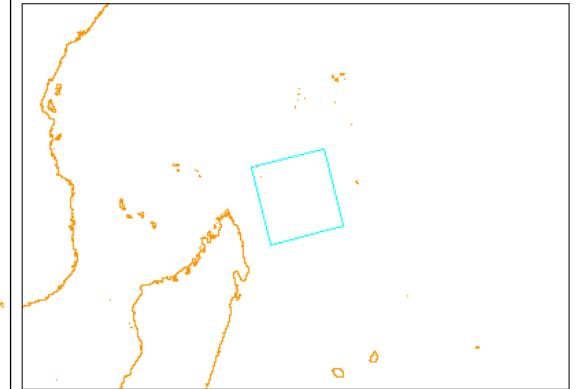


## VESEL DETECTION REPORT



### Acquisition Information

**Satellite:** RADARSAT-2  
**Sensor:** SAR  
**Swath:** DVWF  
**Polarization:** HH  
**Resolution:** 38 m  
**Incidence angle:** Near: 35° Far: 56°  
**Acquisition Time:** 2019-12-17 14:59:19.5 UTC  
**Scene coordinates:** 09°32'31"S 050°39'18"E  
 08°33'15"S 054°45'02"E  
 13°54'47"S 051°42'22"E  
 12°53'05"S 055°51'11"E

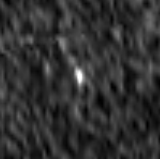






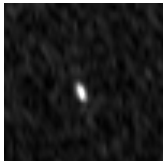
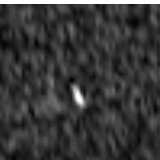



### 41 Vessels detected

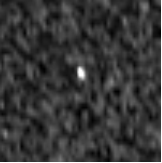
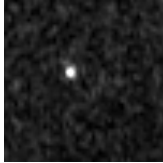
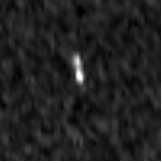
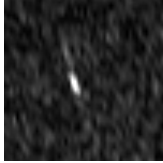








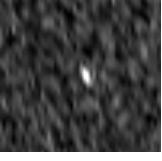

**Correlated :** 15 (green)  
**Only in SAR:** 26 (red)  
**Comment**

Good image quality.

## Detected vessels - Only in SAR

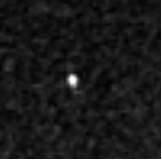
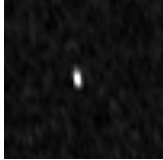


