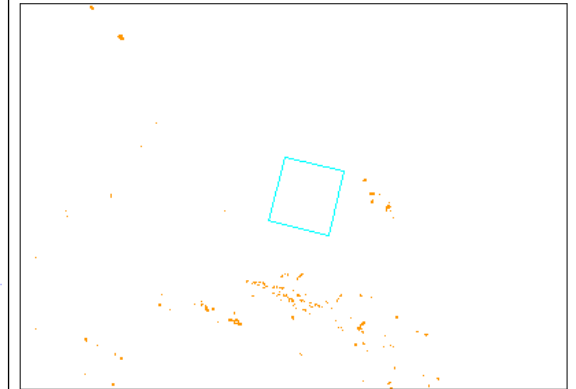


## VESSEL DETECTION REPORT



### Acquisition Information

**Satellite:** RADARSAT-2  
**Sensor:** SAR  
**Swath:** DVWF  
**Polarization:** HH  
**Resolution:** 38 m  
**Incidence angle:** Near: 35° Far: 56°  
**Acquisition Time:** 2019-08-31 15:05:53.8 UTC  
**Scene coordinates:** 06°22'51"S 146°05'33"W  
 07°20'51"S 142°01'17"W  
 10°42'56"S 147°09'39"W  
 11°43'16"S 143°02'59"W

### 28 Vessels detected

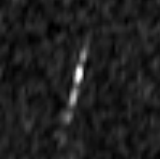
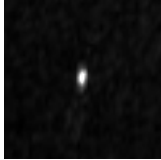



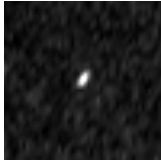
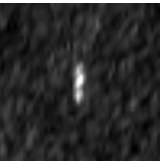
**Correlated :** 21 (green)  
**Only in SAR:** 7 (red)  
**Comment**

Good image quality, good detection capabilities.

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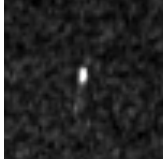





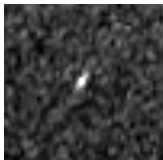

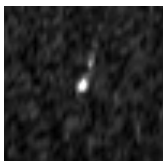
## Detected vessels - Only in SAR


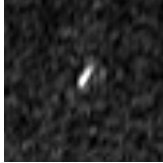
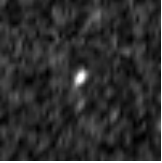

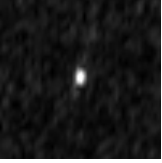
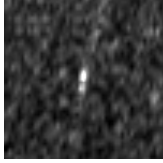
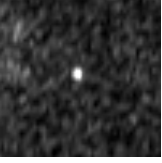
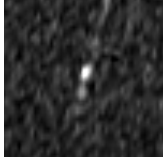

Detection thumbnail size 1000x1000 m

 <p> <b>Position</b> 10°24'16"S 145°26'20"W  <b>Heading(SAR)</b> 200°  <b>Length(SAR)</b> 77 m  <b>Width(SAR)</b> 13 m  <b>Confidence</b> HIGH         </p>	 <p> <b>Position</b> 09°57'30"S 145°06'40"W  <b>Heading(SAR)</b> 164°  <b>Length(SAR)</b> 63 m  <b>Width(SAR)</b> 16 m  <b>Confidence</b> HIGH         </p>
 <p> <b>Position</b> 09°39'59"S 145°39'19"W  <b>Heading(SAR)</b> 050°  <b>Length(SAR)</b> 49 m  <b>Width(SAR)</b> 14 m  <b>Confidence</b> HIGH         </p>	 <p> <b>Position</b> 10°53'32"S 144°06'44"W  <b>Heading(SAR)</b> 297°  <b>Length(SAR)</b> 24 m  <b>Width(SAR)</b> 15 m  <b>Confidence</b> HIGH         </p>
 <p> <b>Position</b> 09°00'54"S 145°53'43"W  <b>Heading(SAR)</b> 208°  <b>Length(SAR)</b> 75 m  <b>Width(SAR)</b> 12 m  <b>Confidence</b> HIGH         </p>	 <p> <b>Position</b> 10°27'45"S 145°40'09"W  <b>Heading(SAR)</b> 045°  <b>Length(SAR)</b> 32 m  <b>Width(SAR)</b> 9 m  <b>Confidence</b> HIGH         </p>
 <p> <b>Position</b> 08°32'46"S 145°53'28"W  <b>Heading(SAR)</b> 354°  <b>Length(SAR)</b> 43 m  <b>Width(SAR)</b> 13 m  <b>Confidence</b> HIGH         </p>	

