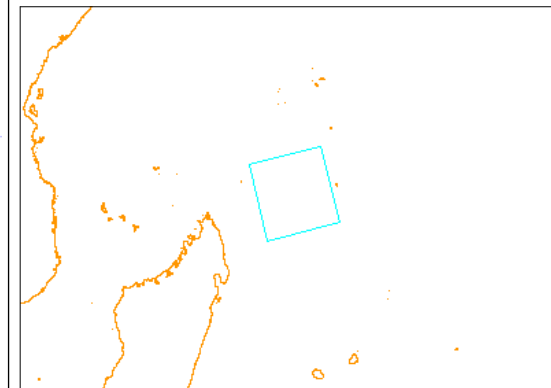


## VESSEL DETECTION REPORT



### Acquisition Information

**Satellite:** RADARSAT-2  
**Sensor:** SAR  
**Swath:** DVWF  
**Polarization:** HH  
**Resolution:** 38 m  
**Incidence angle:** Near: 35° Far: 56°  
**Acquisition Time:** 2019-12-24 14:55:13.1 UTC  
**Scene coordinates:** 09°10'36"S 051°36'57"E  
 08°11'32"S 055°42'29"E  
 13°32'52"S 052°39'46"E  
 12°31'24"S 056°48'16"E

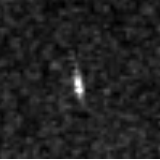
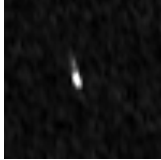



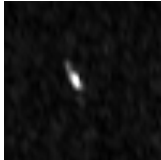



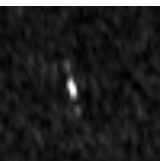
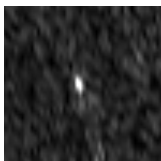
### 28 Vessels detected


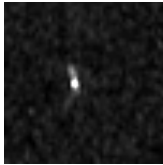





**Correlated :** 9 (green)  
**Only in SAR:** 19 (red)  
**Comment**

Good image quality. Good detection capabilities.

## Detected vessels - Only in SAR


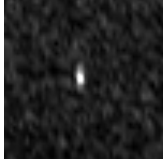


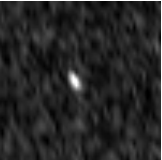

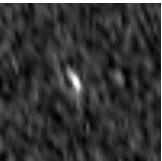


Detection thumbnail size 1000x1000 m

 <p> <b>Position</b> 10°57'55"S 053°02'01"E  <b>Heading(SAR)</b> 350°  <b>Length(SAR)</b> 76 m  <b>Width(SAR)</b> 12 m  <b>Confidence</b> HIGH         </p>	 <p> <b>Position</b> 10°22'49"S 054°54'05"E  <b>Heading(SAR)</b> 167°  <b>Length(SAR)</b> 66 m  <b>Width(SAR)</b> 18 m  <b>Confidence</b> HIGH         </p>
 <p> <b>Position</b> 09°52'41"S 055°35'36"E  <b>Heading(SAR)</b> 346°  <b>Length(SAR)</b> 111 m  <b>Width(SAR)</b> 27 m  <b>Confidence</b> HIGH         </p>	 <p> <b>Position</b> 10°08'43"S 054°22'40"E  <b>Heading(SAR)</b> 346°  <b>Length(SAR)</b> 115 m  <b>Width(SAR)</b> 18 m  <b>Confidence</b> HIGH         </p>
 <p> <b>Position</b> 10°02'03"S 054°45'57"E  <b>Heading(SAR)</b> 347°  <b>Length(SAR)</b> 78 m  <b>Width(SAR)</b> 17 m  <b>Confidence</b> HIGH         </p>	 <p> <b>Position</b> 09°31'08"S 054°48'22"E  <b>Heading(SAR)</b> 151°  <b>Length(SAR)</b> 69 m  <b>Width(SAR)</b> 16 m  <b>Confidence</b> HIGH         </p>
 <p> <b>Position</b> 10°03'34"S 052°18'35"E  <b>Heading(SAR)</b> 161°  <b>Length(SAR)</b> 110 m  <b>Width(SAR)</b> 23 m  <b>Confidence</b> HIGH         </p>	 <p> <b>Position</b> 09°12'33"S 055°44'51"E  <b>Heading(SAR)</b> 170°  <b>Length(SAR)</b> 63 m  <b>Width(SAR)</b> 9 m  <b>Confidence</b> HIGH         </p>
 <p> <b>Position</b> 09°10'23"S 055°41'57"E  <b>Heading(SAR)</b> 166°  <b>Length(SAR)</b> 65 m  <b>Width(SAR)</b> 14 m  <b>Confidence</b> HIGH         </p>	 <p> <b>Position</b> 09°35'54"S 052°55'45"E  <b>Heading(SAR)</b> 152°  <b>Length(SAR)</b> 39 m  <b>Width(SAR)</b> 12 m  <b>Confidence</b> HIGH         </p>
 <p> <b>Position</b> 12°29'01"S 055°14'00"E  <b>Heading(SAR)</b> 350°  <b>Length(SAR)</b> 82 m  <b>Width(SAR)</b> 17 m  <b>Confidence</b> HIGH         </p>	 <p> <b>Position</b> 08°59'18"S 054°59'17"E  <b>Heading(SAR)</b> 166°  <b>Length(SAR)</b> 29 m  <b>Width(SAR)</b> 10 m  <b>Confidence</b> LOW         </p>

