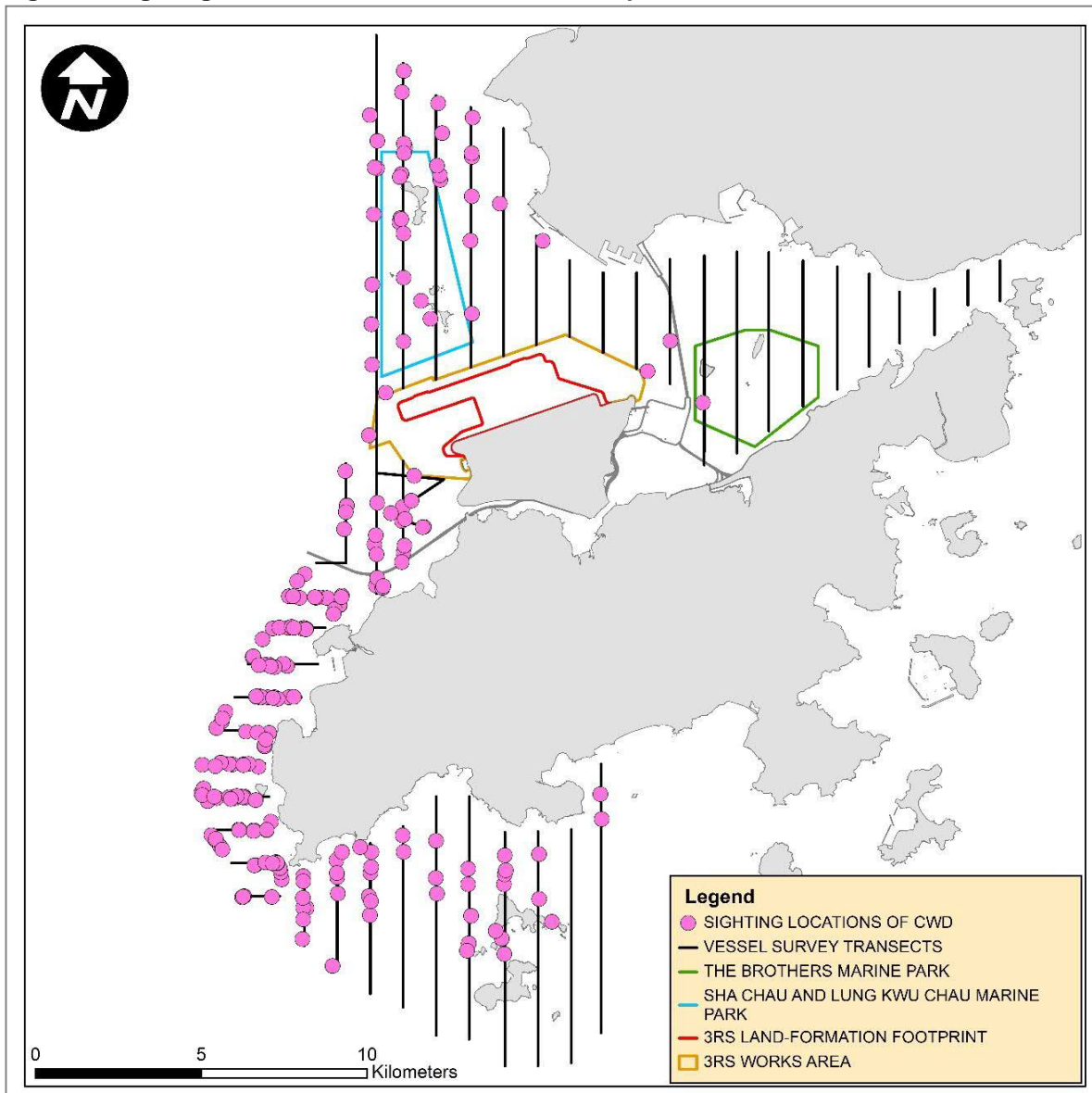


## **Appendix E. Chinese White Dolphin Monitoring Results**

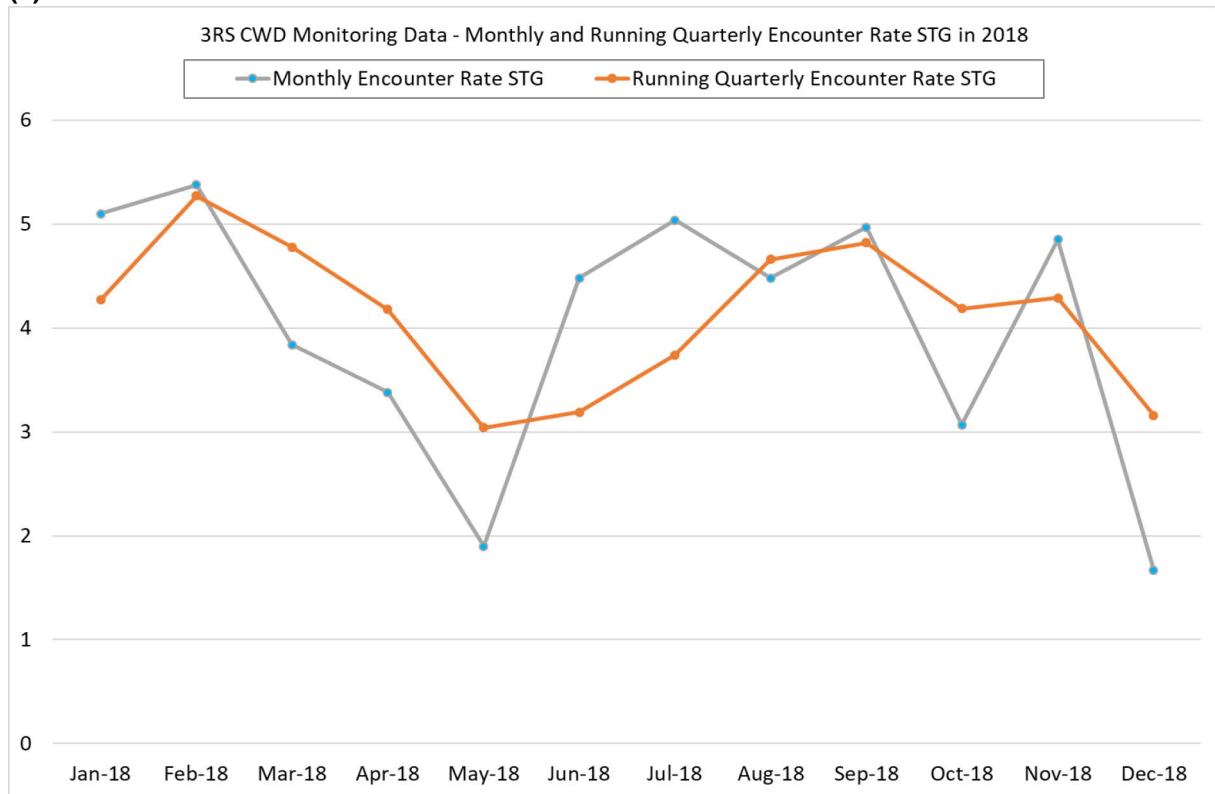
## Appendix E Chinese White Dolphin Monitoring Results

Figure 1: Sightings Distribution of Chinese White Dolphins in 2018

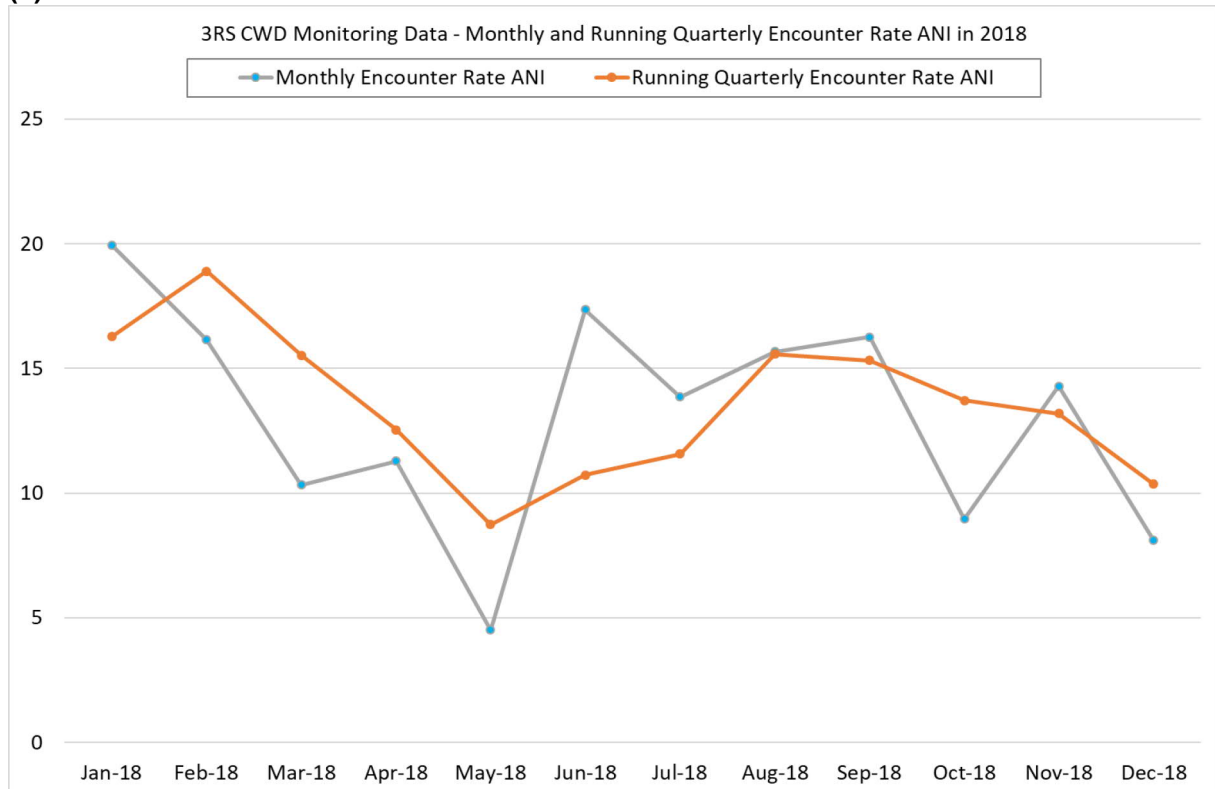


**Figure 2: Graphical Presentation of Monthly and Running Quarterly Encounter Rates in the Reporting Period (January to December 2018)**

**(a) Encounter Rate STG**



**(b) Encounter Rate ANI**

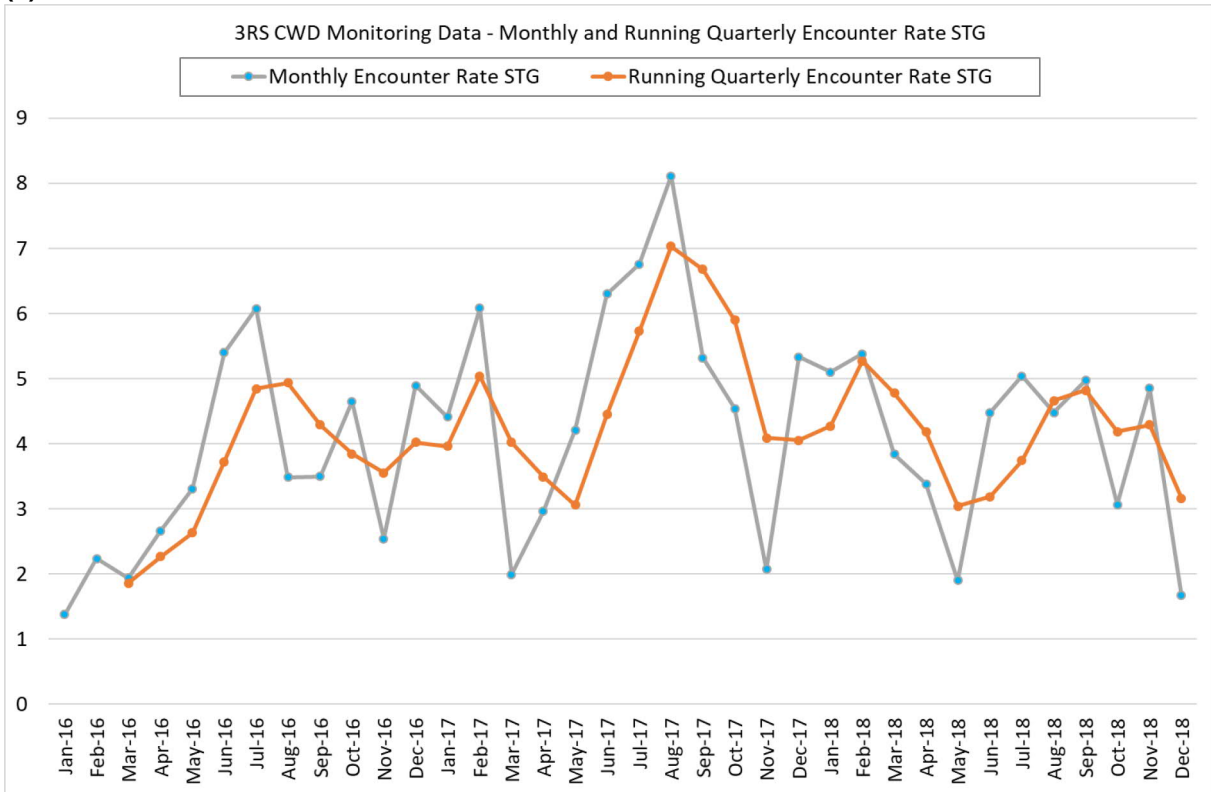


**Notes**

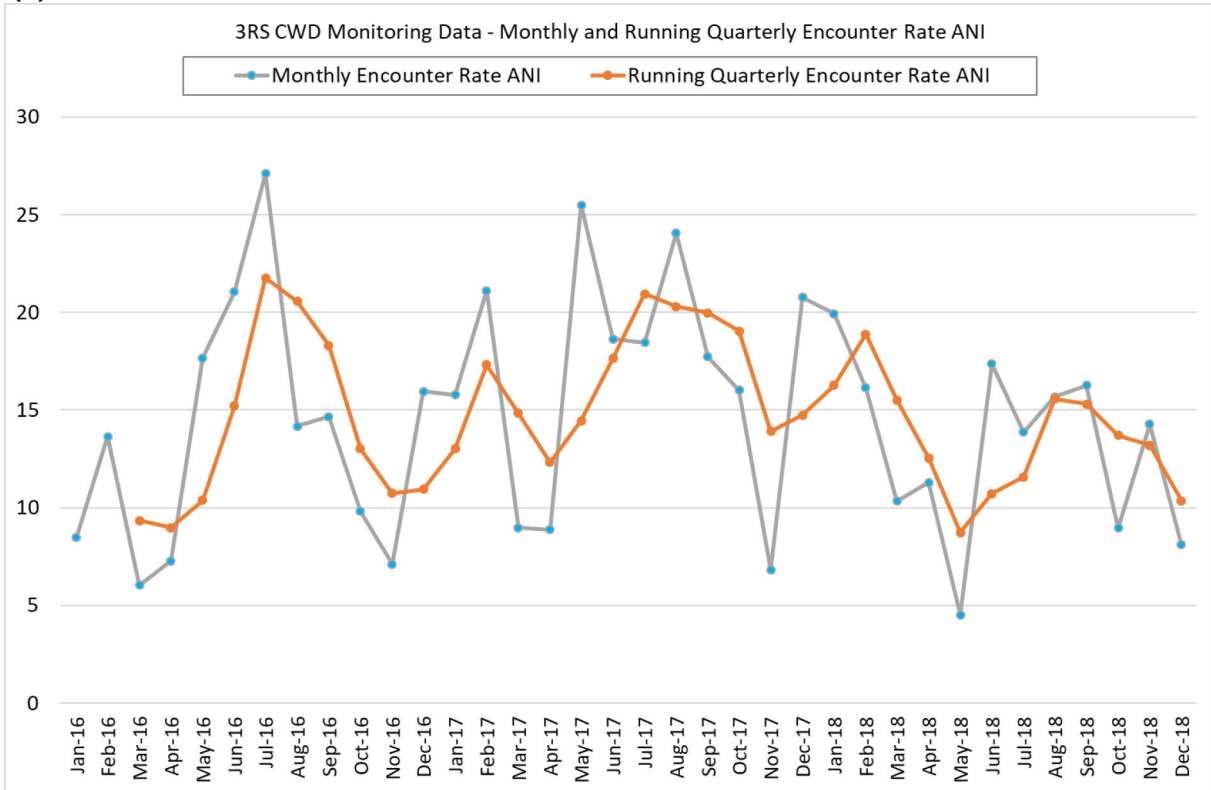
1. The key marine works activities of the Project carried out in the reporting period included deep cement mixing (DCM) works, marine filling, seawall construction, laying of sand blanket, and prefabricated vertical drain (PVD) installation.
2. Encounter rates were calculated by using survey data collected under favourable weather condition only (Beaufort Sea State 3 or below with favourable visibility).

**Figure 3: Graphical Presentation of Monthly and Running Quarterly Encounter Rates from January 2016 to December 2018**

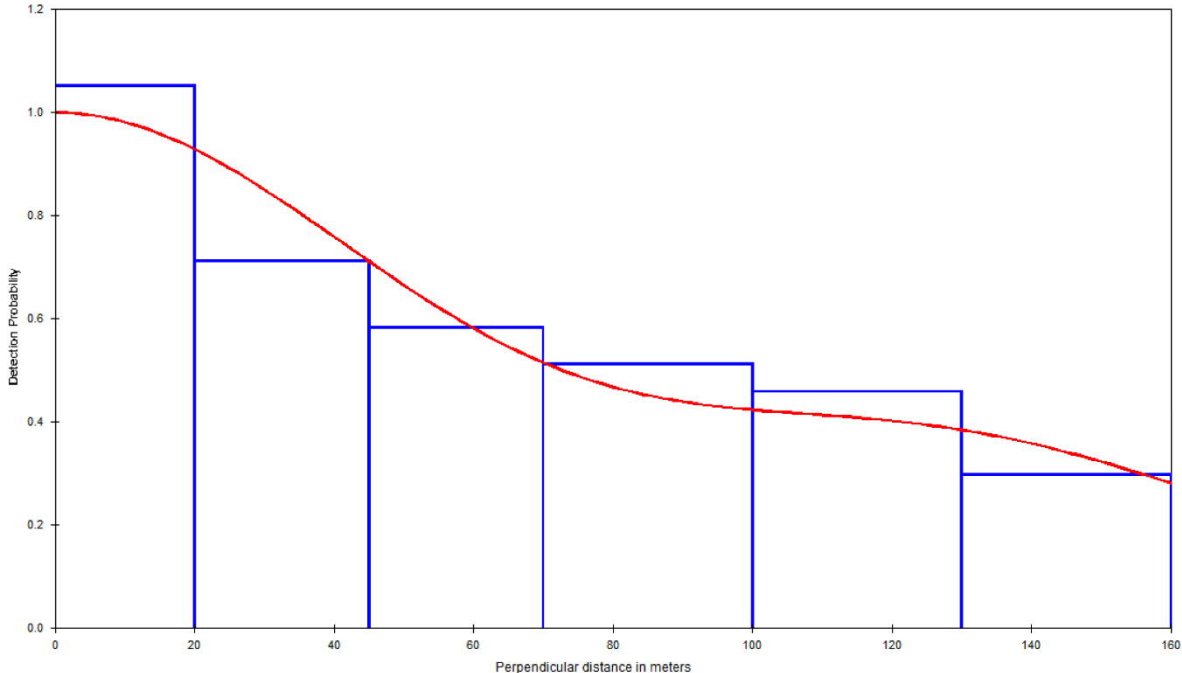
**(a) Encounter Rate STG**



**(b) Encounter Rate ANI**



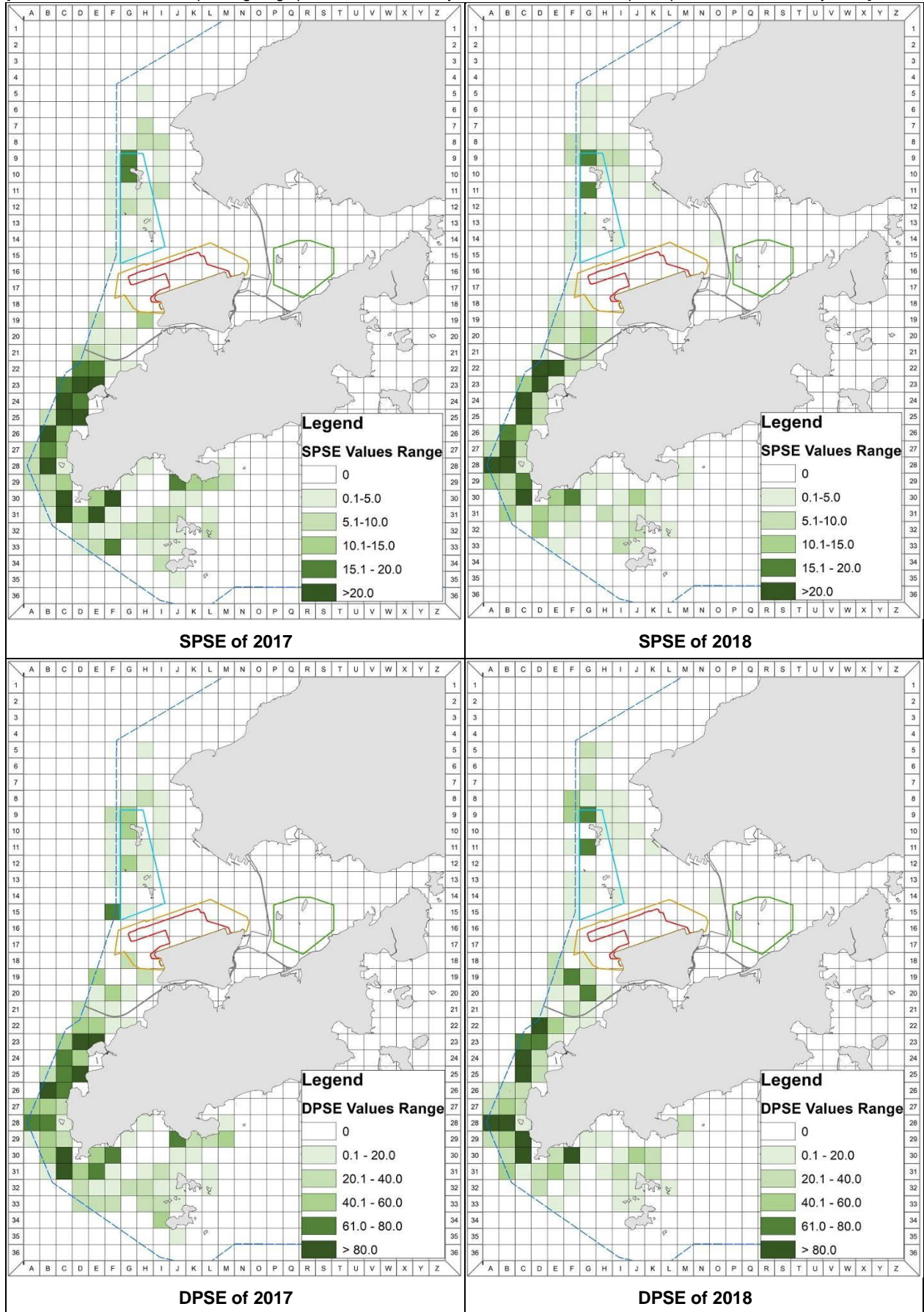
**Figure 4: Fitted Detection Function of the 2018 CWD Sightings, Pooled from All Western Hong Kong Survey Areas**



[Note: Detection function used a Half Normal model with a cosine adjustment.]

**Figure 5: Quantitative Grid Analysis – SPSE and DPSE of CWDs with Corrected Survey Effort per km<sup>2</sup> of Year 2017 and Year 2018**

[SPSE = no. of on-effort dolphin sightings per 100 units of survey effort, DPSE = no. of dolphins per 100 units of survey effort]



**Figure 6: Cumulative SPSE and DPSE of CWDs with Corrected Survey Effort per km<sup>2</sup> from Dec 2015 to Dec 2018**

[SPSE = no. of on-effort dolphin sightings per 100 units of survey effort, DPSE = no. of dolphins per 100 units of survey effort]

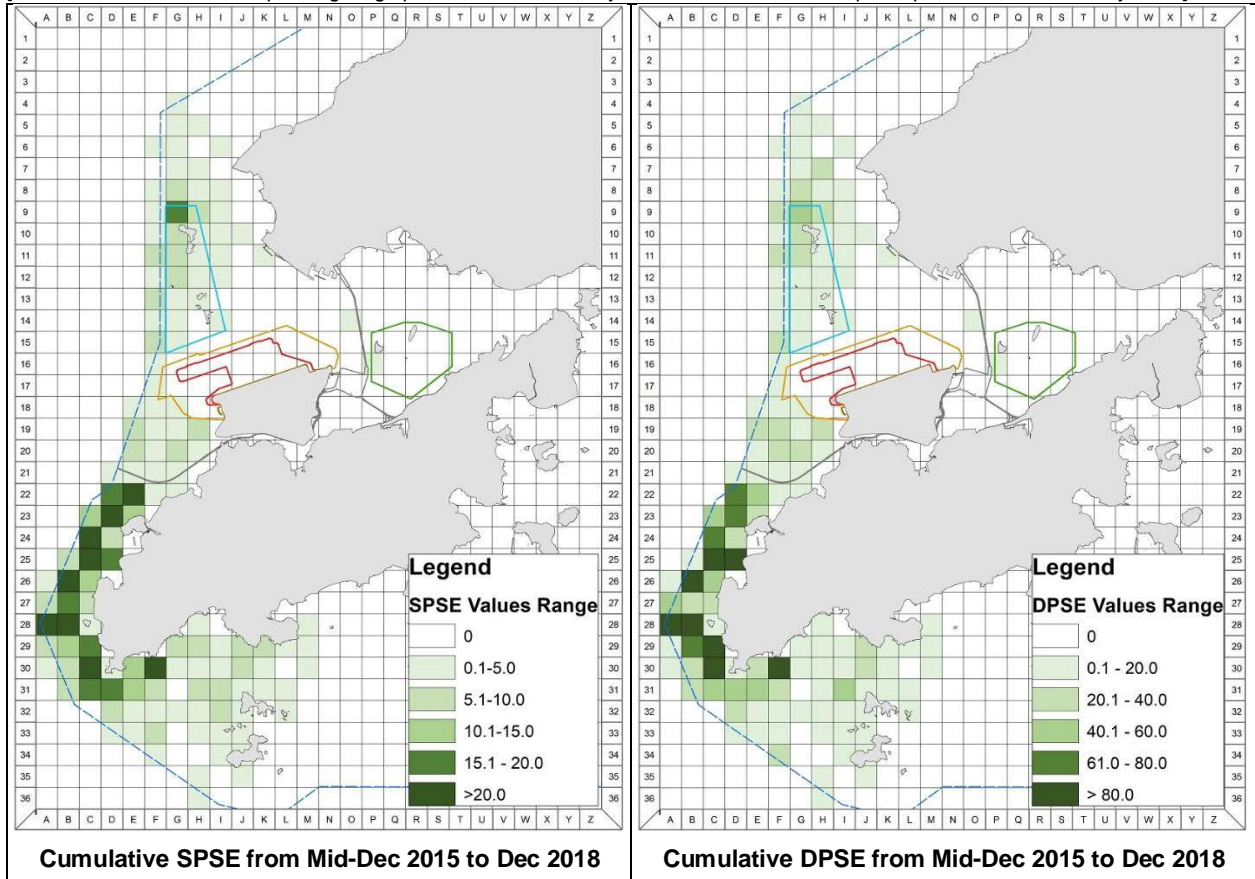
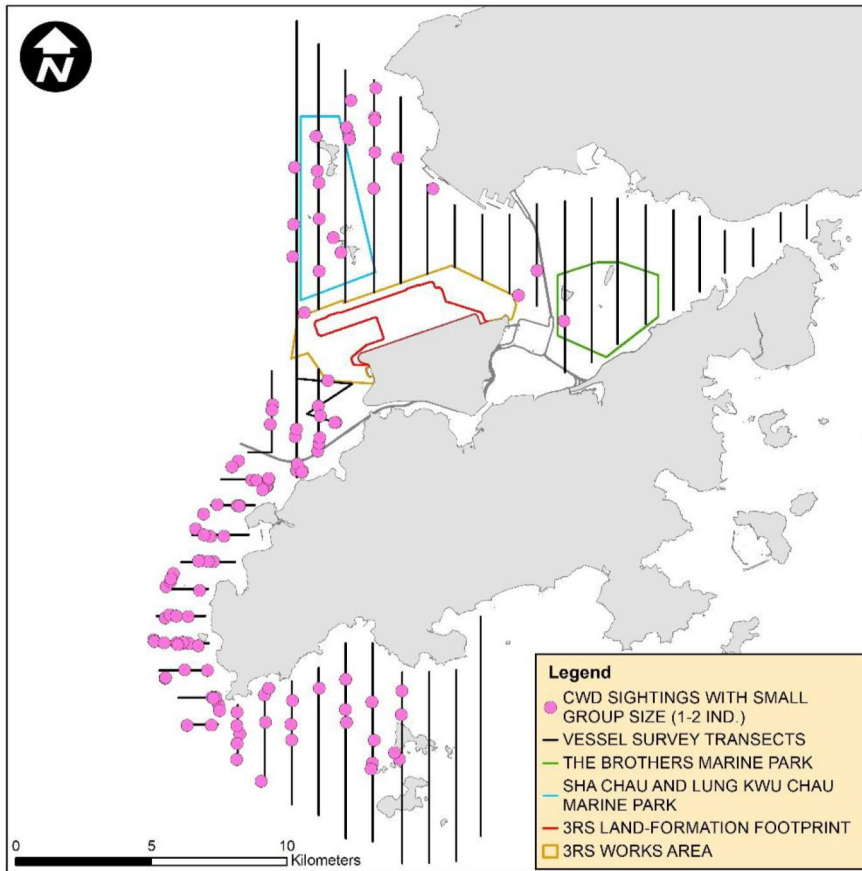


Figure 7: Sightings Distribution of Chinese White Dolphins with Different Group Sizes in 2018

(a) Small Group Size (1 to 2 dolphins)



(b) Medium Group Size (3 to 9 dolphins) and Large Group Size (10 or more dolphins)