## Detected vessels - Correlated with AIS

Detection thumbnail size 1000x1000 m

	<b>MMSI</b> 111113272 <b>IMO</b> <b>Name</b> Q0822 11V <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 10°30'20"S 144°58'15"W <b>Heading</b> 89° <b>Speed</b> 9 kts <b>Confidence</b> HIGH <b>Time Offset</b> +00:06:01		<b>MMSI</b> 440731000 <b>IMO</b> 8714188 <b>Name</b> 315 O RYONG <b>Length</b> 185 m <b>Vessel Type</b> Fishing	<b>Position</b> 10°24'28"S 144°38'50"W <b>Heading</b> 351° <b>Speed</b> 10 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:00:46
	<b>MMSI</b> 576596000 <b>IMO</b> <b>Name</b> unknown <b>Length</b> m <b>Vessel Type</b> Fishing	<b>Position</b> 10°15'43"S 144°57'18"W <b>Heading</b> 94° <b>Speed</b> 10 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:19:01		<b>MMSI</b> 186121515 <b>IMO</b> <b>Name</b> BUOY-JY906B015--100% <b>Length</b> 3 m <b>Vessel Type</b>	<b>Position</b> 10°25'37"S 144°09'27"W <b>Heading</b> 50° <b>Speed</b> 5 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:02:23
	<b>MMSI</b> 81561806 <b>IMO</b> <b>Name</b> AIB1561806-01 <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 10°22'35"S 144°01'26"W <b>Heading</b> 158° <b>Speed</b> 5 kts <b>Confidence</b> HIGH <b>Time Offset</b> +00:06:23		<b>MMSI</b> 577246000 <b>IMO</b> <b>Name</b> unknown <b>Length</b> m <b>Vessel Type</b> Fishing	<b>Position</b> 10°12'28"S 144°45'31"W <b>Heading</b> 267° <b>Speed</b> 11 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:19:51
	<b>MMSI</b> 441650000 <b>IMO</b> 9047893 <b>Name</b> 377 ORYONG <b>Length</b> m <b>Vessel Type</b> Fishing	<b>Position</b> 10°11'02"S 144°19'41"W <b>Heading</b> 74° <b>Speed</b> 5 kts <b>Confidence</b> HIGH <b>Time Offset</b> +00:10:48		<b>MMSI</b> 81561448 <b>IMO</b> <b>Name</b> AIB1561448-01 <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 10°06'12"S 144°36'32"W <b>Heading</b> 276° <b>Speed</b> 1 kts <b>Confidence</b> HIGH <b>Time Offset</b> +00:13:28
	<b>MMSI</b> 81562631 <b>IMO</b> <b>Name</b> LI CHUN NO.2 - 13 <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 09°38'49"S 145°26'05"W <b>Heading</b> 99° <b>Speed</b> 9 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:04:04		<b>MMSI</b> 416173900 <b>IMO</b> <b>Name</b> HAI ZEAN NO31 <b>Length</b> 56 m <b>Vessel Type</b> Fishing	<b>Position</b> 09°50'02"S 144°33'37"W <b>Heading</b> 271° <b>Speed</b> 11 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:05:54
	<b>MMSI</b> 412420846 <b>IMO</b> <b>Name</b> FENGHUI5 <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 10°50'28"S 146°10'38"W <b>Heading</b> 262° <b>Speed</b> 8 kts <b>Confidence</b> HIGH <b>Time Offset</b> +00:02:03		<b>MMSI</b> 994010727 <b>IMO</b> <b>Name</b> 994010727 6V <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 09°32'45"S 145°12'20"W <b>Heading</b> 212° <b>Speed</b> 2 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:05:56

