

Appendix E. Chinese White Dolphin Monitoring Results

Figure 1: Sightings Distribution of Chinese White Dolphins

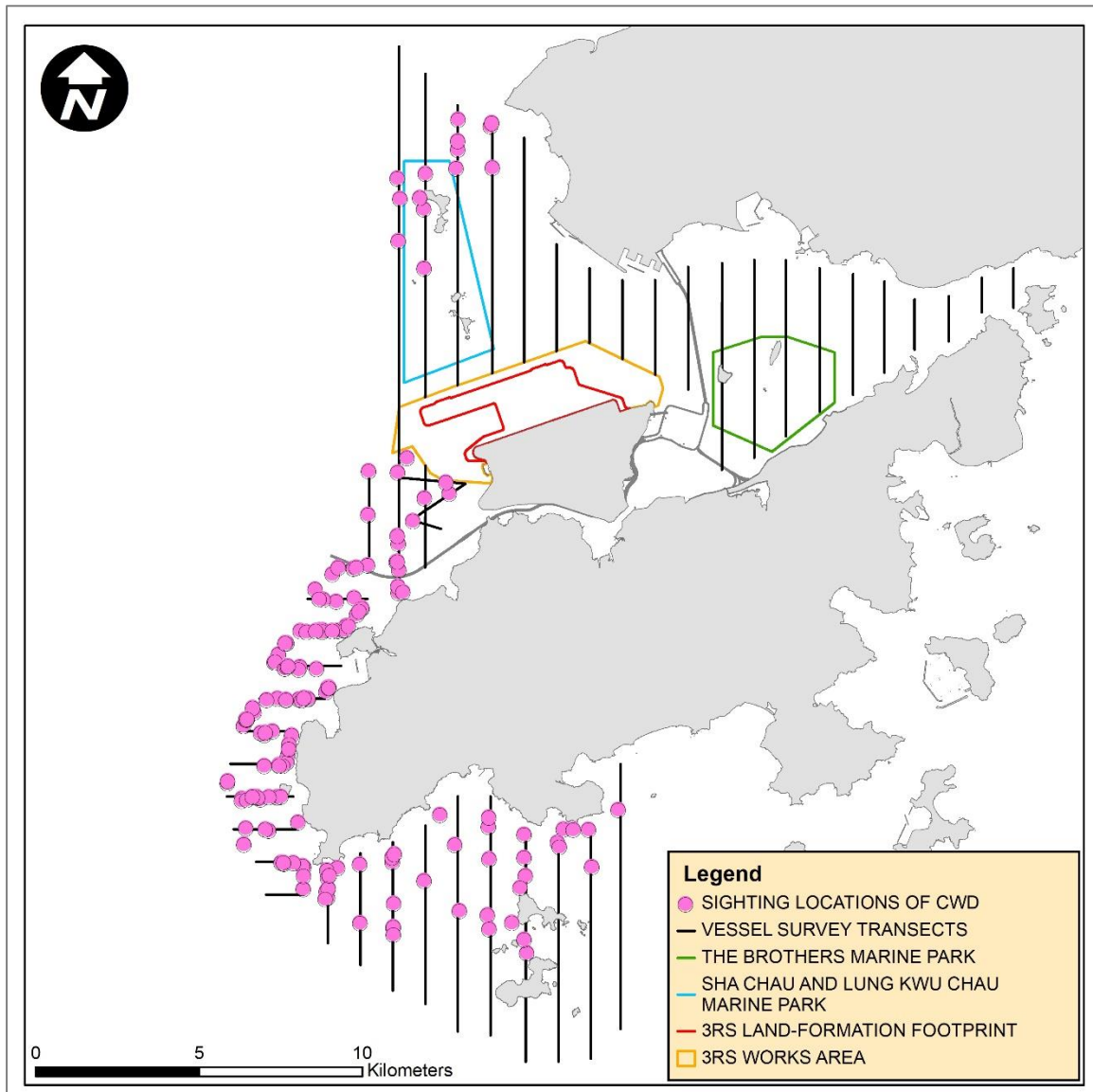
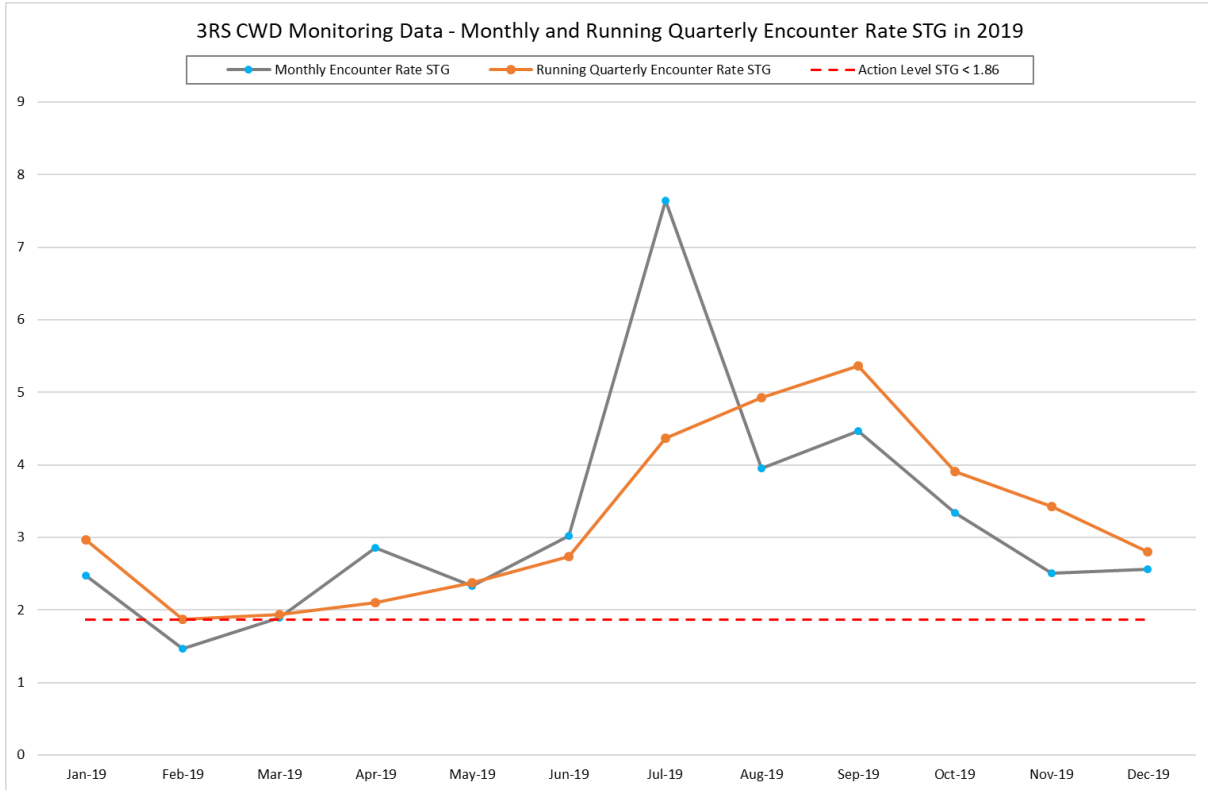


Figure 2: Graphical Presentation of Monthly and Running Quarterly Encounter Rates in the Reporting Period (January to December 2019)

