
Atylus tridens

**Eastern Pacific Acquisitions, Largely Nepionic
(via Larval or Planktonic Recruitment)**

ANNELIDA

Polychaeta

Polynoidae

CRUSTACEA

Cirripedia

Balanus sp., cf. *B. glandula*

Balanus crenatus

Pollicipes polymerus

Isopoda

Gnorimosphaeroma sp.

Idotea vosnesenskii

Idotea resecata

Amphipoda

Ptilohyale littoralis

Parhyale sp.

MOLLUSCA

Bivalvia

Mytilus spp.

Crassadoma gigantea

Adula californiensis

Hiatella arctica

CHORDATA

Ascidiacea

Styela gibbsii

Pyura haustor

Hawaiian Acquisitions

MOLLUSCA

Nudibranchia, Bivalvia, Gastropoda

CRUSTACEA

Amphipoda

Hyale sp.

Provenance Unknown

HAPLOSPORIDA

Unidentified (3 spp.) in JTMD *Mytilus galloprovincialis*

Appendix X. Unique Species Occurrences

JTMD-BF-	Phylum		Species
1	Cnidaria	Hydrozoa	<i>Phialella</i> sp.
1	Crustacea	Amphipoda	<i>Caprella cristibrachium</i>
1	Crustacea	Decapoda	<i>Oedignathus inermis</i>
1	Crustacea	Decapoda	<i>Hemigrapsus sanguineus</i>
1	Echinodermata	Asteroidea	<i>Asterias amurensis</i>
1	Echinodermata	Holothuroidea	<i>Havelockia versicolor</i>
1	Arthropoda	Insecta	<i>Telmatogeton japonica</i>
1	Kamptozoa	Kamptozoa	<i>Barentsia</i> sp.
1	Mollusca	Gastropoda	<i>Mitrella moleculina</i>
1	Mollusca	Gastropoda	<i>Nipponacmea habei</i>
1	Annelida	Polychaeta	<i>Acrocirrus</i> sp.
1	Annelida	Polychaeta	<i>Nereis pelagica</i>
1	Annelida	Polychaeta	<i>Eulalia quadrioculata</i>
1	Annelida	Polychaeta	<i>Arabella semimaculata</i>
1	Annelida	Polychaeta	<i>Naineris</i> sp.
1	Annelida	Polychaeta	<i>Amphitrite</i> sp.
1	Annelida	Polychaeta	<i>Terebella</i> sp.
1	Porifera	Porifera	<i>Mycale macginitiei</i>
1	Porifera	Porifera	<i>Halichondia</i> sp. A
1	Porifera	Porifera	<i>Halichondia</i> sp. B
1	Nemertea	Nemertea	Unidentified species
8	Cnidaria	Hydrozoa	<i>Orthopyxis caliculata</i>
8	Crustacea	Cirripedia	<i>Pseudoctomeris sulcata</i>
8	Nemertea	Nemertea	<i>Tetrastemma nigrifrons</i>
12	Cnidaria	Hydrozoa	<i>Bougainvillia muscus</i>
12	Cnidaria	Hydrozoa	<i>Obelia longissima</i>
23	Porifera	Porifera	<i>Sycon</i> sp. C.
23	Cnidaria	Hydrozoa	<i>Orthopyxis platycarpa</i>
23	Cnidaria	Hydrozoa	<i>Hydrodendron gracile</i>
23	Cnidaria	Hydrozoa	<i>Stylacteria</i> sp.
23	Cnidaria	Hydrozoa	<i>Sarsia</i> sp.
23	Nemertea	Nemertea	<i>Oerstedtia dorsalis</i>
23	Annelida	Polychaeta	<i>Amphiglena</i> sp.
23	Annelida	Polychaeta	<i>Syllis cf. ehlersoides</i>
23	Annelida	Polychaeta	Unidentified species
23	Bryozoa	Cheilostomatida	<i>Celleporina cf. globosa</i>
23	Ascidiacea	Ascidiacea	<i>Diplosoma</i> sp.
28	Echinodermata	Asteroidea	<i>Aphelasterias japonica</i>
32	Mollusca	Gastropoda	<i>Dolabella auricularia</i>
32	Annelida	Polychaeta	<i>Perinereis nigropunctata</i>
32	Mollusca	Gastropoda	<i>Cellana grata</i>
40	Mollusca	Bivalvia	<i>Mizhopecten yessoensis</i>
40	Sipuncula	Sipuncula	<i>Phascolosoma scolops</i>
40	Annelida	Polychaeta	Unidentified species
40	Bryozoa	Cheilostomatida	<i>Watersipora subatra</i>
40	Crustacea	Amphipoda	<i>Gammaropsis japonica</i>
130	Mollusca	Gastropoda	<i>Crepidula onyx</i>
131	Annelida	Polychaeta	<i>Pomatoceros minutus</i>
136	Cnidaria	Hydrozoa	<i>Clytia cf. gracilis</i>
147	Mollusca	Bivalvia	<i>Chama</i> sp. A