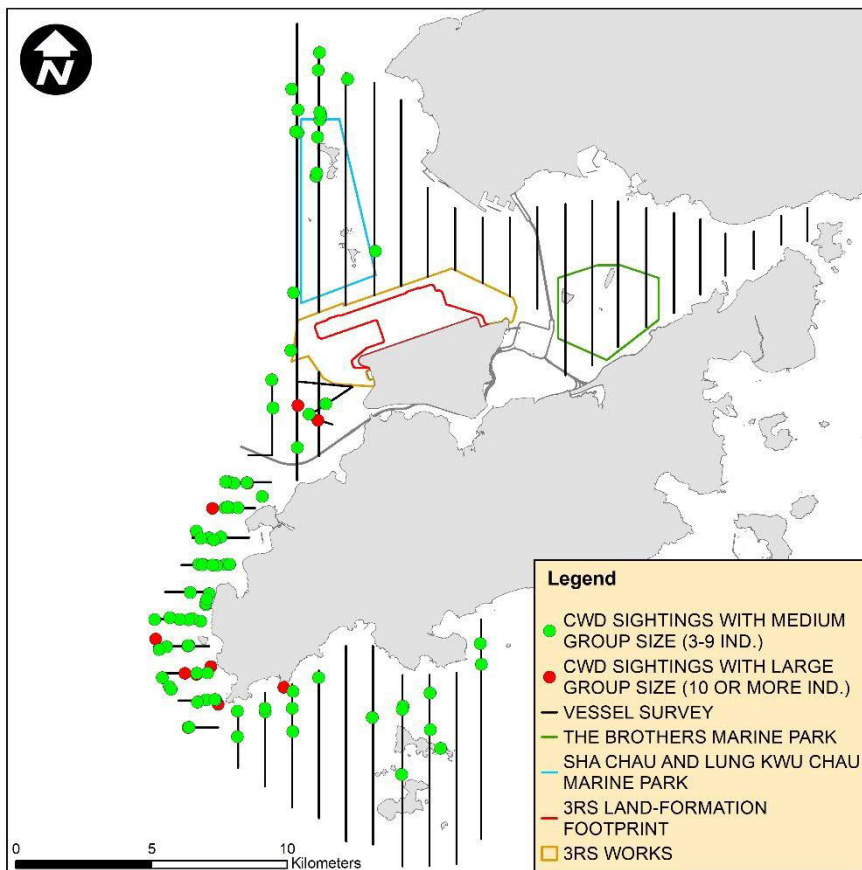




Figure 8: Sighting Locations of CWD Groups Engaged in Different Activities in 2018

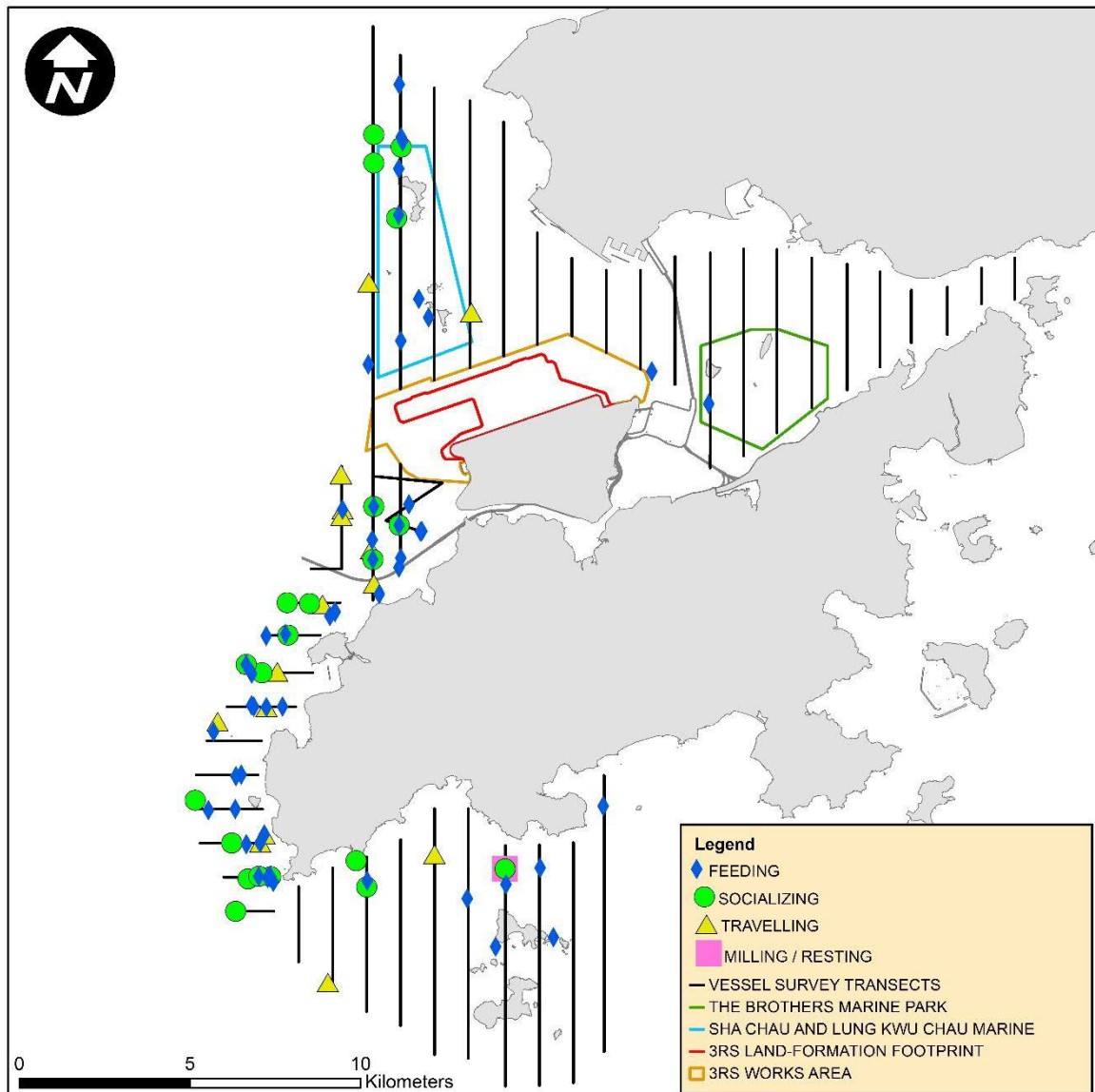


Figure 9: Sighting Locations of CWD Groups in Association with Fishing Boat in 2018

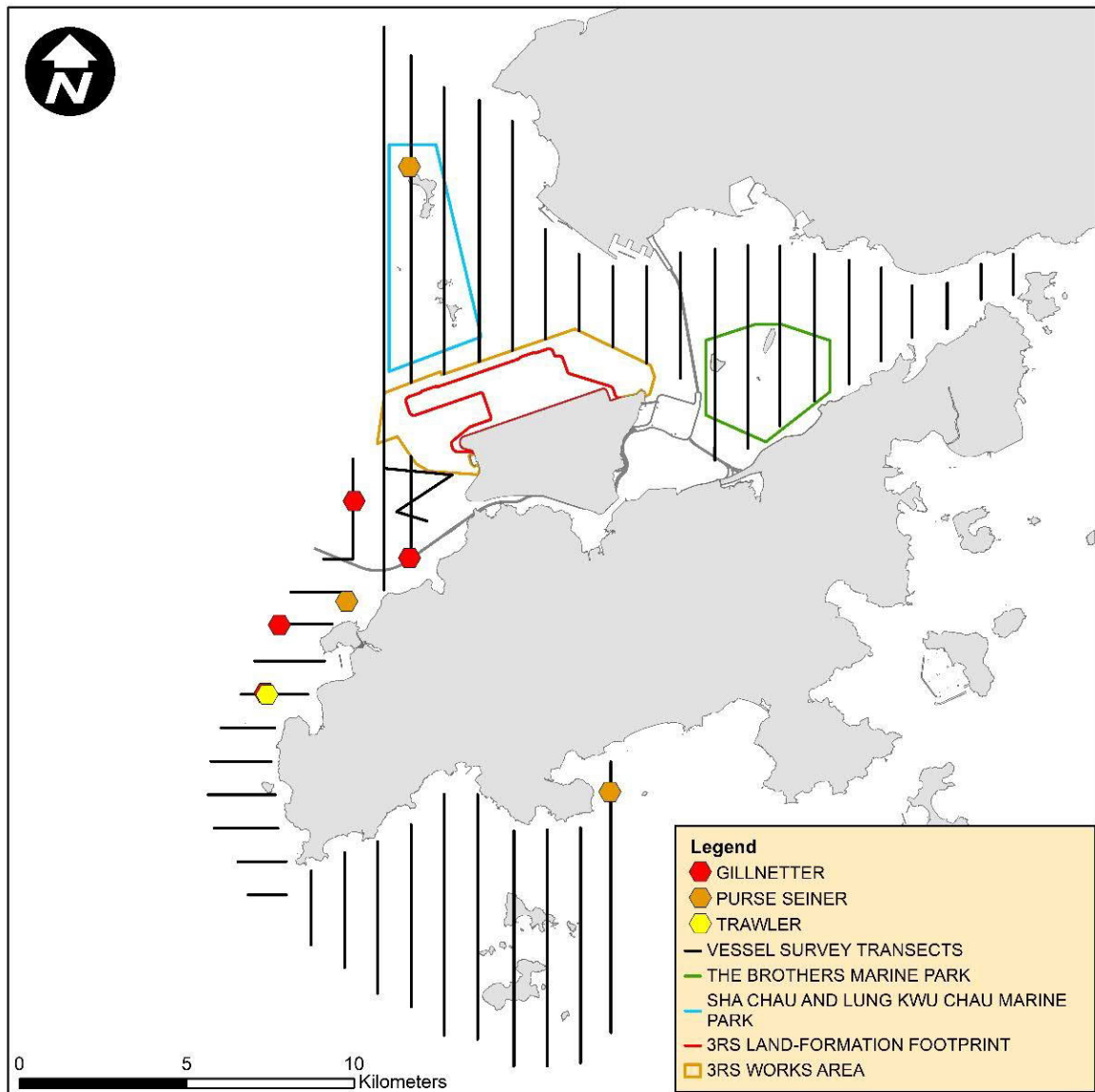
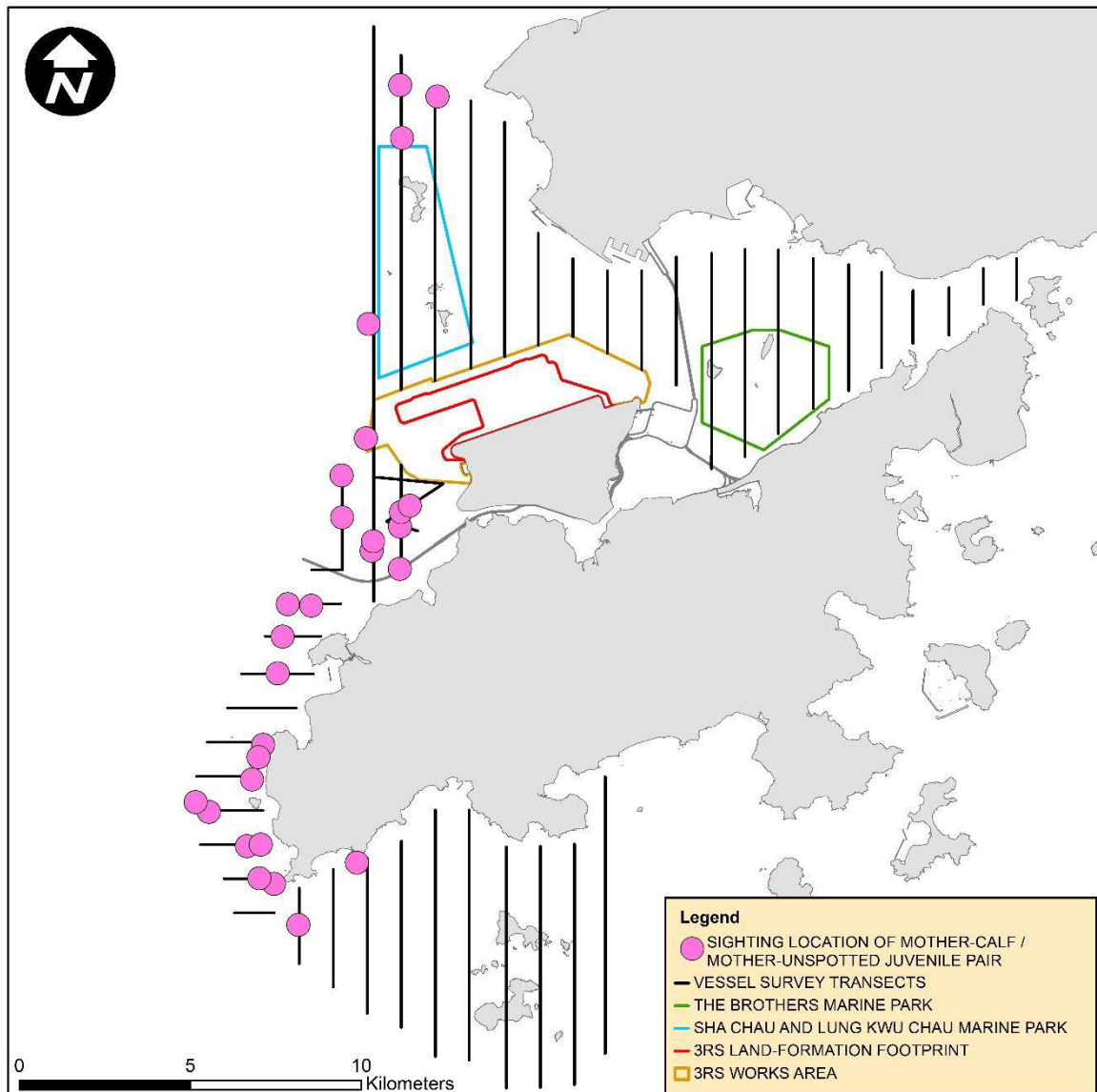
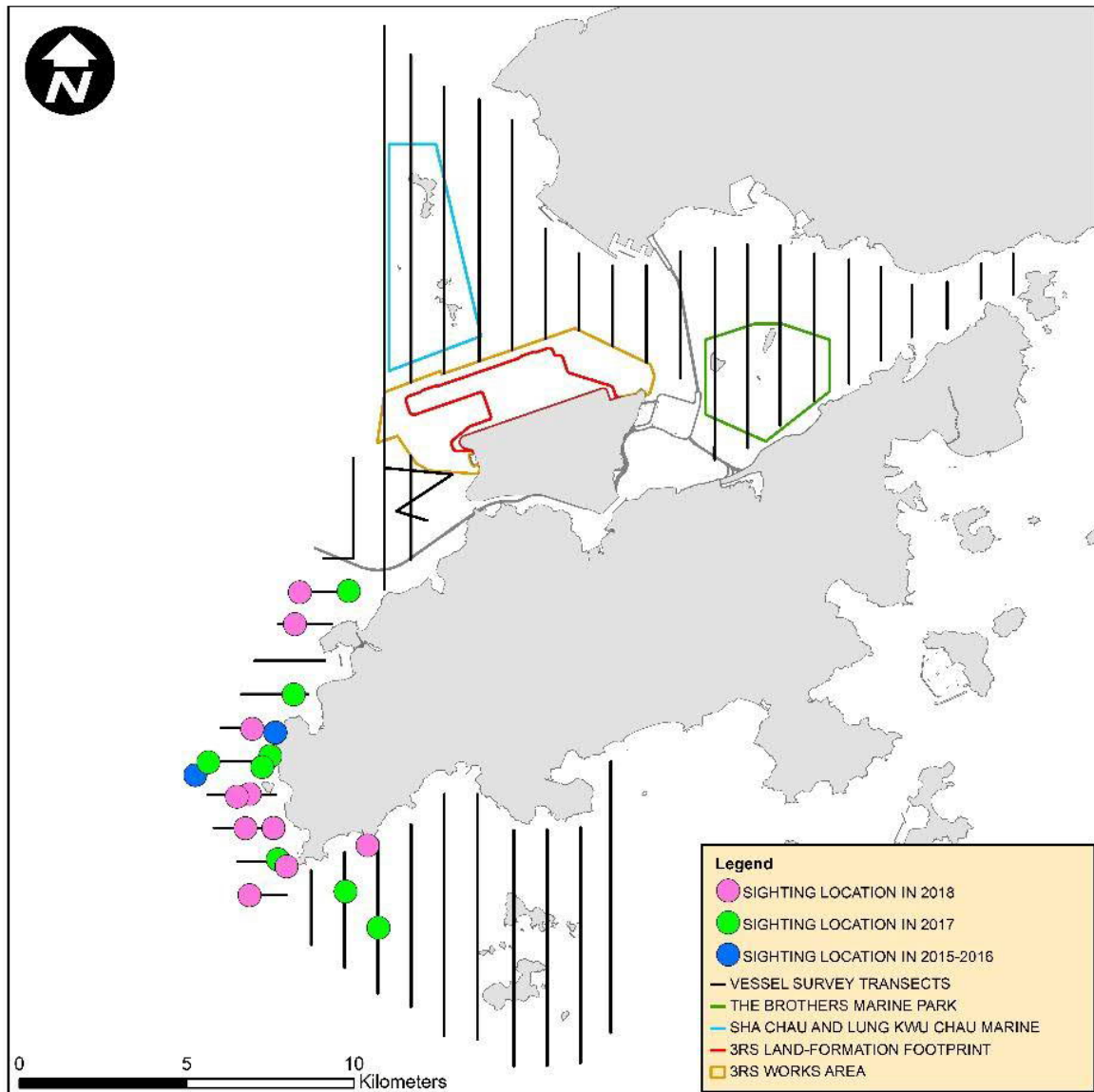


Figure 10: Sighting Locations of Mother-calf / Mother-unspotted Juvenile Pairs in 2018

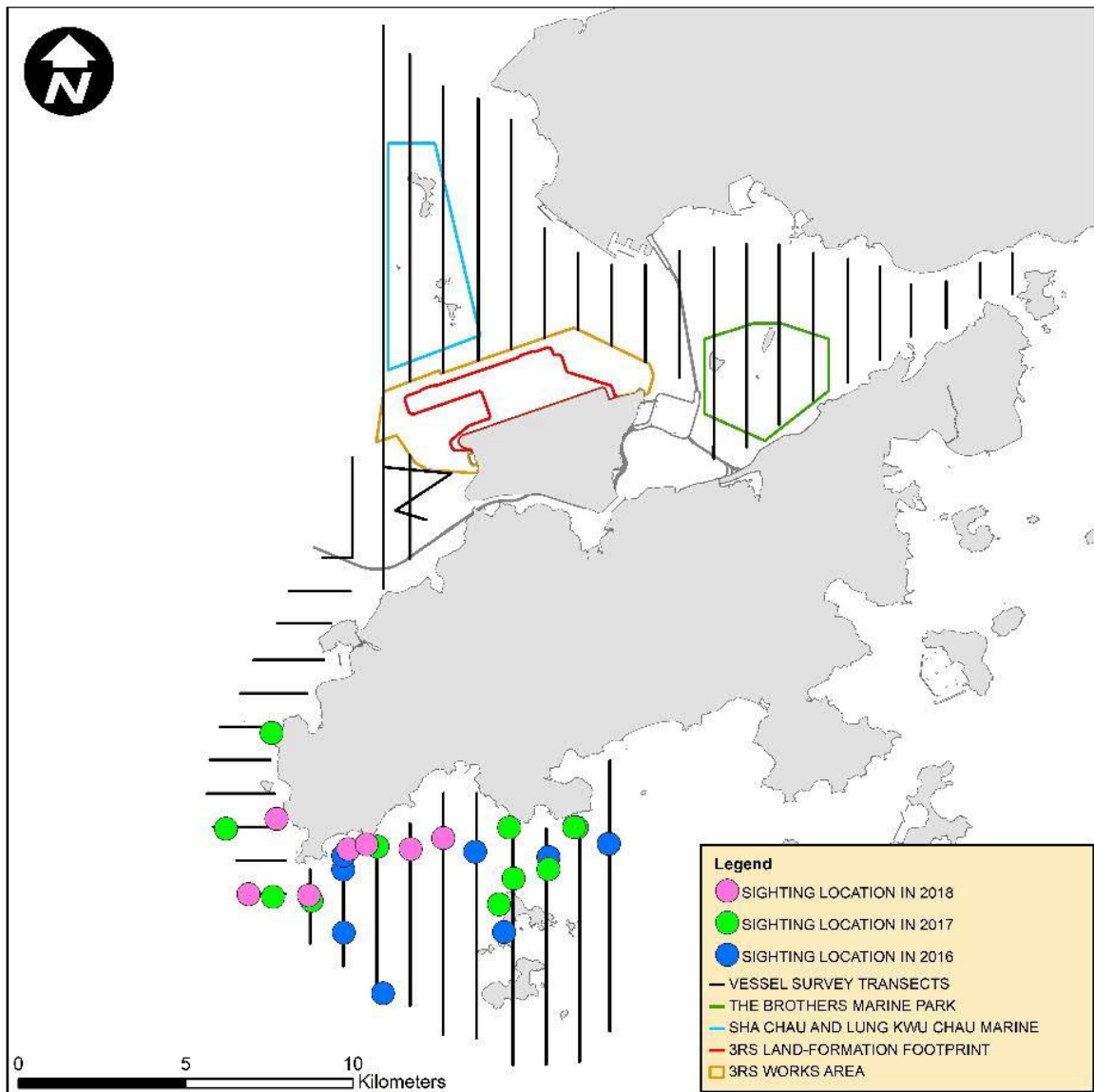


**Figure 11 (batch): Photo Identification – Re-sighting Locations**

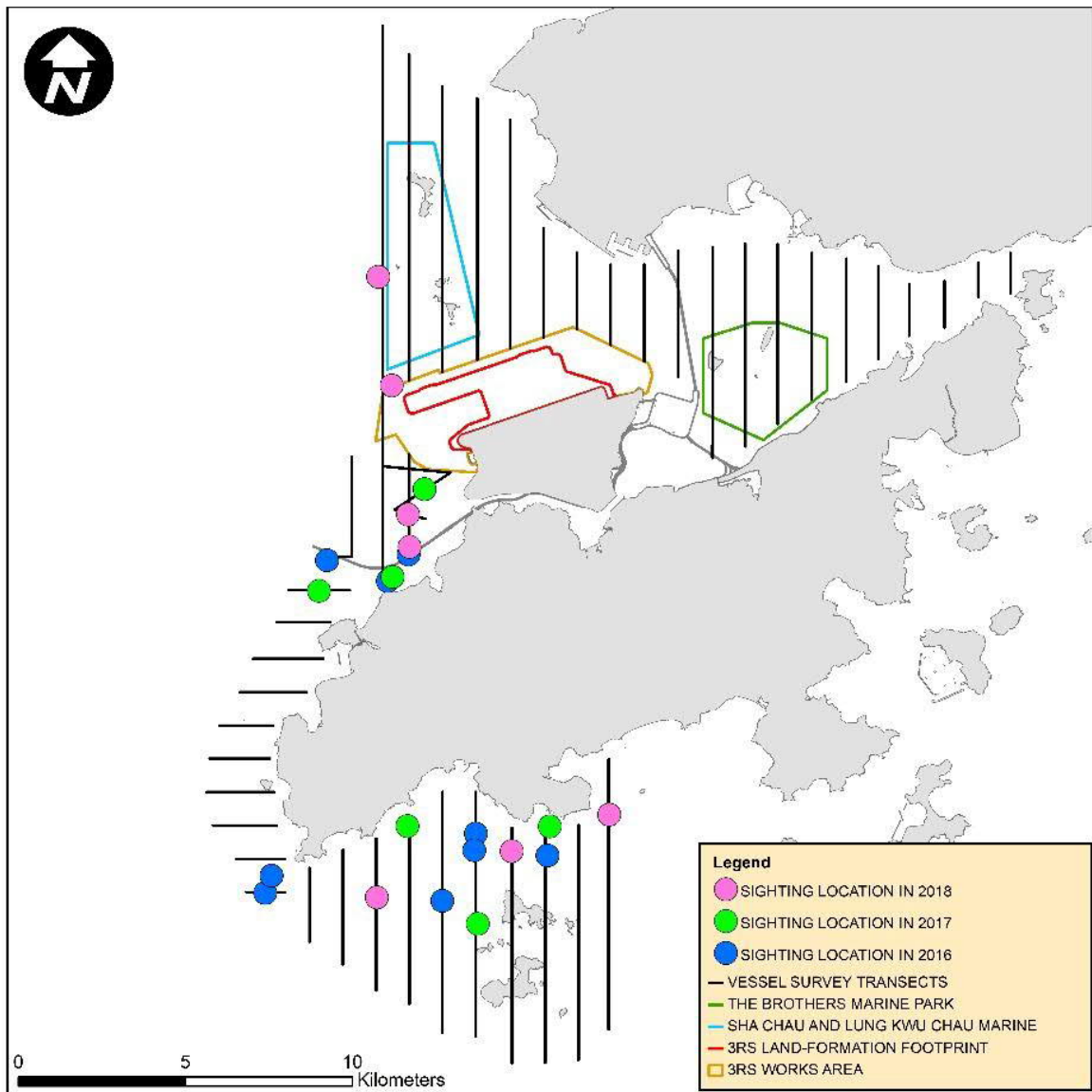
WLMM001 – the most frequently re-sighted animal in 2018



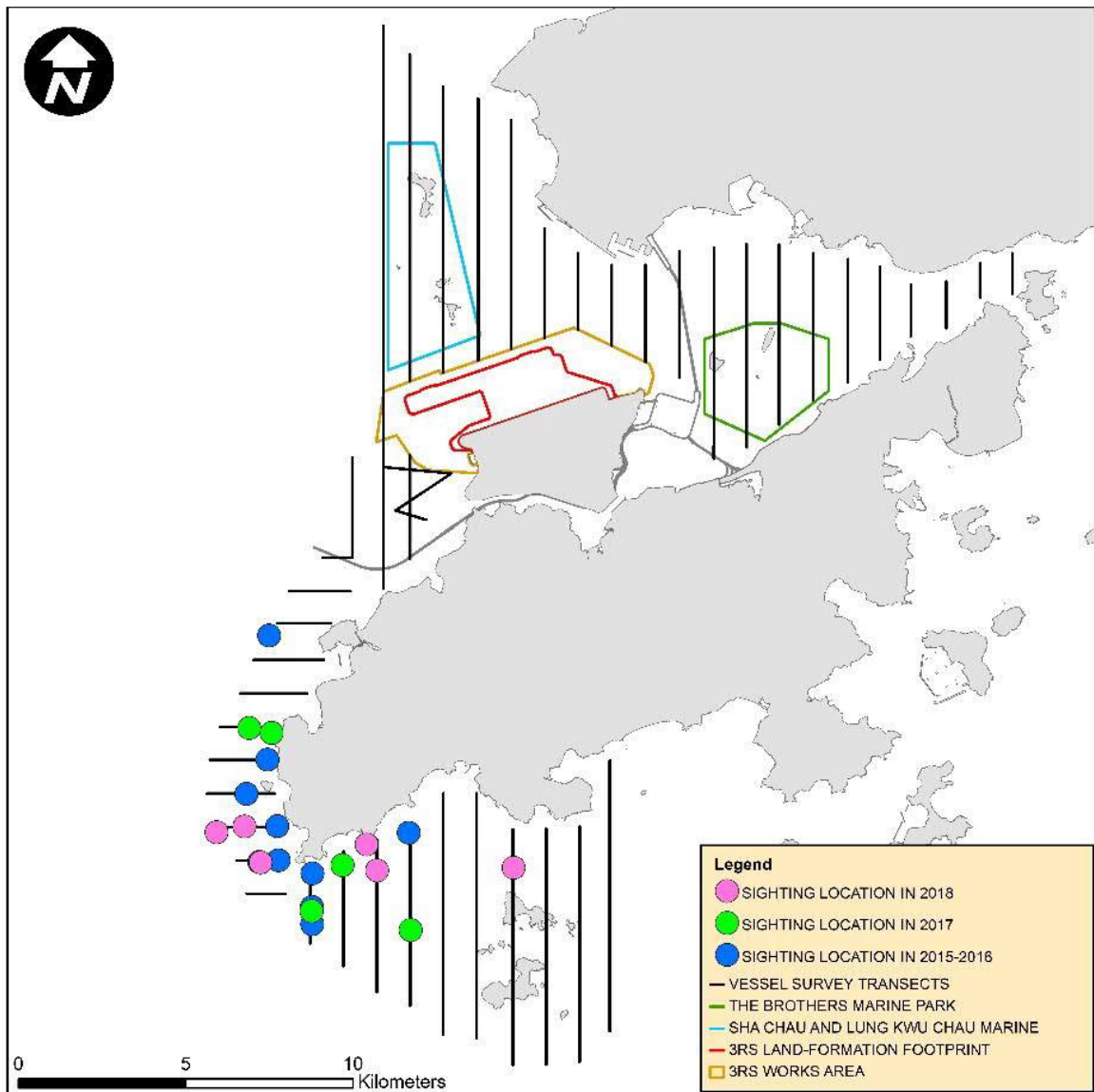
SLMM014 – the most frequently re-sighted animal since 2015



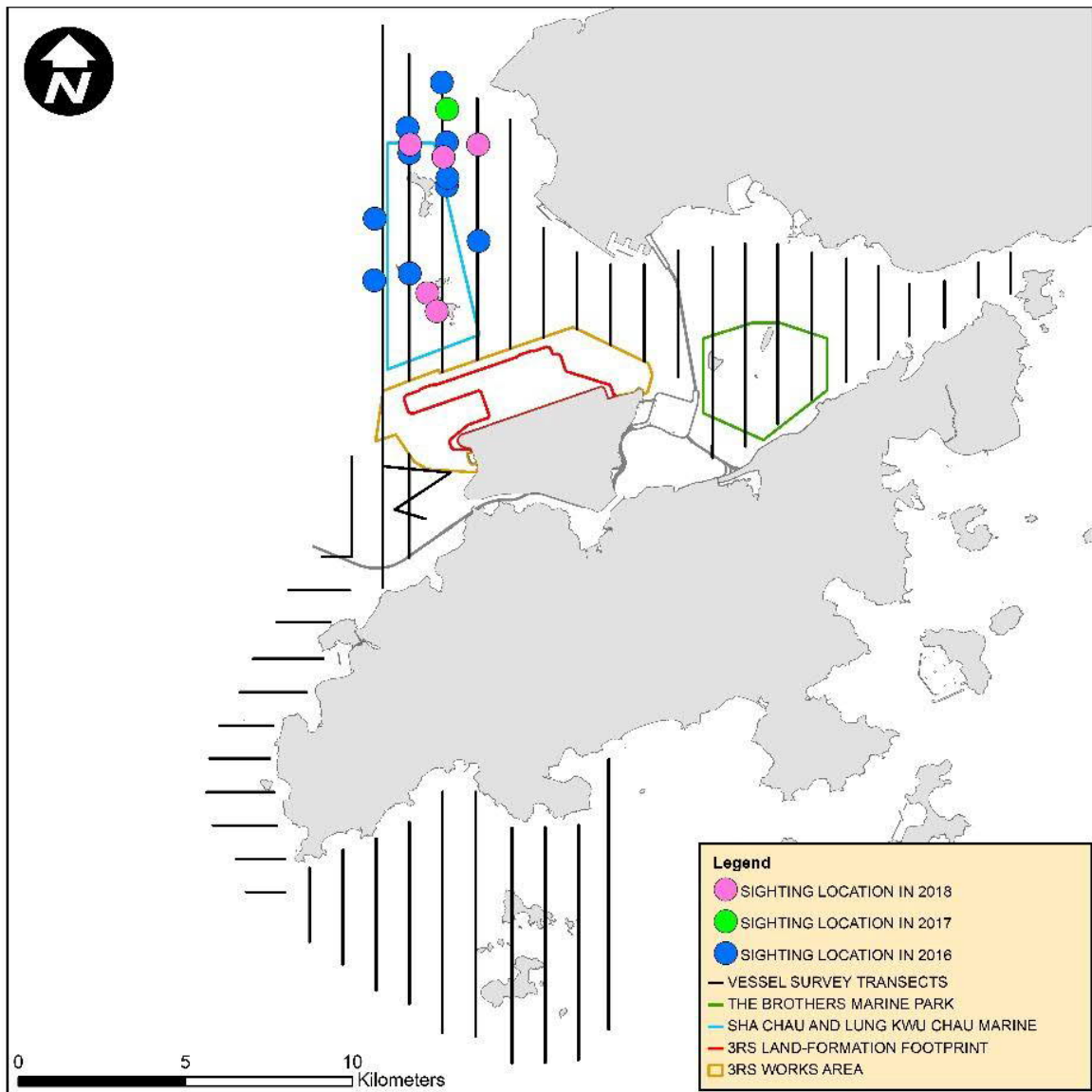
WLMM027 – the second most frequently re-sighted animal since 2015