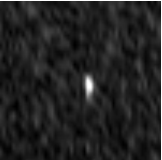


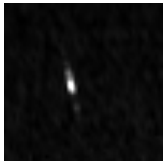

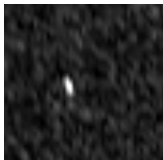

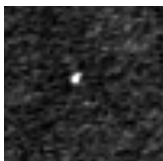
Detection thumbnail size 1000x1000 m


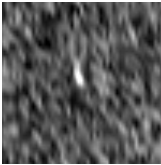

 <p> <b>Position</b> 12°35'48"S 055°15'20"E  <b>Heading(SAR)</b> 173°  <b>Length(SAR)</b> 19 m  <b>Width(SAR)</b> 6 m         </p>	<p> <b>Confidence</b> HIGH         </p>	 <p> <b>Position</b> 11°43'18"S 052°13'29"E  <b>Heading(SAR)</b> 263°  <b>Length(SAR)</b> 49 m  <b>Width(SAR)</b> 15 m         </p>	<p> <b>Confidence</b> HIGH         </p>
 <p> <b>Position</b> 11°34'52"S 052°27'47"E  <b>Heading(SAR)</b> 126°  <b>Length(SAR)</b> 51 m  <b>Width(SAR)</b> 9 m         </p>	<p> <b>Confidence</b> HIGH         </p>	 <p> <b>Position</b> 11°51'30"S 054°51'00"E  <b>Heading(SAR)</b> 336°  <b>Length(SAR)</b> 69 m  <b>Width(SAR)</b> 13 m         </p>	<p> <b>Confidence</b> HIGH         </p>
 <p> <b>Position</b> 10°56'18"S 052°16'47"E  <b>Heading(SAR)</b> 122°  <b>Length(SAR)</b> 50 m  <b>Width(SAR)</b> 14 m         </p>	<p> <b>Confidence</b> HIGH         </p>	 <p> <b>Position</b> 11°06'26"S 054°30'46"E  <b>Heading(SAR)</b> 162°  <b>Length(SAR)</b> 96 m  <b>Width(SAR)</b> 15 m         </p>	<p> <b>Confidence</b> HIGH         </p>
 <p> <b>Position</b> 10°40'53"S 052°33'23"E  <b>Heading(SAR)</b> 345°  <b>Length(SAR)</b> 90 m  <b>Width(SAR)</b> 19 m         </p>	<p> <b>Confidence</b> HIGH         </p>	 <p> <b>Position</b> 10°33'23"S 054°37'55"E  <b>Heading(SAR)</b> 346°  <b>Length(SAR)</b> 58 m  <b>Width(SAR)</b> 11 m         </p>	<p> <b>Confidence</b> HIGH         </p>
 <p> <b>Position</b> 10°21'14"S 054°35'18"E  <b>Heading(SAR)</b> 335°  <b>Length(SAR)</b> 45 m  <b>Width(SAR)</b> 12 m         </p>	<p> <b>Confidence</b> HIGH         </p>	 <p> <b>Position</b> 10°34'32"S 052°42'46"E  <b>Heading(SAR)</b> 348°  <b>Length(SAR)</b> 182 m  <b>Width(SAR)</b> 25 m         </p>	<p> <b>Confidence</b> HIGH         </p>
 <p> <b>Position</b> 11°12'56"S 052°49'54"E  <b>Heading(SAR)</b> 222°  <b>Length(SAR)</b> 50 m  <b>Width(SAR)</b> 16 m         </p>	<p> <b>Confidence</b> HIGH         </p>	 <p> <b>Position</b> 10°00'53"S 051°45'59"E  <b>Heading(SAR)</b> 334°  <b>Length(SAR)</b> 71 m  <b>Width(SAR)</b> 14 m         </p>	<p> <b>Confidence</b> HIGH         </p>

	<b>Position</b> 10°10'18"S 053°26'60"E <b>Heading(SAR)</b> 243° <b>Length(SAR)</b> 17 m <b>Width(SAR)</b> 6 m <b>Confidence</b> HIGH		<b>Position</b> 09°24'13"S 052°38'38"E <b>Heading(SAR)</b> 199° <b>Length(SAR)</b> 48 m <b>Width(SAR)</b> 18 m <b>Confidence</b> HIGH
	<b>Position</b> 09°52'10"S 053°39'50"E <b>Heading(SAR)</b> 351° <b>Length(SAR)</b> 36 m <b>Width(SAR)</b> 13 m <b>Confidence</b> HIGH		<b>Position</b> 09°59'04"S 054°12'14"E <b>Heading(SAR)</b> 159° <b>Length(SAR)</b> 77 m <b>Width(SAR)</b> 16 m <b>Confidence</b> LOW
	<b>Position</b> 09°01'33"S 053°20'40"E <b>Heading(SAR)</b> 358° <b>Length(SAR)</b> 65 m <b>Width(SAR)</b> 13 m <b>Confidence</b> HIGH		<b>Position</b> 09°38'44"S 052°52'06"E <b>Heading(SAR)</b> 155° <b>Length(SAR)</b> 27 m <b>Width(SAR)</b> 7 m <b>Confidence</b> HIGH
	<b>Position</b> 11°52'50"S 054°40'49"E <b>Heading(SAR)</b> 169° <b>Length(SAR)</b> 97 m <b>Width(SAR)</b> 13 m <b>Confidence</b> HIGH		<b>Position</b> 10°03'29"S 052°45'06"E <b>Heading(SAR)</b> 342° <b>Length(SAR)</b> 187 m <b>Width(SAR)</b> 26 m <b>Confidence</b> HIGH
	<b>Position</b> 10°44'38"S 051°24'30"E <b>Heading(SAR)</b> 351° <b>Length(SAR)</b> 82 m <b>Width(SAR)</b> 13 m <b>Confidence</b> HIGH		<b>Position</b> 11°31'01"S 051°21'39"E <b>Heading(SAR)</b> 350° <b>Length(SAR)</b> 43 m <b>Width(SAR)</b> 13 m <b>Confidence</b> HIGH
	<b>Position</b> 11°35'35"S 051°48'14"E <b>Heading(SAR)</b> 227° <b>Length(SAR)</b> 34 m <b>Width(SAR)</b> 10 m <b>Confidence</b> HIGH		<b>Position</b> 11°43'11"S 051°23'51"E <b>Heading(SAR)</b> 220° <b>Length(SAR)</b> 34 m <b>Width(SAR)</b> 9 m <b>Confidence</b> HIGH
	<b>Position</b> 11°35'44"S 055°20'17"E <b>Heading(SAR)</b> 105° <b>Length(SAR)</b> 30 m <b>Width(SAR)</b> 14 m <b>Confidence</b> LOW		<b>Position</b> 12°09'23"S 052°48'17"E <b>Heading(SAR)</b> 142° <b>Length(SAR)</b> 44 m <b>Width(SAR)</b> 17 m <b>Confidence</b> HIGH