(a) Encounter Rate STG



(b) Encounter Rate ANI

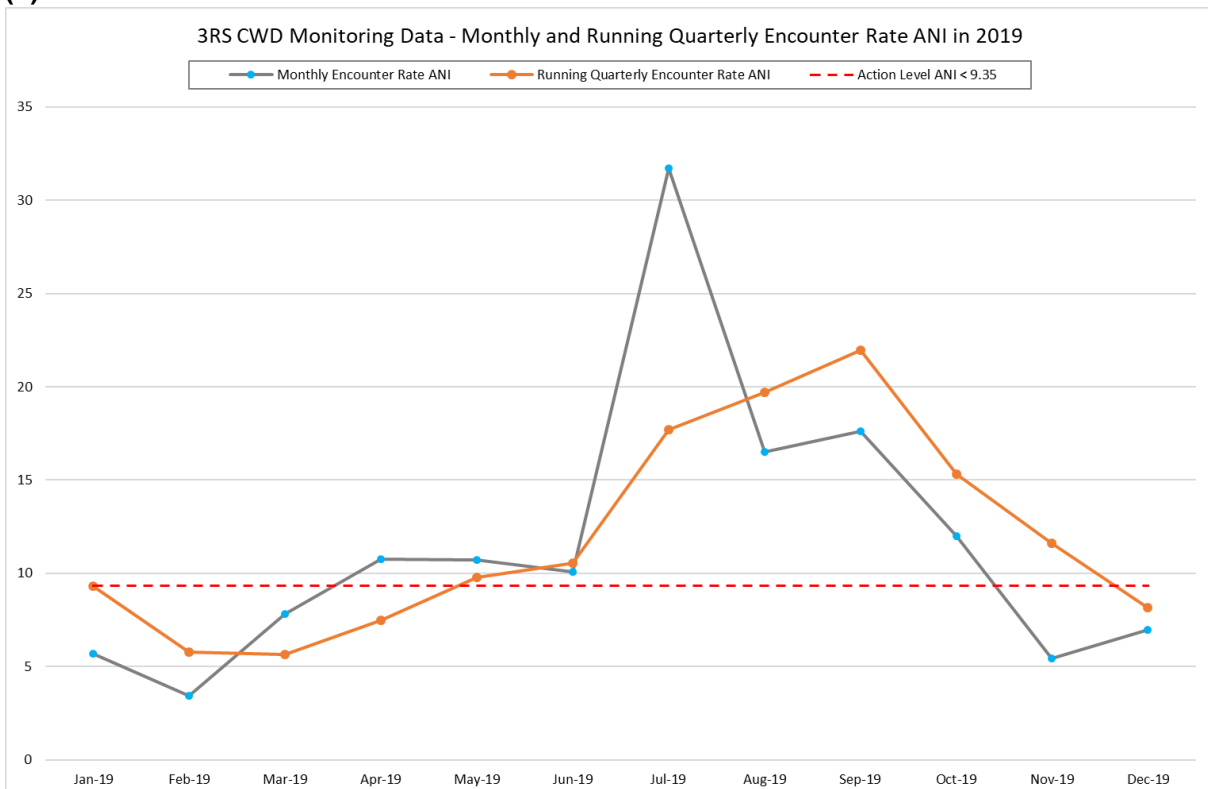
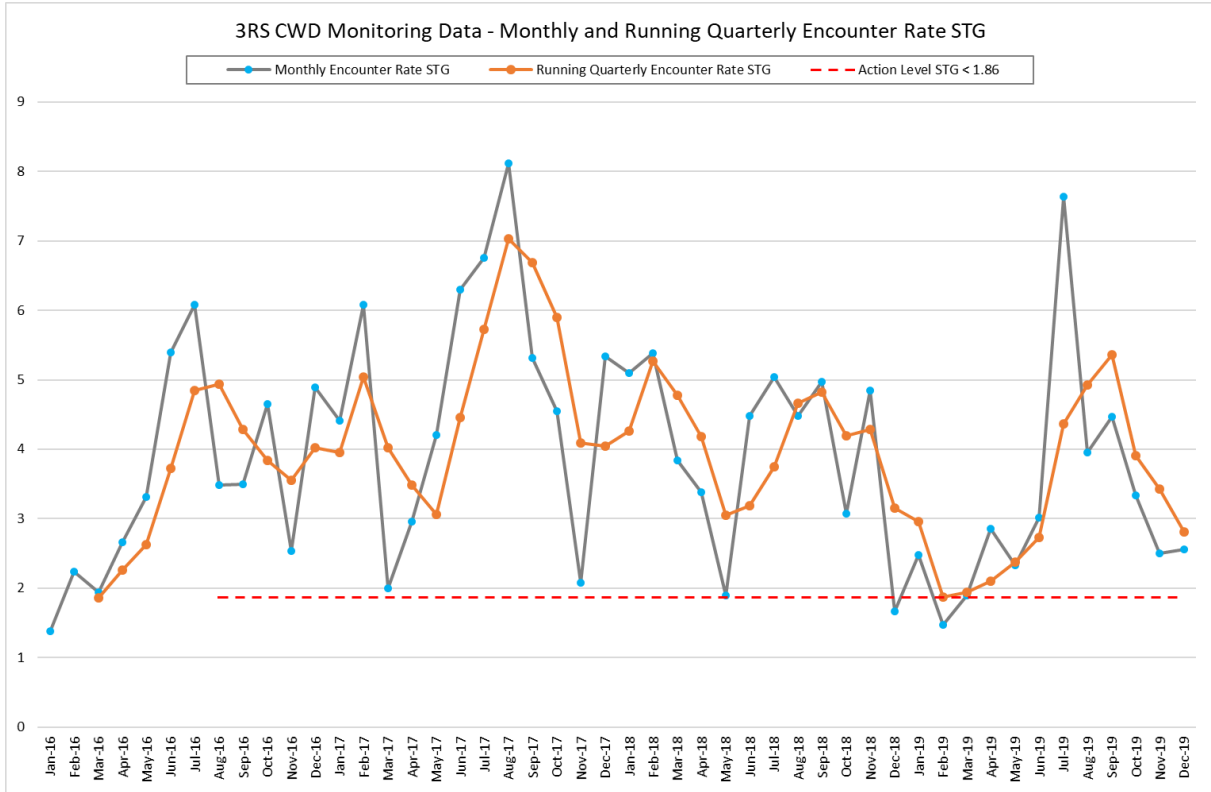


Figure 3: Graphical Presentation of Monthly and Running Quarterly Encounter Rates from January 2016 to December 2019

(a) Encounter Rate STG



(b) Encounter Rate ANI

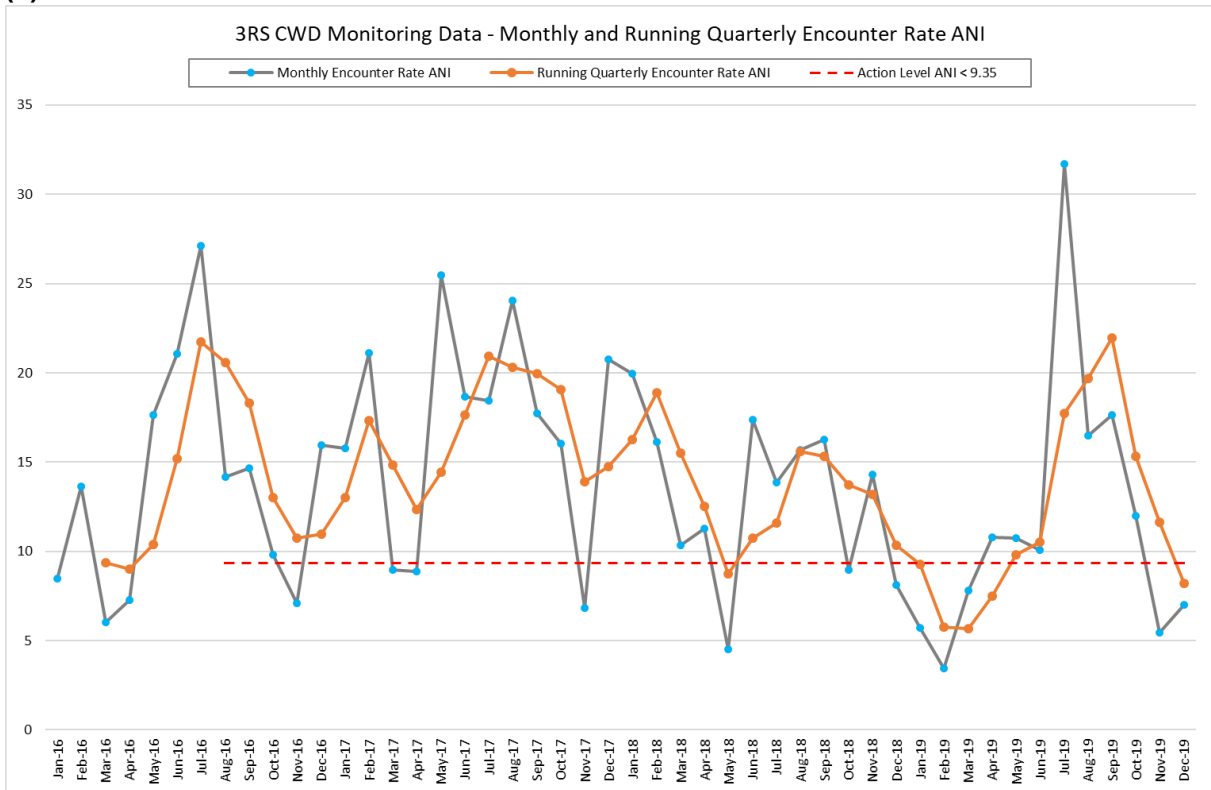
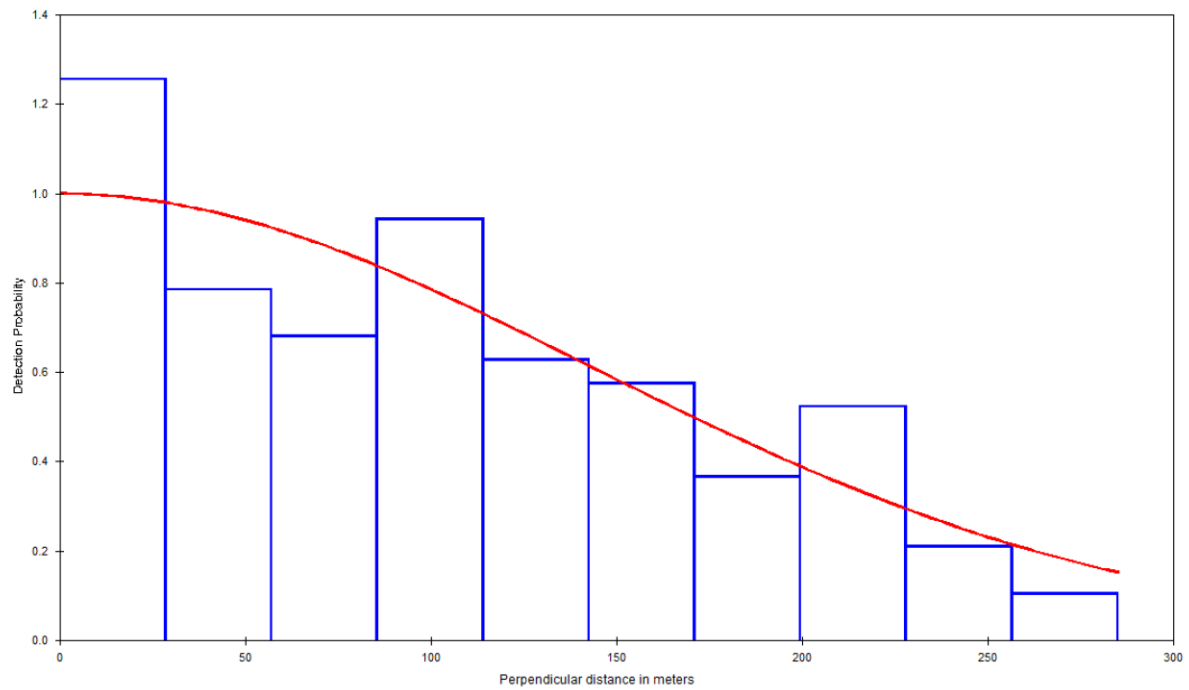