	<b>Position</b> 09°32'58"S 052°30'45"E <b>Heading(SAR)</b> 164° <b>Length(SAR)</b> 84 m <b>Width(SAR)</b> 14 m <b>Confidence</b> HIGH		<b>Position</b> 11°52'29"S 053°45'07"E <b>Heading(SAR)</b> 348° <b>Length(SAR)</b> 78 m <b>Width(SAR)</b> 23 m <b>Confidence</b> HIGH
	<b>Position</b> 09°35'57"S 052°12'28"E <b>Heading(SAR)</b> 159° <b>Length(SAR)</b> 57 m <b>Width(SAR)</b> 8 m <b>Confidence</b> HIGH		<b>Position</b> 09°06'21"S 053°32'26"E <b>Heading(SAR)</b> 347° <b>Length(SAR)</b> 94 m <b>Width(SAR)</b> 18 m <b>Confidence</b> HIGH
	<b>Position</b> 11°25'01"S 054°47'17"E <b>Heading(SAR)</b> 178° <b>Length(SAR)</b> 48 m <b>Width(SAR)</b> 14 m <b>Confidence</b> HIGH		<b>Position</b> 08°32'06"S 055°13'58"E <b>Heading(SAR)</b> 159° <b>Length(SAR)</b> 54 m <b>Width(SAR)</b> 13 m <b>Confidence</b> HIGH
	<b>Position</b> 11°01'33"S 054°56'23"E <b>Heading(SAR)</b> 141° <b>Length(SAR)</b> 48 m <b>Width(SAR)</b> 14 m <b>Confidence</b> HIGH		

## Detected vessels - Correlated with AIS

Detection thumbnail size 1000x1000 m

	<b>MMSI</b> 416316000 <b>IMO</b> <b>Name</b> HUNG JUNG NO.68 <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 10°47'00"S 054°43'17"E <b>Heading</b> 172° <b>Speed</b> 4 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:43:22		<b>MMSI</b> 994030418 <b>IMO</b> <b>Name</b> unknown <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 10°49'33"S 054°27'54"E <b>Heading</b> 162° <b>Speed</b> 0 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:43:31
	<b>MMSI</b> 416004968 <b>IMO</b> <b>Name</b> SHIN SHUEN FAR NO88 <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 10°02'40"S 053°50'12"E <b>Heading</b> 349° <b>Speed</b> 7 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:42:34		<b>MMSI</b> 416635000 <b>IMO</b> <b>Name</b> SHENG FAN NO.399 <b>Length</b> 56 m <b>Vessel Type</b> Fishing	<b>Position</b> 10°13'08"S 052°03'45"E <b>Heading</b> 272° <b>Speed</b> 4 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:38:37
	<b>MMSI</b> 416005579 <b>IMO</b> <b>Name</b> DE YI NO.66 <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 12°33'39"S 056°25'48"E <b>Heading</b> 270° <b>Speed</b> 4 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:38:26		<b>MMSI</b> 210274000 <b>IMO</b> <b>Name</b> unknown <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 09°42'35"S 053°30'10"E <b>Heading</b> 244° <b>Speed</b> 11 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:35:52
	<b>MMSI</b> 412329421 <b>IMO</b> <b>Name</b> unknown <b>Length</b> 30 m <b>Vessel Type</b> Fishing	<b>Position</b> 12°28'28"S 056°29'40"E <b>Heading</b> 91° <b>Speed</b> 8 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:42:03		<b>MMSI</b> 994010022 <b>IMO</b> <b>Name</b> unknown <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 12°06'44"S 052°56'22"E <b>Heading</b> 153° <b>Speed</b> 2 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:42:58
	<b>MMSI</b> 538001665 <b>IMO</b> <b>Name</b> unknown <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 11°14'32"S 056°13'17"E <b>Heading</b> 171° <b>Speed</b> 15 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:36:42			