SLMM010 – the third most frequently re-sighted animal since 2015

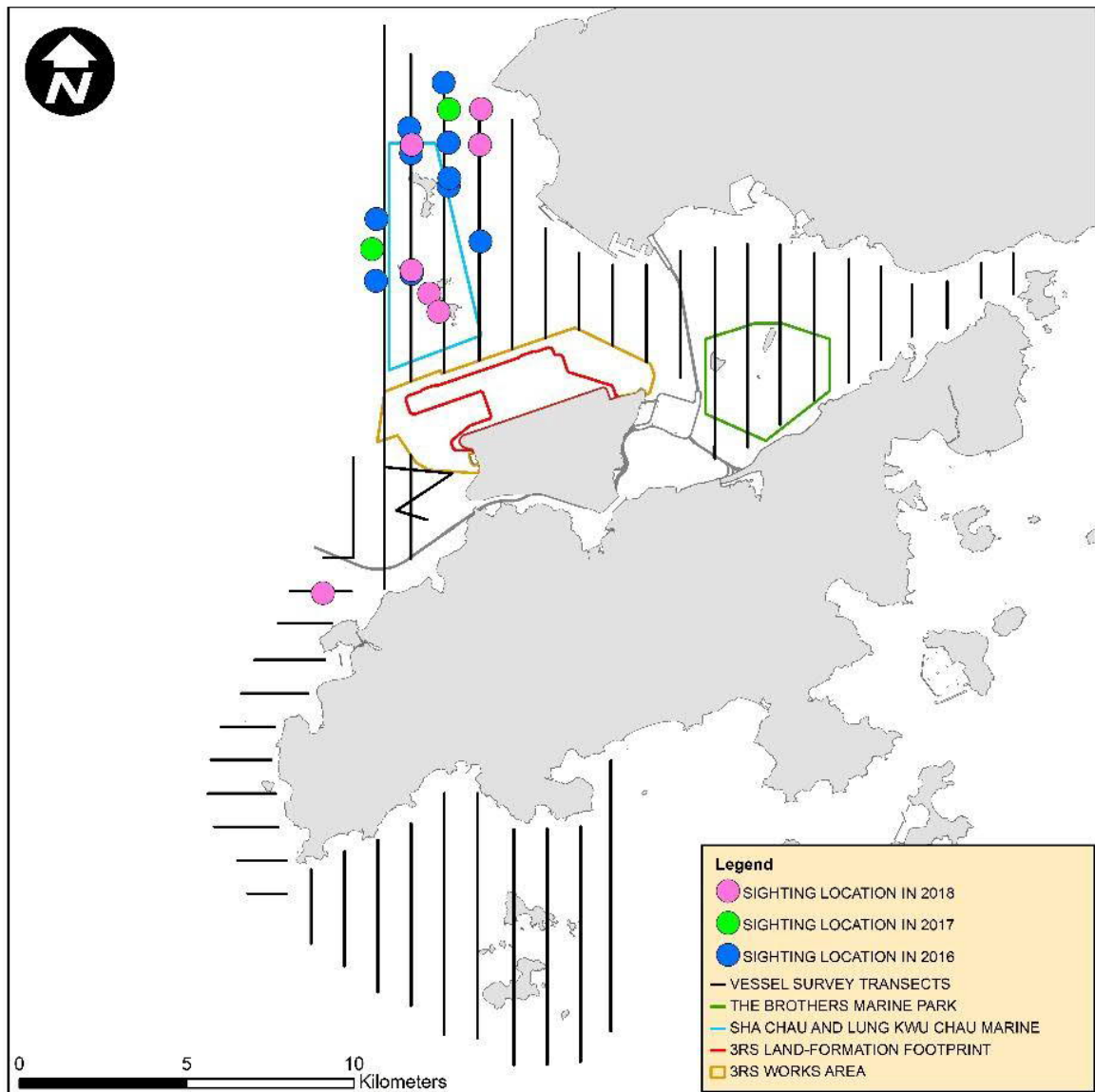


NLMM006 – the mother-and-spotted juvenile pair that re-frequent Hong Kong waters in 2018

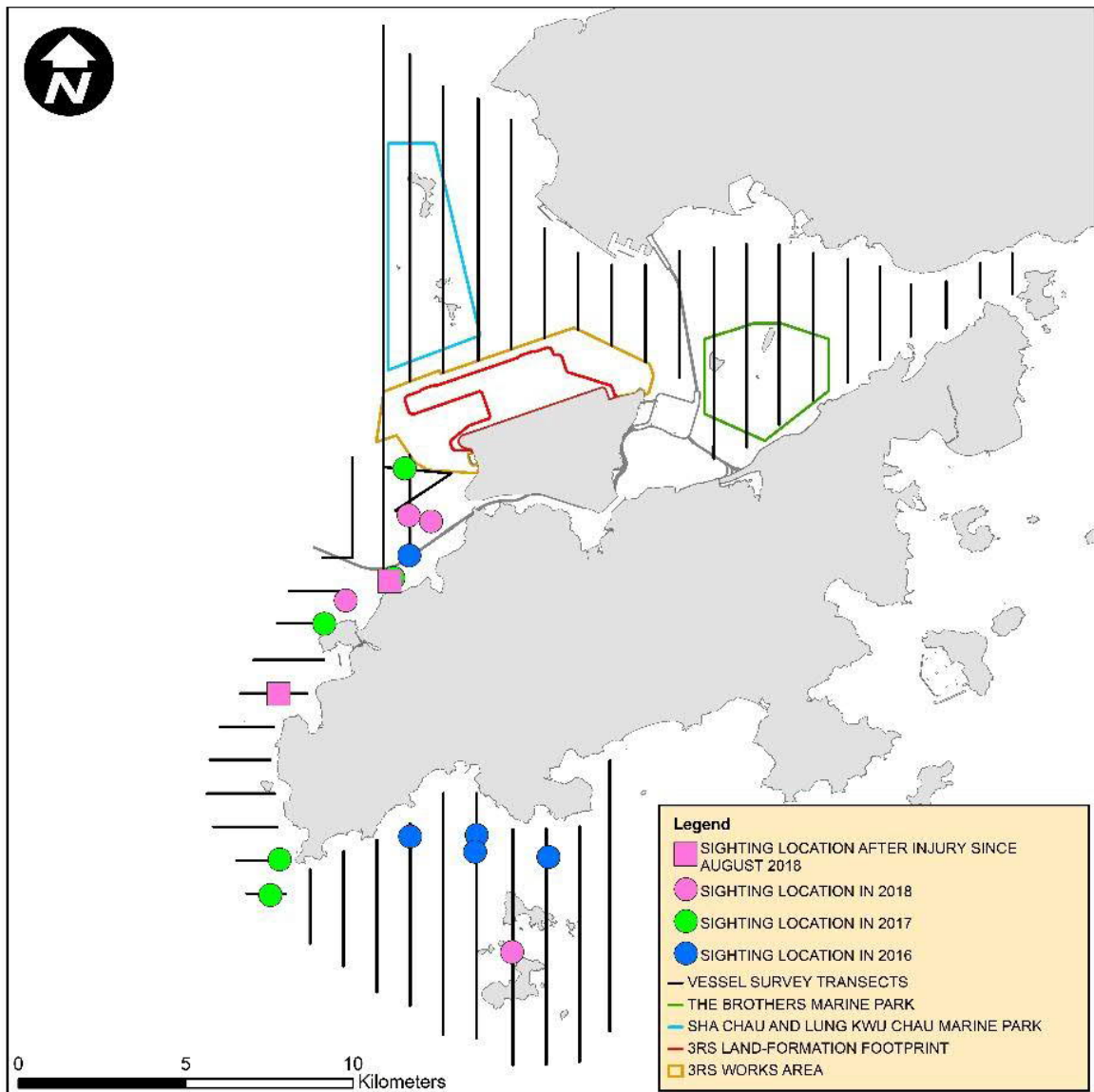




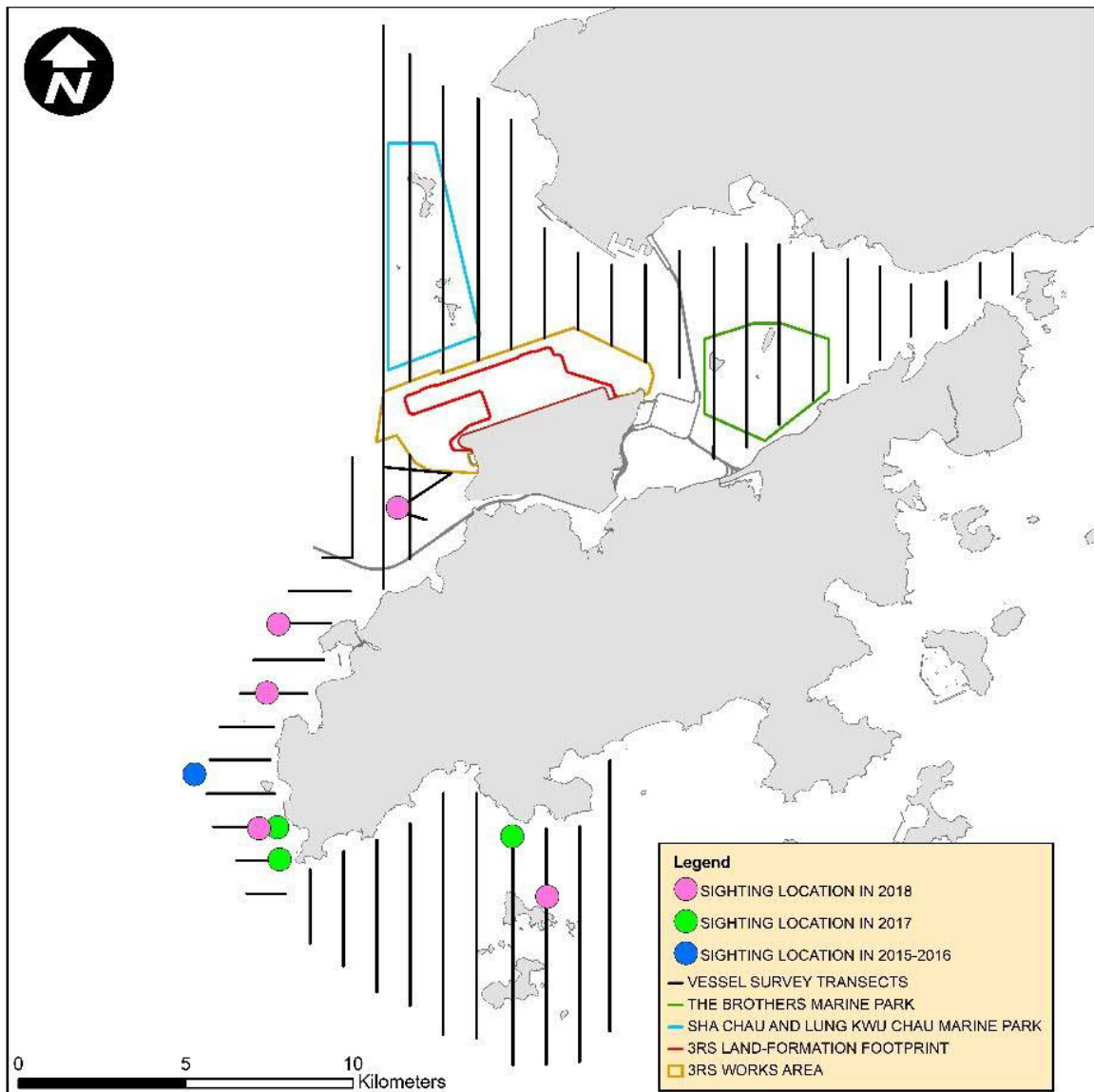
NLMM013 – the mother-and-spotted juvenile pair that re-frequent Hong Kong waters in 2018



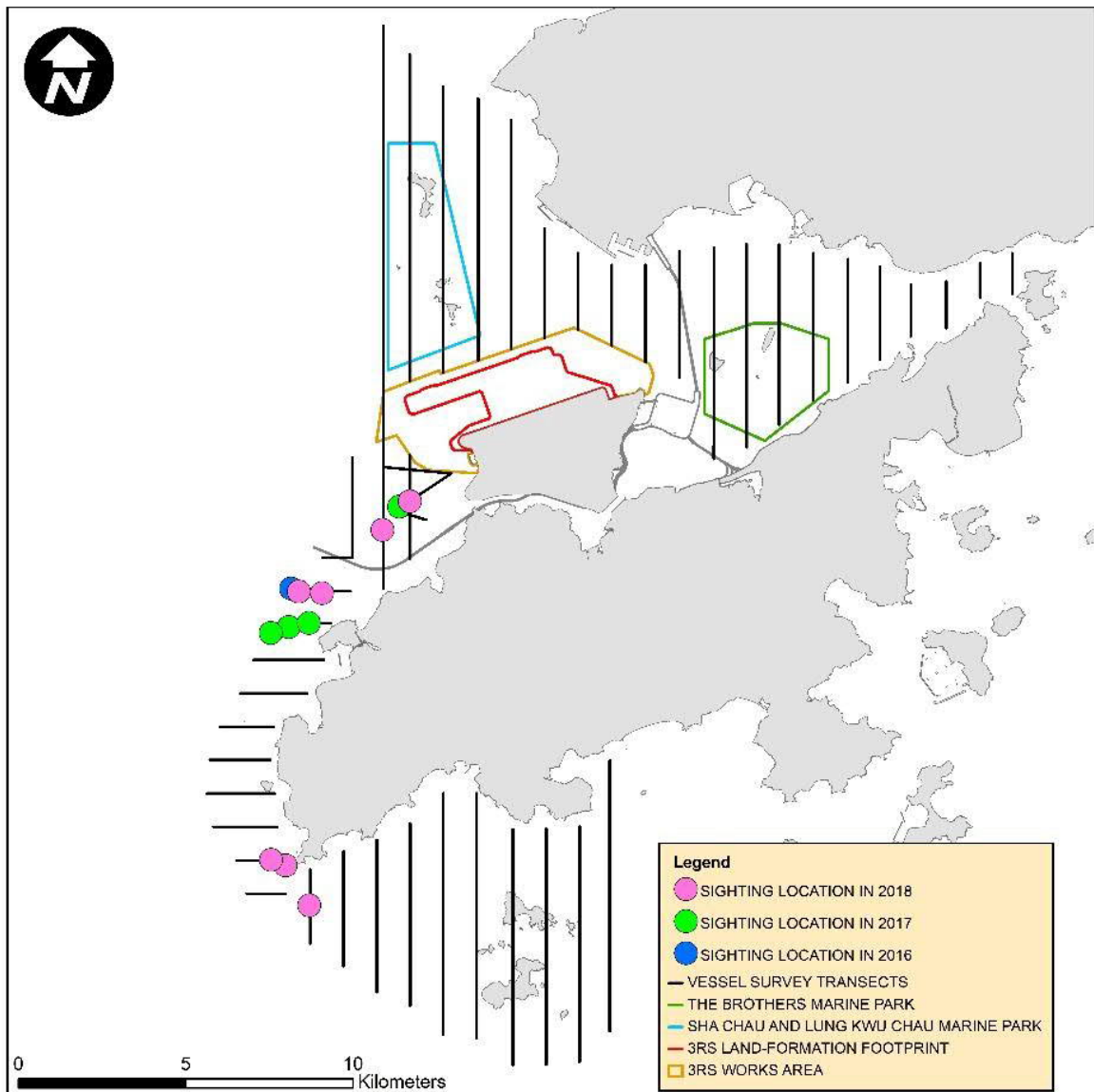
SLMM028 – the severely injured dolphin under spotlight



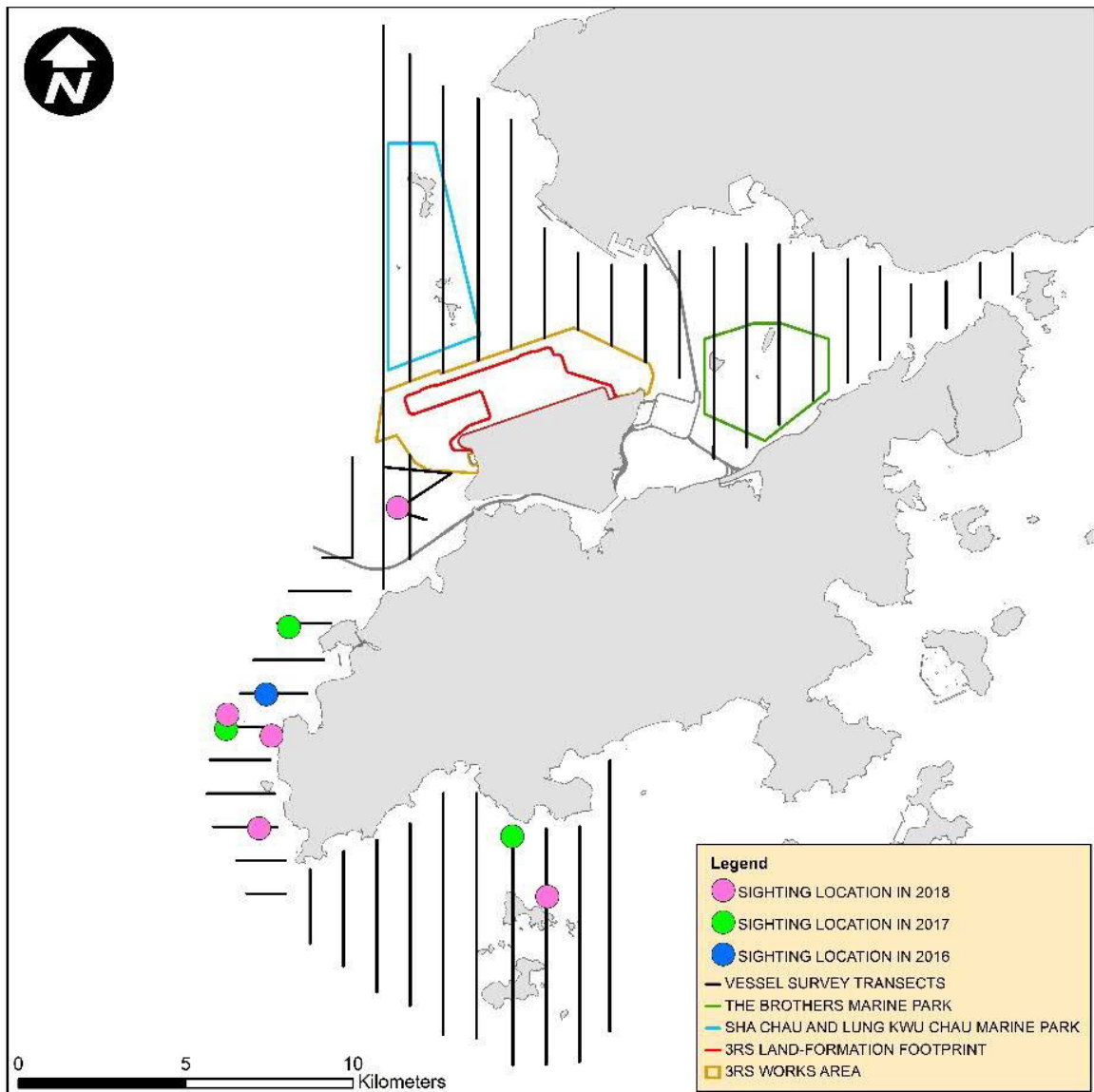
WLMM004 – dolphin which shows cross-area movement in NWL, WL and SWL



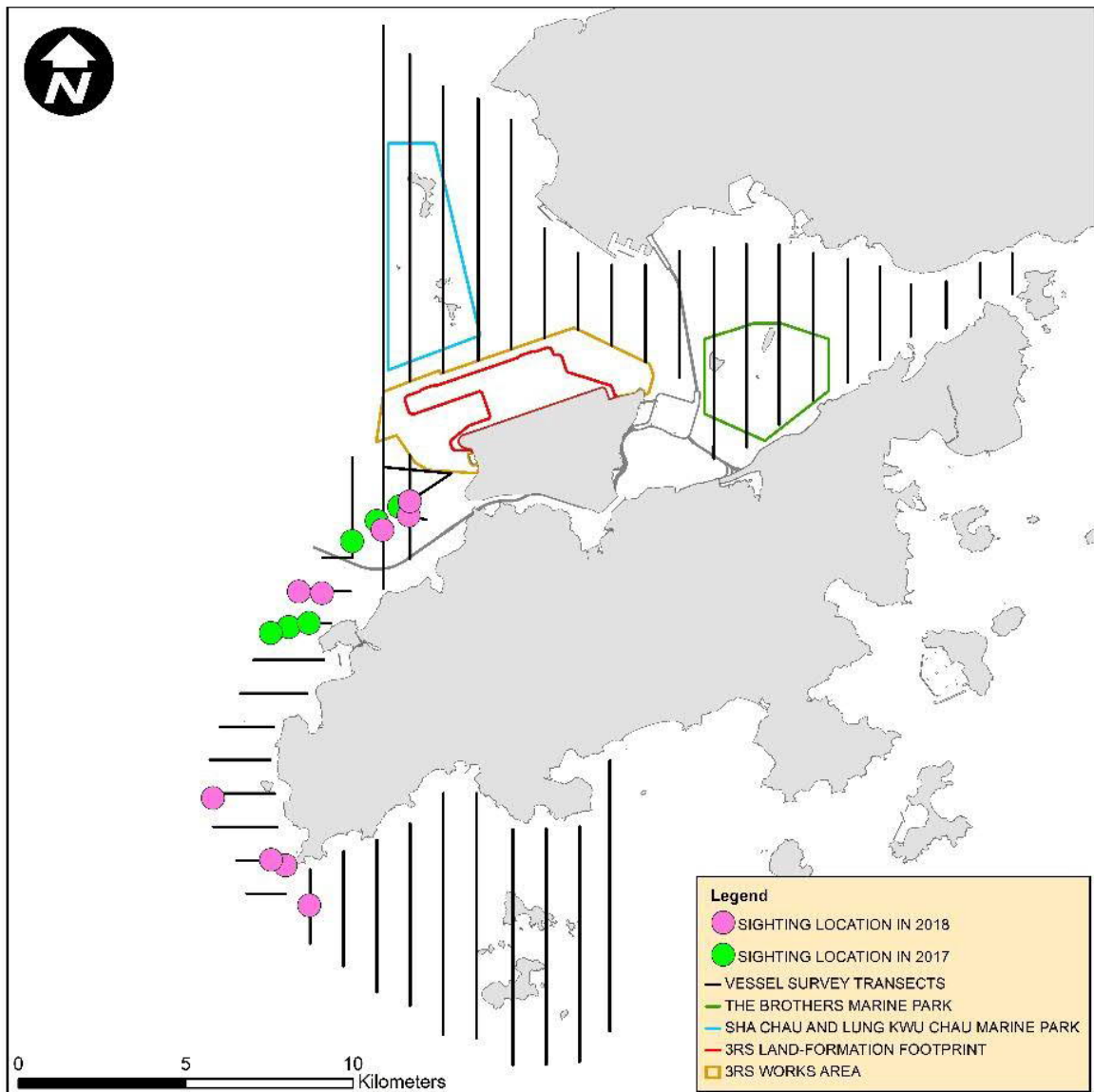
WLMM060 – dolphin which shows cross-area movement in NWL, WL and SWL



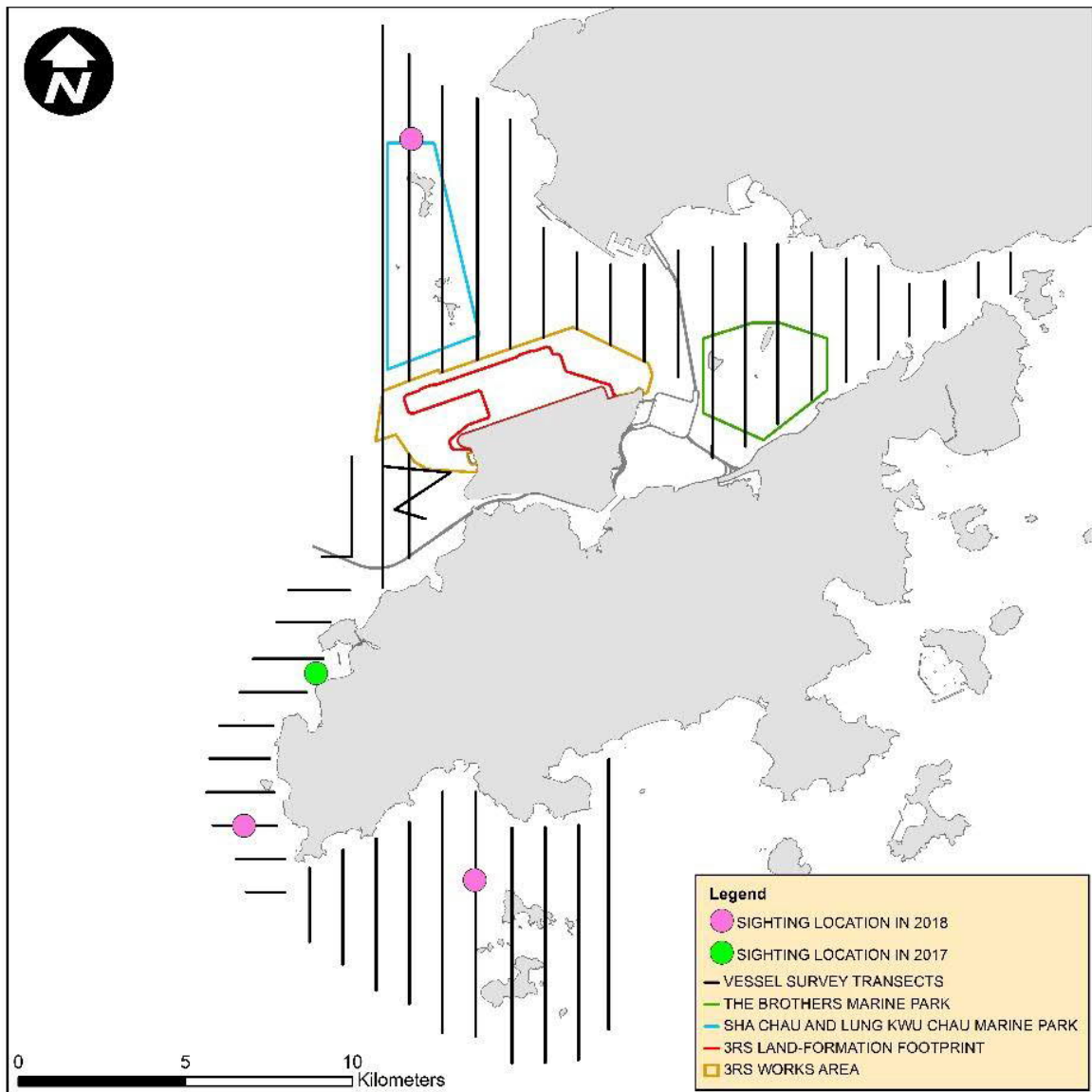
WLMM063 – dolphin which shows cross-area movement in NWL, WL and SWL



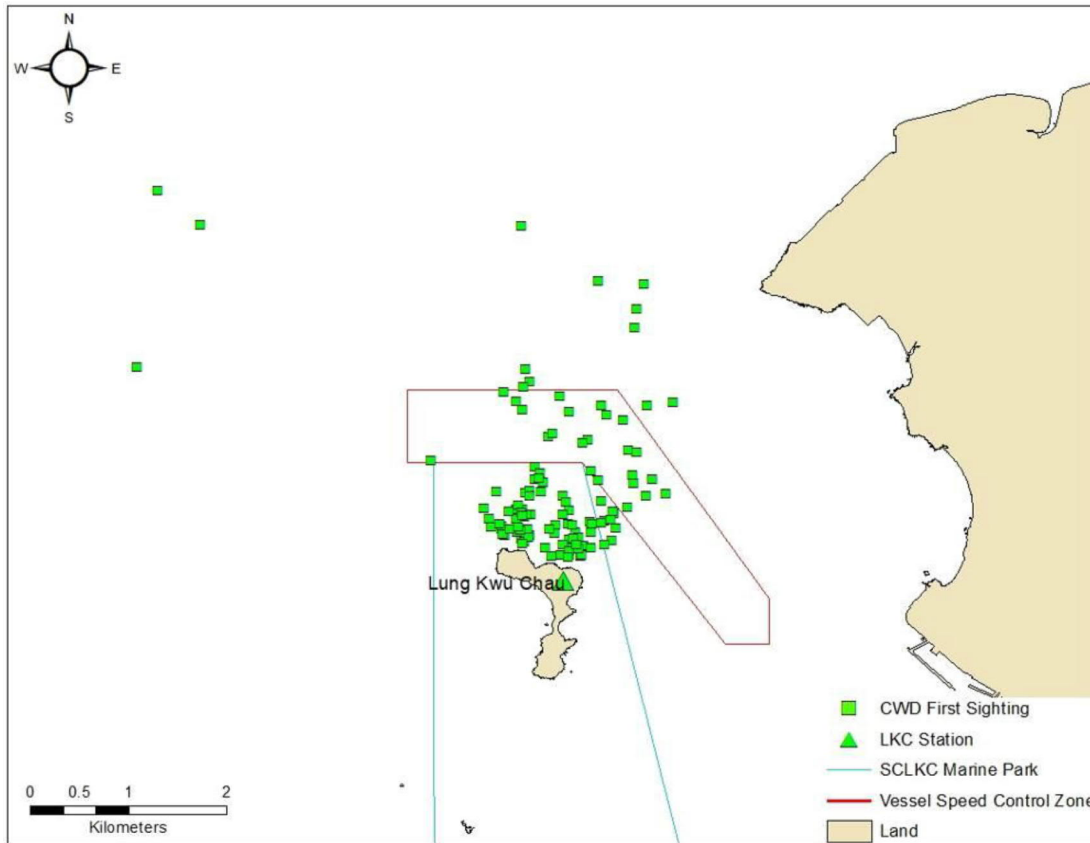
WLMM071 – dolphin which shows cross-area movement in NWL, WL and SWL



WLMM080 – dolphin which shows cross-area movement in NWL, WL and SWL

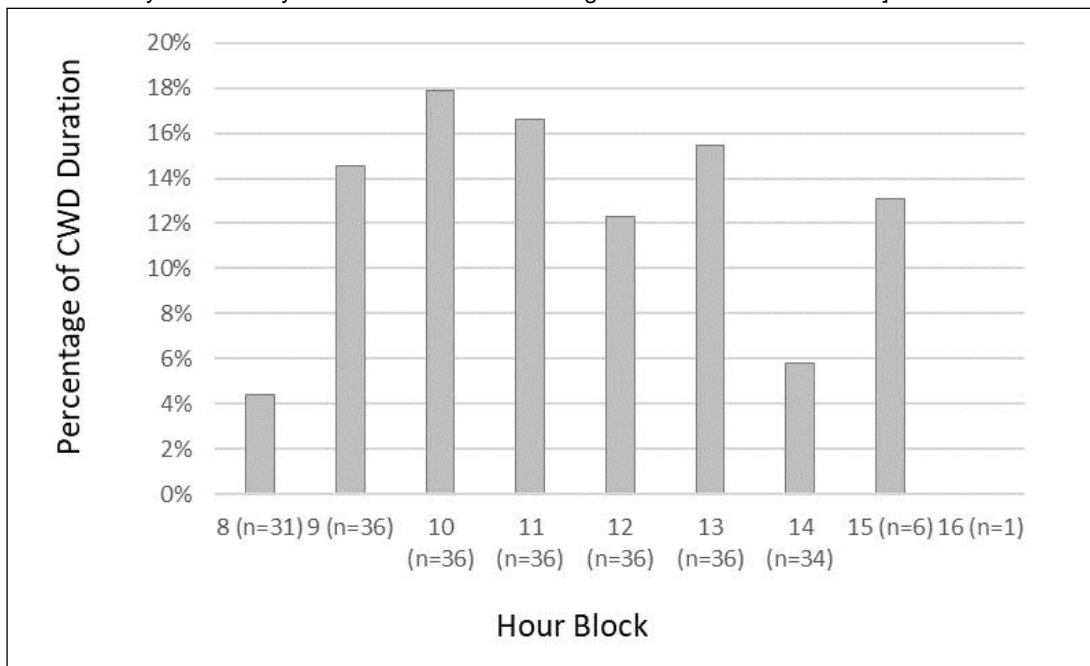


**Figure 12: Plots of First Sightings of All CWD Groups (prior to filtering out short-track data) Obtained from Land-based Station at Lung Kwu Chau in 2018**



**Figure 13: Total Duration of CWD Groups Tracked (per total effort time) from Lung Kwu Chau (prior to filtering short-track data) Based on Time of Day in 2018**

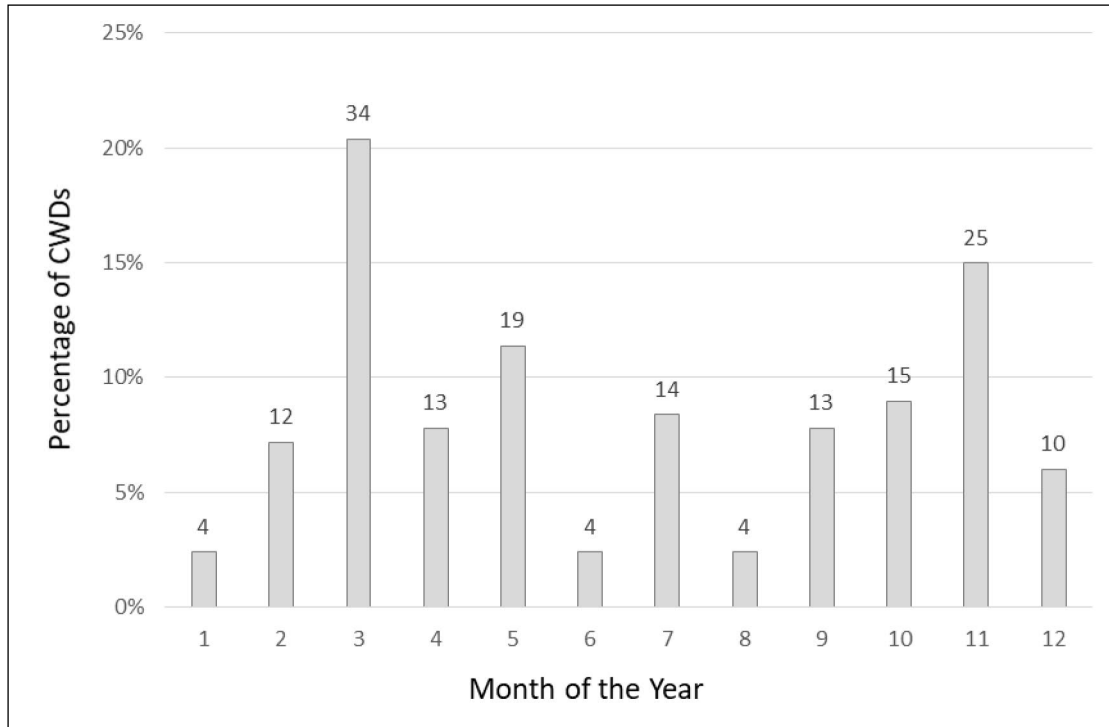
[Time indicates the hour block during which CWD groups were tracked. The "n" in parentheses represents the number of days that survey effort was carried out during the associated hour block.]