160	Bryozoa	Cheilostomatida	<i>Cauloramphus</i> sp. A
168	Annelida	Polychaeta	<i>Eulalia viridis</i>
172	Annelida	Polychaeta	<i>Syllis cf pulchra</i>
201	Mollusca	Bivalvia	<i>Musculus</i> sp. A
205	Cnidaria	Anthozoa	? <i>Urticina</i> sp.
207	Porifera	Porifera	<i>Unidentified species</i>
208	Bryozoa	Cyclostomaida	<i>Crisidia</i> sp.
210	Bryozoa	Cheilostomatida	<i>Metroporiella cf. biformis</i>
212	Mollusca	Bivalvia	<i>Spondylus cruentus</i>
215	Bryozoa	Cheilostomatida	<i>Celleporina porosissima</i>
225	Mollusca	Bivalvia	<i>Pectinidae</i> sp. A
229	Porifera	Porifera	<i>Halichondria</i> sp. C
241	Nemertea	Nemertea	<i>Unidentified species</i>
290	Bryozoa	Cheilostomatida	<i>Rhynchozoon</i> sp.
290	Mollusca	Bivalvia	<i>Serpulorbis</i> sp.
293	Mollusca	Bivalvia	<i>Modiolus</i> sp. A
328	Cnidaria	Hydrozoa	<i>Unidentified species</i>
338	Bryozoa	Cheilostomatida	<i>Conopeum nakanosum</i>
341	Cnidaria	Hydrozoa	<i>Antenella</i> sp.
342	Cnidaria	Hydrozoa	<i>Abietinaria</i> sp.
356	Mollusca	Gastropoda	<i>Hermisenda crassicornis</i>
356	Mollusca	Gastropoda	<i>Eubranchus</i> sp.
356	Mollusca	Bivalvia	<i>Teredo navalis</i>
356	Pisces	Pisces	<i>Seriola aureovittata</i>
371	Mollusca	Bivalvia	<i>Mysella</i> sp.
371	Mollusca	Bivalvia	<i>Pectinidae</i> sp. C
382	Cnidaria	Hydrozoa	<i>Opercularella</i> sp.
382	Mollusca	Gastropoda	<i>Mitrella</i> sp. A
391	Bryozoa	Cheilostomatida	<i>Cauloramphus spinifer</i>
391	Bryozoa	Cheilostomatida	<i>Microporella luellae</i>
397	Mollusca	Polyplacophora	<i>Placiphorella stimpsoni</i>
402	Porifera	Porifera	<i>Ute</i> sp.
402	Cnidaria	Hydrozoa	<i>Halecium cf. beani</i>
402	Mollusca	Bivalvia	<i>Arca</i> sp. A
402	Mollusca	Bivalvia	<i>Barbatia fusca</i>
402	Mollusca	Bivalvia	<i>Laevichlamys irregularis</i>
402	Mollusca	Bivalvia	<i>Pascahinnites coruscus</i>
402	Mollusca	Bivalvia	<i>Limaria hakodatensis</i>
423	Annelida	Polychaeta	<i>Unidentified species</i>
425	Bryozoa	Cheilostomatida	<i>Drepanophora cf. gutta</i>
523	Ascidiacea	Ascidiacea	<i>Herdmania cf. pallida</i>
531	Crustacea	Decapoda	<i>Sphaerozius nitidus</i>
533	Bryozoa	Cyclostomatida	<i>Borgiola</i> sp.
533	Cnidaria	Hydrozoa	<i>Unidentified species</i>
538	Cnidaria	Hydrozoa	<i>Clytia linearis</i>
538	Bryozoa	Cyclostomatida	<i>Crisia cf. operculata</i>
558	Crustacea	Amphipoda	<i>Caprella drepanochir</i>
597	Bryozoa	Cheilostomatida	<i>Cribrilina mutabilis</i>
643	Mollusca	Gastropoda	<i>Cellana toreuma</i>
653	Mollusca	Bivalvia	<i>Modiolus</i> sp. B
655	Mollusca	Bivalvia	<i>Pinctada margaritifera</i>
657	Bryozoa	Cheilostomatida	<i>Microporella neocriboides</i>
661	Crustacea	Isopoda	<i>Ianiropsis derjugini</i>

667	Bryozoa	Cyclostomatida	<i>Entalophora</i> sp.
667	Bryozoa	Cyclostomatida	<i>Stomatopora</i> sp.
667	Cnidaria	Anthozoa	<i>Actinaria</i> sp. A
675	Cnidaria	Anthozoa	<i>Actinaria</i> sp. B
675	Crustacea	Amphipoda	<i>Trachypleustes</i> sp.