## AIS/VMS

#	MMSI	IMO	Name	Position	Speed(kt)	Heading	Type	Time Offset	Data
1	168800786		BUOY-04 100%	09°39'44"S 054°30'16"E	0	38°	25	-00:38:11	KSAT
2	1801106		unknown	08°13'54"S 054°09'37"E	0	36°		-00:41:52	KSAT
3	200042407		unknown	10°26'41"S 054°07'38"E	2	268°		-00:38:16	KSAT
4	353511000		unknown	10°20'34"S 056°34'19"E	4	206°		+00:01:22	KSAT
5	412288011		0101-1	09°14'07"S 055°43'16"E	4	189°		-02:56:10	KSAT
6	412333331		unknown	11°11'06"S 055°01'42"E	5	202°	Fishing	-02:21:39	KSAT
7	416002499		unknown	13°17'38"S 051°46'37"E	2	78°	Cargo	-00:43:06	KSAT
8	416059700		unknown	12°37'20"S 051°50'15"E	6	252°	Fishing	-00:43:01	KSAT
9	416126500		unknown	08°09'59"S 055°00'07"E	4	70°		-00:35:32	KSAT
10	416175500		unknown	08°14'46"S 053°14'16"E	4	170°		-00:06:11	KSAT
11	416214900		unknown	10°01'44"S 054°43'09"E	3	3°	Fishing	-00:42:26	KSAT
12	416329000		HSIANG MAN SHING	14°14'43"S 052°51'06"E	9	158°		-00:35:08	KSAT
13	416803000		unknown	09°33'16"S 051°39'51"E	7	316°		-00:37:06	KSAT
14	416888888		unknown	11°59'25"S 052°21'32"E	3	223°		-00:06:17	KSAT
15	42343891		BUOY 343-891 8V	11°21'02"S 054°54'07"E	0	0°		-00:38:18	KSAT
16	42474412		BUOY 474-412 8V	11°16'06"S 054°46'15"E	0	0°		-00:38:39	KSAT
17	44612450		BUOY 612-450 7V	11°15'04"S 054°53'05"E	0	0°		-00:42:19	KSAT
18	664115740		LONG YIELD NO3	09°41'11"S 052°59'49"E	5	97°		-02:20:19	KSAT
19	81562156		unknown	09°26'09"S 052°41'57"E	0	89°		-00:41:54	KSAT
20	81562217		LONG YIELD NO.3-9	09°27'48"S 052°33'44"E	0	76°		-00:38:34	KSAT
21	98335510		unknown	10°00'59"S 054°13'23"E	0	163°		-00:42:26	KSAT
22	98339671		unknown	10°17'48"S 053°32'22"E	6	198°		-02:24:42	KSAT
23	98339673		AIS NET MARK	10°06'06"S 053°45'51"E	1	200°	Reserved	-00:38:30	KSAT
24	98341167		unknown	09°00'19"S 054°49'18"E	2	285°		-00:38:36	KSAT
25	98341228		unknown	08°36'54"S 053°46'11"E	5	276°		-02:57:35	KSAT
26	994010038		unknown	11°31'34"S 051°50'10"E	1	274°		-00:43:32	KSAT
27	994010040		unknown	11°26'32"S 052°04'40"E	0	0°		-00:38:11	KSAT
28	994011081		unknown	10°26'18"S 055°03'38"E	1	0°		-00:38:27	KSAT
29	994018024		unknown	10°09'30"S 054°48'15"E	2	219°		-02:22:09	KSAT
30	994018077		unknown	10°24'40"S 054°11'05"E	1	0°		-02:20:06	KSAT
31	994030027		unknown	10°17'28"S 051°55'41"E	3	288°		-00:42:43	KSAT
32	994030221		unknown	10°02'32"S 053°53'32"E	2	278°		-00:38:38	KSAT
33	994030223		unknown	10°10'50"S 053°51'41"E	2	83°		-00:38:26	KSAT
34	994030229		unknown	10°20'36"S 052°07'24"E	1	209°		-00:43:28	KSAT
35	994030419		unknown	10°44'06"S 054°33'12"E	1	0°		-00:42:33	KSAT
36	994030420		994030420 8V	10°33'14"S 054°31'56"E	1	216°		-00:38:33	KSAT
37	994030432		unknown	10°57'40"S 053°08'56"E	1	0°		-02:22:05	KSAT
38	994030458		unknown	09°56'22"S 053°52'58"E	1	261°		-02:23:56	KSAT
39	994124009		994124009 9V	13°06'33"S 052°19'50"E	2	291°		-00:38:23	KSAT
40	994124010		unknown	13°18'09"S 052°16'55"E	3	0°		-00:41:52	KSAT
41	994161234		unknown	09°51'53"S 052°18'27"E	2	215°		-00:38:10	KSAT
42	994161241		unknown	11°57'56"S 053°30'17"E	2	128°		-00:42:51	KSAT
43	994161388		unknown	10°53'52"S 054°36'24"E	2	346°		-00:38:33	KSAT
44	994161758		unknown	12°36'17"S 051°53'26"E	0	99°		-00:38:19	KSAT
45	994161761		unknown	12°41'24"S 051°44'58"E	1	317°		-00:38:12	KSAT
46	994161762		994161762 9V	12°41'54"S 051°50'54"E	0	289°		-00:38:40	KSAT
47	994161764		unknown	12°42'34"S 052°05'59"E	2	256°		-00:43:34	KSAT
48	994161765		unknown	12°41'27"S 052°12'29"E	1	296°		-00:38:33	KSAT
49	994162366		994162366 3V	09°54'54"S 052°18'17"E	3	334°		-00:38:21	KSAT