## Detected vessels - Correlated with AIS

Detection thumbnail size 1000x1000 m

	<b>MMSI</b> 416004856 <b>IMO</b> <b>Name</b> unknown <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 10°46'51"S 051°52'51"E <b>Heading</b> 179° <b>Speed</b> 3 kts <b>Confidence</b> HIGH <b>Time Offset</b> +00:07:28		<b>MMSI</b> 44612450 <b>IMO</b> <b>Name</b> unknown <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 12°23'53"S 054°24'26"E <b>Heading</b> 0° <b>Speed</b> 0 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:20:31
	<b>MMSI</b> 416059700 <b>IMO</b> <b>Name</b> DE FU NO.1 <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 12°33'55"S 054°33'29"E <b>Heading</b> 93° <b>Speed</b> 9 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:59:44		<b>MMSI</b> 58 <b>IMO</b> <b>Name</b> unknown <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 10°30'46"S 052°15'01"E <b>Heading</b> 275° <b>Speed</b> 1 kts <b>Confidence</b> HIGH <b>Time Offset</b> -02:41:48
	<b>MMSI</b> 416002767 <b>IMO</b> <b>Name</b> WEN DER NO.106 <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 10°18'47"S 054°22'37"E <b>Heading</b> 242° <b>Speed</b> 3 kts <b>Confidence</b> HIGH <b>Time Offset</b> -01:00:36		<b>MMSI</b> 416004635 <b>IMO</b> <b>Name</b> unknown <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 11°13'47"S 053°19'00"E <b>Heading</b> 173° <b>Speed</b> 4 kts <b>Confidence</b> HIGH <b>Time Offset</b> +00:11:34
	<b>MMSI</b> 416175500 <b>IMO</b> <b>Name</b> unknown <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 08°46'23"S 054°01'58"E <b>Heading</b> 85° <b>Speed</b> 4 kts <b>Confidence</b> HIGH <b>Time Offset</b> +00:11:04		<b>MMSI</b> 664115740 <b>IMO</b> <b>Name</b> LONG YIELD NO3 <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 10°20'55"S 053°35'48"E <b>Heading</b> 180° <b>Speed</b> 4 kts <b>Confidence</b> HIGH <b>Time Offset</b> -01:00:15
	<b>MMSI</b> 416137700 <b>IMO</b> <b>Name</b> HWA SHAN NO.301 <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 08°52'17"S 054°07'17"E <b>Heading</b> 181° <b>Speed</b> 4 kts <b>Confidence</b> HIGH <b>Time Offset</b> -02:41:16		<b>MMSI</b> 994011046 <b>IMO</b> <b>Name</b> unknown <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 12°20'33"S 054°35'43"E <b>Heading</b> 320° <b>Speed</b> 1 kts <b>Confidence</b> HIGH <b>Time Offset</b> -01:15:00
	<b>MMSI</b> 416635000 <b>IMO</b> <b>Name</b> SHENG FAN NO.399 <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 10°37'17"S 051°20'12"E <b>Heading</b> 159° <b>Speed</b> 4 kts <b>Confidence</b> HIGH <b>Time Offset</b> +00:11:17		<b>MMSI</b> 416888888 <b>IMO</b> <b>Name</b> unknown <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 12°10'33"S 051°29'07"E <b>Heading</b> 149° <b>Speed</b> 5 kts <b>Confidence</b> HIGH <b>Time Offset</b> +00:09:59

	<b>MMSI</b> <b>IMO</b> <b>Name</b> <b>Length</b> <b>Vessel Type</b>	<b>MMSI</b> 994012123 <b>Position</b> 11°49'46"S 055°27'04"E <b>Heading</b> 88° <b>Speed</b> 3 kts <b>Confidence</b> HIGH <b>Time Offset</b> -01:15:01		<b>MMSI</b> <b>IMO</b> <b>Name</b> <b>Length</b> <b>Vessel Type</b>	<b>MMSI</b> 416002125 <b>Position</b> 12°11'10"S 055°33'17"E <b>Heading</b> 31° <b>Speed</b> 4 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:21:51
	<b>MMSI</b> <b>IMO</b> <b>Name</b> <b>Length</b> <b>Vessel Type</b>	<b>MMSI</b> 416329000 <b>Position</b> 13°08'14"S 052°50'02"E <b>Heading</b> 112° <b>Speed</b> 4 kts <b>Confidence</b> HIGH <b>Time Offset</b> +00:11:29			