Appendix 5. Species Arriving Dead-Only on JTMD

PORIFERA

Chalinidae, unidentified species

CNIDARIA

Anthozoa: Scleractinia

Pocillopora damicornis

ANNELIDA

Polychaeta

Sabellariidae?

Unidentified species

Serpulidae

Spirobranchus polytrema

Salmacina sp.

MOLLUSCA

Gastropoda

Serpulorbis sp

Bivalvia

Lithophaga curta

Mysella sp.

Spondylus cruentus

Scaeochlamys squamata

Laevichlamys irregularis

Pascahinnites coruscans

Pectinidae species C

Pectinidae species A

Limaria hakodatensis

Pinctada margaritifera

Pinctada chemnitzii

Chama sp. A

Sphenia coreanica?

Teredo navalis

BRYOZOA

Arbocuspis bellula

Biflustra irregularata

Callopora craticula

Cauloramphus spinifer

Celleporaria brunnea

Celleporina porosissima

Celleporina umbonata

Celleporina cf. *globosa*

Celleporina sp.

Conopeum nakanosum

Crisidia sp.

Drepanophora gutta

Membranipora villosa

Microporella luellae

Microporella neocriboides

Rhynchozoon sp.

Schizoporella japonica

Stomatopora sp.

Appendix 6. Species on JTMD from southern waters (species occurring south of the Boso Peninsula)

Taxon	Species	Range	First appearance	
			Hawaiian Islands	North America
CNIDARIA: Anthozoa (sea anemones)	<i>Anthopleura asiatica</i>	Southern Japan and south to the Indian Ocean		2016
	<i>Pocillopora damicornis</i>	Southern Japan and south; subtropical and tropical		2015
ANNELIDA: Polychaeta (worms)	<i>Spirobranchus cf. polytrema</i>	Southern Japan and south		2014
	<i>Salmacina</i> sp.			2016
CIRRIPIEDIA (barnacles)	<i>Pseudoctomeris sulcata</i>	south of Boso Peninsula		2012
AMPHIPODA (amphipods)	<i>Trachyleustes</i> sp.	subtropical-tropical	2016	
DECAPODA: Brachyura (crabs)	<i>Sphaerozium nitidus</i>	Indo-West Pacific		2016
MOLLUSCA: Gastropoda (snails)	<i>Mitrella moleculina</i>	Boso Peninsula and south		2012
MOLLUSCA: Bivalvia (clams, scallops, pen shells, <i>et al.</i>)	<i>Chama</i> sp. A (smooth internal margin)	southern Japan and south		2016
	<i>Hyotissa</i> sp., including <i>H. numisma</i> (= <i>H. inaequalvis</i>) and <i>H. chemnitzii</i> (2 species)	southern Japan and south	2013	2013
	<i>Arca navicularis</i>	Boso Peninsula and south		2012
	<i>Barbatia fusca</i>	Kii Peninsula and south		2015
	<i>Scaechlamys squamata</i>	Boso Peninsula and south		2015
	<i>Laevichlamys irregularis</i>	Boso Peninsula and south		2015
	<i>Pascahinnites coruscans</i>	Kii Peninsula and south		2015

	<i>Dendostrea folium</i>	Amami Islands and south	2016	2014
	<i>Spondylus cruentus</i>	Boso Peninsula to Okinawa		2014
	<i>Limaria hakodatensis</i>	(to Hokkaido, but on BF-402 with other southern bivalves, and thus doubtless acquired south of Boso)		2015
	<i>Pteria sp.</i>	Boso and Kii Peninsulas and south	2013 (Midway)	
	<i>Pinctada imbricata (fucata)</i>	Izu Peninsula and south		2014
	<i>Pinctada margaritifera</i>	Kii Peninsula and south	2015	
	<i>Pinctada chemnitzii</i>	Suruga Bay and south	2015	
	<i>Isognomon ephippium</i>	Kii Peninsula and south	2016	2015
	<i>Malleus irregularis</i>	Boso Peninsula and south		2015
	<i>Bankia carinata</i>	warm temperate - subtropical		2013
	<i>Bankia bipennata</i>	warm temperate - subtropical		2013
	<i>Teredothyra smithi</i>	warm temperate - subtropical	2013	2013
BRYOZOA (bryozoans)	<i>Crisia cf. operculata</i>	warm temperate-subtropical		2016
	<i>Arbocuspis cf. bellula</i>	subtropical-tropical		2013
	<i>Biflustra grandicella</i>	South China Sea and south		2013
	<i>B. irregularata</i>	South China Sea, South Korea, and south		2013
	<i>Biflustra sp. A</i>	subtropical-tropical		2013
	<i>Drepanophora cf gutta</i>	tropical		2015
	<i>Metroperiella cf. biformis</i>	East China Sea and south		2014
	<i>Smittoidea spinigera</i>	warm-temperate, subtropical	2013	2014
ASCIDIACEA (sea squirts)	<i>Herdmania cf. pallida</i>	subtropical, tropical		2016