Figure 4: Fitted Detection Function of the 2019 CWD Sightings, Pooled from All Western Hong Kong Survey Areas (truncation distance = 285 m)



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 km² of Year 2018 and Year 2019

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

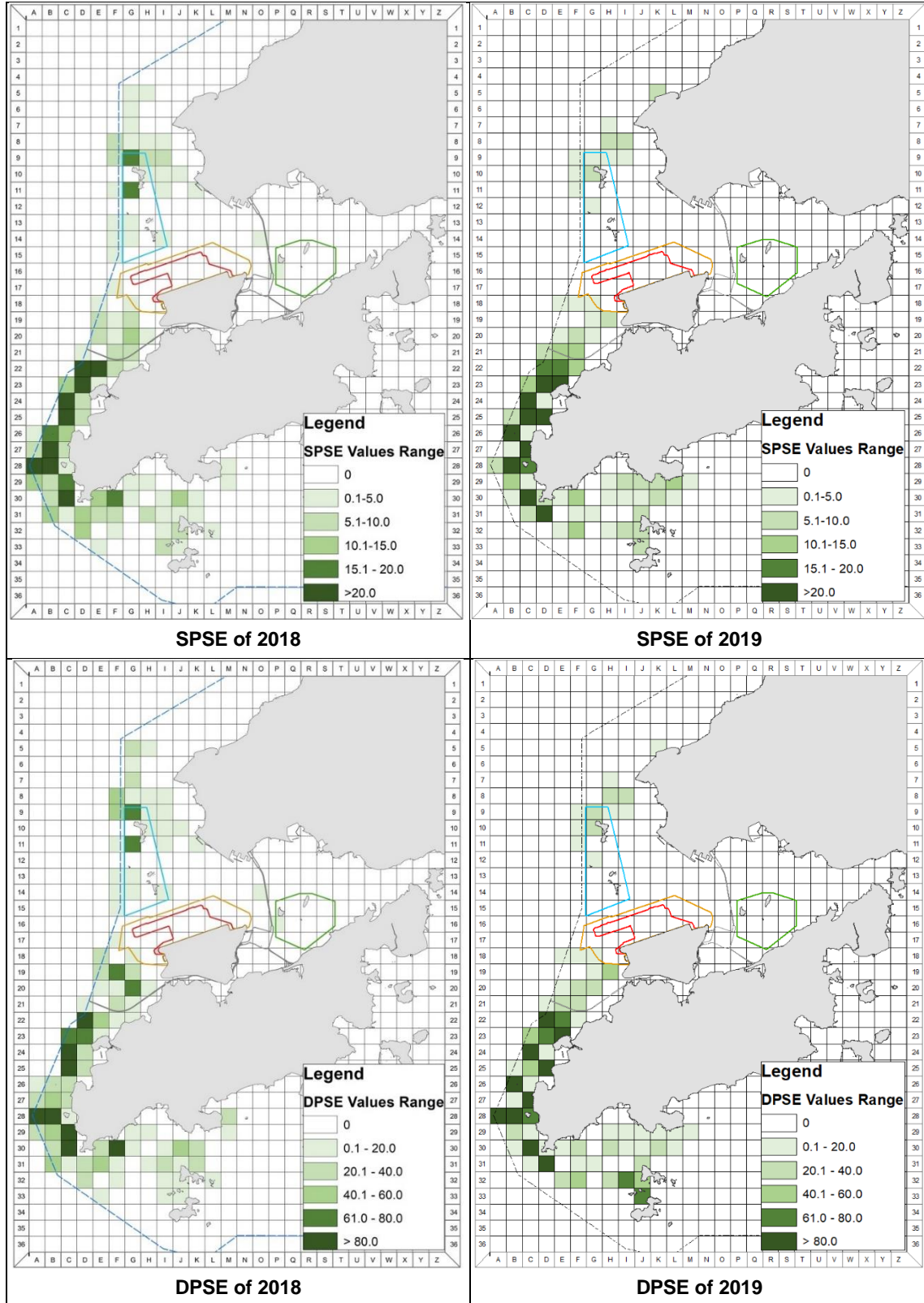


Figure 6: Cumulative SPSE and DPSE of CWDs with Corrected Survey Effort per km² from Dec 2015 to Dec 2019

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

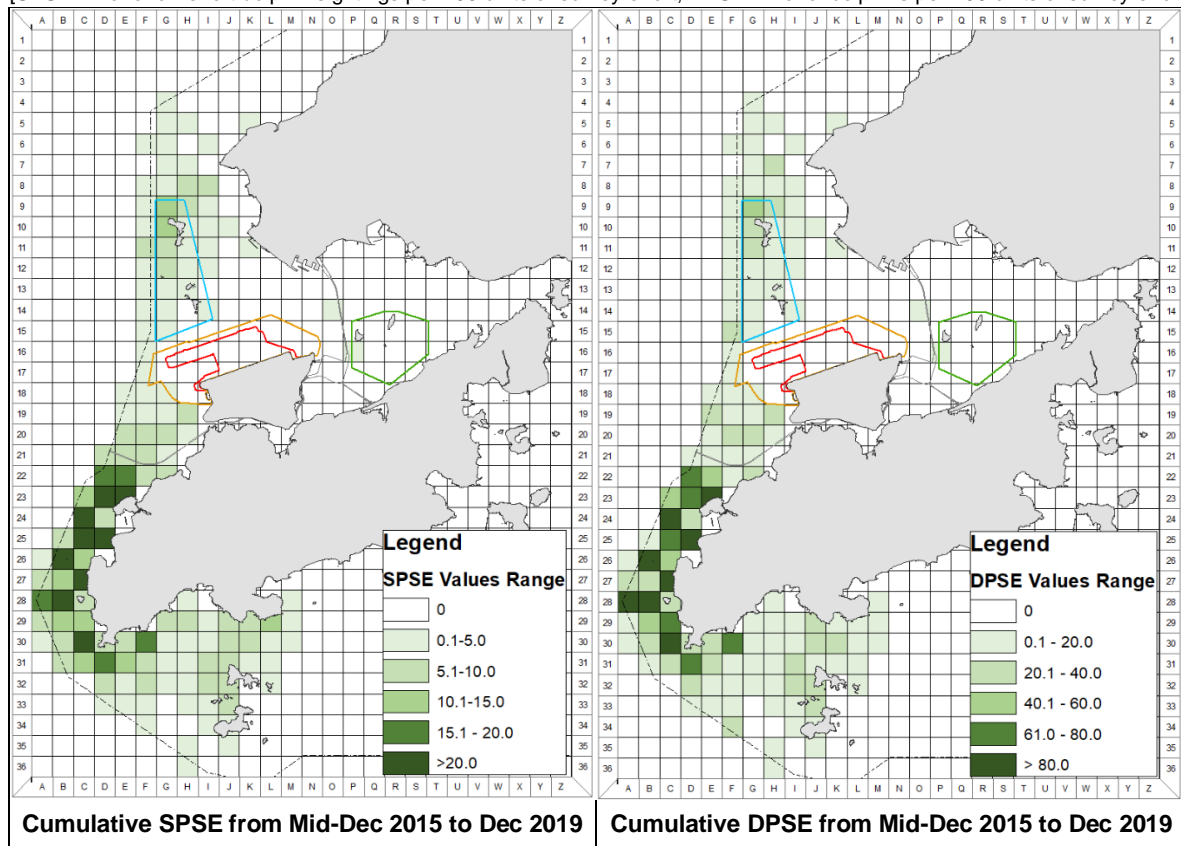
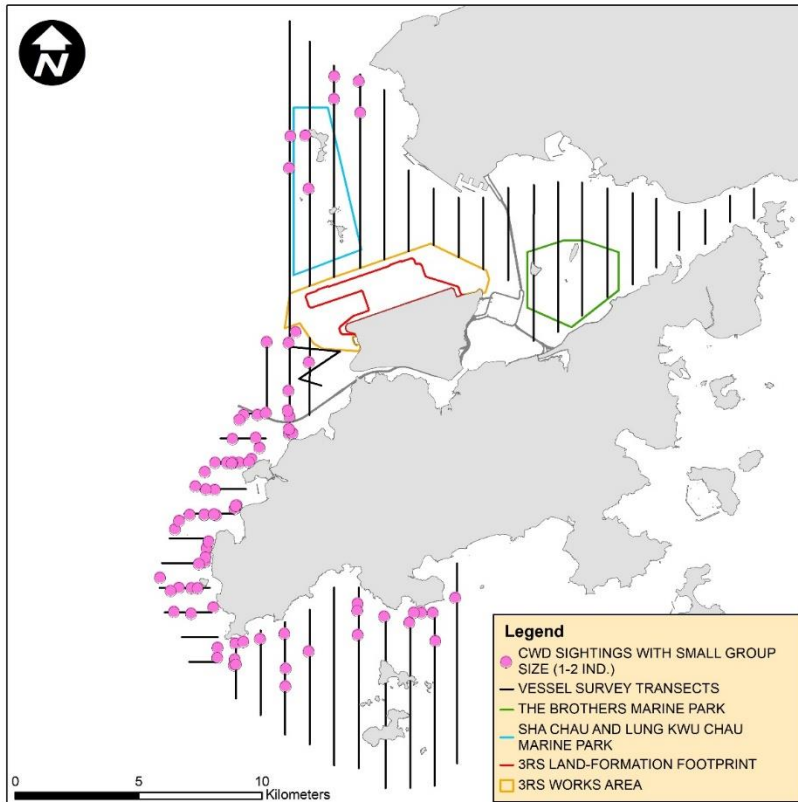


