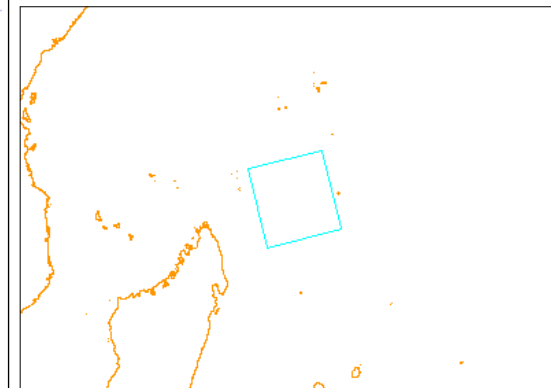


## VESEL DETECTION REPORT



### Acquisition Information

**Satellite:** RADARSAT-2  
**Sensor:** SAR  
**Swath:** DVWF  
**Polarization:** HH  
**Resolution:** 38 m  
**Incidence angle:** Near: 35° Far: 56°  
**Acquisition Time:** 2019-10-13 14:55:21.3 UTC  
**Scene coordinates:** 09°03'01"S 051°35'18"E  
 08°04'02"S 055°40'43"E  
 13°25'20"S 052°38'03"E  
 12°23'57"S 056°46'23"E


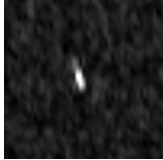

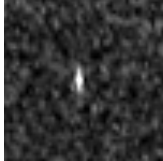

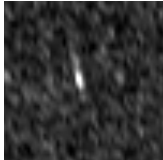
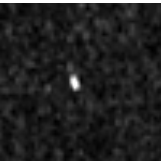
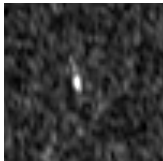

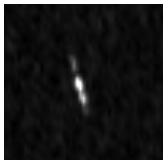
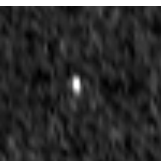
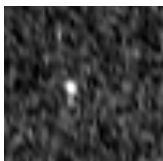
### 19 Vessels detected

**Correlated :** 7 (green)  
**Only in SAR:** 12 (red)  
**Comment**

Good image quality, good detection capabilities. 19 vessels detected.


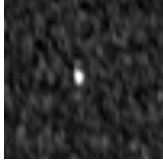


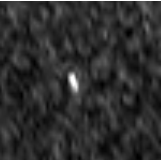

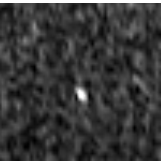
## Detected vessels - Only in SAR

Detection thumbnail size 1000x1000 m

 <p> <b>Position</b> 12°15'27"S 055°25'27"E  <b>Heading(SAR)</b> 318°  <b>Length(SAR)</b> 42 m  <b>Width(SAR)</b> 11 m         </p>	 <p> <b>Position</b> 11°56'42"S 055°20'56"E  <b>Heading(SAR)</b> 340°  <b>Length(SAR)</b> 62 m  <b>Width(SAR)</b> 13 m         </p>
 <p> <b>Position</b> 11°38'28"S 055°35'57"E  <b>Heading(SAR)</b> 346°  <b>Length(SAR)</b> 46 m  <b>Width(SAR)</b> 9 m         </p>	 <p> <b>Position</b> 11°46'32"S 054°17'13"E  <b>Heading(SAR)</b> 003°  <b>Length(SAR)</b> 46 m  <b>Width(SAR)</b> 9 m         </p>
 <p> <b>Position</b> 11°07'37"S 056°07'49"E  <b>Heading(SAR)</b> 137°  <b>Length(SAR)</b> 50 m  <b>Width(SAR)</b> 19 m         </p>	 <p> <b>Position</b> 11°11'30"S 055°21'51"E  <b>Heading(SAR)</b> 004°  <b>Length(SAR)</b> 50 m  <b>Width(SAR)</b> 4 m         </p>
 <p> <b>Position</b> 11°32'50"S 053°52'46"E  <b>Heading(SAR)</b> 346°  <b>Length(SAR)</b> 48 m  <b>Width(SAR)</b> 6 m         </p>	 <p> <b>Position</b> 10°52'30"S 054°28'43"E  <b>Heading(SAR)</b> 183°  <b>Length(SAR)</b> 30 m  <b>Width(SAR)</b> 6 m         </p>
 <p> <b>Position</b> 10°46'06"S 054°27'12"E  <b>Heading(SAR)</b> 003°  <b>Length(SAR)</b> 46 m  <b>Width(SAR)</b> 9 m         </p>	 <p> <b>Position</b> 10°30'55"S 055°00'09"E  <b>Heading(SAR)</b> 351°  <b>Length(SAR)</b> 75 m  <b>Width(SAR)</b> 13 m         </p>
 <p> <b>Position</b> 09°07'42"S 055°13'51"E  <b>Heading(SAR)</b> 016°  <b>Length(SAR)</b> 40 m  <b>Width(SAR)</b> 6 m         </p>	 <p> <b>Position</b> 10°47'50"S 055°11'15"E  <b>Heading(SAR)</b> 008°  <b>Length(SAR)</b> 47 m  <b>Width(SAR)</b> 9 m         </p>