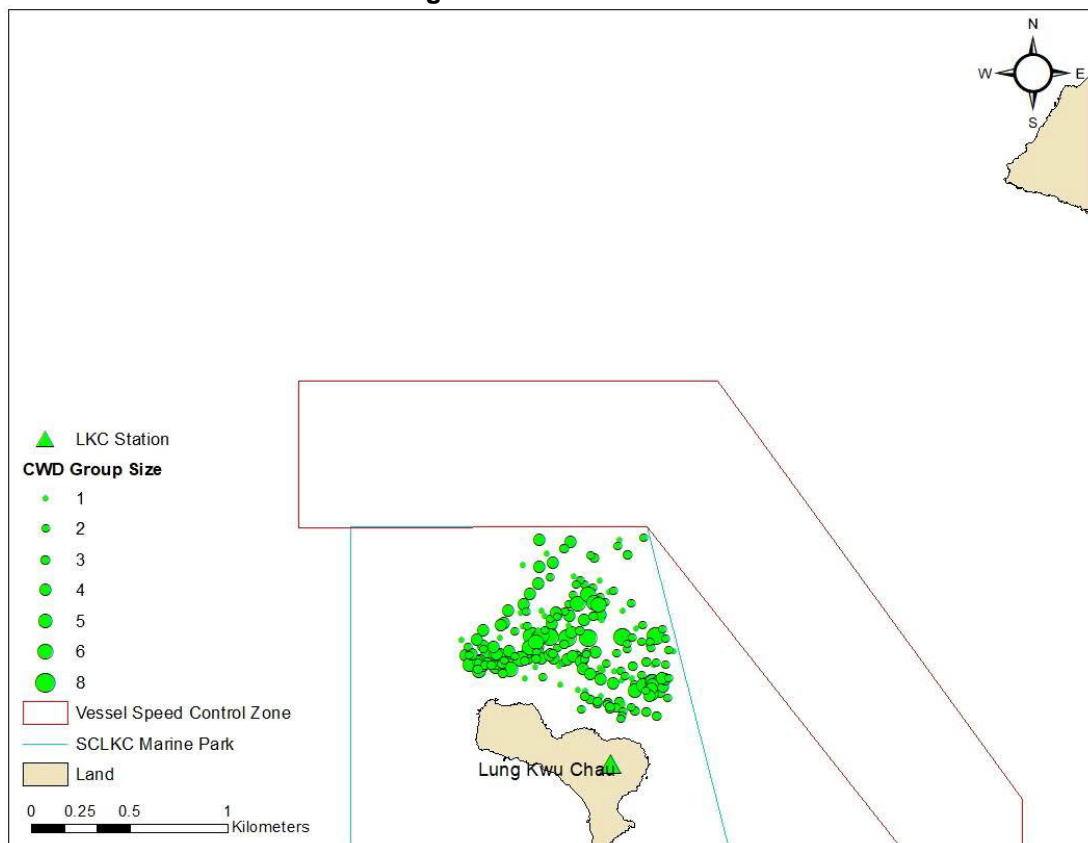


**Figure 14: CWD Groups Sighted and Tracked from Lung Kwu Chau Based on Month of the Year in 2018**

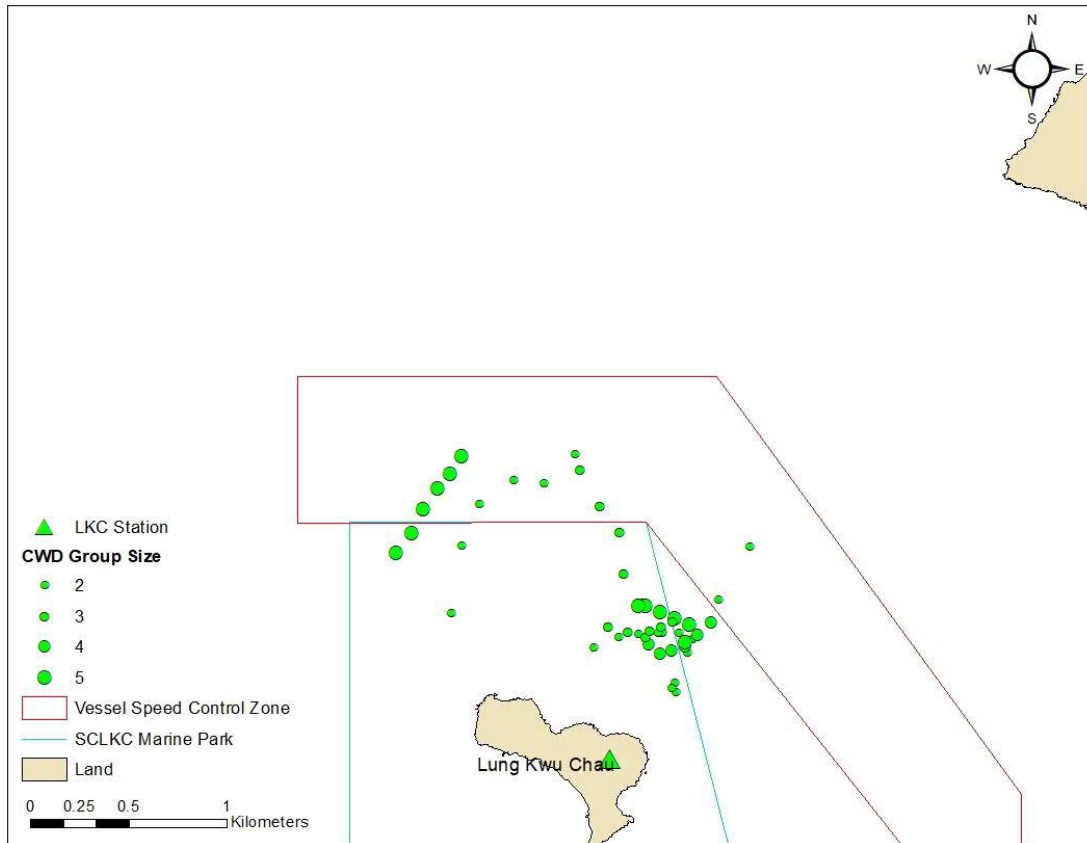
[The numbers above the bars indicate the total number of CWD groups tracked per study period (prior to filtering data)]



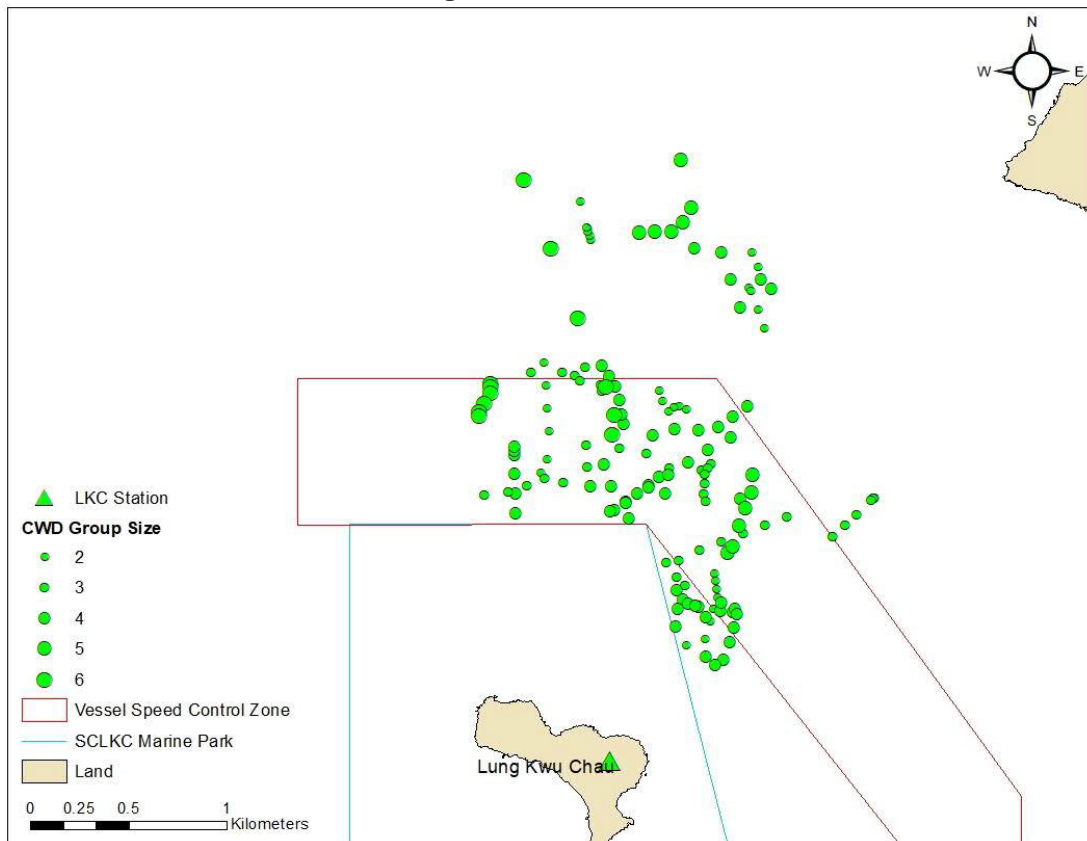
**Figure 15: Plots of CWD Short-track Positions (Standardized Segments) relative to Group Size tracked within Sha Chau and Lung Kwu Chau Marine Park in 2018**



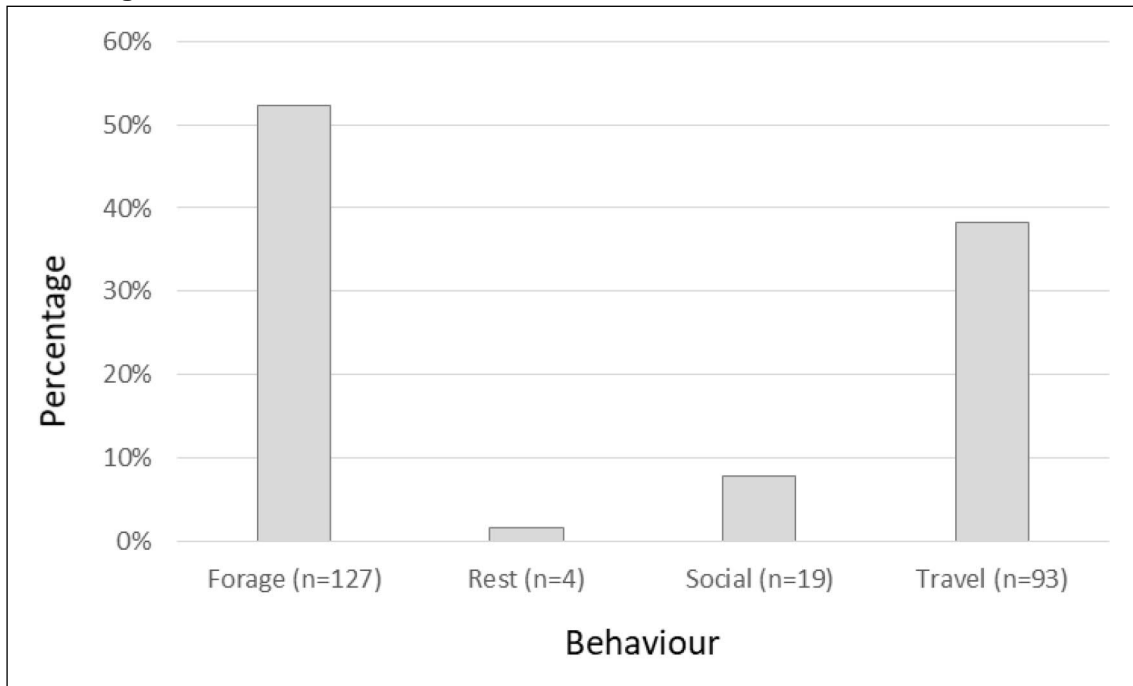
**Figure 16: Plots of CWD Short-track Positions (Standardized Segments) relative to Group Size crossing the boundary of Sha Chau and Lung Kwu Chau Marine Park in 2018**



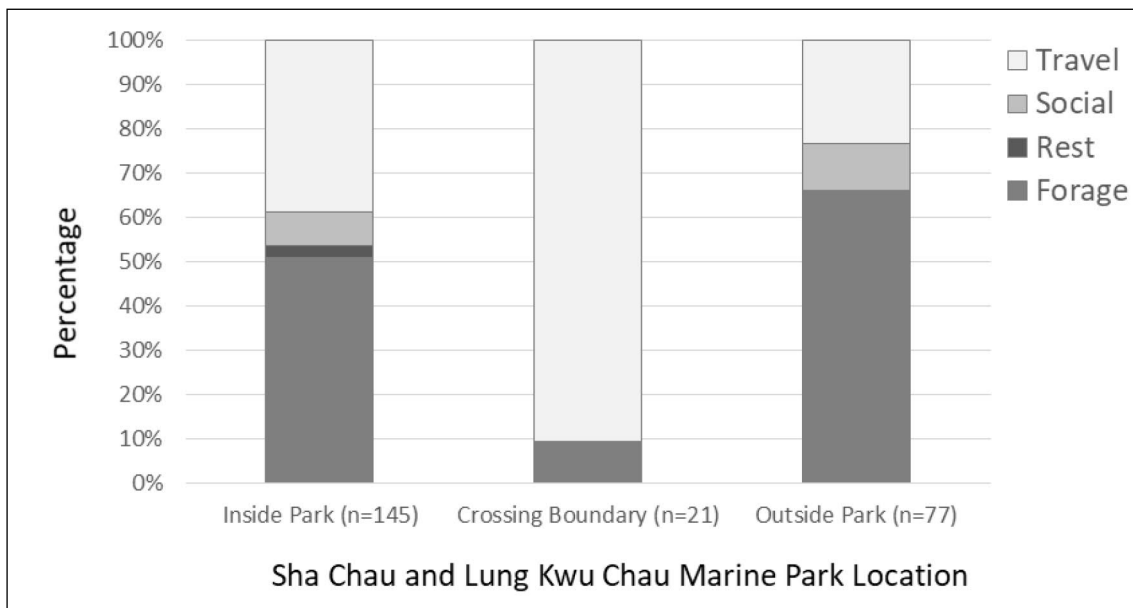
**Figure 17: Plots of CWD Short-track Positions (Standardized Segments) relative to Group Size tracked outside Sha Chau and Lung Kwu Chau Marine Park in 2018**



**Figure 18: Percentages of CWD Behavioural States, excluding Unknown Category, recorded from Lung Kwu Chau in 2018**



**Figure 19: Stacked bar graph showing percentages of CWD Behavioural States, excluding Unknown Category, relative to the Sha Chau and Lung Kwu Chau Marine Park Location, recorded from Lung Kwu Chau in 2018**



**Figure 20: Plots of All Vessel Positions and All CWD Positions (prior to filtering out short-track data) obtained from Lung Kwu Chau in 2018**

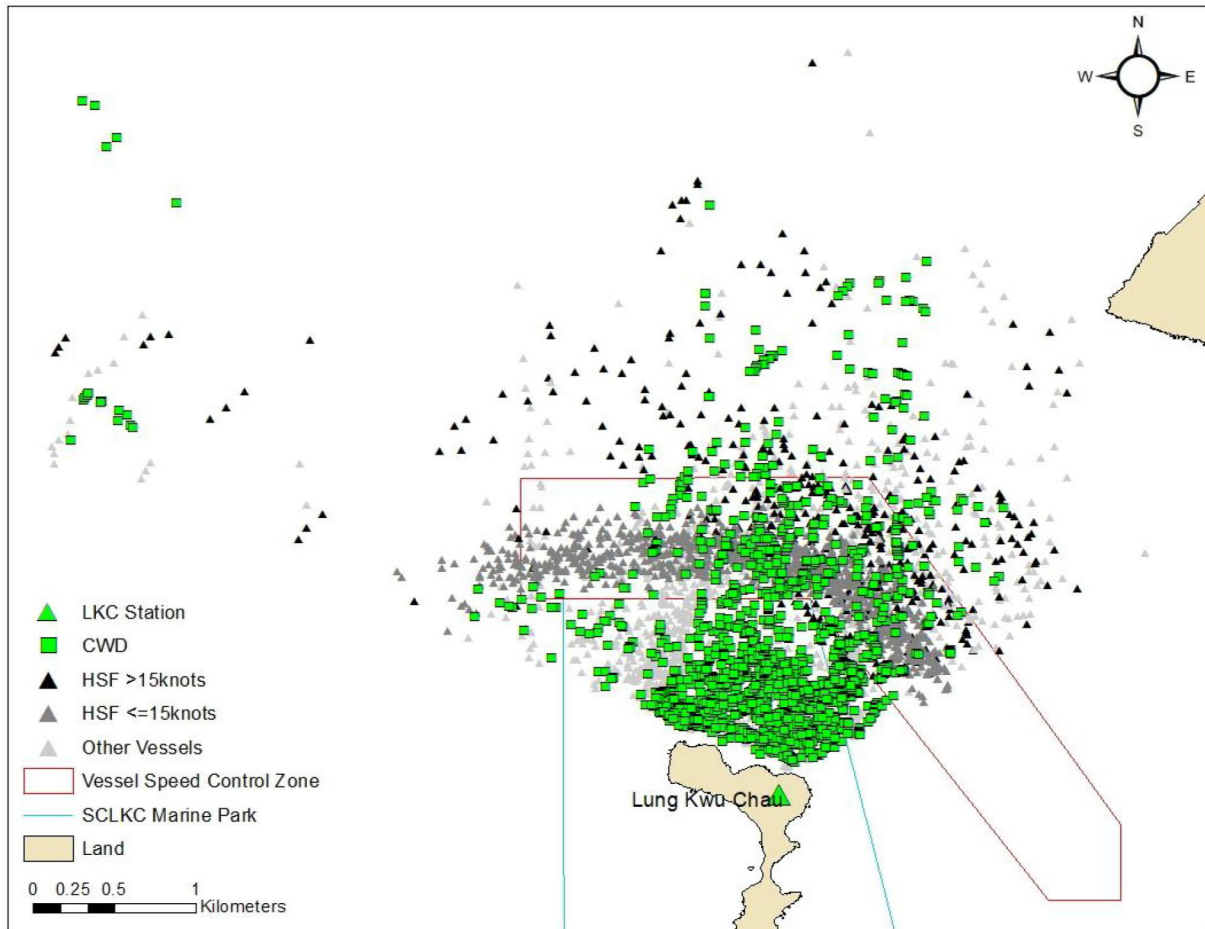
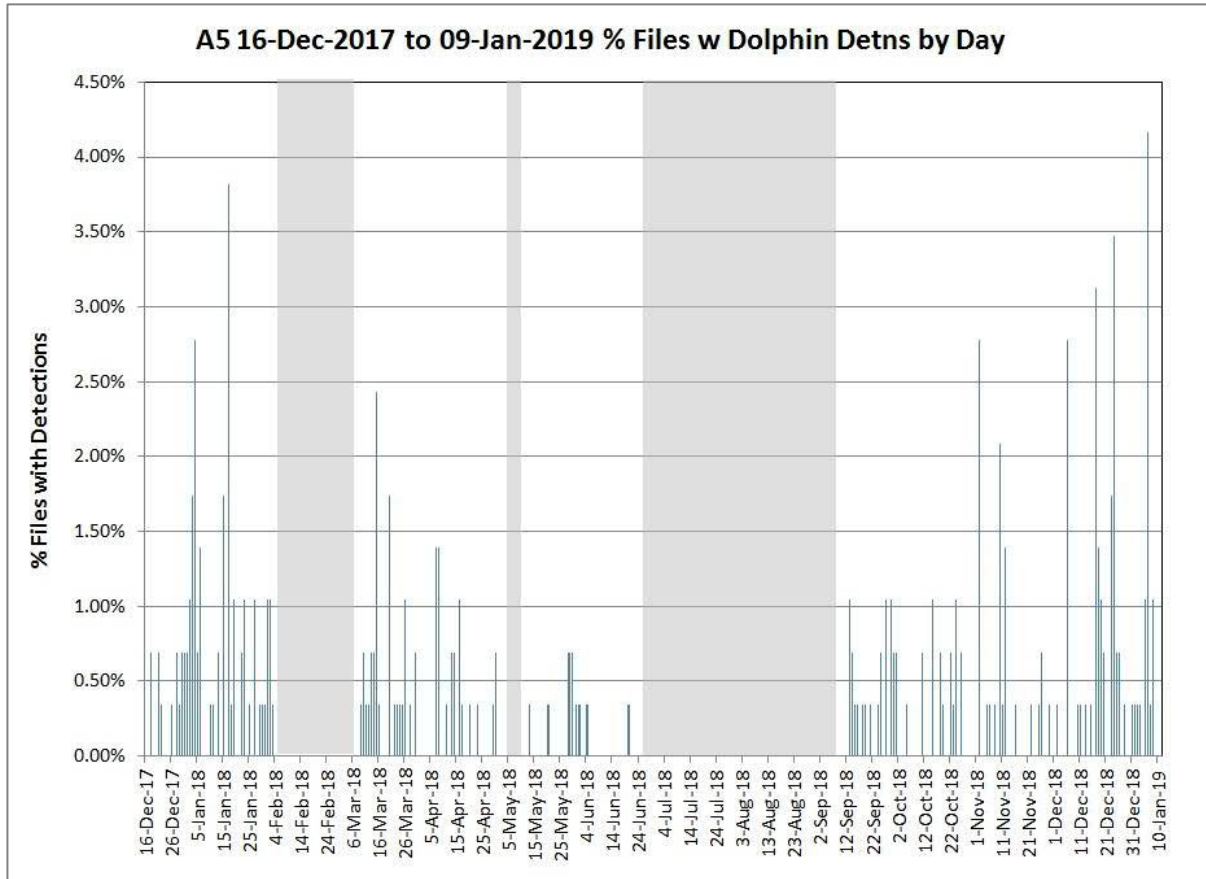


Figure 21: Dolphin Detections as Percentage of Files Per Day, 16 Dec 2017 to 09 Jan 2019.



[Grey shading indicates no recording]

Figure 22: Dolphin Detections by Hour of Day, 16 Dec 2017 to 09 Jan 2019.

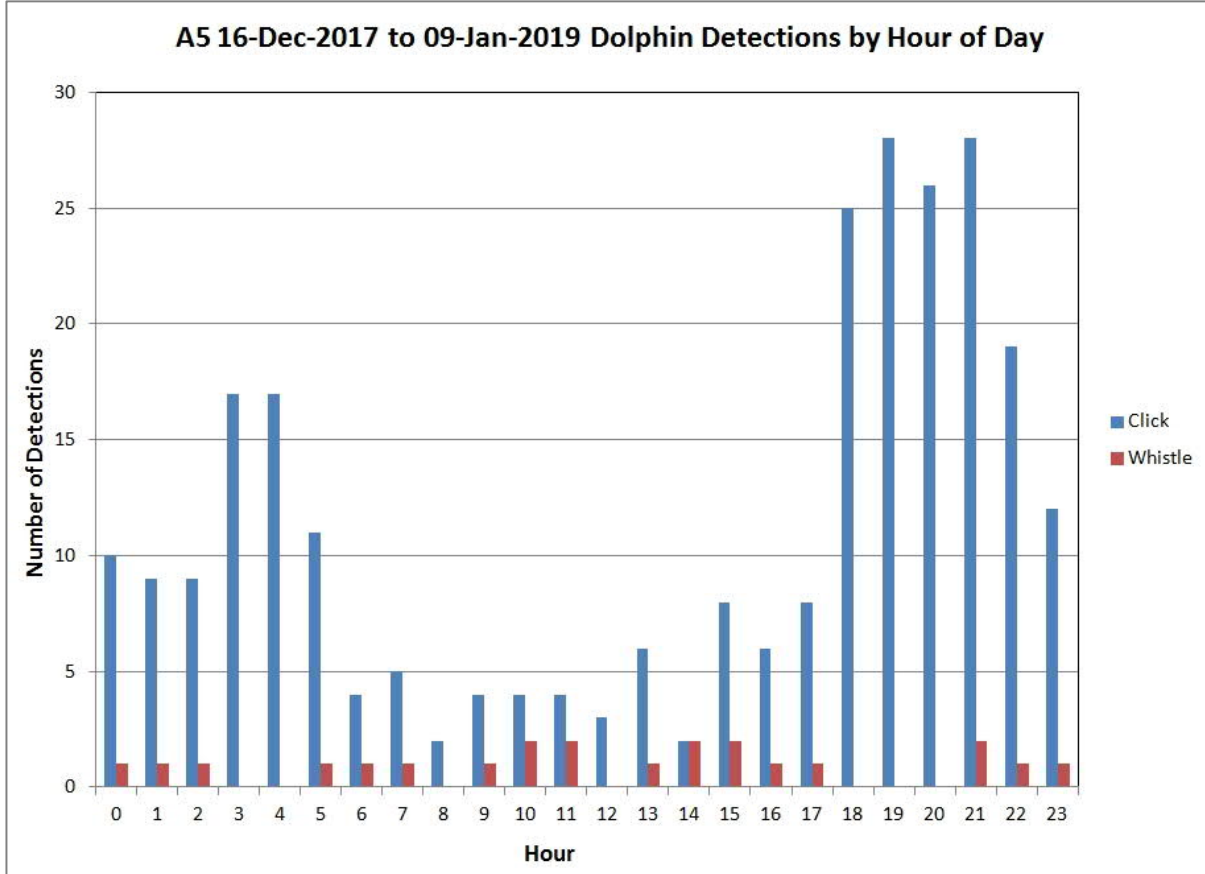
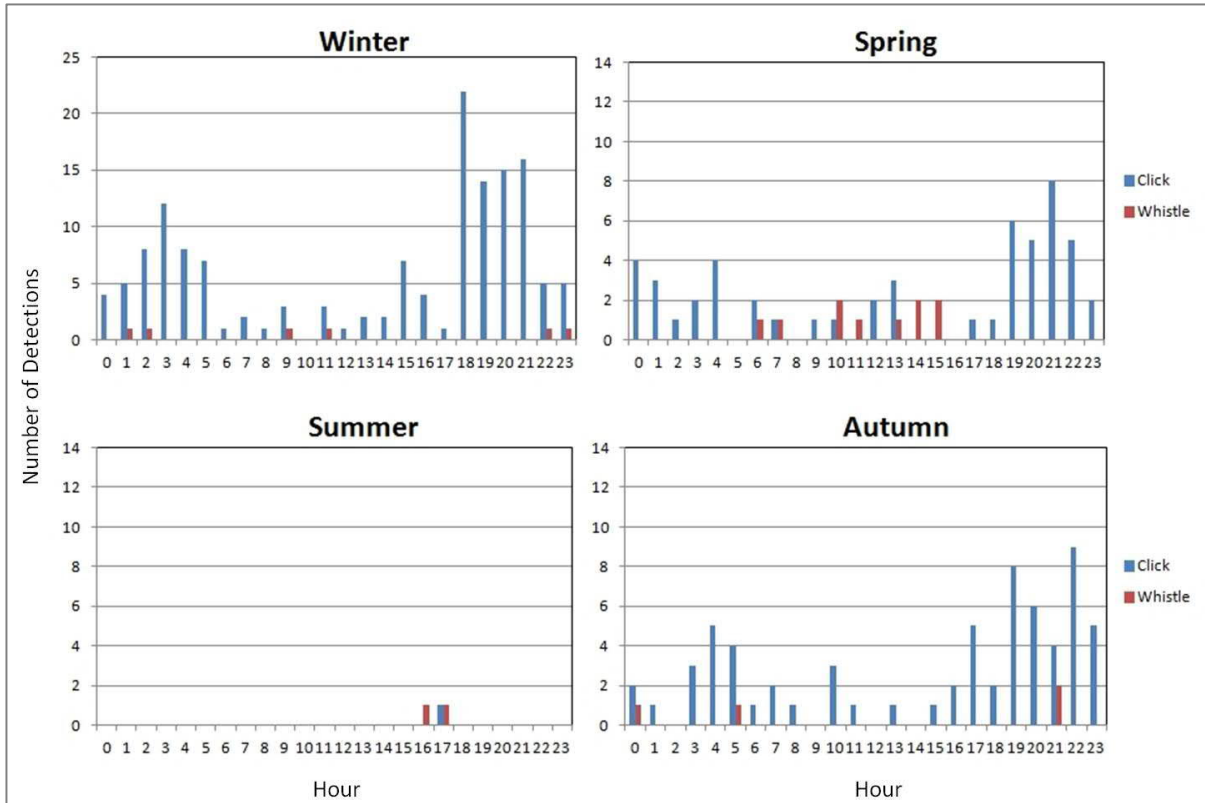
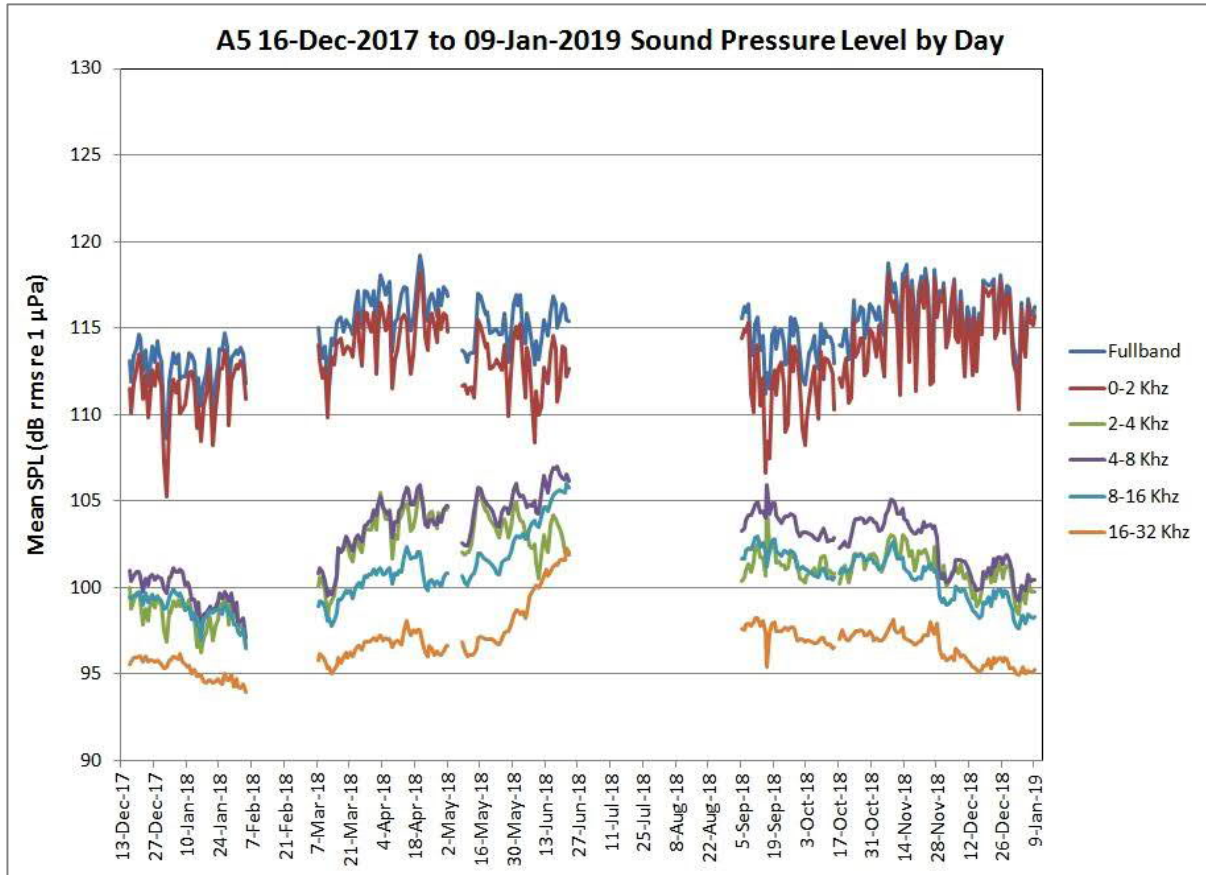


Figure 23: Dolphin Detections by Hour of Day and Solar Season, 16 Dec 2017 to 09 Jan 2019.