## AIS/VMS

#	MMSI	IMO	Name	Position	Speed(kt)	Heading	Type	Time Offset	Data
1	1004		4V	11°37'15"S 051°54'29"E	1	137°		-02:42:19	KSAT
2	168801780		BUOY-05 100%	10°27'07"S 054°27'08"E	0	0°	25	-02:39:54	KSAT
3	168801825		BUOY-06 84%	12°10'58"S 051°42'58"E	0	238°	25	-02:40:04	KSAT
4	168801942		BUOY-03 100%	10°48'46"S 052°09'09"E	0	299°	25	-01:14:47	KSAT
5	168802194		BUOY-11 100%	09°32'32"S 052°32'03"E	0	10°	25	-02:40:15	KSAT
6	168802567		BUOY-02 81%	08°53'42"S 053°15'03"E	0	355°	25	-02:41:42	KSAT
7	168802569		BUOY-04 78%	08°52'33"S 053°29'38"E	0	303°	25	-02:39:44	KSAT
8	200041634		unknown	10°27'25"S 055°26'47"E	8	292°		-01:15:17	KSAT
9	416000652		AN WUN FA NO.16	13°12'13"S 051°56'12"E	4	157°		+00:11:15	KSAT
10	416002508		unknown	11°07'43"S 054°31'39"E	2	273°	Fishing	-01:15:12	KSAT
11	416002659		SHUN FENG NO.8	13°31'01"S 051°55'40"E	4	268°		-01:14:45	KSAT
12	416004378		unknown	12°05'29"S 051°50'16"E	6	2°	Fishing	-02:07:02	KSAT
13	416005233		JAIN LIH NO.212	10°14'57"S 054°44'13"E	3	9°		-02:41:02	KSAT
14	416026106		unknown	09°49'24"S 053°39'47"E	0	0°		+00:12:08	KSAT
15	416046853		unknown	09°53'54"S 053°39'47"E	0	0°		-02:40:19	KSAT
16	416083600		JIN SHYANG YIH 168	12°18'13"S 051°38'00"E	1	251°		+00:09:19	KSAT
17	416153500		unknown	08°42'22"S 053°18'15"E	3	298°		+00:10:52	KSAT
18	416246700		unknown	13°51'02"S 054°04'23"E	7	152°	Fishing	-01:00:35	KSAT
19	416633000		unknown	12°10'46"S 052°49'33"E	4	78°	Fishing	-01:15:13	KSAT
20	416803000		unknown	08°30'22"S 053°03'44"E	5	357°		-00:22:53	KSAT
21	416879000		unknown	12°34'38"S 051°01'15"E	4	80°	Fishing	-01:15:09	KSAT
22	58079249		AIS NET MARK 85%	09°42'36"S 053°39'22"E	1	0°		-00:23:04	KSAT
23	636015549		unknown	10°19'03"S 050°26'07"E	12	246°		+00:09:48	KSAT
24	680000012		BUOY-HJ68H-12--100%	09°16'44"S 052°02'26"E	2	0°		-00:22:29	KSAT
25	680000013		BUOY-HJ68H-13--100%	09°14'54"S 051°33'53"E	3	232°		-01:30:02	KSAT
26	81060606		unknown	10°16'23"S 052°41'50"E	1	86°		-01:34:36	KSAT
27	81060608		LONG YIELD NO.6 - 9	10°38'35"S 052°30'46"E	2	316°		-02:39:17	KSAT
28	81561999		unknown	10°07'42"S 053°37'10"E	1	8°		-02:39:45	KSAT
29	81562003		unknown	10°18'31"S 053°36'16"E	0	8°		-01:15:14	KSAT
30	81562154		LONG YIELD NO.3-6	10°26'29"S 053°34'53"E	1	287°		-01:15:17	KSAT
31	81562155		LONG YIELD NO.3-7	10°24'54"S 053°28'27"E	1	297°		-00:25:57	KSAT
32	81562217		LONG YIELD NO.3-9	10°08'30"S 053°28'11"E	0	237°		-02:03:20	KSAT
33	81562672		JIN HUNG NO.308-5	10°07'01"S 052°44'44"E	0	279°		+00:10:22	KSAT
34	898537604		unknown	11°09'33"S 053°18'55"E	0	312°	Reserved	-02:39:10	KSAT
35	98338818		unknown	08°53'10"S 052°57'14"E	1	38°		-02:38:42	KSAT
36	98340436		unknown	11°44'35"S 051°25'21"E	1	218°		-02:04:32	KSAT
37	98340437		unknown	11°21'21"S 051°21'37"E	0	344°		-02:41:50	KSAT
38	98340438		AIS NET MARK	11°21'39"S 051°25'07"E	1	257°	Reserved	-02:39:24	KSAT
39	98340440		unknown	11°40'03"S 051°24'49"E	1	282°		-02:38:26	KSAT
40	98341281		unknown	11°41'54"S 054°42'08"E	1	33°		-02:41:44	KSAT
41	994010039		994010039 8V	11°26'58"S 051°32'13"E	0	6°		-02:40:59	KSAT
42	994011004		unknown	11°51'32"S 055°27'57"E	3	99°		-01:15:24	KSAT
43	994011005		unknown	11°40'38"S 054°55'56"E	0	0°		-01:15:15	KSAT
44	994011053		unknown	11°01'05"S 054°31'25"E	1	6°		-02:39:31	KSAT
45	994011081		CT2-298007 8V	12°31'11"S 055°18'38"E	0	6°		-02:38:32	KSAT
46	994012125		unknown	11°50'11"S 055°21'57"E	2	282°		-01:14:53	KSAT
47	994012126		unknown	11°38'24"S 055°23'03"E	0	187°		-02:39:21	KSAT
48	994015009		994015009 9V	10°05'41"S 052°05'42"E	1	6°		-02:39:57	KSAT
49	994018123		HMS-003 9V	13°09'50"S 052°34'26"E	1	302°		-02:40:41	KSAT
50	994018132		unknown	09°13'44"S 051°59'55"E	1	280°		-02:39:22	KSAT
51	994030016		JSY-1 7V	12°24'20"S 051°57'14"E	0	268°		-02:38:16	KSAT
52	994030292		unknown	10°35'36"S 051°40'05"E	0	6°		-02:08:09	KSAT
53	994030402		unknown	10°26'56"S 054°33'58"E	0	304°		-01:14:52	KSAT