Figure 7: Sightings Distribution of Chinese White Dolphins with Different Group Sizes
(a) Small Group Size (1 to 2 dolphins)



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

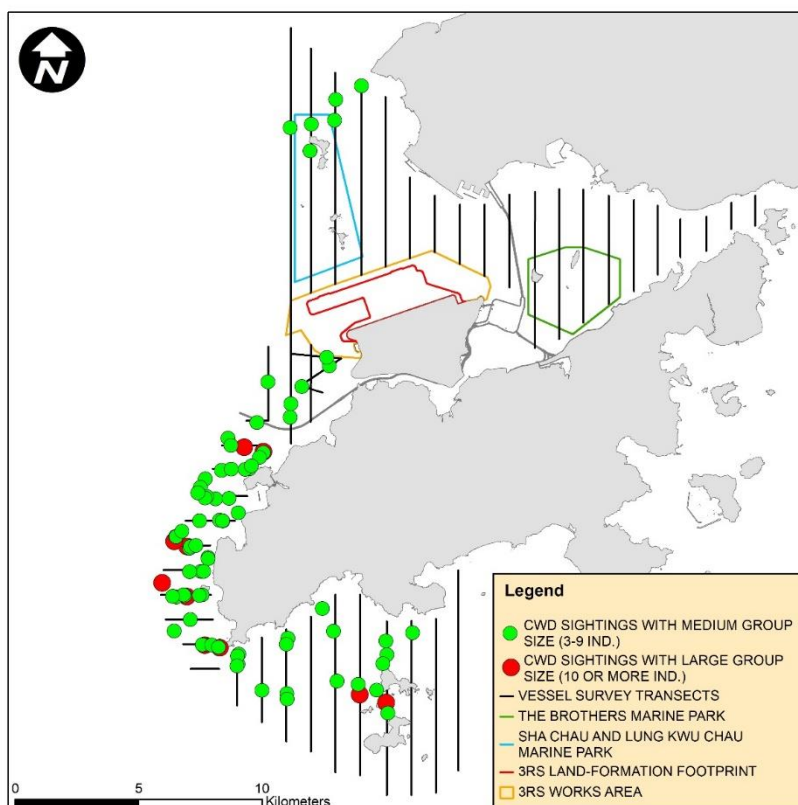


Figure 8: Sighting Locations of CWD Groups Engaged in Different Activities