	<b>MMSI</b> 120389004 <b>IMO</b> <b>Name</b> BUOY-01 11.8V <b>Length</b> 10 m <b>Vessel Type</b> 25	<b>Position</b> 10°34'41"S 146°17'34"W <b>Heading</b> 328° <b>Speed</b> 3 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:18:56		<b>MMSI</b> 441014000 <b>IMO</b> <b>Name</b> unknown <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 09°36'02"S 144°41'17"W <b>Heading</b> 120° <b>Speed</b> 8 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:01:09
	<b>MMSI</b> 416623000 <b>IMO</b> <b>Name</b> CHIN YUNG WEN <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 10°36'31"S 145°57'21"W <b>Heading</b> 92° <b>Speed</b> 10 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:07:52		<b>MMSI</b> 440246000 <b>IMO</b> 8703842 <b>Name</b> 519 NAMGUNG <b>Length</b> 56 m <b>Vessel Type</b> Fishing	<b>Position</b> 09°36'01"S 144°19'04"W <b>Heading</b> 149° <b>Speed</b> 4 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:01:31
	<b>MMSI</b> 111113276 <b>IMO</b> <b>Name</b> Q0T23 12V <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 10°31'24"S 145°48'38"W <b>Heading</b> 304° <b>Speed</b> 4 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:20:38		<b>MMSI</b> 281400004 <b>IMO</b> <b>Name</b> unknown <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 09°20'53"S 144°59'01"W <b>Heading</b> 106° <b>Speed</b> 8 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:11:56
	<b>MMSI</b> 412331026 <b>IMO</b> <b>Name</b> unknown <b>Length</b> 45 m <b>Vessel Type</b> Fishing	<b>Position</b> 09°17'05"S 144°42'40"W <b>Heading</b> 275° <b>Speed</b> 10 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:22:14		<b>MMSI</b> 412549103 <b>IMO</b> 6000000 <b>Name</b> LURONGYUANYU938 <b>Length</b> 26 m <b>Vessel Type</b> Fishing	<b>Position</b> 10°26'01"S 145°38'41"W <b>Heading</b> 149° <b>Speed</b> 9 kts <b>Confidence</b> HIGH <b>Time Offset</b> +00:16:40
	<b>MMSI</b> 412685220 <b>IMO</b> <b>Name</b> QING YUAN YU 009 <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 10°24'10"S 145°37'24"W <b>Heading</b> 180° <b>Speed</b> 10 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:18:53			