[Winter = Dec-Jan-Feb, Spring = Mar-Apr-May, Summer = Jun-Jul-Aug, Autumn = Sep-Oct-Nov]

Figure 24: Daily Mean Sound Pressure Level (SPL), 16 Dec 2017 to 09 Jan 2019.



[Blank area indicates no recording]

Figure 25: Sound Pressure Level (SPL) by Hour of Day, 16 Dec 2017 to 09 Jan 2019.

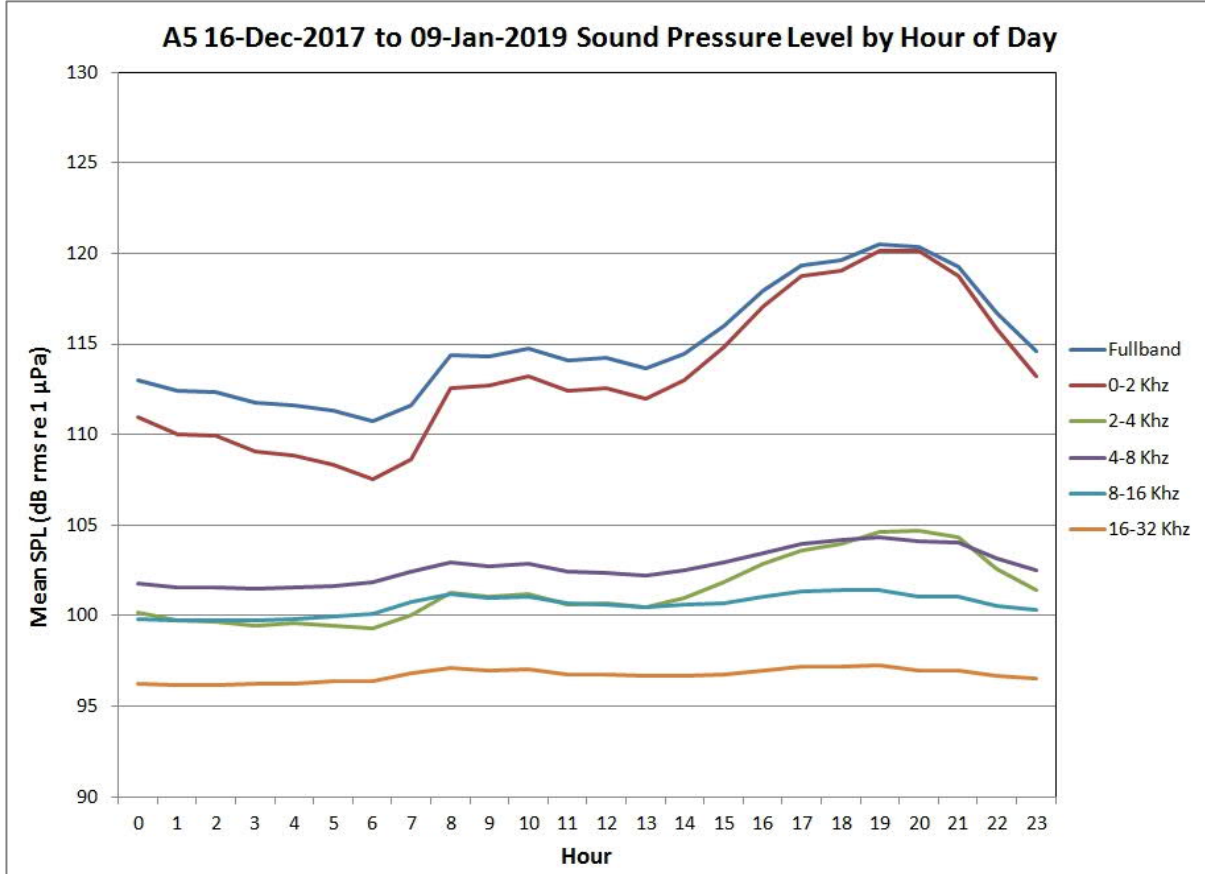
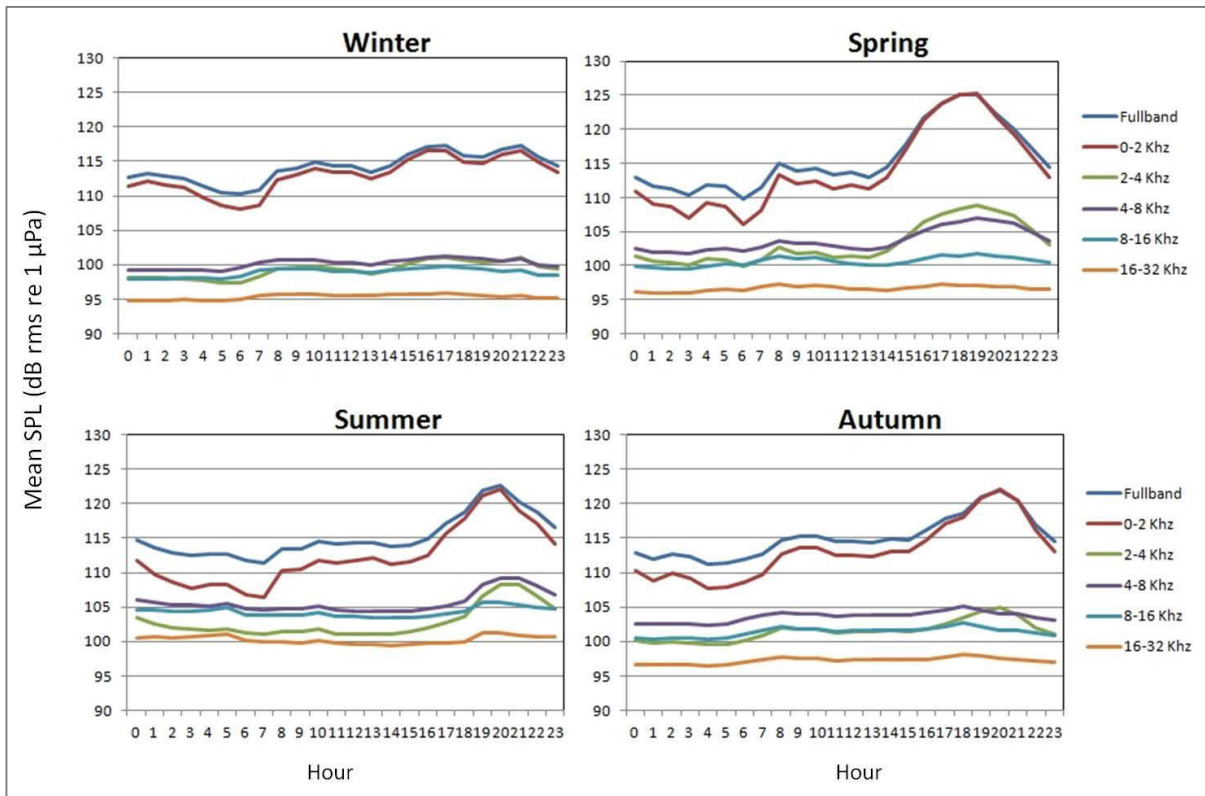


Figure 26: Sound Pressure Level (SPL) by Hour of Day and Solar Season, 16 Dec 2017 to 09 Jan 2019.



[Winter = Dec-Jan-Feb, Spring = Mar-Apr-May, Summer = Jun-Jul-Aug, Autumn = Sep-Oct-Nov]



Table 1: CWD Encounter Rates by Survey Areas

Survey Area	Encounter Rate (STG)		Encounter Rate (ANI)	
	2017	2018	2017	2018
NEL	0	0.18	0	0.18
NWL	2.41	2.84	8.14	8.15
AW	4.55	4.62	14.57	19.42
WL	17.85	16.13	67.94	56.52
SWL	5.00	2.61	15.39	7.90
Combined	4.80	4.00	16.82	13.02

Table 2: Summary of Monthly and Running Quarterly Encounter Rates STG and ANI

Encounter Rate	Winter		Spring			Summer			Autumn			Winter
	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sep 18	Oct 18	Nov 18	Dec 18
Monthly STG	5.10	5.38	3.84	3.38	1.90	4.48	5.04	4.48	4.97	3.07	4.85	1.67
Monthly ANI	19.94	16.15	10.33	11.28	4.51	17.36	13.86	15.67	16.26	8.97	14.28	8.10
Running Quarterly STG	4.27	5.27	4.78	4.18	3.04	3.19	3.74	4.66	4.82	4.19	4.29	3.16
Running Quarterly ANI	16.27	18.89	15.52	12.54	8.74	10.72	11.57	15.58	15.32	13.71	13.19	10.36

Table 3: CWD Line Transects Parameters and Estimates of Density and Abundance for Western Hong Kong based on 3RS Project Data (January 2018 – December 2018)

Time Period	Stratum	No. of Sightings*	Average Group Size	Trackline Detection Prob. - g(0)	Individual Density (no./100km <sup>2</sup> )	Abundance	95% CI (Abund.)	%CV
Jan-Dec 2018	AW	5	2.8	1.0	43.05	2	1-5	45.0
Jan-Dec 2018	DB	2	2.8	1.0	4.51	1	1-2	19.7
Jan-Dec 2018	NEL	2	2.8	1.0	2.94	2	0-6	73.2
Jan-Dec 2018	NWL	46	2.8	1.0	24.85	22	13-36	25.6
Jan-Dec 2018	SWL	40	2.8	1.0	22.23	15	8-27	31.1
Jan-Dec 2018	WL	107	2.8	1.0	137.68	38	25-59	22.0
<b>Jan-Dec 2018</b>	<b>Pooled<sup>^</sup></b>	<b>202</b>	<b>2.8</b>	<b>1.0</b>	<b>29.13</b>	<b>77</b>	<b>53-112</b>	<b>18.9</b>
Jan-Dec 2018	Winter#	46	2.7	1.0	25.99	61	34-109	29.4
Jan-Dec 2018	Spring#	39	2.7	1.0	28.57	67	41-108	24.4
Jan-Dec 2018	Summer#	56	2.7	1.0	42.12	99	56-173	28.6
Jan-Dec 2018	Autumn#	54	2.7	1.0	35.63	83	40-175	37.7

\* Before truncation

<sup>^</sup> Pooled abundance not including Airport West (AW). Note that the pooled estimates do not necessarily add up to the sum of the individual stratum estimates, as these are computed separately.

# The seasonal estimates do not include AW or DB.

**Table 4: Average Group Sizes of CWDs by Survey Areas in 2018**

Survey Area	Average Group Size of CWDs
NEL	1.00
NWL	2.83
AW	3.67
WL	3.47
SWL	2.93
Overall	3.09 ± 2.84

**Table 5: Average Group Sizes of CWDs by Seasons in 2018**

Solar Season	Average Group Size of CWDs
Spring	2.80
Summer	3.23
Autumn	3.12
Winter	3.54

**Table 6: Percentage of CWD Groups recorded as Exhibiting Various Behaviours/Activities, and recorded as having Association with Fishing Boat**

Survey Area	Year	Activity				Fishing Boat Association
		Feeding	Travelling	Socialising	Resting/Milling	
AW	2017	80%	20%	-	-	20%
	2018	67%	-	17%	-	-
NEL	2017	-	-	-	-	-
	2018	50%	-	-	-	-
NWL	2017	15%	8%	10%	3%	-
	2018	38%	3%	4%	-	13%
WL	2017	23%	12%	12%	-	8%
	2018	22%	8%	10%	-	20%
SWL	2017	28%	6%	10%	1%	9%
	2018	17%	5%	7%	2%	14%

Table 7: Summary of Photo Identification Works in 2018

Individual ID	Date of Sighting (dd/mmm/yy)	Sighting No.	Area
NLMM001	12-Feb-18	4	NWL
	20-Sep-18	1	WL
		4	WL
NLMM002	18-Jan-18	1	NWL
	12-Feb-18	2	NWL
	22-Mar-18	1	NWL
	8-Oct-18	3	NWL
NLMM004	6-Feb-18	4	NWL
	12-Feb-18	2	NWL
	22-Mar-18	1	NWL
	23-Apr-18	1	NWL
	3-May-18	1	NWL
	8-Oct-18	4	NWL
	6-Nov-18	2	NWL
NLMM005	21-Sep-18	4	WL
NLMM006	20-Jul-18	2	NWL
		3	NWL
	26-Sep-18	3	NWL
	8-Oct-18	5	NWL
	6-Nov-18	2	NWL
NLMM009	12-Feb-18	2	NWL
	22-Mar-18	1	NWL
NLMM010	18-Jan-18	1	NWL
	19-Apr-18	2	NWL
	23-Apr-18	1	NWL
NLMM011	27-Jun-18	4	WL
NLMM012	21-Sep-18	1	WL
	6-Nov-18	1	NWL
NLMM013	3-May-18	1	NWL
	20-Jul-18	2	NWL
		3	NWL
	14-Sep-18	1	NWL
	20-Sep-18	2	WL
	8-Oct-18	5	NWL
	6-Nov-18	2	NWL
NLMM015	12-Feb-18	2	NWL
	2-Aug-18	1	NWL
		3	NWL
	8-Oct-18	1	NWL
		3	NWL
NLMM016	14-Feb-18	5	WL
	11-Jul-18	2	WL
NLMM018	22-Mar-18	1	NWL
	27-Jun-18	2	WL
		4	WL
	20-Nov-18	2	WL
		3	WL
NLMM019	2-Aug-18	1	NWL
	4-Oct-18	5	WL
NLMM020	19-Sep-18	1	SWL
	4-Oct-18	5	WL
NLMM021	18-Jan-18	2	NWL
NLMM023	18-Jan-18	1	NWL
	12-Feb-18	2	NWL
	11-Jul-18	7	WL
	20-Sep-18	3	WL
	5-Oct-18	1	NWL
	12-Nov-18	2	NWL
NLMM028	27-Jun-18	6	WL
NLMM033	21-Aug-18	5	WL

Individual ID	Date of Sighting (dd/mmm/yy)	Sighting No.	Area
NLMM036	19-Apr-18	3	NWL
		4	NWL
NLMM037	18-Jan-18	1	NWL
	23-Apr-18	1	NWL
	6-Nov-18	2	NWL
NLMM039	6-Nov-18	1	NWL
NLMM040	27-Jun-18	4	WL
	26-Sep-18	1	NWL
	8-Oct-18	3	NWL
NLMM041	27-Jun-18	4	WL
	26-Sep-18	1	NWL
	8-Oct-18	3	NWL
NLMM043	12-Feb-18	2	NWL
	22-Mar-18	1	NWL
	23-Apr-18	1	NWL
	11-Jul-18	7	WL
	2-Aug-18	1	NWL
	5-Oct-18	1	NWL
NLMM049	12-Feb-18	3	NWL
NLMM052	6-Feb-18	3	NWL
	27-Jun-18	6	WL
	26-Sep-18	4	NWL
	12-Nov-18	2	NWL
NLMM055	12-Feb-18	2	NWL
NLMM056	21-Aug-18	1	WL
NLMM057	18-Jan-18	3	NWL
NLMM058	20-Sep-18	1	WL
	8-Oct-18	1	NWL
NLMM059	30-Jul-18	4	SWL
	12-Oct-18	1	NEL
NLMM061	15-Jan-18	1	AW
	18-Jan-18	3	NWL
	12-Feb-18	1	NWL
NLMM062	15-Jan-18	2	WL
	12-Apr-18	3	WL
NLMM063	18-Jan-18	2	NWL
	22-Mar-18	1	NWL
	23-Apr-18	1	NWL
	27-Jun-18	2	WL
		4	WL
	2-Aug-18	1	NWL
	4-Oct-18	5	WL
	8-Oct-18	1	NWL
		3	NWL
NLMM064	6-Feb-18	1	NWL
	27-Jun-18	6	WL
NLMM065	12-Feb-18	4	NWL
	14-Mar-18	4	NWL
		6	NWL
NLMM066	2-Aug-18	1	NWL
NLMM067	2-Aug-18	1	NWL
	21-Aug-18	5	WL
NLMM068	6-Nov-18	2	NWL
SLMM002	14-Feb-18	8	WL
	25-Jun-18	2	SWL
	21-Aug-18	8	WL
SLMM003	15-Jan-18	8	WL
	14-Feb-18	8	WL
	12-Mar-18	1	WL
	12-Apr-18	3	WL
	25-Jun-18	3	SWL
	11-Jul-18	7	WL

Individual ID	Date of Sighting (dd/mmm/yy)	Sighting No.	Area
	21-Aug-18	8	WL
	16-Nov-18	1	WL
	20-Nov-18	2	WL
SLMM007	15-Jan-18	8	WL
	25-Jun-18	3	SWL
	24-Oct-18	2	WL
	16-Nov-18	1	WL
SLMM009	27-Jun-18	6	WL
SLMM010	15-Jan-18	8	WL
	17-Jan-18	7	SWL
	25-Jun-18	3	SWL
	21-Aug-18	7	WL
		8	WL
	4-Dec-18	1	SWL
SLMM012	17-Jan-18	7	SWL
	25-Jun-18	3	SWL
	21-Aug-18	8	WL
	4-Dec-18	1	SWL
SLMM014	12-Mar-18	1	WL
		3	SWL
	4-Apr-18	5	SWL
	21-Nov-18	1	SWL
		3	SWL
	4-Dec-18	1	SWL
	21-Dec-18	2	WL
SLMM017	16-Jan-18	3	SWL
SLMM018	17-Jan-18	5	SWL
SLMM019	30-Jul-18	3	SWL
	23-Aug-18	1	SWL
		2	SWL
	4-Dec-18	1	SWL
SLMM022	15-Jan-18	8	WL
	4-Dec-18	1	SWL
SLMM023	13-Mar-18	3	WL
	21-Jun-18	3	SWL
SLMM025	12-Mar-18	1	WL
SLMM027	12-Mar-18	1	WL
	11-Apr-18	3	WL
	12-Apr-18	3	WL
	17-Jul-18	5	WL
	4-Oct-18	3	WL
SLMM028	15-Jan-18	1	AW
	16-Jan-18	1	AW
	11-Apr-18	1	WL
	30-Jul-18	3	SWL
	20-Nov-18	1	WL
	3-Dec-18	1	NWL
SLMM029	25-Jun-18	6	SWL
SLMM030	17-Jan-18	6	SWL
		7	SWL
	21-Dec-18	1	WL
SLMM031	13-Mar-18	5	WL
	25-Jun-18	4	SWL
SLMM034	12-Mar-18	2	WL
	13-Mar-18	2	WL
	19-Sep-18	1	SWL
	21-Nov-18	2	SWL
SLMM035	27-Jun-18	6	WL
SLMM036	23-Apr-18	1	NWL
SLMM037	14-Feb-18	8	WL
	20-Nov-18	2	WL
SLMM044	13-Feb-18	8	WL

Individual ID	Date of Sighting (dd/mmm/yy)	Sighting No.	Area
	4-Oct-18	5	WL
SLMM045	12-Apr-18	3	WL
	2-Aug-18	1	NWL
	26-Sep-18	2	NWL
	15-Jan-18	3	WL
SLMM046	15-Jan-18	3	WL
SLMM048	13-Feb-18	5	WL
SLMM049	15-Jan-18	8	WL
	12-Mar-18	1	WL
	19-Sep-18	1	SWL
SLMM052	15-Jan-18	8	WL
	12-Apr-18	3	WL
	25-Jun-18	3	SWL
		6	SWL
	16-Nov-18	1	WL
SLMM053	14-Feb-18	3	WL
	25-Jun-18	5	SWL
	21-Aug-18	2	WL
	21-Dec-18	1	WL
		2	WL
SLMM055	14-Feb-18	4	WL
SLMM057	2-Aug-18	1	NWL
SLMM058	12-Apr-18	2	WL
SLMM059	20-Nov-18	3	WL
SLMM060	8-Jan-18	1	SWL
	19-Sep-18	1	SWL
		2	SWL
SLMM062	13-Feb-18	7	WL
SLMM064	11-Apr-18	2	WL
	11-Jul-18	7	WL
SLMM065	14-May-18	2	SWL
SLMM066	26-Jul-18	1	SWL
SLMM067	4-Dec-18	1	SWL
WLMM001	13-Feb-18	5	WL
	12-Mar-18	2	WL
	11-Apr-18	4	WL
	12-Apr-18	4	WL
	11-Jul-18	8	WL
	24-Oct-18	2	WL
	16-Nov-18	8	WL
	4-Dec-18	1	SWL
	20-Dec-18	1	WL
	21-Dec-18	1	WL
	2	WL	
WLMM003	13-Mar-18	3	WL
	11-Apr-18	4	WL
WLMM004	15-Jan-18	3	WL
	13-Feb-18	1	AW
	12-Apr-18	3	WL
	25-Jun-18	6	SWL
	11-Jul-18	7	WL
WLMM005	11-Jul-18	8	WL
WLMM006	14-Feb-18	2	AW
		3	WL
	12-Apr-18	2	WL
	17-Jul-18	3	WL
	2-Aug-18	1	NWL
WLMM007	15-Jan-18	8	WL
	12-Mar-18	1	WL
	19-Sep-18	1	SWL
	16-Nov-18	8	WL
WLMM008	7-Aug-18	4	WL
WLMM009	14-Feb-18	2	AW

Individual ID	Date of Sighting (dd/mmm/yy)	Sighting No.	Area
		3	WL
	12-Apr-18	2	WL
	17-Jul-18	3	WL
	21-Aug-18	2	WL
WLMM013	20-Sep-18	1	WL
		5	WL
WLMM015	15-Jan-18	3	WL
WLMM017	13-Feb-18	8	WL
WLMM018	12-Mar-18	1	WL
	20-Nov-18	4	WL
WLMM019	20-Sep-18	4	WL
	8-Oct-18	1	NWL
WLMM020	11-Jul-18	7	WL
WLMM026	15-Jan-18	1	AW
	14-Mar-18	1	NWL
		3	NWL
WLMM027	15-Jan-18	1	AW
	18-Jan-18	4	NWL
	14-Mar-18	1	NWL
		3	NWL
	30-Jul-18	2	SWL
		4	SWL
	22-Aug-18	1	SWL
WLMM028	14-Feb-18	2	AW
		3	WL
	13-Mar-18	3	WL
	21-Aug-18	2	WL
	21-Dec-18	1	WL
		2	WL
WLMM029	14-Feb-18	2	AW
	13-Mar-18	3	WL
	2-Aug-18	1	NWL
	21-Aug-18	2	WL
	21-Dec-18	1	WL
		2	WL
WLMM030	12-Apr-18	2	WL
WLMM043	15-Jan-18	3	WL
	11-Apr-18	1	WL
	12-Apr-18	1	WL
	21-Aug-18	5	WL
	21-Sep-18	4	WL
	4-Oct-18	1	WL
WLMM046	14-Mar-18	4	NWL
WLMM047	25-Jun-18	3	SWL
WLMM048	11-Jul-18	7	WL
		8	WL
WLMM049	21-Sep-18	3	WL
WLMM051	11-Jul-18	4	WL
WLMM053	17-Jul-18	1	WL
	2-Aug-18	1	NWL
WLMM054	23-May-18	4	SWL
	27-Jun-18	6	WL
WLMM055	13-Feb-18	2	AW
WLMM056	12-Apr-18	7	SWL
	19-Sep-18	1	SWL
	24-Oct-18	1	WL
	20-Nov-18	3	WL
WLMM060	18-Jan-18	5	NWL
	11-Jul-18	8	WL
	23-Aug-18	2	SWL
	20-Sep-18	2	WL
	4-Oct-18	5	WL

Individual ID	Date of Sighting (dd/mmm/yy)	Sighting No.	Area
	24-Oct-18	2	WL
	12-Nov-18	1	NWL
WLMM062	12-Feb-18	1	NWL
	11-Jul-18	8	WL
WLMM063	13-Feb-18	1	AW
	25-Jun-18	6	SWL
	11-Jul-18	7	WL
	21-Aug-18	4	WL
	16-Nov-18	3	WL
WLMM064	15-Jan-18	2	WL
	12-Apr-18	3	WL
WLMM065	18-Jan-18	3	NWL
	14-Mar-18	2	NWL
	21-Aug-18	6	WL
		7	WL
	4-Oct-18	1	WL
	24-Oct-18	1	WL
WLMM066	15-Jan-18	1	AW
	18-Jan-18	3	NWL
	14-Mar-18	2	NWL
WLMM067	21-Aug-18	5	WL
WLMM069	12-Apr-18	4	WL
		5	WL
	4-Dec-18	1	SWL
WLMM071	15-Jan-18	1	AW
	18-Jan-18	5	NWL
	11-Jul-18	6	WL
		8	WL
	23-Aug-18	2	SWL
	20-Sep-18	2	WL
	4-Oct-18	5	WL
	24-Oct-18	2	WL
	12-Nov-18	1	NWL
WLMM073	12-Mar-18	1	WL
	11-Apr-18	3	WL
	21-Dec-18	1	WL
WLMM075	11-Jul-18	6	WL
WLMM076	23-May-18	4	SWL
	20-Sep-18	6	WL
WLMM078	13-Mar-18	1	WL
	23-May-18	4	SWL
	25-Jun-18	6	SWL
	7-Aug-18	4	WL
	21-Dec-18	1	WL
		2	WL
WLMM079	15-Jan-18	8	WL
	12-Mar-18	1	WL
	21-Aug-18	5	WL
	16-Nov-18	1	WL
		8	WL
WLMM080	14-Mar-18	4	NWL
	21-Jun-18	3	SWL
	21-Dec-18	1	WL
WLMM081	15-Jan-18	3	WL
	11-Jul-18	3	WL
	2-Aug-18	1	NWL
	20-Sep-18	6	WL
WLMM083	7-Aug-18	2	WL
WLMM085	11-Apr-18	4	WL
	25-Jun-18	3	SWL
	11-Jul-18	7	WL
WLMM086	12-Apr-18	2	WL



Individual ID	Date of Sighting (dd/mmm/yy)	Sighting No.	Area
	19-Apr-18	3	NWL
		4	NWL
	20-Sep-18	2	WL
WLMM087	2-Aug-18	1	NWL
WLMM089	2-Aug-18	1	NWL
	5-Oct-18	1	NWL
WLMM090	12-Apr-18	2	WL
	19-Apr-18	3	NWL
		4	NWL
	20-Sep-18	2	WL
WLMM091	20-Sep-18	2	WL
WLMM092	27-Jun-18	8	WL
	20-Sep-18	2	WL
WLMM096	21-Aug-18	2	WL
WLMM103	17-Jul-18	1	WL
WLMM107	13-Feb-18	5	WL
	11-Jul-18	7	WL
WLMM108	15-Jan-18	3	WL
WLMM109	15-Jan-18	3	WL
		5	WL
		7	WL
	16-Nov-18	8	WL
WLMM110	15-Jan-18	3	WL
WLMM111	15-Jan-18	3	WL
		7	WL
WLMM112	15-Jan-18	3	WL
WLMM113	14-Feb-18	4	WL
WLMM114	12-Mar-18	1	WL
	25-Jun-18	5	SWL
	21-Aug-18	9	WL
	19-Sep-18	1	SWL
	4-Oct-18	3	WL
	4-Dec-18	2	SWL
WLMM115	16-May-18	1	WL
	20-Jul-18	1	NWL
	2-Aug-18	2	NWL
	7-Aug-18	2	WL
WLMM116	11-Jul-18	7	WL
		8	WL
	30-Jul-18	2	SWL
		4	SWL
WLMM117	11-Jul-18	7	WL
WLMM118	17-Jul-18	5	WL
WLMM119	7-Aug-18	4	WL
	24-Oct-18	2	WL
WLMM120	7-Aug-18	4	WL
WLMM121	21-Aug-18	5	WL
WLMM122	20-Sep-18	1	WL
		4	WL
WLMM124	20-Sep-18	6	WL
WLMM125	20-Sep-18	6	WL
	20-Nov-18	3	WL
WLMM126	20-Sep-18	6	WL
WLMM127	21-Sep-18	3	WL
	8-Oct-18	1	NWL
		2	NWL
	6-Nov-18	2	NWL
WLMM128	21-Sep-18	3	WL
WLMM129	21-Sep-18	6	WL
WLMM130	24-Oct-18	2	WL
WLMM131	20-Nov-18	2	WL