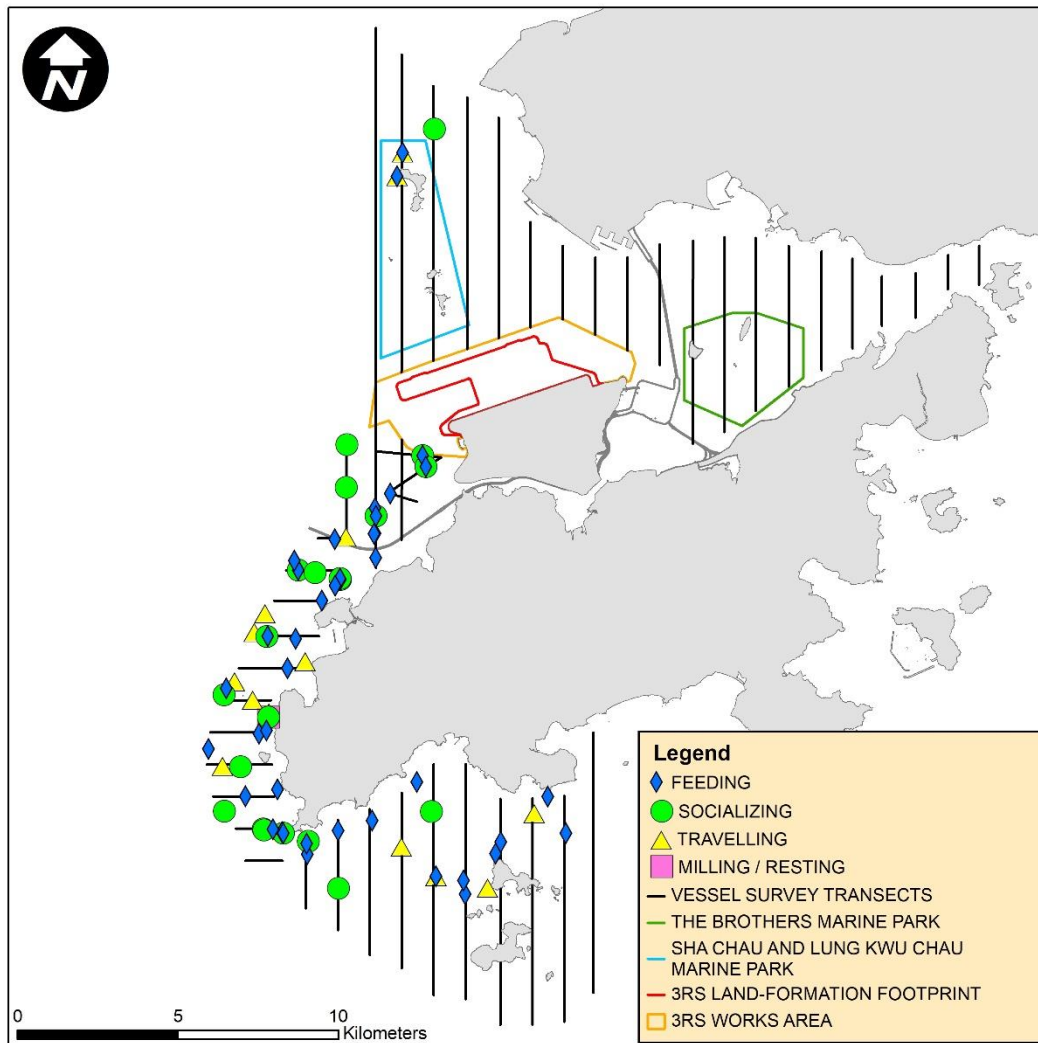


Figure 9: Sighting Locations of CWD Groups in Association with Fishing Boat

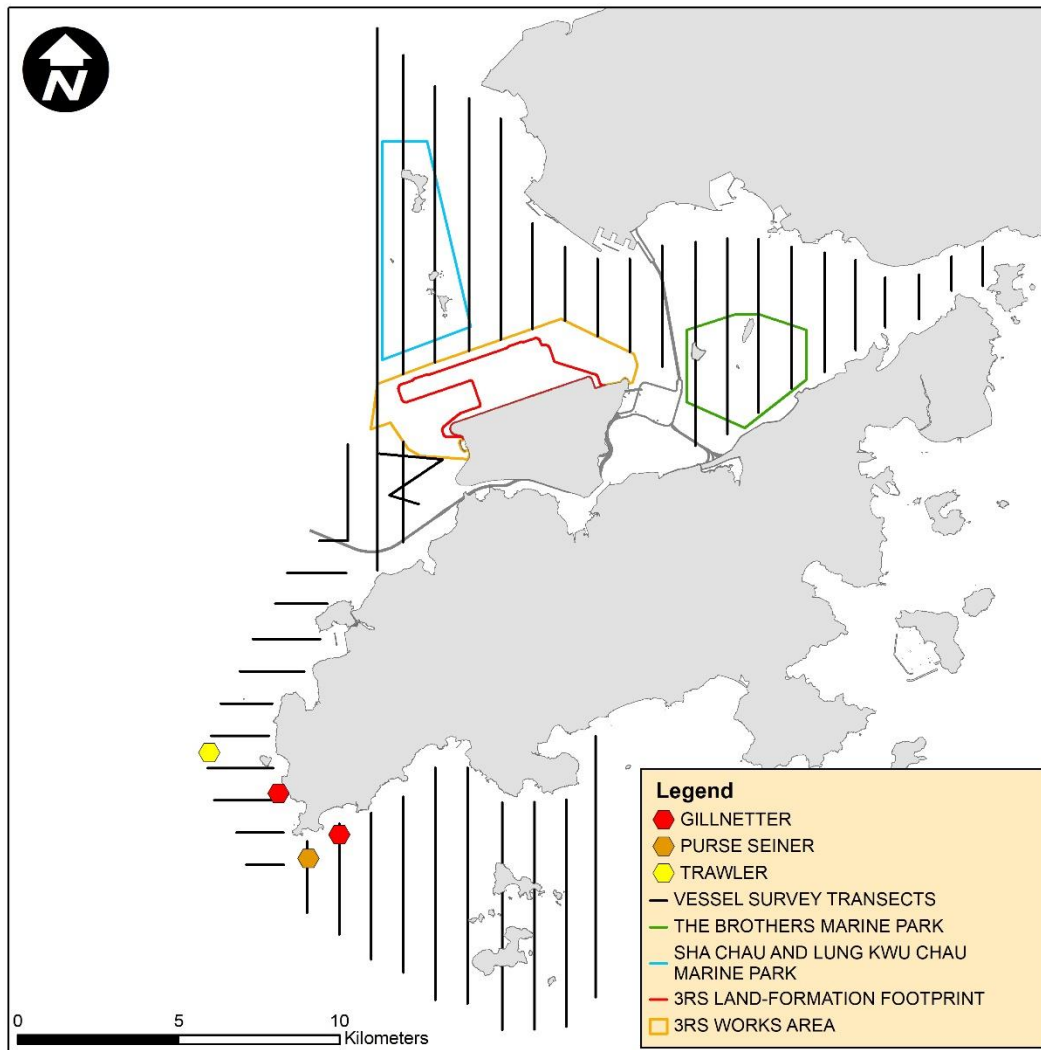


Figure 10: Sighting Locations of Mother-Calf Pairs

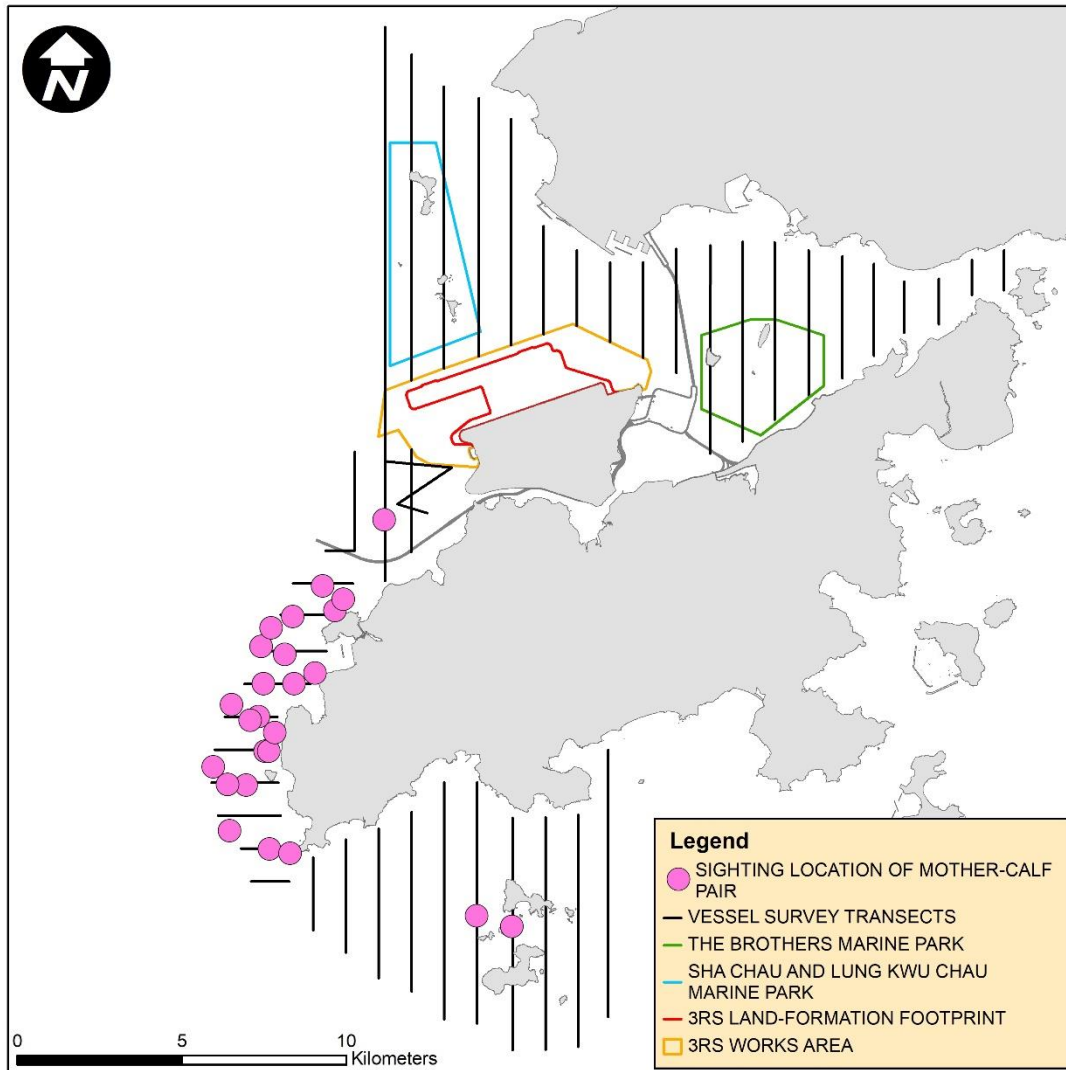
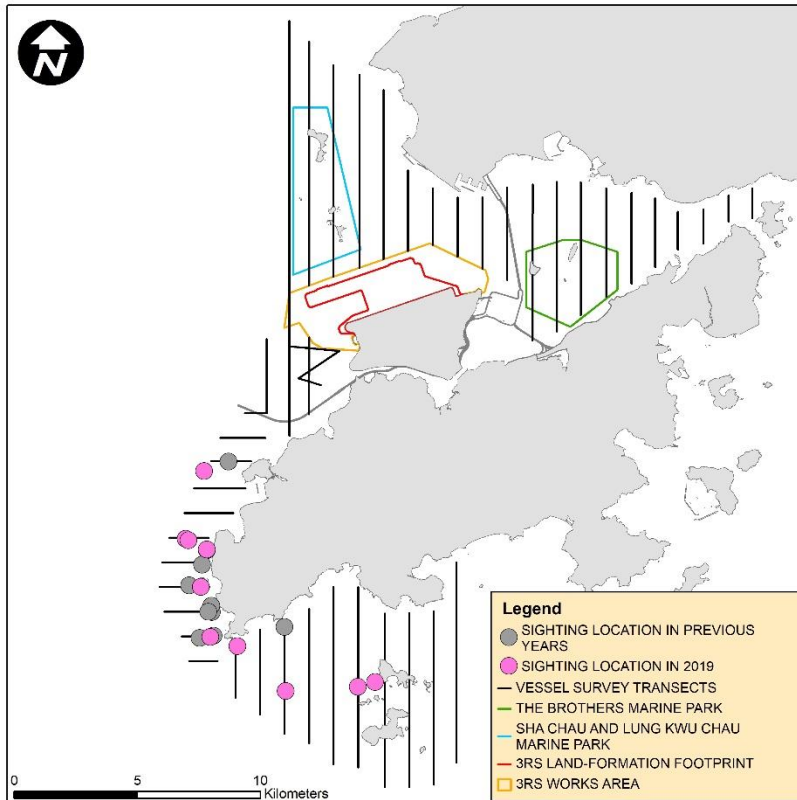
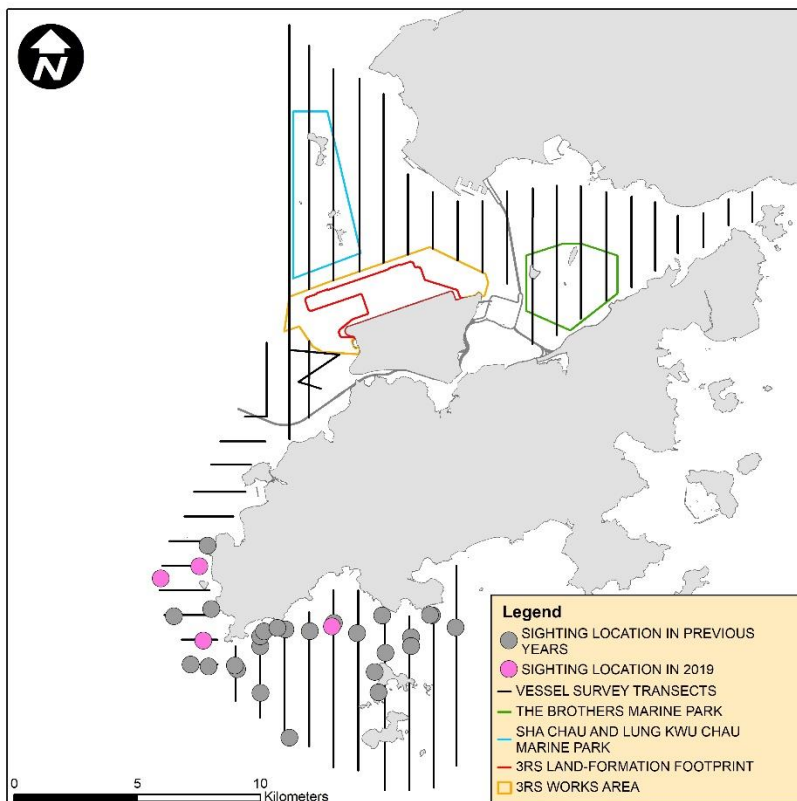