## Detected vessels - Correlated with AIS

Detection thumbnail size 1000x1000 m

	<b>MMSI</b> 416004879 <b>IMO</b> <b>Name</b> SIN FUA FONG NO.168 <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 11°40'21"S 055°14'21"E <b>Heading</b> 176° <b>Speed</b> 3 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:09:33		<b>MMSI</b> 994030416 <b>IMO</b> <b>Name</b> 994030416 9V <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 11°34'49"S 055°25'43"E <b>Heading</b> 178° <b>Speed</b> 3 kts <b>Confidence</b> HIGH <b>Time Offset</b> +00:23:21
	<b>MMSI</b> 416005115 <b>IMO</b> <b>Name</b> FENG KUO NO.669 <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 11°28'54"S 055°01'55"E <b>Heading</b> 256° <b>Speed</b> 3 kts <b>Confidence</b> HIGH <b>Time Offset</b> +00:20:04		<b>MMSI</b> 416004790 <b>IMO</b> <b>Name</b> unknown <b>Length</b> 34 m <b>Vessel Type</b> Fishing	<b>Position</b> 11°50'23"S 053°12'48"E <b>Heading</b> 356° <b>Speed</b> 5 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:09:12
	<b>MMSI</b> 994030118 <b>IMO</b> <b>Name</b> unknown <b>Length</b> m <b>Vessel Type</b>	<b>Position</b> 10°28'25"S 054°55'44"E <b>Heading</b> 225° <b>Speed</b> 1 kts <b>Confidence</b> HIGH <b>Time Offset</b> -01:00:50		<b>MMSI</b> 566995000 <b>IMO</b> 9603116 <b>Name</b> NATHAN BRANDON <b>Length</b> 190 m <b>Vessel Type</b> Cargo	<b>Position</b> 10°12'27"S 051°58'10"E <b>Heading</b> 70° <b>Speed</b> 10 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:14:10
	<b>MMSI</b> 416004635 <b>IMO</b> 0 <b>Name</b> HO HSIN HSING NO.601 <b>Length</b> 36 m <b>Vessel Type</b> Fishing	<b>Position</b> 10°10'24"S 054°08'12"E <b>Heading</b> 220° <b>Speed</b> 2 kts <b>Confidence</b> HIGH <b>Time Offset</b> -00:13:08			