# AIS/VMS

#	MMSI	IMO	Name	Position	Speed(kt)	Heading	Type	Time Offset	Data
1	111111178		QYY13011	10°29'04"S 145°38'58"W	10	182°		-00:24:19	KSAT
2	111111196		FU107	07°14'07"S 146°33'04"W	0	257°		-00:18:21	KSAT
3	111111216		Q0906	10°20'50"S 145°36'41"W	0	80°		-00:20:14	KSAT
4	111111506		LG109011	09°45'22"S 145°30'43"W	1	238°		-00:19:36	KSAT
5	111111521		0610	09°52'46"S 145°07'22"W	2	134°		-00:27:45	KSAT
6	111111692		LU08002	09°01'52"S 146°13'08"W	1	63°		-00:19:21	KSAT
7	111111708		FU109	07°13'34"S 146°56'05"W	3	311°		-00:23:34	KSAT
8	111111765		QYY130012	09°52'34"S 145°39'13"W	2	175°		-00:20:57	KSAT
9	111111767		QYY130015	09°52'06"S 145°29'00"W	0	100°		-00:18:39	KSAT
10	111111771		LQ1705	09°17'42"S 144°32'38"W	1	233°		-00:27:48	KSAT
11	111111793		FU55803	09°44'53"S 145°46'11"W	2	84°		-00:20:32	KSAT
12	111111899		LG107011	09°24'32"S 144°49'34"W	1	92°		-00:18:08	KSAT
13	111112378		ES006	06°56'05"S 146°58'07"W	1	0°		-00:22:58	KSAT
14	111112598		Q0816	10°08'45"S 144°50'44"W	1	0°		-00:20:34	KSAT
15	111112600		Q0818	10°09'29"S 145°05'57"W	1	308°		-00:19:08	KSAT
16	111112601		Q0819	10°31'21"S 145°24'15"W	1	124°		-00:24:51	KSAT
17	111112761		QYY13016	10°24'23"S 145°36'29"W	9	176°		-00:25:36	KSAT
18	111112763		QYY13018	09°50'36"S 145°51'21"W	3	299°		-00:24:15	KSAT
19	111112891		LU08011	09°00'50"S 146°02'00"W	1	0°		-00:20:29	KSAT
20	111112897		LG109018	09°41'45"S 145°30'04"W	1	50°		-00:18:48	KSAT
21	111112900		LG109021	09°40'38"S 145°32'05"W	2	163°		-00:19:24	KSAT
22	111112915		FU55818	09°45'38"S 145°23'22"W	1	356°		-00:24:06	KSAT
23	111112926		ES019	06°56'20"S 146°48'41"W	1	264°		-00:21:19	KSAT
24	111113132		QYY13020	09°51'08"S 145°57'51"W	2	262°		-00:19:21	KSAT
25	111113216		LQ16020 12V	09°45'35"S 145°16'21"W	1	194°		+00:58:40	KSAT
26	111113277		Q0T25 12V	10°24'23"S 146°11'13"W	1	242°		+00:57:06	KSAT
27	111113282		J00817 11V	10°18'60"S 146°14'30"W	2	118°		+00:58:43	KSAT
28	111113285		J00819 11V	10°22'59"S 145°39'30"W	0	141°		-00:41:16	KSAT
29	111113286		J00820 11V	10°22'55"S 145°46'15"W	1	160°		+00:53:39	KSAT
30	111113287		J00821 11V	10°20'20"S 145°59'46"W	2	178°		+00:26:53	KSAT
31	111113289		LU08015 12V	09°01'60"S 146°25'23"W	3	266°		+00:31:06	KSAT
32	111113382		LQ16817 12V	10°09'33"S 145°19'24"W	1	174°		+00:57:17	KSAT
33	111113537		Q0826 12V	10°32'05"S 145°11'18"W	1	133°		+00:57:57	KSAT
34	111113538		Q0827 11V	10°24'44"S 145°24'22"W	2	284°		+00:24:17	KSAT
35	111113550		Q0908 11V	10°16'33"S 146°17'52"W	2	178°		+00:57:59	KSAT
36	111113555		LQ16830 12V	10°08'16"S 144°36'49"W	1	117°		+00:59:48	KSAT
37	111113557		LQ16832 12V	10°10'22"S 144°37'14"W	7	152°		+00:30:56	KSAT
38	119030501		LG109022 12V	09°45'21"S 146°00'49"W	1	217°		+00:29:53	KSAT
39	119030502		LG109023 12V	09°44'14"S 145°53'40"W	1	162°		+00:59:12	KSAT
40	119030503		LG109025 12V	09°45'10"S 145°36'41"W	2	93°		+00:21:14	KSAT
41	120389011		BUOY-11 79%	10°34'12"S 146°17'34"W	0	308°	25	-00:18:58	KSAT
42	120389012		BUOY-12 60%	10°32'29"S 146°27'28"W	0	257°	25	-00:22:22	KSAT
43	168888808		BOUY-08 100%	10°51'25"S 144°01'37"W	0	69°	25	-01:57:19	KSAT
44	168888813		BUOY-13	10°51'34"S 144°16'16"W	0	0°		-00:23:38	KSAT
45	186121504		BUOY-JY906B004-- 58%	10°34'23"S 144°11'18"W	1	0°		+00:26:06	KSAT
46	186121505		BUOY-JY906B005-- 00%	10°34'30"S 144°35'31"W	0	0°		-00:04:29	KSAT
47	186121507		BUOY-JY906B007-- 00%	10°35'29"S 144°29'05"W	2	0°		+00:59:24	KSAT
48	186121509		BUOY-JY906B009-- 70%	10°34'24"S 144°16'02"W	2	0°		+00:58:02	KSAT
49	200000003		unknown	09°28'31"S 145°31'25"W	1	0°		+00:31:13	KSAT
50	200603		PL200603	10°32'26"S 145°03'34"W	0	0°		+00:55:59	KSAT
51	200604		PL200604	10°32'20"S 144°56'54"W	1	0°		+00:57:20	KSAT
52	200607		PL200607	10°32'25"S 144°49'44"W	1	0°		+00:25:31	KSAT
53	200608		PL200608	10°35'15"S 144°23'05"W	1	0°		+00:54:00	KSAT