**Table 8: Land-based Survey, Theodolite Effort and CWD Group Summary in 2018**

Land-based Station	# of Survey Sessions	Survey Effort (hh:mm)	# CWD Groups Sighted	CWD Group Sighting per Survey Hr	# Groups After Filtering	# of 10-minutes segments
Sha Chau	24	144:00	0	0.0	0	0
Lung Kwu Chau	36	216:00	167	0.77	65	72
<b>TOTAL</b>	<b>60</b>	<b>360:00</b>	<b>167</b>	<b>0.464</b>	<b>65</b>	<b>72</b>

**Table 9: Land-based CWD Focal Group Size Summary in 2018**

Category	n (sample size)	Minimum # Individuals	Maximum # Individuals	Mean Grp Size	Standard Deviation
Winter	66	1	4	2.64	1.08
Spring	168	1	8	3.64	1.54
Summer	48	1	3	2.29	0.68
Autumn	150	1	7	3.41	1.58
Dry Season	312	1	8	3.57	1.56
Wet Season	120	1	4	2.45	0.94
Inside SCLKCMP boundary	229	1	8	3.05	1.72
Crossing SCLKCMP boundary	48	2	5	3.25	1.21
Outside SCLKCMP boundary	155	2	6	3.57	1.13
No boats present	330	1	8	3.12	1.58
HSF within 500 m	12	4	5	4.50	0.52
SSF within 500 m	48	2	6	3.75	1.10
Other boats within 500 m	42	2	5	3.43	1.06

**Table 10: CWD Mean Swimming Speed, Reorientation Rate, and Linearity based on Vessel Presence record from Lung Kwu Chau in 2018**

Vessel Type	Sample Size	Mean Speed (Std. dev.)	Mean Reorientation Rate (Std. dev.)	Mean Linearity (Std. dev.)
No Vessel	55	2.71 (1.14)	20.71 (15.50)	0.85 (0.18)
High Speed Ferry	2	2.65 (1.02)	41.17 (29.54)	0.49 (0.36)
High Speed Ferry Under Speed Restriction	8	4.32 (2.47)	25.91 (24.65)	0.77 (0.34)
Other	7	3.43 (2.22)	18.92 (12.05)	0.85 (0.24)

**Table 11: Summary of PAM Deployments and Dolphin Detections, 16 Dec 2017 to 09 Jan 2019**

Site	Dep #	Data start (dd/mm/yyyy)	Data end (dd/mm/yyyy)	# recording days	# files	Days with dolphins (%)	Files with dolphins (%)
A5	1	16/12/2017	16/01/2018	32	9153	18 (56%)	46 (0.50%)
A5	2	17/01/2018	04/02/2018	19	5427	13 (68%)	34 (0.63%)
A5	3	07/03/2018	02/05/2018	57	16370	27 (47%)	54 (0.33%)
A5	4	08/05/2018	23/06/2018	47	13311	8 (17%)	10 (0.08%)
A5	5	05/09/2018	15/10/2018	41	11808	16 (39%)	29 (0.25%)
A5	6	17/10/2018	28/11/2018	43	12226	17 (40%)	38 (0.31%)
A5	7	29/11/2018	09/01/2019	42	11951	24 (57%)	75 (0.63%)
Total	All	16/12/2017	09/01/2019	281	80246	123 (44%)	286 (0.36%)

**Table 12: Summary of PAM Deployments and Dolphin Detections in the Previous Year (12 Jan 2017 to 02 Dec 2017)**

Site	Dep #	Data start (dd/mm/yyyy)	Data end (dd/mm/yyyy)	# recording days	# files	Days with dolphins (%)	Files with dolphins (%)
A5	1	12/01/2017	04/02/2017	24	6769	7 (29%)	15 (0.22%)
A5	2	11/02/2017	17/03/2017	35	9792	25 (71%)	86 (0.88%)
A5	3	25/03/2017	13/05/2017	50	14260	23 (46%)	43 (0.30%)
A5	4	14/05/2017	09/07/2017	57	16370	11 (19%)	16 (0.10%)
A5	5	03/08/2017	28/09/2017	57	16370	22 (39%)	35 (0.21%)
A5	6	07/10/2017	02/12/2017	57	16370	21 (37%)	41 (0.25%)

**Table 13: Summary of Dolphin Sightings within the Dolphin Exclusion Zone in 2018**

Date	Works Area* and Type of Works Suspended	Location of the DEZ Monitoring Station	Time of Initial Sighting of Dolphin Group	Time of Last Sighting of Dolphin Group
22/02/2018	DCM works at Area G4	22°18.436N, 113°53.515E	17:30	18:10
24/02/2018	DCM works at Area G4	22°18.438N, 113°53.515E	15:00	15:30
24/02/2018	DCM works at Area G4	22°18.434N, 113°53.515E	17:18	17:35
08/03/2018	DCM works at Area G4	22°18.443N, 113°53.502E	16:47	17:10
09/03/2018	DCM works at Area G4	22°18.428N, 113°53.504E	13:35	16:40
18/03/2018	DCM works at Area G4	22°18.437N, 113°53.494E	09:03	09:12

\*Note: Please refer to **Figure 1.2** for the location of works area.

## CWD Small Vessel Line-transect Survey

## Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
8-Jan-18	SWL	2	1.780	WINTER	32166	3RS ET	N/A
8-Jan-18	SWL	3	15.124	WINTER	32166	3RS ET	N/A
8-Jan-18	SWL	4	17.100	WINTER	32166	3RS ET	N/A
10-Jan-18	NEL	2	7.314	WINTER	32166	3RS ET	N/A
10-Jan-18	NEL	3	36.486	WINTER	32166	3RS ET	N/A
10-Jan-18	NEL	4	2.800	WINTER	32166	3RS ET	N/A
10-Jan-18	DB	3	17.688	WINTER	32166	3RS ET	N/A
10-Jan-18	DB	4	0.732	WINTER	32166	3RS ET	N/A
11-Jan-18	DB	3	1.600	WINTER	32166	3RS ET	N/A
11-Jan-18	DB	4	8.850	WINTER	32166	3RS ET	N/A
11-Jan-18	DB	5	7.950	WINTER	32166	3RS ET	N/A
11-Jan-18	NEL	2	21.000	WINTER	32166	3RS ET	N/A
11-Jan-18	NEL	3	24.500	WINTER	32166	3RS ET	N/A
11-Jan-18	NEL	4	1.900	WINTER	32166	3RS ET	N/A
15-Jan-18	AW	2	4.691	WINTER	32166	3RS ET	N/A
15-Jan-18	WL	2	32.670	WINTER	32166	3RS ET	N/A
15-Jan-18	SWL	2	1.020	WINTER	32166	3RS ET	N/A
15-Jan-18	SWL	3	9.910	WINTER	32166	3RS ET	N/A
15-Jan-18	SWL	4	1.590	WINTER	32166	3RS ET	N/A
16-Jan-18	AW	2	4.820	WINTER	32166	3RS ET	N/A
16-Jan-18	WL	2	3.719	WINTER	32166	3RS ET	N/A
16-Jan-18	WL	3	29.681	WINTER	32166	3RS ET	N/A
16-Jan-18	SWL	2	14.580	WINTER	32166	3RS ET	N/A
16-Jan-18	SWL	3	14.510	WINTER	32166	3RS ET	N/A
17-Jan-18	SWL	1	12.768	WINTER	32166	3RS ET	N/A
17-Jan-18	SWL	2	38.865	WINTER	32166	3RS ET	N/A
17-Jan-18	SWL	3	9.180	WINTER	32166	3RS ET	N/A
17-Jan-18	SWL	4	1.600	WINTER	32166	3RS ET	N/A
18-Jan-18	NWL	1	6.510	WINTER	32166	3RS ET	N/A
18-Jan-18	NWL	2	66.180	WINTER	32166	3RS ET	N/A
18-Jan-18	NWL	3	1.200	WINTER	32166	3RS ET	N/A
19-Jan-18	NWL	1	2.700	WINTER	32166	3RS ET	N/A
19-Jan-18	NWL	2	68.300	WINTER	32166	3RS ET	N/A
19-Jan-18	NWL	3	3.700	WINTER	32166	3RS ET	N/A
6-Feb-18	NWL	2	10.500	WINTER	32166	3RS ET	N/A
6-Feb-18	NWL	3	51.794	WINTER	32166	3RS ET	N/A
6-Feb-18	NWL	4	13.389	WINTER	32166	3RS ET	N/A
7-Feb-18	DB	2	8.350	WINTER	32166	3RS ET	N/A
7-Feb-18	DB	3	10.250	WINTER	32166	3RS ET	N/A
7-Feb-18	NEL	1	9.800	WINTER	32166	3RS ET	N/A
7-Feb-18	NEL	2	37.100	WINTER	32166	3RS ET	N/A
12-Feb-18	NWL	2	7.850	WINTER	32166	3RS ET	N/A
12-Feb-18	NWL	3	62.380	WINTER	32166	3RS ET	N/A
12-Feb-18	NWL	4	4.890	WINTER	32166	3RS ET	N/A
13-Feb-18	AW	2	4.800	WINTER	32166	3RS ET	N/A
13-Feb-18	WL	2	17.744	WINTER	32166	3RS ET	N/A
13-Feb-18	WL	3	9.140	WINTER	32166	3RS ET	N/A
13-Feb-18	WL	4	5.970	WINTER	32166	3RS ET	N/A

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
13-Feb-18	SWL	5	6.830	WINTER	32166	3RS ET	N/A
14-Feb-18	AW	2	4.620	WINTER	32166	3RS ET	N/A
14-Feb-18	WL	2	27.499	WINTER	32166	3RS ET	N/A
14-Feb-18	WL	3	2.810	WINTER	32166	3RS ET	N/A
14-Feb-18	WL	4	1.420	WINTER	32166	3RS ET	N/A
14-Feb-18	SWL	4	6.860	WINTER	32166	3RS ET	N/A
21-Feb-18	SWL	2	28.770	WINTER	32166	3RS ET	N/A
21-Feb-18	SWL	3	25.830	WINTER	32166	3RS ET	N/A
21-Feb-18	SWL	4	7.600	WINTER	32166	3RS ET	N/A
22-Feb-18	DB	3	18.060	WINTER	32166	3RS ET	N/A
22-Feb-18	NEL	2	8.700	WINTER	32166	3RS ET	N/A
22-Feb-18	NEL	3	36.900	WINTER	32166	3RS ET	N/A
22-Feb-18	NEL	4	1.300	WINTER	32166	3RS ET	N/A
23-Feb-18	SWL	2	1.640	WINTER	32166	3RS ET	N/A
23-Feb-18	SWL	3	60.860	WINTER	32166	3RS ET	N/A
5-Mar-18	SWL	1	40.540	SPRING	32166	3RS ET	N/A
5-Mar-18	SWL	2	21.840	SPRING	32166	3RS ET	N/A
7-Mar-18	NEL	2	6.660	SPRING	32166	3RS ET	N/A
7-Mar-18	NEL	3	29.130	SPRING	32166	3RS ET	N/A
7-Mar-18	NEL	4	11.510	SPRING	32166	3RS ET	N/A
7-Mar-18	DB	2	1.010	SPRING	32166	3RS ET	N/A
7-Mar-18	DB	3	9.690	SPRING	32166	3RS ET	N/A
7-Mar-18	DB	4	4.800	SPRING	32166	3RS ET	N/A
8-Mar-18	NEL	2	25.549	SPRING	32166	3RS ET	N/A
8-Mar-18	NEL	3	21.251	SPRING	32166	3RS ET	N/A
8-Mar-18	DB	3	2.160	SPRING	32166	3RS ET	N/A
8-Mar-18	DB	4	13.240	SPRING	32166	3RS ET	N/A
12-Mar-18	AW	2	1.070	SPRING	32166	3RS ET	N/A
12-Mar-18	AW	3	3.660	SPRING	32166	3RS ET	N/A
12-Mar-18	WL	2	32.876	SPRING	32166	3RS ET	N/A
12-Mar-18	WL	3	0.550	SPRING	32166	3RS ET	N/A
12-Mar-18	SWL	2	1.970	SPRING	32166	3RS ET	N/A
12-Mar-18	SWL	3	14.329	SPRING	32166	3RS ET	N/A
12-Mar-18	SWL	4	2.130	SPRING	32166	3RS ET	N/A
13-Mar-18	AW	1	4.700	SPRING	32166	3RS ET	N/A
13-Mar-18	WL	2	22.370	SPRING	32166	3RS ET	N/A
13-Mar-18	WL	3	9.417	SPRING	32166	3RS ET	N/A
13-Mar-18	WL	4	1.643	SPRING	32166	3RS ET	N/A
13-Mar-18	SWL	3	6.820	SPRING	32166	3RS ET	N/A
14-Mar-18	NWL	2	59.690	SPRING	32166	3RS ET	N/A
14-Mar-18	NWL	3	14.666	SPRING	32166	3RS ET	N/A
21-Mar-18	SWL	2	16.139	SPRING	32166	3RS ET	N/A
21-Mar-18	SWL	3	10.311	SPRING	32166	3RS ET	N/A
21-Mar-18	SWL	4	23.030	SPRING	32166	3RS ET	N/A
22-Mar-18	NWL	2	34.844	SPRING	32166	3RS ET	N/A
22-Mar-18	NWL	3	37.876	SPRING	32166	3RS ET	N/A
3-Apr-18	SWL	1	14.910	SPRING	32166	3RS ET	N/A
3-Apr-18	SWL	2	45.610	SPRING	32166	3RS ET	N/A
3-Apr-18	SWL	3	2.000	SPRING	32166	3RS ET	N/A

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
4-Apr-18	SWL	1	31.340	SPRING	32166	3RS ET	N/A
4-Apr-18	SWL	2	28.140	SPRING	32166	3RS ET	N/A
4-Apr-18	SWL	3	2.610	SPRING	32166	3RS ET	N/A
11-Apr-18	AW	2	4.770	SPRING	32166	3RS ET	N/A
11-Apr-18	WL	2	14.970	SPRING	32166	3RS ET	N/A
11-Apr-18	WL	3	16.070	SPRING	32166	3RS ET	N/A
11-Apr-18	SWL	2	2.140	SPRING	32166	3RS ET	N/A
11-Apr-18	SWL	3	4.680	SPRING	32166	3RS ET	N/A
12-Apr-18	AW	2	3.530	SPRING	32166	3RS ET	N/A
12-Apr-18	AW	3	1.280	SPRING	32166	3RS ET	N/A
12-Apr-18	WL	2	12.481	SPRING	32166	3RS ET	N/A
12-Apr-18	WL	3	18.889	SPRING	32166	3RS ET	N/A
12-Apr-18	SWL	2	6.735	SPRING	32166	3RS ET	N/A
18-Apr-18	NEL	2	30.140	SPRING	32166	3RS ET	N/A
18-Apr-18	NEL	3	17.060	SPRING	32166	3RS ET	N/A
18-Apr-18	DB	2	16.000	SPRING	32166	3RS ET	N/A
19-Apr-18	NWL	2	15.530	SPRING	32166	3RS ET	N/A
19-Apr-18	NWL	3	53.430	SPRING	32166	3RS ET	N/A
19-Apr-18	NWL	4	6.030	SPRING	32166	3RS ET	N/A
23-Apr-18	NWL	2	39.210	SPRING	32166	3RS ET	N/A
23-Apr-18	NWL	3	31.250	SPRING	32166	3RS ET	N/A
23-Apr-18	NWL	4	4.500	SPRING	32166	3RS ET	N/A
27-Apr-18	NEL	1	22.760	SPRING	32166	3RS ET	N/A
27-Apr-18	NEL	2	23.840	SPRING	32166	3RS ET	N/A
27-Apr-18	DB	2	12.880	SPRING	32166	3RS ET	N/A
27-Apr-18	DB	3	3.020	SPRING	32166	3RS ET	N/A
3-May-18	NWL	2	38.810	SPRING	32166	3RS ET	N/A
3-May-18	NWL	3	34.290	SPRING	32166	3RS ET	N/A
3-May-18	NWL	4	2.300	SPRING	32166	3RS ET	N/A
8-May-18	NWL	2	56.994	SPRING	32166	3RS ET	N/A
8-May-18	NWL	3	18.306	SPRING	32166	3RS ET	N/A
9-May-18	AW	3	0.851	SPRING	32166	3RS ET	N/A
9-May-18	AW	4	3.879	SPRING	32166	3RS ET	N/A
9-May-18	WL	2	4.840	SPRING	32166	3RS ET	N/A
9-May-18	WL	3	4.940	SPRING	32166	3RS ET	N/A
9-May-18	WL	4	14.440	SPRING	32166	3RS ET	N/A
9-May-18	WL	5	7.080	SPRING	32166	3RS ET	N/A
14-May-18	SWL	2	30.850	SPRING	32166	3RS ET	N/A
14-May-18	SWL	3	38.892	SPRING	32166	3RS ET	N/A
14-May-18	SWL	4	1.550	SPRING	32166	3RS ET	N/A
16-May-18	AW	2	1.060	SPRING	32166	3RS ET	N/A
16-May-18	AW	3	3.640	SPRING	32166	3RS ET	N/A
16-May-18	WL	2	2.390	SPRING	32166	3RS ET	N/A
16-May-18	WL	3	21.580	SPRING	32166	3RS ET	N/A
16-May-18	WL	4	7.180	SPRING	32166	3RS ET	N/A
23-May-18	SWL	2	37.660	SPRING	32166	3RS ET	N/A
23-May-18	SWL	3	32.490	SPRING	32166	3RS ET	N/A
24-May-18	NEL	2	31.200	SPRING	32166	3RS ET	N/A
24-May-18	NEL	3	15.800	SPRING	32166	3RS ET	N/A

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
24-May-18	DB	2	0.980	SPRING	32166	3RS ET	N/A
24-May-18	DB	3	12.290	SPRING	32166	3RS ET	N/A
24-May-18	DB	4	2.230	SPRING	32166	3RS ET	N/A
25-May-18	DB	2	10.211	SPRING	32166	3RS ET	N/A
25-May-18	DB	3	5.489	SPRING	32166	3RS ET	N/A
25-May-18	NEL	2	27.700	SPRING	32166	3RS ET	N/A
25-May-18	NEL	3	18.900	SPRING	32166	3RS ET	N/A
25-May-18	NEL	4	1.000	SPRING	32166	3RS ET	N/A
4-Jun-18	DB	3	9.830	SUMMER	32166	3RS ET	P
4-Jun-18	DB	4	0.230	SUMMER	32166	3RS ET	P
4-Jun-18	DB	3	5.540	SUMMER	32166	3RS ET	S
4-Jun-18	NEL	3	25.370	SUMMER	32166	3RS ET	P
4-Jun-18	NEL	4	12.140	SUMMER	32166	3RS ET	P
4-Jun-18	NEL	3	6.690	SUMMER	32166	3RS ET	S
4-Jun-18	NEL	4	3.400	SUMMER	32166	3RS ET	S
19-Jun-18	NWL	3	26.640	SUMMER	32166	3RS ET	P
19-Jun-18	NWL	4	36.150	SUMMER	32166	3RS ET	P
19-Jun-18	NWL	3	8.580	SUMMER	32166	3RS ET	S
19-Jun-18	NWL	4	4.130	SUMMER	32166	3RS ET	S
20-Jun-18	DB	3	10.020	SUMMER	32166	3RS ET	P
20-Jun-18	DB	4	0.200	SUMMER	32166	3RS ET	P
20-Jun-18	DB	3	4.450	SUMMER	32166	3RS ET	S
20-Jun-18	DB	4	1.030	SUMMER	32166	3RS ET	S
20-Jun-18	NEL	2	26.500	SUMMER	32166	3RS ET	P
20-Jun-18	NEL	3	9.030	SUMMER	32166	3RS ET	P
20-Jun-18	NEL	4	2.130	SUMMER	32166	3RS ET	P
20-Jun-18	NEL	2	9.000	SUMMER	32166	3RS ET	S
20-Jun-18	NEL	3	0.940	SUMMER	32166	3RS ET	S
21-Jun-18	SWL	2	7.120	SUMMER	32166	3RS ET	P
21-Jun-18	SWL	3	44.051	SUMMER	32166	3RS ET	P
21-Jun-18	SWL	4	3.720	SUMMER	32166	3RS ET	P
21-Jun-18	SWL	2	2.200	SUMMER	32166	3RS ET	S
21-Jun-18	SWL	3	13.730	SUMMER	32166	3RS ET	S
22-Jun-18	NWL	2	13.400	SUMMER	32166	3RS ET	P
22-Jun-18	NWL	3	44.550	SUMMER	32166	3RS ET	P
22-Jun-18	NWL	4	5.060	SUMMER	32166	3RS ET	P
22-Jun-18	NWL	2	5.400	SUMMER	32166	3RS ET	S
22-Jun-18	NWL	3	3.960	SUMMER	32166	3RS ET	S
22-Jun-18	NWL	4	2.790	SUMMER	32166	3RS ET	S
25-Jun-18	SWL	2	7.272	SUMMER	32166	3RS ET	P
25-Jun-18	SWL	3	27.789	SUMMER	32166	3RS ET	P
25-Jun-18	SWL	4	14.840	SUMMER	32166	3RS ET	P
25-Jun-18	SWL	5	5.230	SUMMER	32166	3RS ET	P
25-Jun-18	SWL	2	5.402	SUMMER	32166	3RS ET	S
25-Jun-18	SWL	3	3.810	SUMMER	32166	3RS ET	S
25-Jun-18	SWL	4	4.030	SUMMER	32166	3RS ET	S
25-Jun-18	SWL	5	1.210	SUMMER	32166	3RS ET	S
26-Jun-18	WL	2	4.210	SUMMER	32166	3RS ET	P
26-Jun-18	WL	3	15.962	SUMMER	32166	3RS ET	P

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
26-Jun-18	WL	3	11.178	SUMMER	32166	3RS ET	S
26-Jun-18	AW	2	2.940	SUMMER	32166	3RS ET	P
26-Jun-18	AW	3	1.900	SUMMER	32166	3RS ET	P
27-Jun-18	AW	2	4.720	SUMMER	32166	3RS ET	P
27-Jun-18	WL	2	4.010	SUMMER	32166	3RS ET	P
27-Jun-18	WL	3	12.576	SUMMER	32166	3RS ET	P
27-Jun-18	WL	4	2.970	SUMMER	32166	3RS ET	P
27-Jun-18	WL	3	8.257	SUMMER	32166	3RS ET	S
27-Jun-18	WL	4	1.967	SUMMER	32166	3RS ET	S
5-Jul-18	NWL	2	4.400	SUMMER	32166	3RS ET	P
5-Jul-18	NWL	3	20.570	SUMMER	32166	3RS ET	P
5-Jul-18	NWL	4	37.860	SUMMER	32166	3RS ET	P
5-Jul-18	NWL	2	1.900	SUMMER	32166	3RS ET	S
5-Jul-18	NWL	3	4.170	SUMMER	32166	3RS ET	S
5-Jul-18	NWL	4	5.600	SUMMER	32166	3RS ET	S
9-Jul-18	DB	2	4.340	SUMMER	32166	3RS ET	P
9-Jul-18	DB	3	5.830	SUMMER	32166	3RS ET	P
9-Jul-18	DB	2	3.500	SUMMER	32166	3RS ET	S
9-Jul-18	DB	3	2.030	SUMMER	32166	3RS ET	S
9-Jul-18	NEL	2	7.900	SUMMER	32166	3RS ET	P
9-Jul-18	NEL	3	21.800	SUMMER	32166	3RS ET	P
9-Jul-18	NEL	4	7.500	SUMMER	32166	3RS ET	P
9-Jul-18	NEL	2	2.400	SUMMER	32166	3RS ET	S
9-Jul-18	NEL	3	7.700	SUMMER	32166	3RS ET	S
11-Jul-18	AW	1	2.230	SUMMER	32166	3RS ET	P
11-Jul-18	AW	2	2.610	SUMMER	32166	3RS ET	P
11-Jul-18	WL	1	0.935	SUMMER	32166	3RS ET	P
11-Jul-18	WL	2	5.562	SUMMER	32166	3RS ET	P
11-Jul-18	WL	3	9.521	SUMMER	32166	3RS ET	P
11-Jul-18	WL	4	2.406	SUMMER	32166	3RS ET	P
11-Jul-18	WL	2	3.839	SUMMER	32166	3RS ET	S
11-Jul-18	WL	3	4.997	SUMMER	32166	3RS ET	S
11-Jul-18	WL	4	1.230	SUMMER	32166	3RS ET	S
17-Jul-18	AW	2	4.530	SUMMER	32166	3RS ET	P
17-Jul-18	WL	1	1.730	SUMMER	32166	3RS ET	P
17-Jul-18	WL	2	9.190	SUMMER	32166	3RS ET	P
17-Jul-18	WL	3	6.564	SUMMER	32166	3RS ET	P
17-Jul-18	WL	4	0.430	SUMMER	32166	3RS ET	P
17-Jul-18	WL	1	1.070	SUMMER	32166	3RS ET	S
17-Jul-18	WL	2	5.640	SUMMER	32166	3RS ET	S
17-Jul-18	WL	3	4.746	SUMMER	32166	3RS ET	S
19-Jul-18	NEL	2	20.870	SUMMER	32166	3RS ET	P
19-Jul-18	NEL	3	16.680	SUMMER	32166	3RS ET	P
19-Jul-18	NEL	2	8.630	SUMMER	32166	3RS ET	S
19-Jul-18	NEL	3	1.050	SUMMER	32166	3RS ET	S
19-Jul-18	DB	3	10.480	SUMMER	32166	3RS ET	P
19-Jul-18	DB	3	4.320	SUMMER	32166	3RS ET	S
19-Jul-18	DB	4	1.100	SUMMER	32166	3RS ET	S
20-Jul-18	NWL	1	9.440	SUMMER	32166	3RS ET	P



DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
20-Jul-18	NWL	2	19.567	SUMMER	32166	3RS ET	P
20-Jul-18	NWL	3	33.930	SUMMER	32166	3RS ET	P
20-Jul-18	NWL	2	3.400	SUMMER	32166	3RS ET	S
20-Jul-18	NWL	3	8.660	SUMMER	32166	3RS ET	S
26-Jul-18	SWL	2	32.460	SUMMER	32166	3RS ET	P
26-Jul-18	SWL	3	22.153	SUMMER	32166	3RS ET	P
26-Jul-18	SWL	4	0.487	SUMMER	32166	3RS ET	P
26-Jul-18	SWL	2	8.040	SUMMER	32166	3RS ET	S
26-Jul-18	SWL	3	6.770	SUMMER	32166	3RS ET	S
26-Jul-18	SWL	4	0.580	SUMMER	32166	3RS ET	S
30-Jul-18	SWL	2	37.816	SUMMER	32166	3RS ET	P
30-Jul-18	SWL	3	17.730	SUMMER	32166	3RS ET	P
30-Jul-18	SWL	2	12.124	SUMMER	32166	3RS ET	S
30-Jul-18	SWL	3	3.490	SUMMER	32166	3RS ET	S
2-Aug-18	NWL	2	9.284	SUMMER	32166	3RS ET	P
2-Aug-18	NWL	3	46.887	SUMMER	32166	3RS ET	P
2-Aug-18	NWL	4	6.300	SUMMER	32166	3RS ET	P
2-Aug-18	NWL	2	2.029	SUMMER	32166	3RS ET	S
2-Aug-18	NWL	3	9.770	SUMMER	32166	3RS ET	S
2-Aug-18	NWL	4	0.400	SUMMER	32166	3RS ET	S
7-Aug-18	AW	2	4.960	SUMMER	32166	3RS ET	P
7-Aug-18	WL	1	2.480	SUMMER	32166	3RS ET	P
7-Aug-18	WL	2	8.859	SUMMER	32166	3RS ET	P
7-Aug-18	WL	3	4.158	SUMMER	32166	3RS ET	P
7-Aug-18	WL	4	3.370	SUMMER	32166	3RS ET	P
7-Aug-18	WL	2	3.270	SUMMER	32166	3RS ET	S
7-Aug-18	WL	3	4.142	SUMMER	32166	3RS ET	S
7-Aug-18	WL	4	1.120	SUMMER	32166	3RS ET	S
16-Aug-18	NEL	1	0.900	SUMMER	32166	3RS ET	P
16-Aug-18	NEL	2	29.510	SUMMER	32166	3RS ET	P
16-Aug-18	NEL	3	7.200	SUMMER	32166	3RS ET	P
16-Aug-18	NEL	1	0.400	SUMMER	32166	3RS ET	S
16-Aug-18	NEL	2	9.690	SUMMER	32166	3RS ET	S
16-Aug-18	DB	2	5.590	SUMMER	32166	3RS ET	P
16-Aug-18	DB	3	4.520	SUMMER	32166	3RS ET	P
16-Aug-18	DB	2	4.520	SUMMER	32166	3RS ET	S
16-Aug-18	DB	3	1.070	SUMMER	32166	3RS ET	S
17-Aug-18	DB	2	12.070	SUMMER	32166	3RS ET	P
17-Aug-18	DB	2	3.830	SUMMER	32166	3RS ET	S
17-Aug-18	NEL	2	35.410	SUMMER	32166	3RS ET	P
17-Aug-18	NEL	3	1.100	SUMMER	32166	3RS ET	P
17-Aug-18	NEL	2	9.880	SUMMER	32166	3RS ET	S
17-Aug-18	NEL	3	0.200	SUMMER	32166	3RS ET	S
20-Aug-18	NWL	1	9.500	SUMMER	32166	3RS ET	P
20-Aug-18	NWL	2	51.800	SUMMER	32166	3RS ET	P
20-Aug-18	NWL	3	1.300	SUMMER	32166	3RS ET	P
20-Aug-18	NWL	1	1.000	SUMMER	32166	3RS ET	S
20-Aug-18	NWL	2	11.000	SUMMER	32166	3RS ET	S
21-Aug-18	AW	1	4.700	SUMMER	32166	3RS ET	P