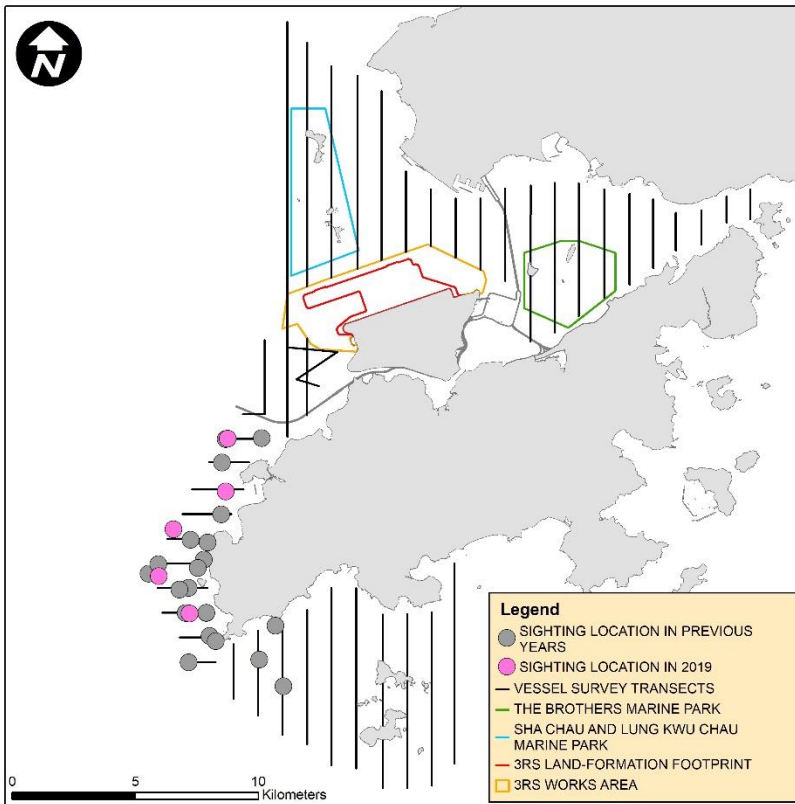
Figure 11 (batch): Photo Identification – Re-sighting Locations
 WLMM079 – the most frequently re-sighted animal in 2019



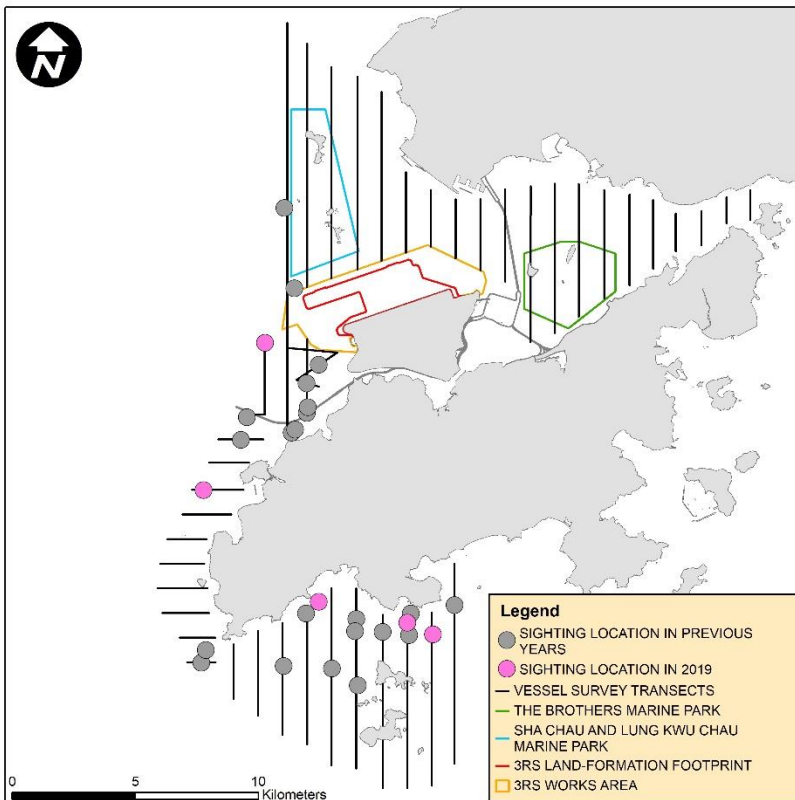
SLMM014 – the most frequently re-sighted animal since 2015



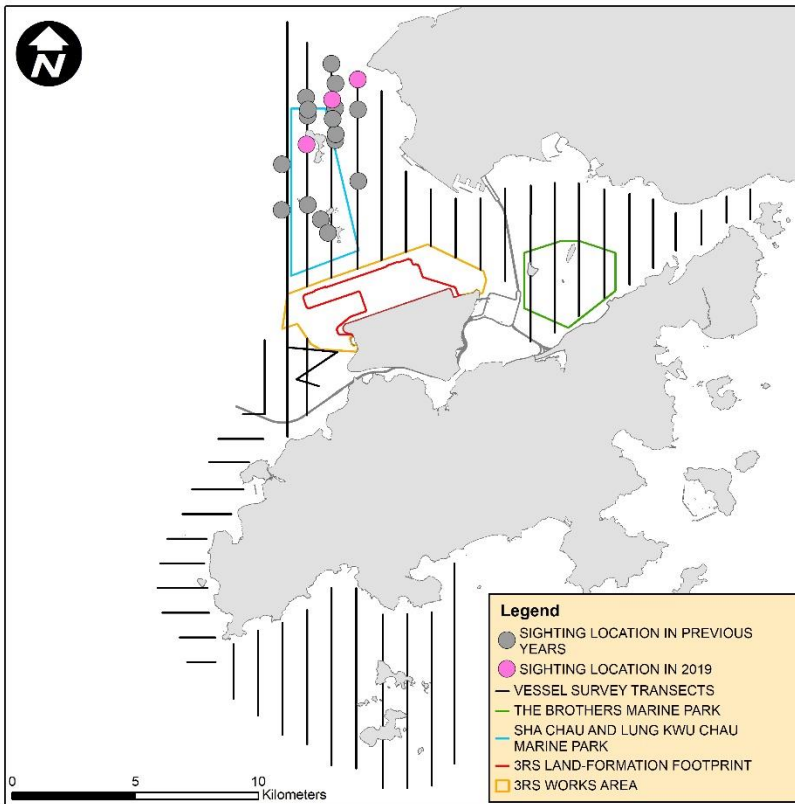
WLMM001 – the second most frequently re-sighted animal since 2015



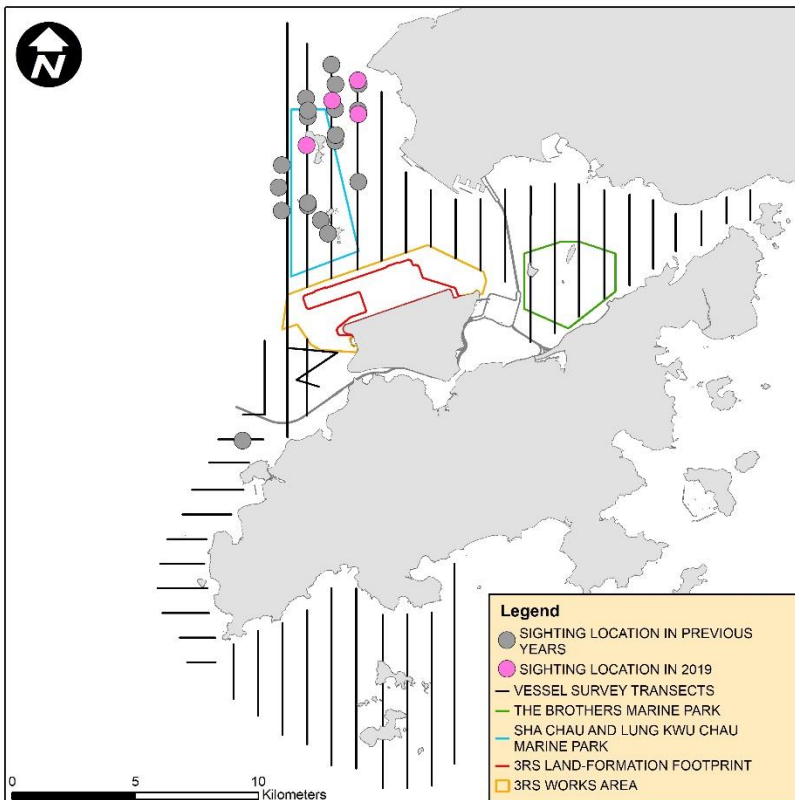
WLMM027 – the third most frequently re-sighted animal since 2015



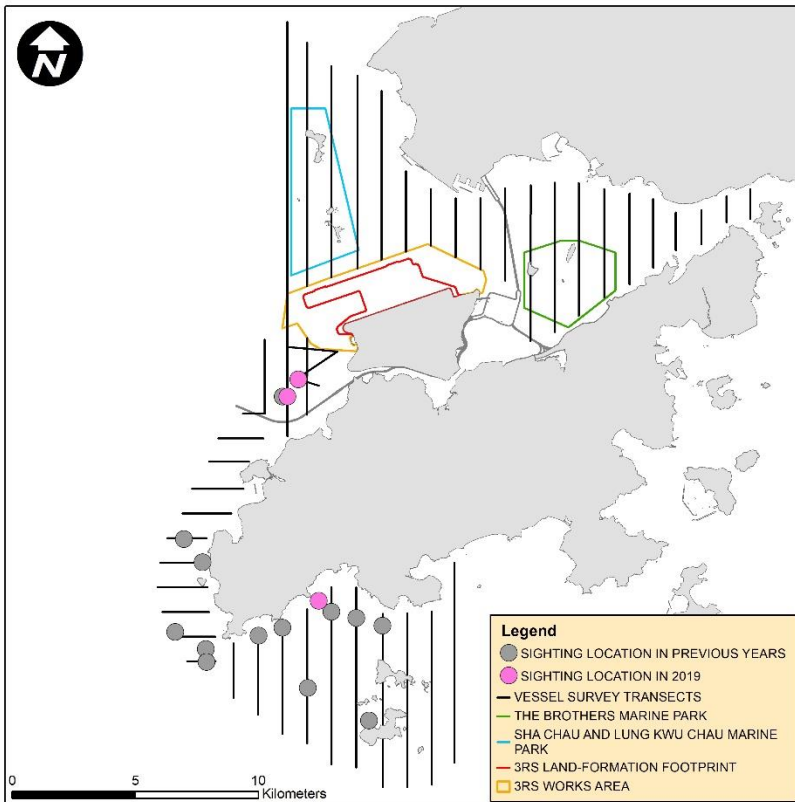
NLMM006 – the unspotted juvenile of the special mother-calf pair with prolonged bonding