#	MMSI	IMO	Name	Position	Speed(kt)	Heading	Type	Time Offset	Data
54	994030416		994030416 9V	11°54'09"S 054°36'60"E	3	288°		-01:14:47	KSAT
55	994030417		unknown	11°55'15"S 054°43'19"E	0	6°		-02:39:03	KSAT
56	994030418		unknown	11°47'09"S 054°40'51"E	0	6°		-02:39:21	KSAT
57	994030433		994030433 2V	11°42'52"S 052°19'44"E	0	6°		-02:39:11	KSAT
58	994030451		unknown	11°43'25"S 052°10'47"E	0	6°		-02:38:57	KSAT
59	994030455		unknown	11°35'54"S 052°26'04"E	1	6°		-01:15:15	KSAT
60	994043111		unknown	10°07'23"S 054°21'27"E	0	6°		-02:38:23	KSAT
61	994161390		unknown	11°34'27"S 055°37'05"E	0	6°		-02:42:31	KSAT
62	994161391		BUOY6001296-11 7V	11°30'54"S 055°40'01"E	0	6°		-02:41:59	KSAT
63	994161393		BUOY6001296-13 1V	11°40'10"S 055°41'34"E	0	11°		-01:15:26	KSAT
64	994161394		BUOY6001296-14 4V	11°41'57"S 055°10'30"E	1	229°		-01:14:35	KSAT
65	994161401		unknown	11°48'49"S 055°40'22"E	0	6°		-00:24:48	KSAT
66	994161403		BUOY6001296-23 8V	11°58'35"S 055°36'06"E	1	197°		-02:41:32	KSAT
67	994162363		unknown	08°44'03"S 054°18'47"E	0	337°		-02:40:58	KSAT
68	994162364		unknown	08°46'52"S 054°06'19"E	0	52°		-02:41:59	KSAT
69	994162366		unknown	08°56'16"S 054°06'34"E	0	192°		-02:40:14	KSAT
70	996142005		996142005 4V	11°38'14"S 055°17'43"E	1	83°		-00:23:58	KSAT
71	999000001		818	08°58'49"S 053°12'33"E	1	0°		-02:03:55	KSAT