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
21-Aug-18	WL	2	24.554	SUMMER	32166	3RS ET	P
21-Aug-18	WL	3	3.309	SUMMER	32166	3RS ET	P
21-Aug-18	WL	2	7.939	SUMMER	32166	3RS ET	S
21-Aug-18	WL	3	0.572	SUMMER	32166	3RS ET	S
22-Aug-18	SWL	2	50.350	SUMMER	32166	3RS ET	P
22-Aug-18	SWL	3	4.900	SUMMER	32166	3RS ET	P
22-Aug-18	SWL	2	13.170	SUMMER	32166	3RS ET	S
22-Aug-18	SWL	3	2.400	SUMMER	32166	3RS ET	S
23-Aug-18	SWL	2	51.850	SUMMER	32166	3RS ET	P
23-Aug-18	SWL	3	2.905	SUMMER	32166	3RS ET	P
23-Aug-18	SWL	2	11.220	SUMMER	32166	3RS ET	S
23-Aug-18	SWL	3	4.000	SUMMER	32166	3RS ET	S
7-Sep-18	SWL	1	0.800	AUTUMN	32166	3RS ET	P
7-Sep-18	SWL	2	43.560	AUTUMN	32166	3RS ET	P
7-Sep-18	SWL	3	11.660	AUTUMN	32166	3RS ET	P
7-Sep-18	SWL	1	1.500	AUTUMN	32166	3RS ET	S
7-Sep-18	SWL	2	8.130	AUTUMN	32166	3RS ET	S
7-Sep-18	SWL	3	4.900	AUTUMN	32166	3RS ET	S
10-Sep-18	NEL	2	37.280	AUTUMN	32166	3RS ET	P
10-Sep-18	NEL	2	8.640	AUTUMN	32166	3RS ET	S
10-Sep-18	NEL	3	1.080	AUTUMN	32166	3RS ET	S
10-Sep-18	DB	2	7.250	AUTUMN	32166	3RS ET	P
10-Sep-18	DB	3	2.480	AUTUMN	32166	3RS ET	P
10-Sep-18	DB	2	4.620	AUTUMN	32166	3RS ET	S
10-Sep-18	DB	3	0.950	AUTUMN	32166	3RS ET	S
14-Sep-18	NWL	1	1.400	AUTUMN	32166	3RS ET	P
14-Sep-18	NWL	2	58.520	AUTUMN	32166	3RS ET	P
14-Sep-18	NWL	3	3.600	AUTUMN	32166	3RS ET	P
14-Sep-18	NWL	2	11.780	AUTUMN	32166	3RS ET	S
18-Sep-18	DB	2	2.630	AUTUMN	32166	3RS ET	P
18-Sep-18	DB	3	4.790	AUTUMN	32166	3RS ET	P
18-Sep-18	DB	4	2.700	AUTUMN	32166	3RS ET	P
18-Sep-18	DB	2	3.400	AUTUMN	32166	3RS ET	S
18-Sep-18	DB	3	2.080	AUTUMN	32166	3RS ET	S
18-Sep-18	NEL	2	4.900	AUTUMN	32166	3RS ET	P
18-Sep-18	NEL	3	28.270	AUTUMN	32166	3RS ET	P
18-Sep-18	NEL	4	4.070	AUTUMN	32166	3RS ET	P
18-Sep-18	NEL	2	1.000	AUTUMN	32166	3RS ET	S
18-Sep-18	NEL	3	8.260	AUTUMN	32166	3RS ET	S
18-Sep-18	NEL	4	1.000	AUTUMN	32166	3RS ET	S
19-Sep-18	SWL	2	42.334	AUTUMN	32166	3RS ET	P
19-Sep-18	SWL	3	12.170	AUTUMN	32166	3RS ET	P
19-Sep-18	SWL	2	13.810	AUTUMN	32166	3RS ET	S
19-Sep-18	SWL	3	0.900	AUTUMN	32166	3RS ET	S
20-Sep-18	AW	2	4.940	AUTUMN	32166	3RS ET	P
20-Sep-18	WL	2	6.421	AUTUMN	32166	3RS ET	P
20-Sep-18	WL	3	11.471	AUTUMN	32166	3RS ET	P
20-Sep-18	WL	2	5.212	AUTUMN	32166	3RS ET	S
20-Sep-18	WL	3	6.235	AUTUMN	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
21-Sep-18	AW	2	4.690	AUTUMN	32166	3RS ET	P
21-Sep-18	WL	2	4.136	AUTUMN	32166	3RS ET	P
21-Sep-18	WL	3	13.589	AUTUMN	32166	3RS ET	P
21-Sep-18	WL	2	2.288	AUTUMN	32166	3RS ET	S
21-Sep-18	WL	3	7.393	AUTUMN	32166	3RS ET	S
26-Sep-18	NWL	2	40.190	AUTUMN	32166	3RS ET	P
26-Sep-18	NWL	3	21.690	AUTUMN	32166	3RS ET	P
26-Sep-18	NWL	2	6.418	AUTUMN	32166	3RS ET	S
26-Sep-18	NWL	3	3.520	AUTUMN	32166	3RS ET	S
4-Oct-18	AW	2	1.010	AUTUMN	32166	3RS ET	P
4-Oct-18	AW	3	3.830	AUTUMN	32166	3RS ET	P
4-Oct-18	WL	3	16.560	AUTUMN	32166	3RS ET	P
4-Oct-18	WL	4	3.020	AUTUMN	32166	3RS ET	P
4-Oct-18	WL	2	0.740	AUTUMN	32166	3RS ET	S
4-Oct-18	WL	3	8.310	AUTUMN	32166	3RS ET	S
4-Oct-18	WL	4	1.110	AUTUMN	32166	3RS ET	S
5-Oct-18	NWL	2	9.800	AUTUMN	32166	3RS ET	P
5-Oct-18	NWL	3	37.010	AUTUMN	32166	3RS ET	P
5-Oct-18	NWL	4	15.400	AUTUMN	32166	3RS ET	P
5-Oct-18	NWL	2	1.100	AUTUMN	32166	3RS ET	S
5-Oct-18	NWL	3	8.290	AUTUMN	32166	3RS ET	S
5-Oct-18	NWL	4	1.400	AUTUMN	32166	3RS ET	S
8-Oct-18	NWL	2	45.386	AUTUMN	32166	3RS ET	P
8-Oct-18	NWL	3	14.046	AUTUMN	32166	3RS ET	P
8-Oct-18	NWL	2	10.674	AUTUMN	32166	3RS ET	S
8-Oct-18	NWL	3	1.390	AUTUMN	32166	3RS ET	S
11-Oct-18	DB	3	10.360	AUTUMN	32166	3RS ET	P
11-Oct-18	DB	2	0.910	AUTUMN	32166	3RS ET	S
11-Oct-18	DB	3	3.500	AUTUMN	32166	3RS ET	S
11-Oct-18	DB	4	1.030	AUTUMN	32166	3RS ET	S
11-Oct-18	NEL	2	15.780	AUTUMN	32166	3RS ET	P
11-Oct-18	NEL	3	19.940	AUTUMN	32166	3RS ET	P
11-Oct-18	NEL	4	1.900	AUTUMN	32166	3RS ET	P
11-Oct-18	NEL	2	3.580	AUTUMN	32166	3RS ET	S
11-Oct-18	NEL	3	5.900	AUTUMN	32166	3RS ET	S
12-Oct-18	DB	3	10.430	AUTUMN	32166	3RS ET	P
12-Oct-18	DB	3	5.370	AUTUMN	32166	3RS ET	S
12-Oct-18	NEL	2	29.540	AUTUMN	32166	3RS ET	P
12-Oct-18	NEL	3	6.500	AUTUMN	32166	3RS ET	P
12-Oct-18	NEL	2	7.440	AUTUMN	32166	3RS ET	S
12-Oct-18	NEL	3	2.900	AUTUMN	32166	3RS ET	S
23-Oct-18	SWL	2	24.730	AUTUMN	32166	3RS ET	P
23-Oct-18	SWL	3	31.390	AUTUMN	32166	3RS ET	P
23-Oct-18	SWL	2	9.780	AUTUMN	32166	3RS ET	S
23-Oct-18	SWL	3	5.100	AUTUMN	32166	3RS ET	S
24-Oct-18	AW	2	4.710	AUTUMN	32166	3RS ET	P
24-Oct-18	WL	2	13.470	AUTUMN	32166	3RS ET	P
24-Oct-18	WL	3	4.494	AUTUMN	32166	3RS ET	P
24-Oct-18	WL	4	1.000	AUTUMN	32166	3RS ET	P

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
24-Oct-18	WL	2	6.760	AUTUMN	32166	3RS ET	S
24-Oct-18	WL	3	2.240	AUTUMN	32166	3RS ET	S
24-Oct-18	WL	4	0.300	AUTUMN	32166	3RS ET	S
24-Oct-18	WL	5	0.500	AUTUMN	32166	3RS ET	S
26-Oct-18	SWL	2	25.709	AUTUMN	32166	3RS ET	P
26-Oct-18	SWL	3	30.667	AUTUMN	32166	3RS ET	P
26-Oct-18	SWL	2	9.234	AUTUMN	32166	3RS ET	S
26-Oct-18	SWL	3	5.860	AUTUMN	32166	3RS ET	S
6-Nov-18	NWL	2	7.350	AUTUMN	32166	3RS ET	P
6-Nov-18	NWL	3	40.500	AUTUMN	32166	3RS ET	P
6-Nov-18	NWL	4	12.930	AUTUMN	32166	3RS ET	P
6-Nov-18	NWL	2	2.000	AUTUMN	32166	3RS ET	S
6-Nov-18	NWL	3	7.820	AUTUMN	32166	3RS ET	S
6-Nov-18	NWL	4	1.800	AUTUMN	32166	3RS ET	S
7-Nov-18	DB	2	7.160	AUTUMN	32166	3RS ET	P
7-Nov-18	DB	3	2.960	AUTUMN	32166	3RS ET	P
7-Nov-18	DB	2	3.780	AUTUMN	32166	3RS ET	S
7-Nov-18	DB	3	1.800	AUTUMN	32166	3RS ET	S
7-Nov-18	NEL	2	2.200	AUTUMN	32166	3RS ET	P
7-Nov-18	NEL	3	30.480	AUTUMN	32166	3RS ET	P
7-Nov-18	NEL	4	4.540	AUTUMN	32166	3RS ET	P
7-Nov-18	NEL	2	0.700	AUTUMN	32166	3RS ET	S
7-Nov-18	NEL	3	9.180	AUTUMN	32166	3RS ET	S
12-Nov-18	NWL	2	60.880	AUTUMN	32166	3RS ET	P
12-Nov-18	NWL	3	2.180	AUTUMN	32166	3RS ET	P
12-Nov-18	NWL	2	12.440	AUTUMN	32166	3RS ET	S
13-Nov-18	DB	2	1.200	AUTUMN	32166	3RS ET	P
13-Nov-18	DB	3	10.270	AUTUMN	32166	3RS ET	P
13-Nov-18	DB	2	0.800	AUTUMN	32166	3RS ET	S
13-Nov-18	DB	3	4.730	AUTUMN	32166	3RS ET	S
13-Nov-18	NEL	1	10.400	AUTUMN	32166	3RS ET	P
13-Nov-18	NEL	2	13.700	AUTUMN	32166	3RS ET	P
13-Nov-18	NEL	3	13.500	AUTUMN	32166	3RS ET	P
13-Nov-18	NEL	1	1.800	AUTUMN	32166	3RS ET	S
13-Nov-18	NEL	2	2.100	AUTUMN	32166	3RS ET	S
13-Nov-18	NEL	3	5.600	AUTUMN	32166	3RS ET	S
16-Nov-18	AW	2	2.900	AUTUMN	32166	3RS ET	P
16-Nov-18	AW	3	1.910	AUTUMN	32166	3RS ET	P
16-Nov-18	WL	2	2.752	AUTUMN	32166	3RS ET	P
16-Nov-18	WL	3	10.665	AUTUMN	32166	3RS ET	P
16-Nov-18	WL	4	2.306	AUTUMN	32166	3RS ET	P
16-Nov-18	WL	2	1.680	AUTUMN	32166	3RS ET	S
16-Nov-18	WL	3	5.483	AUTUMN	32166	3RS ET	S
16-Nov-18	WL	4	0.355	AUTUMN	32166	3RS ET	S
20-Nov-18	AW	3	2.570	AUTUMN	32166	3RS ET	P
20-Nov-18	AW	4	1.950	AUTUMN	32166	3RS ET	P
20-Nov-18	WL	2	6.864	AUTUMN	32166	3RS ET	P
20-Nov-18	WL	3	6.279	AUTUMN	32166	3RS ET	P
20-Nov-18	WL	4	5.049	AUTUMN	32166	3RS ET	P

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
20-Nov-18	WL	5	1.710	AUTUMN	32166	3RS ET	P
20-Nov-18	WL	2	6.792	AUTUMN	32166	3RS ET	S
20-Nov-18	WL	3	1.259	AUTUMN	32166	3RS ET	S
20-Nov-18	WL	4	1.812	AUTUMN	32166	3RS ET	S
20-Nov-18	WL	5	0.370	AUTUMN	32166	3RS ET	S
21-Nov-18	SWL	2	10.974	AUTUMN	32166	3RS ET	P
21-Nov-18	SWL	3	29.690	AUTUMN	32166	3RS ET	P
21-Nov-18	SWL	4	10.110	AUTUMN	32166	3RS ET	P
21-Nov-18	SWL	5	1.200	AUTUMN	32166	3RS ET	P
21-Nov-18	SWL	2	3.840	AUTUMN	32166	3RS ET	S
21-Nov-18	SWL	3	9.400	AUTUMN	32166	3RS ET	S
21-Nov-18	SWL	4	2.860	AUTUMN	32166	3RS ET	S
23-Nov-18	SWL	2	17.802	AUTUMN	32166	3RS ET	P
23-Nov-18	SWL	3	33.670	AUTUMN	32166	3RS ET	P
23-Nov-18	SWL	4	4.260	AUTUMN	32166	3RS ET	P
23-Nov-18	SWL	2	8.268	AUTUMN	32166	3RS ET	S
23-Nov-18	SWL	3	6.410	AUTUMN	32166	3RS ET	S
23-Nov-18	SWL	4	1.090	AUTUMN	32166	3RS ET	S
3-Dec-18	NWL	2	40.660	WINTER	32166	3RS ET	P
3-Dec-18	NWL	3	21.070	WINTER	32166	3RS ET	P
3-Dec-18	NWL	2	9.970	WINTER	32166	3RS ET	S
3-Dec-18	NWL	3	1.200	WINTER	32166	3RS ET	S
4-Dec-18	SWL	1	1.500	WINTER	32166	3RS ET	P
4-Dec-18	SWL	2	53.480	WINTER	32166	3RS ET	P
4-Dec-18	SWL	2	13.410	WINTER	32166	3RS ET	S
6-Dec-18	DB	2	0.699	WINTER	32166	3RS ET	P
6-Dec-18	DB	3	9.501	WINTER	32166	3RS ET	P
6-Dec-18	DB	2	0.920	WINTER	32166	3RS ET	S
6-Dec-18	DB	3	4.180	WINTER	32166	3RS ET	S
6-Dec-18	NEL	2	31.662	WINTER	32166	3RS ET	P
6-Dec-18	NEL	3	5.158	WINTER	32166	3RS ET	P
6-Dec-18	NEL	2	9.300	WINTER	32166	3RS ET	S
6-Dec-18	NEL	3	1.080	WINTER	32166	3RS ET	S
7-Dec-18	NEL	2	25.400	WINTER	32166	3RS ET	P
7-Dec-18	NEL	3	11.810	WINTER	32166	3RS ET	P
7-Dec-18	NEL	2	5.200	WINTER	32166	3RS ET	S
7-Dec-18	NEL	3	4.890	WINTER	32166	3RS ET	S
7-Dec-18	DB	3	9.820	WINTER	32166	3RS ET	P
7-Dec-18	DB	4	0.360	WINTER	32166	3RS ET	P
7-Dec-18	DB	3	5.020	WINTER	32166	3RS ET	S
17-Dec-18	NWL	2	9.700	WINTER	32166	3RS ET	P
17-Dec-18	NWL	3	50.000	WINTER	32166	3RS ET	P
17-Dec-18	NWL	4	3.700	WINTER	32166	3RS ET	P
17-Dec-18	NWL	2	3.400	WINTER	32166	3RS ET	S
17-Dec-18	NWL	3	9.000	WINTER	32166	3RS ET	S
18-Dec-18	SWL	2	13.300	WINTER	32166	3RS ET	P
18-Dec-18	SWL	3	19.310	WINTER	32166	3RS ET	P
18-Dec-18	SWL	4	6.734	WINTER	32166	3RS ET	P
18-Dec-18	SWL	5	15.820	WINTER	32166	3RS ET	P

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
18-Dec-18	SWL	2	1.300	WINTER	32166	3RS ET	S
18-Dec-18	SWL	3	9.990	WINTER	32166	3RS ET	S
18-Dec-18	SWL	4	2.406	WINTER	32166	3RS ET	S
18-Dec-18	SWL	5	2.140	WINTER	32166	3RS ET	S
20-Dec-18	AW	2	4.680	WINTER	32166	3RS ET	P
20-Dec-18	WL	1	1.360	WINTER	32166	3RS ET	P
20-Dec-18	WL	2	18.841	WINTER	32166	3RS ET	P
20-Dec-18	WL	2	10.999	WINTER	32166	3RS ET	S
21-Dec-18	AW	1	4.800	WINTER	32166	3RS ET	P
21-Dec-18	WL	1	1.990	WINTER	32166	3RS ET	P
21-Dec-18	WL	2	12.080	WINTER	32166	3RS ET	P
21-Dec-18	WL	3	4.200	WINTER	32166	3RS ET	P
21-Dec-18	WL	4	0.800	WINTER	32166	3RS ET	P
21-Dec-18	WL	1	1.370	WINTER	32166	3RS ET	S
21-Dec-18	WL	2	5.760	WINTER	32166	3RS ET	S
21-Dec-18	WL	3	1.900	WINTER	32166	3RS ET	S
21-Dec-18	WL	4	1.200	WINTER	32166	3RS ET	S

## CWD Small Vessel Line-transect Survey

## Sighting Data

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
8-Jan-18	1	1019	CWD	5	SWL	2	30	ON	3RS ET	22.2153	113.9359	WINTER	PURSE SEINER	N/A
10-Jan-18	1	1318	CWD	8	DB	3	12	ON	3RS ET	22.4278	113.8780	WINTER	NONE	N/A
15-Jan-18	1	0949	CWD	11	AW	2	72	ON	3RS ET	22.2896	113.8777	WINTER	NONE	N/A
15-Jan-18	2	1048	CWD	2	WL	2	147	ON	3RS ET	22.2938	113.8616	WINTER	NONE	N/A
15-Jan-18	3	1128	CWD	13	WL	2	817	ON	3RS ET	22.2602	113.8400	WINTER	GILLNETTER	N/A
15-Jan-18	4	1217	CWD	2	WL	2	206	ON	3RS ET	22.2418	113.8359	WINTER	GILLNETTER	N/A
15-Jan-18	5	1242	CWD	3	WL	2	309	ON	3RS ET	22.2281	113.8377	WINTER	NONE	N/A
15-Jan-18	6	1316	CWD	2	WL	2	65	ON	3RS ET	22.2145	113.8313	WINTER	NONE	N/A
15-Jan-18	7	1335	CWD	6	WL	2	281	ON	3RS ET	22.2053	113.8346	WINTER	NONE	N/A
15-Jan-18	8	1405	CWD	9	WL	2	179	ON	3RS ET	22.1958	113.8350	WINTER	NONE	N/A
15-Jan-18	9	1432	CWD	3	WL	2	5	ON	3RS ET	22.1873	113.8318	WINTER	NONE	N/A
15-Jan-18	10	1453	CWD	2	SWL	2	248	ON	3RS ET	22.1841	113.8501	WINTER	NONE	N/A
16-Jan-18	1	0944	CWD	1	AW	2	79	ON	3RS ET	22.2880	113.8842	WINTER	NONE	N/A
16-Jan-18	2	1032	CWD	2	WL	3	74	ON	3RS ET	22.2687	113.8541	WINTER	NONE	N/A
16-Jan-18	3	1448	CWD	1	SWL	2	191	ON	3RS ET	22.1746	113.8975	WINTER	NONE	N/A
17-Jan-18	1	1045	FP	2	SWL	2	813	ON	3RS ET	22.1681	113.9359	WINTER	NONE	N/A
17-Jan-18	2	1057	FP	1	SWL	2	N/A	OFF	3RS ET	22.1529	113.9358	WINTER	NONE	N/A
17-Jan-18	3	1106	FP	1	SWL	1	372	ON	3RS ET	22.1437	113.9272	WINTER	NONE	N/A
17-Jan-18	4	1152	FP	1	SWL	2	140	ON	3RS ET	22.1835	113.9203	WINTER	NONE	N/A
17-Jan-18	5	1244	CWD	2	SWL	2	43	ON	3RS ET	22.1907	113.9078	WINTER	NONE	N/A
17-Jan-18	6	1457	CWD	1	SWL	2	149	ON	3RS ET	22.1874	113.8683	WINTER	NONE	N/A
17-Jan-18	7	1512	CWD	6	SWL	2	533	ON	3RS ET	22.1937	113.8687	WINTER	NONE	N/A
18-Jan-18	1	0933	CWD	4	NWL	2	451	ON	3RS ET	22.4000	113.8681	WINTER	NONE	N/A
18-Jan-18	2	1017	CWD	4	NWL	1	362	ON	3RS ET	22.3321	113.8689	WINTER	NONE	N/A
18-Jan-18	3	1044	CWD	4	NWL	2	221	ON	3RS ET	22.3129	113.8680	WINTER	NONE	N/A
18-Jan-18	4	1121	CWD	1	NWL	2	120	ON	3RS ET	22.2809	113.8782	WINTER	NONE	N/A
18-Jan-18	5	1135	CWD	2	NWL	2	56	ON	3RS ET	22.2934	113.8780	WINTER	NONE	N/A
6-Feb-18	1	1043	CWD	2	NWL	3	N/A	OFF	3RS ET	22.2784	113.8777	WINTER	GILLNETTER	N/A
6-Feb-18	2	1058	CWD	1	NWL	3	80	ON	3RS ET	22.2829	113.8785	WINTER	NONE	N/A
6-Feb-18	3	1153	CWD	5	NWL	3	75	ON	3RS ET	22.3720	113.8771	WINTER	NONE	N/A
6-Feb-18	4	1523	CWD	2	NWL	2	N/A	OFF	3RS ET	22.3304	113.9495	WINTER	NONE	N/A

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
12-Feb-18	1	1121	CWD	2	NWL	3	76	ON	3RS ET	22.3384	113.8781	WINTER	NONE	N/A
12-Feb-18	2	1153	CWD	7	NWL	2	80	ON	3RS ET	22.3709	113.8768	WINTER	NONE	N/A
12-Feb-18	3	1240	CWD	3	NWL	3	345	ON	3RS ET	22.4121	113.8780	WINTER	NONE	N/A
12-Feb-18	4	1348	CWD	3	NWL	3	114	ON	3RS ET	22.3460	113.8981	WINTER	NONE	N/A
13-Feb-18	1	0943	CWD	3	AW	2	548	ON	3RS ET	22.2917	113.8745	WINTER	NONE	N/A
13-Feb-18	2	1011	CWD	1	AW	2	N/A	OFF	3RS ET	22.2879	113.8838	WINTER	NONE	N/A
13-Feb-18	3	1052	CWD	1	WL	2	366	ON	3RS ET	22.2686	113.8559	WINTER	NONE	N/A
13-Feb-18	4	1115	CWD	3	WL	2	475	ON	3RS ET	22.2604	113.8491	WINTER	NONE	N/A
13-Feb-18	5	1141	CWD	4	WL	2	392	ON	3RS ET	22.2604	113.8445	WINTER	NONE	N/A
13-Feb-18	6	1158	CWD	1	WL	2	47	ON	3RS ET	22.2605	113.8419	WINTER	NONE	N/A
13-Feb-18	7	1212	CWD	4	WL	2	200	ON	3RS ET	22.2504	113.8388	WINTER	NONE	N/A
13-Feb-18	8	1248	CWD	2	WL	2	456	ON	3RS ET	22.2375	113.8262	WINTER	NONE	N/A
14-Feb-18	1	0931	CWD	1	AW	2	11	ON	3RS ET	22.3019	113.8813	WINTER	NONE	N/A
14-Feb-18	2	0944	CWD	5	AW	2	638	ON	3RS ET	22.2951	113.8805	WINTER	NONE	N/A
14-Feb-18	3	1020	CWD	5	WL	2	269	ON	3RS ET	22.3031	113.8611	WINTER	NONE	N/A
14-Feb-18	4	1035	CWD	4	WL	2	231	ON	3RS ET	22.2937	113.8616	WINTER	GILLNETTER	N/A
14-Feb-18	5	1058	CWD	1	WL	3	761	ON	3RS ET	22.2751	113.8494	WINTER	NONE	N/A
14-Feb-18	6	1156	CWD	1	WL	2	71	ON	3RS ET	22.2415	113.8386	WINTER	NONE	N/A
14-Feb-18	7	1211	CWD	4	WL	2	6	ON	3RS ET	22.2416	113.8352	WINTER	NONE	N/A
14-Feb-18	8	1256	CWD	5	WL	2	110	ON	3RS ET	22.2140	113.8237	WINTER	NONE	N/A
22-Feb-18	1	0936	CWD	1	DB	3	240	ON	3RS ET	22.4219	113.8837	WINTER	HANG TRAWLER	N/A
23-Feb-18	1	1222	CWD	1	SWL	3	8	ON	3RS ET	22.1759	113.9072	WINTER	NONE	N/A
5-Mar-18	1	1328	FP	2	SWL	2	58	ON	3RS ET	22.1574	113.8973	SPRING	NONE	N/A
5-Mar-18	2	1338	FP	2	SWL	2	145	ON	3RS ET	22.1484	113.8941	SPRING	NONE	N/A
5-Mar-18	3	1454	FP	3	SWL	2	103	ON	3RS ET	22.1824	113.8685	SPRING	NONE	N/A
12-Mar-18	1	1146	CWD	10	WL	2	122	ON	3RS ET	22.2076	113.8396	SPRING	NONE	N/A
12-Mar-18	2	1208	CWD	2	WL	2	17	ON	3RS ET	22.2053	113.8384	SPRING	NONE	N/A
12-Mar-18	3	1412	CWD	1	SWL	3	164	ON	3RS ET	22.1995	113.8784	SPRING	NONE	N/A
13-Mar-18	1	1037	CWD	2	WL	2	56	ON	3RS ET	22.2666	113.8596	SPRING	NONE	N/A
13-Mar-18	2	1128	CWD	1	WL	2	140	ON	3RS ET	22.2348	113.8251	SPRING	NONE	N/A
13-Mar-18	3	1205	CWD	5	WL	2	384	ON	3RS ET	22.2231	113.8195	SPRING	NONE	N/A
13-Mar-18	4	1244	CWD	1	WL	4	12	ON	3RS ET	22.2143	113.8273	SPRING	NONE	N/A
13-Mar-18	5	1324	CWD	1	WL	2	36	ON	3RS ET	22.1961	113.8406	SPRING	NONE	N/A



DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
14-Mar-18	1	1000	CWD	2	NWL	2	65	ON	3RS ET	22.3539	113.8689	SPRING	NONE	N/A
14-Mar-18	2	1013	CWD	2	NWL	2	335	ON	3RS ET	22.3431	113.8687	SPRING	NONE	N/A
14-Mar-18	3	1126	CWD	2	NWL	2	N/A	OFF	3RS ET	22.3245	113.8729	SPRING	NONE	N/A
14-Mar-18	4	1208	CWD	4	NWL	2	57	ON	3RS ET	22.3912	113.8785	SPRING	NONE	N/A
14-Mar-18	5	1253	CWD	1	NWL	3	587	ON	3RS ET	22.3824	113.8888	SPRING	NONE	N/A
14-Mar-18	6	1310	CWD	2	NWL	3	13	ON	3RS ET	22.3837	113.8887	SPRING	NONE	N/A
21-Mar-18	1	1050	FP	4	SWL	2	59	ON	3RS ET	22.1486	113.9340	SPRING	NONE	N/A
21-Mar-18	2	1106	FP	1	SWL	2	201	ON	3RS ET	22.1599	113.9272	SPRING	NONE	N/A
21-Mar-18	3	1111	FP	2	SWL	2	262	ON	3RS ET	22.1658	113.9272	SPRING	NONE	N/A
21-Mar-18	4	1202	FP	1	SWL	2	30	ON	3RS ET	22.1453	113.9176	SPRING	NONE	N/A
21-Mar-18	5	1311	FP	1	SWL	4	225	ON	3RS ET	22.1641	113.8975	SPRING	NONE	N/A
22-Mar-18	1	1219	CWD	6	NWL	3	981	ON	3RS ET	22.3840	113.8774	SPRING	PURSE SEINER	N/A
22-Mar-18	2	1305	CWD	2	NWL	3	579	ON	3RS ET	22.3952	113.8893	SPRING	NONE	N/A
22-Mar-18	3	1418	CWD	1	NWL	2	50	ON	3RS ET	22.3780	113.8980	SPRING	NONE	N/A
22-Mar-18	4	1454	CWD	1	NWL	2	51	ON	3RS ET	22.3760	113.9062	SPRING	NONE	N/A
3-Apr-18	1	1048	FP	1	SWL	1	1489	ON	3RS ET	22.1788	113.9360	SPRING	NONE	N/A
3-Apr-18	2	1056	FP	2	SWL	1	192	ON	3RS ET	22.1652	113.9359	SPRING	NONE	N/A
4-Apr-18	1	1058	FP	3	SWL	1	23	ON	3RS ET	22.1556	113.9361	SPRING	NONE	N/A
4-Apr-18	2	1208	FP	2	SWL	1	116	ON	3RS ET	22.1499	113.9178	SPRING	NONE	N/A
4-Apr-18	3	1216	FP	1	SWL	1	85	ON	3RS ET	22.1415	113.9128	SPRING	NONE	N/A
4-Apr-18	4	1335	FP	5	SWL	2	176	ON	3RS ET	22.1487	113.8963	SPRING	NONE	N/A
4-Apr-18	5	1405	CWD	2	SWL	2	78	ON	3RS ET	22.2025	113.8879	SPRING	NONE	N/A
11-Apr-18	1	1034	CWD	2	WL	2	444	ON	3RS ET	22.2666	113.8595	SPRING	PURSE SEINER	N/A
11-Apr-18	2	1108	CWD	1	WL	3	117	ON	3RS ET	22.2500	113.8442	SPRING	NONE	N/A
11-Apr-18	3	1129	CWD	3	WL	3	511	ON	3RS ET	22.2414	113.8365	SPRING	SHRIMP TRAWLER	N/A
11-Apr-18	4	1226	CWD	3	WL	3	119	ON	3RS ET	22.2145	113.8315	SPRING	NONE	N/A
12-Apr-18	1	1029	CWD	2	WL	2	N/A	OFF	3RS ET	22.2601	113.8489	SPRING	NONE	N/A
12-Apr-18	2	1054	CWD	6	WL	3	285	ON	3RS ET	22.2507	113.8431	SPRING	NONE	N/A
12-Apr-18	3	1130	CWD	8	WL	2	18	ON	3RS ET	22.2416	113.8367	SPRING	NONE	N/A
12-Apr-18	4	1201	CWD	3	WL	3	136	ON	3RS ET	22.2321	113.8322	SPRING	NONE	N/A
12-Apr-18	5	1242	CWD	5	WL	3	119	ON	3RS ET	22.2145	113.8317	SPRING	NONE	N/A
12-Apr-18	6	1345	CWD	1	WL	3	N/A	OFF	3RS ET	22.1919	113.8428	SPRING	NONE	N/A
12-Apr-18	7	1352	CWD	3	SWL	2	320	ON	3RS ET	22.1928	113.8491	SPRING	NONE	N/A