## AIS/VMS

#	MMSI	IMO	Name	Position	Speed(kt)	Heading	Type	Time Offset	Data
1	107120303		NET FISHING 11V	10°54'18"S 055°10'22"E	2	65°		+00:22:22	KSAT
2	168801642		BUOY-01 100%	11°55'50"S 053°14'01"E	0	68°	25	-02:33:46	KSAT
3	168801646		BUOY-04 100%	11°36'59"S 053°19'00"E	0	90°	25	-02:33:15	KSAT
4	200042407		unknown	11°54'18"S 056°28'35"E	2	138°		-01:13:27	KSAT
5	416003173		unknown	11°06'06"S 054°21'42"E	2	274°	Fishing	-00:14:17	KSAT
6	416004473		SIN HUA FONG NO.16	11°46'34"S 054°56'30"E	3	252°		-02:36:11	KSAT
7	416004507		DE YI NO.6	09°55'48"S 054°46'57"E	4	93°	Fishing	-01:15:45	KSAT
8	416004718		unknown	11°30'09"S 053°05'53"E	5	91°	Fishing	-00:08:30	KSAT
9	416005060		REN HORNG DAR NO 68	12°05'35"S 054°21'55"E	2	264°	Fishing	-02:33:51	KSAT
10	416005307		unknown	10°40'06"S 054°22'28"E	3	282°	Fishing	-02:35:25	KSAT
11	416005579		unknown	09°26'47"S 054°16'00"E	3	202°	Fishing	-00:45:31	KSAT
12	416027609		unknown	11°36'31"S 055°02'52"E	1	0°		-00:42:17	KSAT
13	416046594		unknown	11°42'51"S 055°11'48"E	0	0°		-00:42:55	KSAT
14	416046853		unknown	11°39'50"S 055°02'53"E	1	0°		-01:51:56	KSAT
15	416239800		FENG GWO NO.888	12°30'01"S 055°51'19"E	4	22°		-00:07:06	KSAT
16	440236000	8843094	DONGWON NO.216	11°52'49"S 056°45'52"E	5	148°	Fishing	-00:59:19	KSAT
17	471052000	9262390	WHITING ANN	10°20'34"S 056°35'03"E	0	178°		+00:22:35	KSAT
18	58080054		AIS NET MARK 83%	11°27'03"S 054°59'11"E	3	317°		-02:25:21	KSAT
19	664075000		unknown	10°19'14"S 054°38'20"E	5	347°	Fishing	-02:36:13	KSAT
20	816666011		RCT112-11	11°07'04"S 054°21'55"E	2	250°	Reserved	-00:47:01	KSAT
21	932555502		932555502	12°05'48"S 054°38'46"E	2	322°	Reserved	-02:32:38	KSAT
22	932555504		unknown	12°02'44"S 054°51'09"E	1	9°	Reserved	-02:33:52	KSAT
23	932555506		unknown	12°07'29"S 054°46'22"E	1	299°	Reserved	-02:35:28	KSAT
24	932555508		unknown	12°05'07"S 054°26'22"E	1	267°	Reserved	-02:33:48	KSAT
25	981000262		AIS NET MARK84%	12°19'20"S 056°11'15"E	1	261°		-02:32:39	KSAT
26	981000263		AIS NET MARK76%	11°35'23"S 055°13'28"E	2	306°		-02:32:36	KSAT
27	981000284		AIS NET MARK99%	12°25'17"S 056°23'33"E	3	186°		-02:37:32	KSAT
28	981000317		AIS NET MARK99%	12°22'55"S 056°15'07"E	3	259°		-02:33:42	KSAT
29	981000352		AIS NET MARK99%	11°32'44"S 055°07'14"E	1	144°		-02:35:44	KSAT
30	981000458		AIS NET MARK96%	11°50'07"S 055°17'15"E	1	194°		-02:33:43	KSAT
31	98338809		unknown	11°24'49"S 055°06'15"E	1	343°		-02:36:35	KSAT
32	98338817		unknown	12°26'26"S 055°45'38"E	1	292°		-00:59:30	KSAT
33	98338819		AIS NET MARK	12°29'32"S 055°53'09"E	1	251°	Reserved	-02:35:46	KSAT
34	98339686		unknown	11°27'32"S 054°52'19"E	2	299°		-02:34:19	KSAT
35	98341256		AIS NET MARK	11°35'60"S 055°25'50"E	1	214°	Reserved	-02:37:16	KSAT
36	994018021		unknown	11°23'43"S 054°30'60"E	0	78°		-02:34:21	KSAT
37	994018025		SLJ-05 7V	11°38'55"S 054°22'10"E	1	234°		-01:15:58	KSAT
38	994018027		unknown	11°36'15"S 054°21'43"E	2	205°		-02:23:01	KSAT
39	994018028		unknown	11°29'31"S 054°27'56"E	1	271°		-02:33:31	KSAT
40	994018055		SN16-05 5V	11°47'54"S 054°11'34"E	2	269°		-02:32:31	KSAT
41	994018059		unknown	11°22'46"S 054°22'15"E	1	156°		-02:33:27	KSAT
42	994018074		SLJ3-04 9V	11°48'09"S 056°23'02"E	3	308°		-02:33:22	KSAT
43	994018077		unknown	11°43'59"S 056°11'36"E	1	357°		-02:34:20	KSAT
44	994030331		994030331 8V	11°23'58"S 055°06'01"E	3	325°		-02:33:35	KSAT
45	994030332		994030332 8V	11°30'46"S 055°00'53"E	1	357°		-01:16:11	KSAT
46	994030417		unknown	11°50'36"S 055°21'56"E	1	216°		-01:17:15	KSAT
47	994162532		unknown	11°36'27"S 055°19'24"E	2	109°		-02:35:13	KSAT