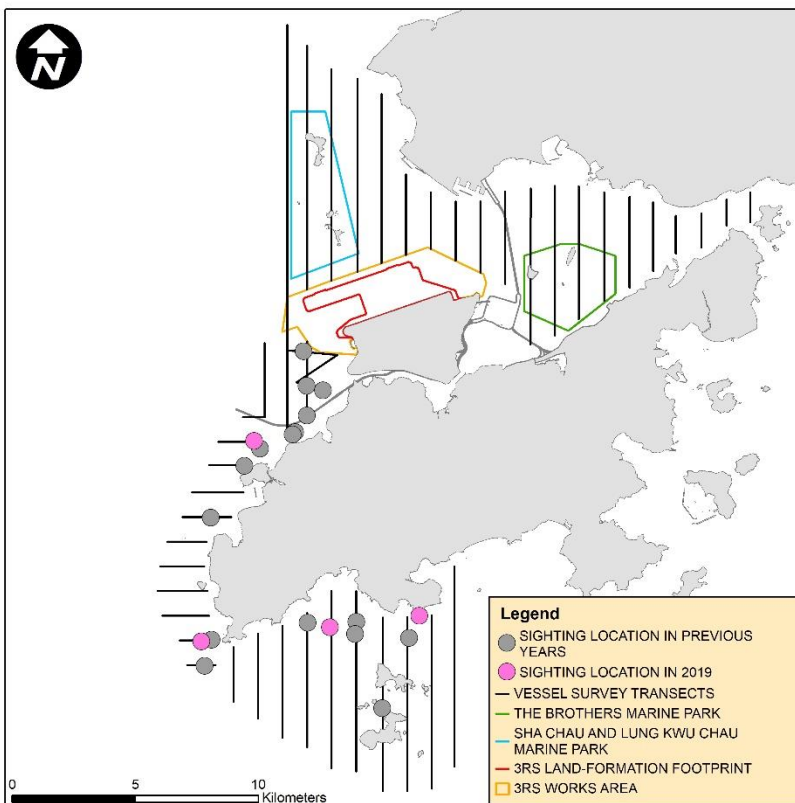
NLMM013 – the mother of the special mother-calf pair with prolonged bonding



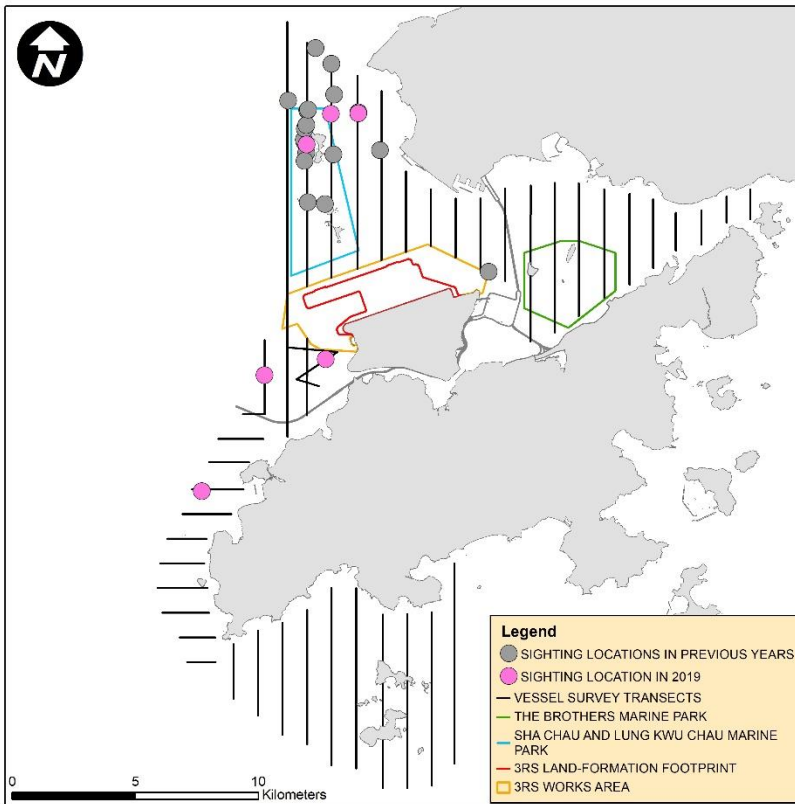
SLMM011 – the dolphin which returned to HK waters after complete disappearance in 2018, and re-sighted in NWL and SWL in 2019



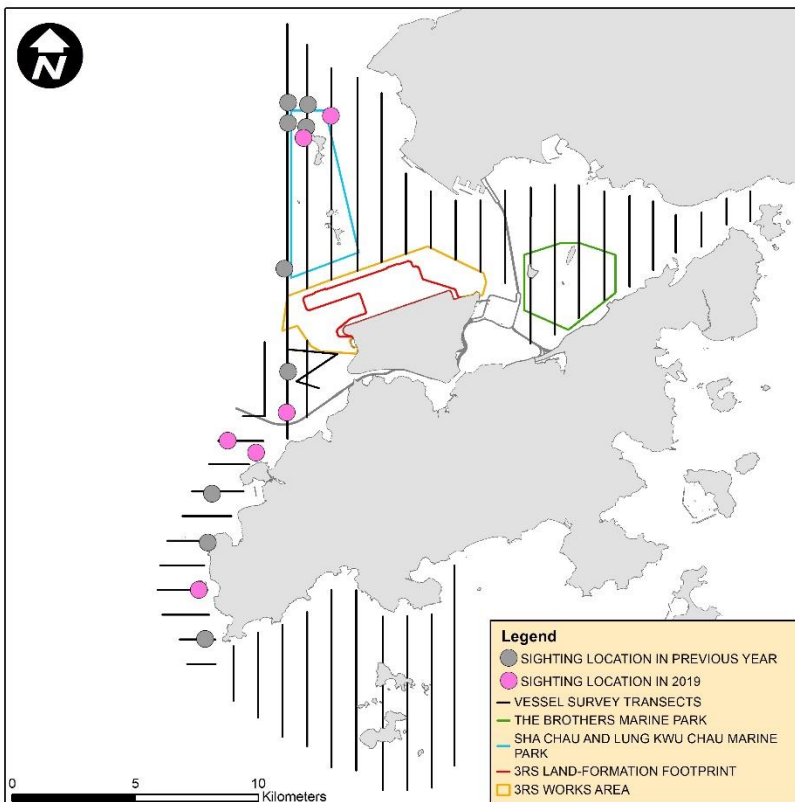
SLMM028 – the dolphin with good recovery from severe injury



NLMM004 – the dolphin which continued to use NWL waters with new re-sighting records in WL in 2019



NLMM063 – the dolphin which continued to use NWL and WL waters in 2019 after frequently re-sighted in 2018



NLMM020 – the dolphin re-sighted in NWL and SWL in 2019

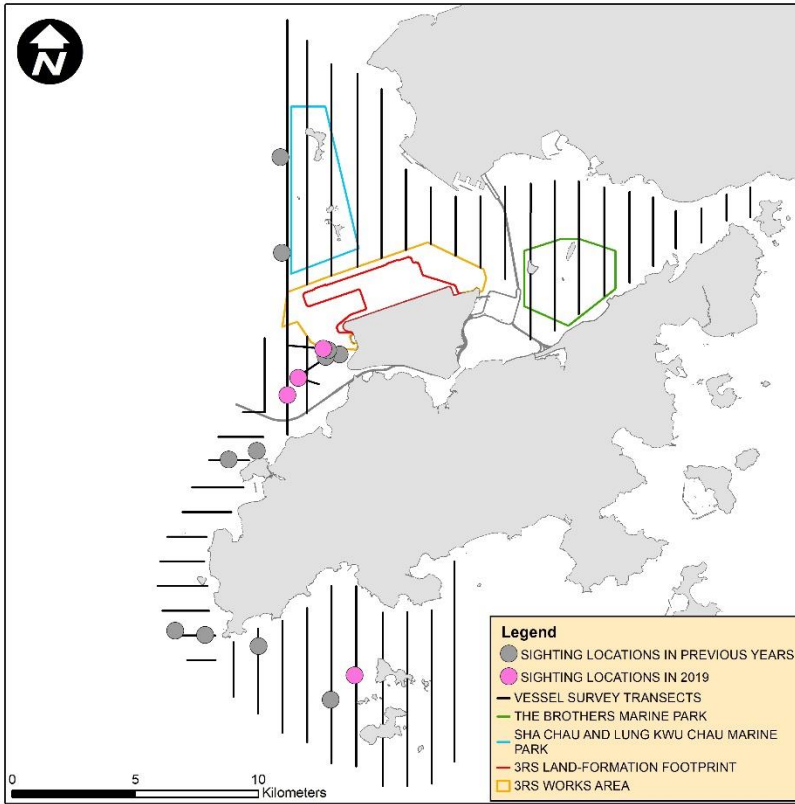


Figure 12: Plots of First Sightings of All CWD Groups (prior to filtering out short-track data) Obtained from Land-based Station at Lung Kwu Chau in 2019