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
12-Apr-18	8	1421	CWD	1	SWL	2	21	ON	3RS ET	22.1684	113.8577	SPRING	NONE	N/A
19-Apr-18	1	0953	CWD	1	NWL	3	114	ON	3RS ET	22.3730	113.8693	SPRING	NONE	N/A
19-Apr-18	2	1207	CWD	1	NWL	2	15	ON	3RS ET	22.3832	113.8769	SPRING	NONE	N/A
19-Apr-18	3	1235	CWD	5	NWL	2	410	ON	3RS ET	22.4063	113.8775	SPRING	NONE	N/A
19-Apr-18	4	1316	CWD	5	NWL	2	N/A	OFF	3RS ET	22.4033	113.8881	SPRING	NONE	N/A
23-Apr-18	1	0946	CWD	6	NWL	2	413	ON	3RS ET	22.3930	113.8703	SPRING	NONE	N/A
3-May-18	1	1131	CWD	2	NWL	3	35	ON	3RS ET	22.3558	113.8781	SPRING	NONE	N/A
14-May-18	1	1057	CWD	2	SWL	2	151	ON	3RS ET	22.1972	113.8588	SPRING	NONE	N/A
14-May-18	2	1115	CWD	5	SWL	2	121	ON	3RS ET	22.1994	113.8690	SPRING	NONE	N/A
14-May-18	3	1139	CWD	1	SWL	2	4	ON	3RS ET	22.1953	113.8689	SPRING	NONE	N/A
14-May-18	4	1250	CWD	1	SWL	3	191	ON	3RS ET	22.1881	113.8882	SPRING	NONE	N/A
14-May-18	5	1537	FP	6	SWL	3	21	ON	3RS ET	22.1652	113.9273	SPRING	NONE	N/A
14-May-18	6	1602	FP	3	SWL	3	116	ON	3RS ET	22.1439	113.9274	SPRING	NONE	N/A
14-May-18	7	1610	FP	1	SWL	3	16	ON	3RS ET	22.1462	113.9327	SPRING	NONE	N/A
14-May-18	8	1622	FP	3	SWL	3	509	ON	3RS ET	22.1633	113.9366	SPRING	NONE	N/A
16-May-18	1	1036	CWD	1	WL	3	225	ON	3RS ET	22.2655	113.8581	SPRING	NONE	N/A
16-May-18	2	1059	CWD	2	WL	3	122	ON	3RS ET	22.2573	113.8370	SPRING	NONE	N/A
23-May-18	1	1039	FP	2	SWL	3	15	ON	3RS ET	22.1684	113.9365	SPRING	NONE	N/A
23-May-18	2	1046	FP	2	SWL	3	37	ON	3RS ET	22.1651	113.9361	SPRING	NONE	N/A
23-May-18	3	1110	FP	3	SWL	3	182	ON	3RS ET	22.1618	113.9279	SPRING	NONE	N/A
23-May-18	4	1138	CWD	5	SWL	2	1155	ON	3RS ET	22.1989	113.9180	SPRING	NONE	N/A
23-May-18	5	1238	FP	4	SWL	3	17	ON	3RS ET	22.1411	113.9136	SPRING	NONE	N/A
21-Jun-18	1	1054	CWD	1	SWL	3	51	ON	3RS ET	22.1914	113.8491	SUMMER	NONE	P
21-Jun-18	2	1219	CWD	3	SWL	3	21	ON	3RS ET	22.2040	113.8781	SUMMER	NONE	P
21-Jun-18	3	1331	CWD	6	SWL	3	11	ON	3RS ET	22.1907	113.8973	SUMMER	NONE	P
21-Jun-18	4	1606	FP	3	SWL	3	24	ON	3RS ET	22.1653	113.9368	SUMMER	NONE	P
25-Jun-18	1	1059	CWD	1	SWL	4	138	ON	3RS ET	22.1822	113.8686	SUMMER	NONE	P
25-Jun-18	2	1308	CWD	4	SWL	3	119	ON	3RS ET	22.1934	113.9080	SUMMER	NONE	P
25-Jun-18	3	1332	CWD	8	SWL	3	32	ON	3RS ET	22.1945	113.9083	SUMMER	NONE	P
25-Jun-18	4	1356	CWD	1	SWL	3	129	ON	3RS ET	22.1780	113.9054	SUMMER	NONE	S
25-Jun-18	5	1456	CWD	4	SWL	2	6	ON	3RS ET	22.1805	113.9218	SUMMER	NONE	S
25-Jun-18	6	1519	CWD	7	SWL	2	29	ON	3RS ET	22.1867	113.9181	SUMMER	NONE	P
26-Jun-18	1	1137	CWD	1	WL	3	33	ON	3RS ET	22.2154	113.8192	SUMMER	NONE	P

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
27-Jun-18	1	1049	CWD	2	WL	3	51	ON	3RS ET	22.2524	113.8341	SUMMER	NONE	S
27-Jun-18	2	1106	CWD	3	WL	3	188	ON	3RS ET	22.2497	113.8406	SUMMER	NONE	P
27-Jun-18	3	1141	CWD	2	WL	3	27	ON	3RS ET	22.2331	113.8236	SUMMER	NONE	S
27-Jun-18	4	1200	CWD	5	WL	3	30	ON	3RS ET	22.2318	113.8390	SUMMER	NONE	P
27-Jun-18	5	1226	CWD	1	WL	3	122	ON	3RS ET	22.2237	113.8249	SUMMER	NONE	P
27-Jun-18	6	1234	CWD	12	WL	3	38	ON	3RS ET	22.2166	113.8199	SUMMER	NONE	S
27-Jun-18	7	1309	CWD	2	WL	3	145	ON	3RS ET	22.2141	113.8319	SUMMER	NONE	P
27-Jun-18	8	1341	CWD	2	WL	4	165	ON	3RS ET	22.1938	113.8425	SUMMER	NONE	S
11-Jul-18	1	1007	CWD	2	WL	2	569	ON	3RS ET	22.2873	113.8608	SUMMER	NONE	P
11-Jul-18	2	1027	CWD	1	WL	2	151	ON	3RS ET	22.2731	113.8471	SUMMER	NONE	S
11-Jul-18	3	1045	CWD	1	WL	2	247	ON	3RS ET	22.2692	113.8602	SUMMER	NONE	P
11-Jul-18	4	1108	CWD	1	WL	3	470	ON	3RS ET	22.2601	113.8498	SUMMER	NONE	P
11-Jul-18	5	1212	CWD	1	WL	3	303	ON	3RS ET	22.2232	113.8315	SUMMER	NONE	P
11-Jul-18	6	1237	CWD	3	WL	3	201	ON	3RS ET	22.2132	113.8211	SUMMER	NONE	P
11-Jul-18	7	1308	CWD	12	WL	3	159	ON	3RS ET	22.2050	113.8345	SUMMER	NONE	P
11-Jul-18	8	1403	CWD	10	WL	3	163	ON	3RS ET	22.1950	113.8422	SUMMER	NONE	S
17-Jul-18	1	1033	CWD	3	WL	2	696	ON	3RS ET	22.2607	113.8455	SUMMER	NONE	P
17-Jul-18	2	1100	CWD	1	WL	2	83	ON	3RS ET	22.2504	113.8371	SUMMER	NONE	P
17-Jul-18	3	1122	CWD	3	WL	3	501	ON	3RS ET	22.2415	113.8447	SUMMER	NONE	P
17-Jul-18	4	1201	CWD	1	WL	3	90	ON	3RS ET	22.2148	113.8195	SUMMER	NONE	S
17-Jul-18	5	1232	CWD	3	WL	3	46	ON	3RS ET	22.2009	113.8247	SUMMER	NONE	S
20-Jul-18	1	1040	CWD	1	NWL	3	680	ON	3RS ET	22.2720	113.8702	SUMMER	NONE	P
20-Jul-18	2	1233	CWD	2	NWL	2	N/A	OFF	3RS ET	22.3495	113.8832	SUMMER	NONE	N/A
20-Jul-18	3	1251	CWD	2	NWL	2	N/A	OFF	3RS ET	22.3446	113.8860	SUMMER	NONE	N/A
26-Jul-18	1	1152	CWD	2	SWL	2	30	ON	3RS ET	22.1924	113.8878	SUMMER	NONE	P
26-Jul-18	2	1255	CWD	1	SWL	2	28	ON	3RS ET	22.1821	113.8982	SUMMER	NONE	P
26-Jul-18	3	1412	FP	2	SWL	3	52	ON	3RS ET	22.1540	113.9177	SUMMER	NONE	P
30-Jul-18	1	1244	CWD	1	SWL	3	252	ON	3RS ET	22.1949	113.8973	SUMMER	NONE	P
30-Jul-18	2	1317	CWD	2	SWL	2	85	ON	3RS ET	22.1986	113.9080	SUMMER	NONE	P
30-Jul-18	3	1345	CWD	3	SWL	3	401	ON	3RS ET	22.1717	113.9079	SUMMER	NONE	P
30-Jul-18	4	1611	CWD	3	SWL	2	219	ON	3RS ET	22.2085	113.9363	SUMMER	NONE	P
2-Aug-18	1	1029	CWD	15	NWL	2	999	ON	3RS ET	22.2945	113.8705	SUMMER	NONE	P
2-Aug-18	2	1122	CWD	1	NWL	3	12	ON	3RS ET	22.2741	113.8705	SUMMER	NONE	P

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
2-Aug-18	3	1156	CWD	2	NWL	2	17	ON	3RS ET	22.2901	113.8786	SUMMER	NONE	P
7-Aug-18	1	1008	CWD	2	WL	1	250	ON	3RS ET	22.2920	113.8613	SUMMER	NONE	P
7-Aug-18	2	1043	CWD	5	WL	2	69	ON	3RS ET	22.2642	113.8578	SUMMER	NONE	S
7-Aug-18	3	1328	CWD	2	WL	2	524	ON	3RS ET	22.2027	113.8233	SUMMER	NONE	S
7-Aug-18	4	1344	CWD	5	WL	2	352	ON	3RS ET	22.1966	113.8411	SUMMER	NONE	P
17-Aug-18	1	1149	CWD	1	NEL	2	8	ON	3RS ET	22.3387	113.9562	SUMMER	NONE	P
21-Aug-18	1	1025	CWD	2	WL	2	22	ON	3RS ET	22.2688	113.8601	SUMMER	NONE	P
21-Aug-18	2	1052	CWD	5	WL	2	267	ON	3RS ET	22.2526	113.8343	SUMMER	NONE	S
21-Aug-18	3	1133	CWD	1	WL	2	380	ON	3RS ET	22.2417	113.8352	SUMMER	NONE	P
21-Aug-18	4	1149	CWD	1	WL	2	181	ON	3RS ET	22.2357	113.8253	SUMMER	NONE	S
21-Aug-18	5	1209	CWD	8	WL	2	93	ON	3RS ET	22.2226	113.8359	SUMMER	NONE	P
21-Aug-18	6	1241	CWD	2	WL	2	26	ON	3RS ET	22.2140	113.8291	SUMMER	NONE	P
21-Aug-18	7	1304	CWD	2	WL	2	26	ON	3RS ET	22.2055	113.8303	SUMMER	NONE	P
21-Aug-18	8	1320	CWD	5	WL	2	160	ON	3RS ET	22.2039	113.8222	SUMMER	NONE	S
21-Aug-18	9	1340	CWD	2	WL	3	162	ON	3RS ET	22.1963	113.8415	SUMMER	NONE	P
22-Aug-18	1	1439	CWD	3	SWL	2	17	ON	3RS ET	22.1860	113.8689	SUMMER	NONE	P
23-Aug-18	1	1457	CWD	1	SWL	2	161	ON	3RS ET	22.1881	113.8592	SUMMER	NONE	P
23-Aug-18	2	1522	CWD	5	SWL	2	263	ON	3RS ET	22.1842	113.8491	SUMMER	NONE	P
7-Sep-18	1	1408	FP	1	SWL	2	244	ON	3RS ET	22.1951	113.9275	AUTUMN	NONE	P
7-Sep-18	2	1425	FP	5	SWL	2	147	ON	3RS ET	22.1751	113.9282	AUTUMN	NONE	P
14-Sep-18	1	1326	CWD	1	NWL	2	38	ON	3RS ET	22.3994	113.8982	AUTUMN	NONE	P
19-Sep-18	1	1041	CWD	9	SWL	2	808	ON	3RS ET	22.1925	113.8590	AUTUMN	NONE	P
19-Sep-18	2	1112	CWD	3	SWL	2	208	ON	3RS ET	22.1937	113.8589	AUTUMN	NONE	P
19-Sep-18	3	1303	CWD	1	SWL	3	49	ON	3RS ET	22.1726	113.8970	AUTUMN	NONE	P
20-Sep-18	1	1025	CWD	5	WL	3	38	ON	3RS ET	22.2686	113.8478	AUTUMN	NONE	P
20-Sep-18	2	1047	CWD	10	WL	2	18	ON	3RS ET	22.2686	113.8526	AUTUMN	NONE	P
20-Sep-18	3	1108	CWD	1	WL	2	72	ON	3RS ET	22.2600	113.8497	AUTUMN	NONE	P
20-Sep-18	4	1135	CWD	3	WL	3	66	ON	3RS ET	22.2416	113.8462	AUTUMN	NONE	P
20-Sep-18	5	1145	CWD	2	WL	3	8	ON	3RS ET	22.2415	113.8406	AUTUMN	NONE	P
20-Sep-18	6	1250	CWD	7	WL	3	77	ON	3RS ET	22.1964	113.8414	AUTUMN	NONE	P
20-Sep-18	7	1317	CWD	1	WL	3	83	ON	3RS ET	22.1871	113.8399	AUTUMN	NONE	P
20-Sep-18	8	1327	CWD	2	WL	3	81	ON	3RS ET	22.1870	113.8312	AUTUMN	NONE	P
21-Sep-18	1	1026	CWD	6	WL	3	44	ON	3RS ET	22.2688	113.8523	AUTUMN	NONE	P

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
21-Sep-18	2	1105	CWD	2	WL	3	520	ON	3RS ET	22.2499	113.8394	AUTUMN	NONE	P
21-Sep-18	3	1142	CWD	3	WL	3	4	ON	3RS ET	22.2285	113.8377	AUTUMN	NONE	S
21-Sep-18	4	1208	CWD	6	WL	3	279	ON	3RS ET	22.2143	113.8313	AUTUMN	NONE	P
21-Sep-18	5	1237	CWD	1	WL	2	2	ON	3RS ET	22.2135	113.8351	AUTUMN	NONE	P
21-Sep-18	6	1306	CWD	4	WL	3	57	ON	3RS ET	22.1957	113.8348	AUTUMN	NONE	P
26-Sep-18	1	1030	CWD	2	NWL	2	77	ON	3RS ET	22.2832	113.8697	AUTUMN	NONE	P
26-Sep-18	2	1050	CWD	1	NWL	2	125	ON	3RS ET	22.2713	113.8721	AUTUMN	NONE	S
26-Sep-18	3	1221	CWD	1	NWL	3	387	ON	3RS ET	22.3863	113.8878	AUTUMN	NONE	P
26-Sep-18	4	1426	CWD	1	NWL	2	131	ON	3RS ET	22.3659	113.9188	AUTUMN	NONE	S
4-Oct-18	1	1104	CWD	3	WL	3	461	ON	3RS ET	22.2411	113.8415	AUTUMN	NONE	P
4-Oct-18	2	1148	CWD	1	WL	3	2	ON	3RS ET	22.2319	113.8356	AUTUMN	NONE	P
4-Oct-18	3	1210	CWD	3	WL	3	325	ON	3RS ET	22.2232	113.8283	AUTUMN	NONE	P
4-Oct-18	4	1253	CWD	2	WL	3	49	ON	3RS ET	22.2029	113.8235	AUTUMN	NONE	S
4-Oct-18	5	1314	CWD	7	WL	4	214	ON	3RS ET	22.1965	113.8380	AUTUMN	NONE	P
5-Oct-18	1	1038	CWD	3	NWL	3	182	ON	3RS ET	22.2805	113.8703	AUTUMN	NONE	P
8-Oct-18	1	0948	CWD	6	NWL	3	860	ON	3RS ET	22.3855	113.8703	AUTUMN	NONE	P
8-Oct-18	2	1201	CWD	1	NWL	2	59	ON	3RS ET	22.3717	113.8774	AUTUMN	NONE	P
8-Oct-18	3	1223	CWD	4	NWL	2	196	ON	3RS ET	22.3923	113.8781	AUTUMN	NONE	P
8-Oct-18	4	1410	CWD	1	NWL	2	116	ON	3RS ET	22.3887	113.8980	AUTUMN	NONE	P
8-Oct-18	5	1423	CWD	2	NWL	2	15	ON	3RS ET	22.3897	113.8979	AUTUMN	NONE	P
12-Oct-18	1	1210	CWD	1	NEL	2	18	ON	3RS ET	22.3219	113.9658	AUTUMN	NONE	P
24-Oct-18	1	1033	CWD	5	WL	3	264	ON	3RS ET	22.2690	113.8447	AUTUMN	NONE	S
24-Oct-18	2	1054	CWD	6	WL	3	300	ON	3RS ET	22.2690	113.8459	AUTUMN	NONE	P
26-Oct-18	1	1236	FP	1	SWL	2	55	ON	3RS ET	22.1571	113.8774	AUTUMN	NONE	S
6-Nov-18	1	0941	CWD	4	NWL	3	997	ON	3RS ET	22.3858	113.8695	AUTUMN	NONE	P
6-Nov-18	2	1202	CWD	7	NWL	2	259	ON	3RS ET	22.3897	113.8781	AUTUMN	NONE	P
12-Nov-18	1	1036	CWD	2	NWL	2	635	ON	3RS ET	22.2857	113.8701	AUTUMN	NONE	P
12-Nov-18	2	1145	CWD	2	NWL	3	4	ON	3RS ET	22.3678	113.8780	AUTUMN	NONE	P
16-Nov-18	1	1038	CWD	4	WL	3	60	ON	3RS ET	22.2604	113.8462	AUTUMN	NONE	P
16-Nov-18	2	1059	CWD	3	WL	2	131	ON	3RS ET	22.2502	113.8359	AUTUMN	NONE	P
16-Nov-18	3	1144	CWD	3	WL	3	783	ON	3RS ET	22.2300	113.8381	AUTUMN	NONE	S
16-Nov-18	4	1219	CWD	1	WL	2	20	ON	3RS ET	22.2233	113.8273	AUTUMN	NONE	P
16-Nov-18	5	1223	CWD	3	WL	2	244	ON	3RS ET	22.2237	113.8249	AUTUMN	NONE	P

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
16-Nov-18	6	1237	CWD	1	WL	3	170	ON	3RS ET	22.2144	113.8230	AUTUMN	NONE	P
16-Nov-18	7	1243	CWD	2	WL	3	413	ON	3RS ET	22.2146	113.8296	AUTUMN	NONE	P
16-Nov-18	8	1300	CWD	8	WL	3	103	ON	3RS ET	22.2054	113.8384	AUTUMN	NONE	P
16-Nov-18	9	1322	CWD	3	WL	3	171	ON	3RS ET	22.2000	113.8254	AUTUMN	NONE	S
16-Nov-18	10	1345	CWD	2	WL	3	77	ON	3RS ET	22.1963	113.8401	AUTUMN	NONE	P
20-Nov-18	1	1058	CWD	3	WL	2	127	ON	3RS ET	22.2413	113.8401	AUTUMN	NONE	P
20-Nov-18	2	1210	CWD	4	WL	2	N/A	OFF	3RS ET	22.2234	113.8330	AUTUMN	NONE	N/A
20-Nov-18	3	1226	CWD	4	WL	3	7	ON	3RS ET	22.2230	113.8315	AUTUMN	NONE	P
20-Nov-18	4	1244	CWD	2	WL	3	495	ON	3RS ET	22.2227	113.8233	AUTUMN	NONE	P
21-Nov-18	1	1450	CWD	1	SWL	3	354	ON	3RS ET	22.1994	113.8604	AUTUMN	NONE	S
21-Nov-18	2	1516	CWD	1	SWL	2	339	ON	3RS ET	22.1757	113.8489	AUTUMN	NONE	P
21-Nov-18	3	1532	CWD	1	SWL	2	N/A	OFF	3RS ET	22.1869	113.8490	AUTUMN	NONE	N/A
23-Nov-18	1	1320	FP	2	SWL	2	52	ON	3RS ET	22.1551	113.9041	AUTUMN	NONE	S
3-Dec-18	1	1039	CWD	2	NWL	2	178	ON	3RS ET	22.2718	113.8723	WINTER	NONE	S
3-Dec-18	2	1302	CWD	1	NWL	3	21	ON	3RS ET	22.3659	113.8976	WINTER	NONE	P
4-Dec-18	1	1442	CWD	10	SWL	2	210	ON	3RS ET	22.2007	113.8657	WINTER	NONE	S
4-Dec-18	2	1533	CWD	2	SWL	2	541	ON	3RS ET	22.1810	113.8491	WINTER	NONE	P
18-Dec-18	1	1315	FP	2	SWL	3	4	ON	3RS ET	22.1552	113.9043	WINTER	NONE	S
18-Dec-18	2	1419	FP	3	SWL	5	112	ON	3RS ET	22.1667	113.9268	WINTER	NONE	P
20-Dec-18	1	1136	CWD	1	WL	2	34	ON	3RS ET	22.2138	113.8278	WINTER	NONE	P
21-Dec-18	1	1143	CWD	11	WL	3	170	ON	3RS ET	22.2053	113.8303	WINTER	NONE	P
21-Dec-18	2	1218	CWD	7	WL	3	244	ON	3RS ET	22.1872	113.8315	WINTER	NONE	P

Abbreviations: STG# = Sighting Number; GP SZ = Dolphin Group Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance (in metres); N/A = Not Applicable; DEC LAT = Latitude (WGS84 in Decimal), DEC LON = Longitude (WGS84 in Decimal); BOAT ASSOC. = Fishing Boat Association; P/S = Primary Transect / Secondary Transect

## CWD Land-based Theodolite Tracking

## CWD Groups by Survey Date

Date	Station	Start Time	End Time	Duration	Beaufort Range	Visibility	No. of Focal Follow Dolphin Groups Tracked	Dolphin Group Size Range
15/Jan/18	Sha Chau	8:44	14:44	6:00	2	3	0	N/A
16/Jan/18	Lung Kwu Chau	8:49	14:49	6:00	2-3	3-4	2	1-5
22/Jan/18	Lung Kwu Chau	8:54	14:54	6:00	2	4	1	2
23/Jan/18	Lung Kwu Chau	9:00	15:00	6:00	1-2	3-4	1	1
24/Jan/18	Sha Chau	8:48	14:48	6:00	4	2	0	N/A
8/Feb/18	Sha Chau	8:49	14:49	6:00	2-3	2	0	N/A
9/Feb/18	Lung Kwu Chau	8:43	14:43	6:00	2	2	2	2
13/Feb/18	Lung Kwu Chau	8:49	14:49	6:00	2	2	4	3-5
26/Feb/18	Lung Kwu Chau	8:44	14:44	6:00	2	2	2	1-3
27/Feb/18	Sha Chau	8:45	14:45	6:00	2	2	0	N/A
12/Mar/18	Lung Kwu Chau	8:45	14:45	6:00	2	3	3	2-6
22/Mar/18	Lung Kwu Chau	8:48	14:48	6:00	3-4	2	6	2-7
23/Mar/18	Lung Kwu Chau	8:40	14:40	6:00	2	2	10	1-6
26/Mar/18	Sha Chau	8:37	14:37	6:00	2	3	0	N/A
27/Mar/18	Sha Chau	8:42	14:42	6:00	2	3	0	N/A
13/Apr/18	Lung Kwu Chau	8:53	14:53	6:00	2-3	2	2	2
19/Apr/18	Lung Kwu Chau	8:43	14:43	6:00	2	2	6	1-2
20/Apr/18	Sha Chau	8:48	14:48	6:00	2-4	2-3	0	N/A
23/Apr/18	Lung Kwu Chau	8:51	14:51	6:00	2	2	3	2-4
26/Apr/18	Sha Chau	8:49	14:49	6:00	2-3	3	0	N/A
3/May/18	Lung Kwu Chau	9:20	15:20	6:00	2-3	3	1	2
14/May/18	Sha Chau	8:50	14:50	6:00	2-3	2	0	N/A
17/May/18	Sha Chau	8:45	14:45	6:00	2-3	2	0	N/A
28/May/18	Lung Kwu Chau	8:54	14:54	6:00	2-3	2-3	7	1-3
29/May/18	Lung Kwu Chau	8:50	14:50	6:00	2	2	4	1-4
11/Jun/18	Sha Chau	8:37	14:37	6:00	2	2	0	N/A
19/Jun/18	Lung Kwu Chau	8:54	13:54	5:00	2-3	3	0	N/A
20/Jun/18	Lung Kwu Chau	8:45	15:15	6:30	2-3	3	0	N/A
25/Jun/18	Sha Chau	9:00	15:00	6:00	2-3	2-3	0	N/A
26/Jun/18	Lung Kwu Chau	9:05	15:35	6:30	2-3	2	4	1-2
11/Jul/18	Lung Kwu Chau	8:51	14:51	6:00	2	2-3	2	1-3

Date	Station	Start Time	End Time	Duration	Beaufort Range	Visibility	No. of Focal Follow Dolphin Groups Tracked	Dolphin Group Size Range
12/Jul/18	Lung Kwu Chau	8:50	14:50	6:00	2-3	2	3	2-3
19/Jul/18	Sha Chau	8:55	14:55	6:00	2-4	2	0	N/A
20/Jul/18	Lung Kwu Chau	8:45	14:45	6:00	2-3	2-3	6	1-2
26/Jul/18	Sha Chau	8:34	14:34	6:00	2-3	2	0	N/A
1/Aug/18	Lung Kwu Chau	8:50	14:50	6:00	2-3	2	3	1-4
2/Aug/18	Sha Chau	9:05	15:05	6:00	3	2	0	N/A
6/Aug/18	Lung Kwu Chau	8:58	13:28	4:30	2	3	0	N/A
9/Aug/18	Sha Chau	8:38	14:38	6:00	3	2	0	N/A
21/Aug/18	Lung Kwu Chau	8:52	16:22	7:30	2	3-4	0	N/A
4/Sep/18	Lung Kwu Chau	8:42	14:42	6:00	2	2	2	1-3
5/Sep/18	Sha Chau	8:31	14:31	6:00	2	2	0	N/A
14/Sep/18	Lung Kwu Chau	8:42	14:42	6:00	2	2-4	4	2-3
18/Sep/18	Sha Chau	9:00	15:00	6:00	3	2	0	N/A
26/Sep/18	Lung Kwu Chau	9:03	15:03	6:00	2-3	3	5	1-4
8/Oct/18	Sha Chau	8:37	14:37	6:00	2	3	0	N/A
9/Oct/18	Sha Chau	8:51	14:51	6:00	2	3	0	N/A
15/Oct/18	Lung Kwu Chau	8:47	14:47	6:00	2	2	3	1-2
22/Oct/18	Lung Kwu Chau	8:42	14:42	6:00	2	2-3	4	1-5
29/Oct/18	Lung Kwu Chau	9:22	15:22	6:00	2-3	2	4	1-7
5/Nov/18	Lung Kwu Chau	8:50	14:50	6:00	2-3	2-3	6	1-3
13/Nov/18	Lung Kwu Chau	8:36	14:36	6:00	2-3	3-4	4	2-5
14/Nov/18	Sha Chau	8:37	14:37	6:00	2-3	2-3	0	N/A
21/Nov/18	Lung Kwu Chau	8:53	14:53	6:00	2-3	2-3	2	2-5
27/Nov/18	Sha Chau	8:27	14:27	6:00	2	3	0	N/A
10/Dec/18	Lung Kwu Chau	8:46	14:46	6:00	2	2	4	1-3
11/Dec/18	Sha Chau	8:41	14:41	6:00	2-3	2	0	N/A
14/Dec/18	Sha Chau	8:43	14:43	6:00	2	2	0	N/A
18/Dec/18	Lung Kwu Chau	8:40	14:40	6:00	2-3	1	2	3-4
19/Dec/18	Lung Kwu Chau	8:43	14:43	6:00	2-3	1-2	2	3-5



## Annex 1 List of References for CWD Monitoring

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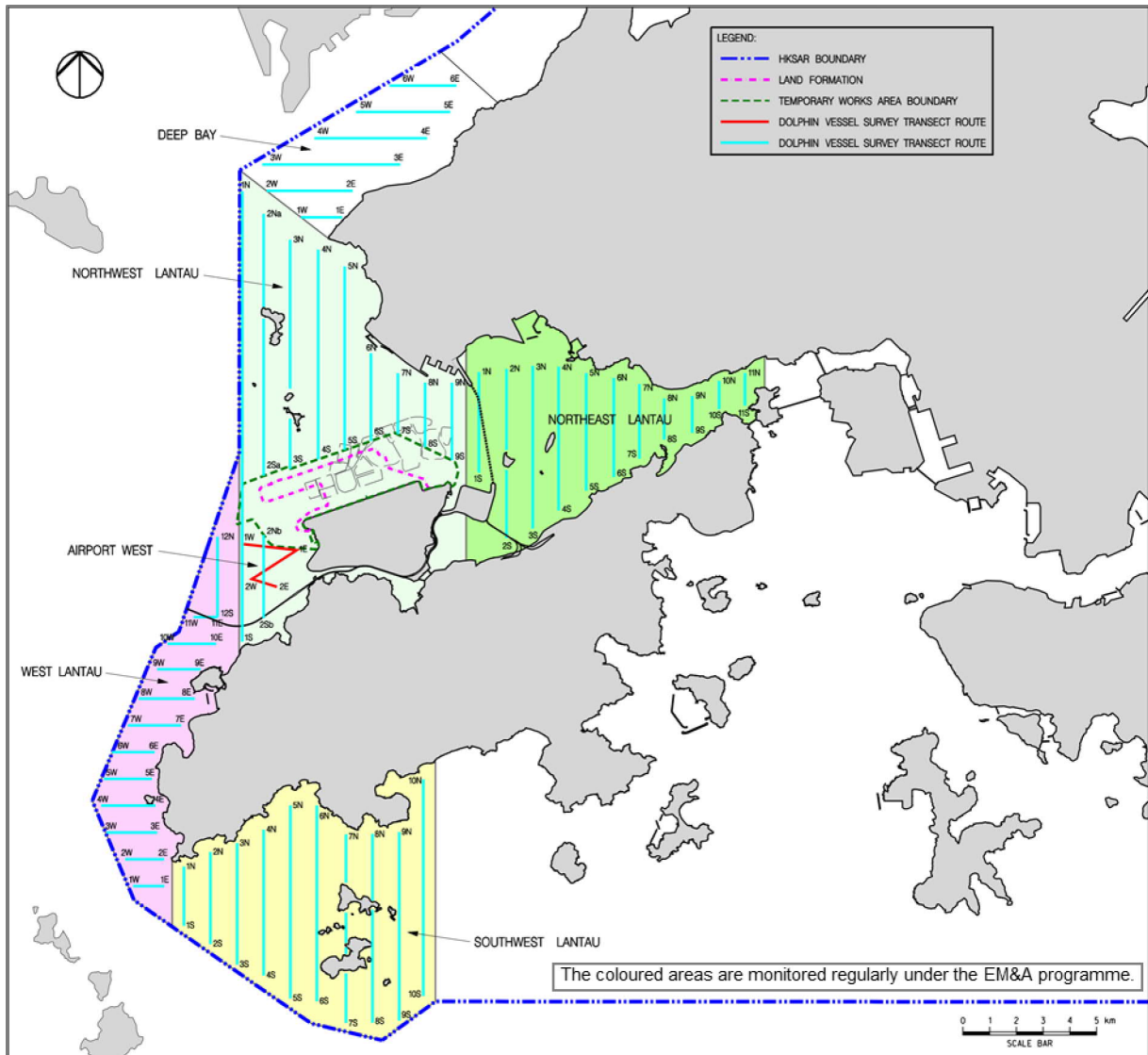
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Reference: Additional Vessel Survey for CWD Monitoring in Deep Bay Area



The additional survey in Deep Bay (DB) was conducted on a voluntary basis at the same frequency of two surveys per month.

All DB data were for reference and used only for density and abundance estimation.

(Note: The transect route in the DB survey area could not be fully travelled due to obstruction by the existing oyster culture rafts.)