#	MMSI	IMO	Name	Position	Speed(kt)	Heading	Type	Time Offset	Data
54	200609		unknown	10°33'07"S 144°42'39"W	1	0°		-00:02:18	KSAT
55	200614		PL200614	10°22'12"S 144°12'54"W	1	0°		+01:01:10	KSAT
56	412685210		QING YUAN YU 008	10°30'39"S 144°58'30"W	10	86°		-00:02:08	KSAT
57	416466000	9462718	YM UNANIMITY	08°52'46"S 148°57'52"W	20	289°	Cargo Haz. cat. A	+00:01:08	KSAT
58	416761000		LICHYUN NO2	09°38'35"S 145°26'00"W	9	139°		+00:02:36	KSAT
59	57022741		HZ31-03	09°50'21"S 144°30'43"W	0	0°		-00:12:19	KSAT
60	57027616		unknown	09°41'37"S 144°28'22"W	1	0°		-00:47:26	KSAT
61	57046099		HZ31-08	09°44'35"S 144°55'58"W	1	0°		+00:57:55	KSAT
62	57046815		HZ31-10	09°50'07"S 144°22'55"W	1	0°		+00:12:14	KSAT
63	57047898		unknown	09°49'43"S 144°33'14"W	11	272°		-00:20:18	KSAT
64	577245000		OCEAN TRINITY	10°22'15"S 144°01'18"W	9	178°	Fishing	-00:19:13	KSAT
65	81561434		AIB1561444	10°07'01"S 144°59'25"W	1	148°		+01:01:04	KSAT
66	81561443		AIB1561443-01	10°06'45"S 145°07'06"W	1	218°		+00:20:36	KSAT
67	81561447		AIB1561447-01	10°05'48"S 144°44'37"W	1	282°		+00:09:12	KSAT
68	81561452		AIB1561452-01	10°05'51"S 145°24'32"W	2	178°		+01:01:05	KSAT
69	81561454		AIB1561445	10°05'57"S 144°51'34"W	3	243°		+00:24:28	KSAT
70	81561797		AIB1561797-01	10°12'38"S 144°37'22"W	1	268°		+00:11:54	KSAT
71	81561808		AIB1561808-01	10°17'52"S 144°05'15"W	1	274°		+00:52:57	KSAT
72	81561809		AIB1561809-01	10°19'04"S 144°12'16"W	1	248°		+00:30:41	KSAT
73	81561812		AIB1561812-01	10°19'14"S 144°19'02"W	1	245°		+00:52:53	KSAT
74	81561818		AIB1561818-01	10°16'28"S 143°59'56"W	1	295°		-01:51:59	KSAT
75	81561819		AIB1561819-01	10°18'41"S 144°30'45"W	1	228°		+00:55:40	KSAT
76	81561821		AIB1561821-01	10°19'07"S 144°25'22"W	1	227°		+00:53:26	KSAT
77	81562247		AIB1562247	10°04'58"S 144°30'06"W	0	327°		+00:24:12	KSAT
78	81562248		AIB1562248	10°12'07"S 144°29'45"W	12	213°		+00:30:20	KSAT
79	81562627		LI CHUN NO.2 - 9	09°38'09"S 145°25'55"W	10	139°		+00:08:23	KSAT
80	81562628		LI CHUN NO.2 - 10	09°38'30"S 145°26'09"W	10	138°		-00:11:36	KSAT
81	81562630		LI CHUN NO.2 - 12	09°37'56"S 145°25'43"W	10	139°		+00:10:36	KSAT
82	81562633		LI CHUN NO.2 - 15	09°36'20"S 145°27'27"W	5	229°		-00:24:22	KSAT
83	81562634		LI CHUN NO.2 - 16	09°37'53"S 145°25'35"W	9	139°		+00:10:52	KSAT
84	81562635		LI CHUN NO.2 - 17	09°32'07"S 145°27'49"W	1	234°		-00:43:25	KSAT
85	81562644		HAI REN NO.31-2	09°43'21"S 144°39'07"W	2	144°		+00:29:47	KSAT
86	81562645		HAI REN NO.31-3	09°42'21"S 144°32'09"W	1	294°		+00:30:11	KSAT
87	81562647		HAI REN NO.31-5	09°49'42"S 144°33'11"W	11	269°		-00:08:06	KSAT
88	81562649		unknown	09°51'16"S 144°34'22"W	12	49°		+00:02:36	KSAT
89	81562650		HAI REN NO.31-8	09°47'06"S 144°22'20"W	0	299°		-00:02:21	KSAT
90	815973501		BUOY-1 11.8V	10°15'39"S 144°57'38"W	9	86°	25	-00:20:46	KSAT
91	815973504		BUOY-4 11.8V	10°15'53"S 144°57'47"W	9	91°	25	-00:24:07	KSAT
92	815973508		unknown	10°15'59"S 144°57'33"W	9	90°		-00:02:09	KSAT
93	98345876		unknown	10°50'19"S 146°10'08"W	8	262°	Reserved	+00:56:20	KSAT
94	98346854		NET MARK-FH5-0002	10°48'24"S 145°58'05"W	1	247°	Reserved	-00:23:03	KSAT
95	990095024		NET95-24 8V	10°32'26"S 146°27'18"W	0	342°		-00:20:54	KSAT
96	990095028		NET95-28 8V	10°35'08"S 146°01'50"W	1	48°		-01:57:26	KSAT
97	994010176		NG51906 9V	09°35'12"S 144°19'56"W	3	278°		-00:19:14	KSAT
98	994132041		994132041 8V	10°31'27"S 146°32'08"W	2	40°		-00:19:02	KSAT