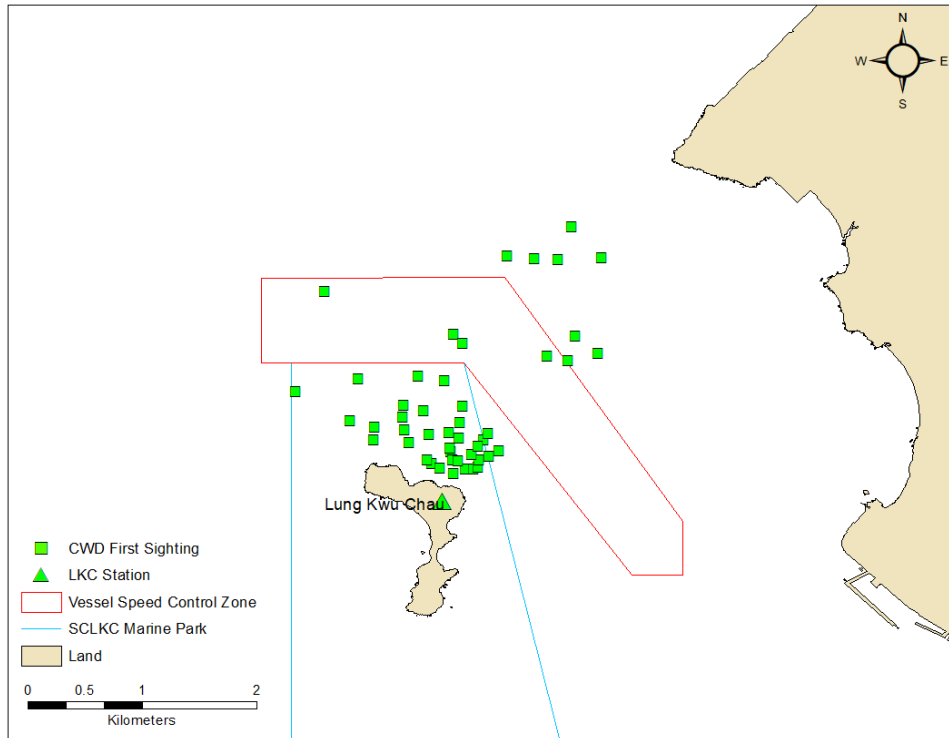


Figure 13: Total Duration of CWD Groups Tracked (per total effort time) from Lung Kwu Chau (prior to filtering short-track data) Based on Time of Day in 2019

[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.]

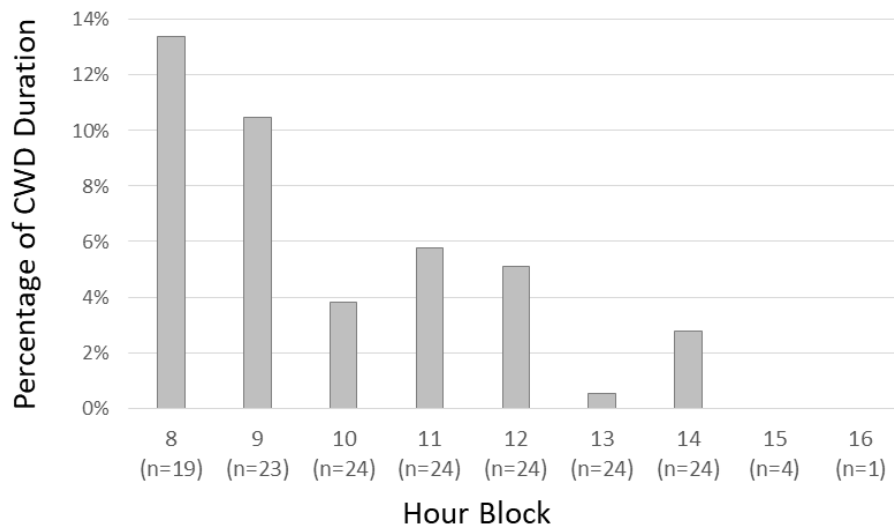


Figure 14: Total Number of CWD Groups Sighted and Tracked from Lung Kwu Chau Based on Month of the Year in 2019

[The grey bars represent the percentage of number of groups tracked per month, while the numbers above the bars indicate the total number of CWD groups tracked per study period (prior to filtering data). The orange line represents the percentage of total time spent tracking dolphins per month.]

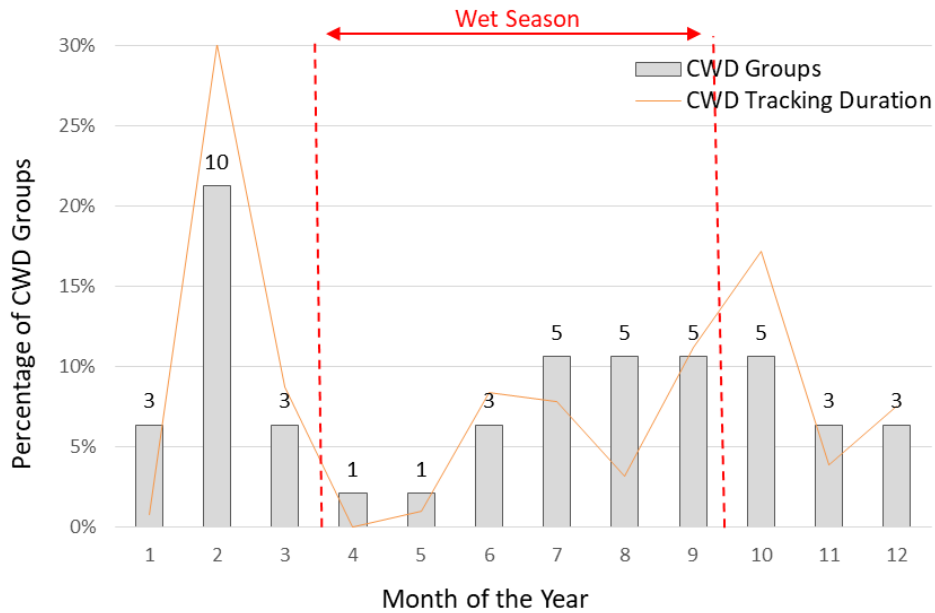


Figure 15: Plots of CWD Short-track Positions (Standardized Segments) relative to Group Size tracked within Sha Chau and Lung Kwu Chau Marine Park in 2019

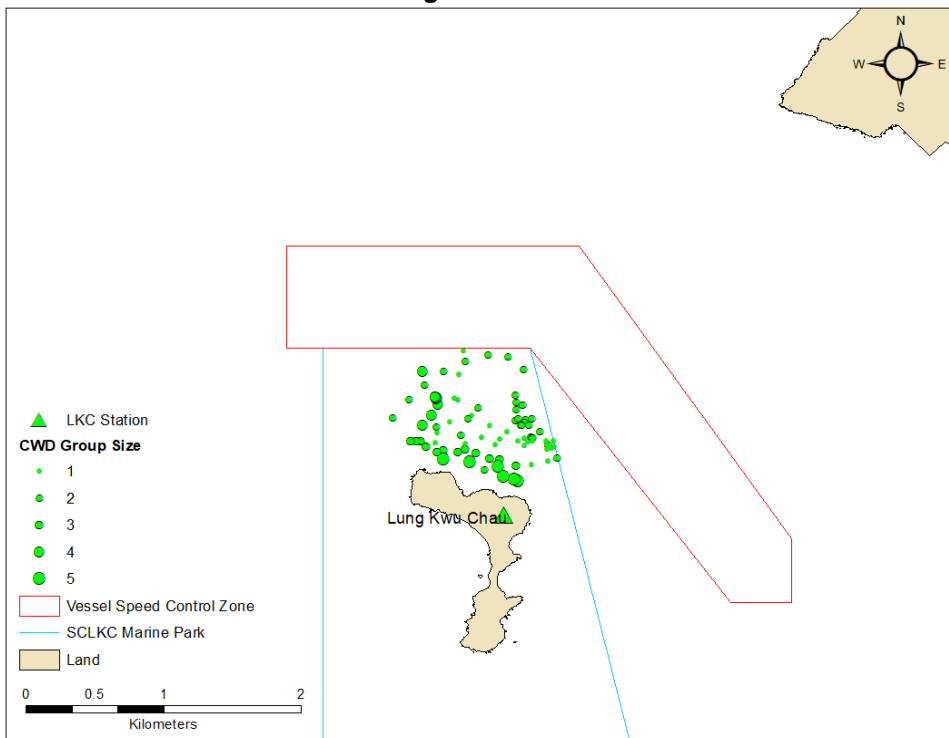


Figure 16: Plots of CWD Short-track Positions (Standardized Segments) relative to Group Size crossing the boundary of Sha Chau and Lung Kwu Chau Marine Park in 2019

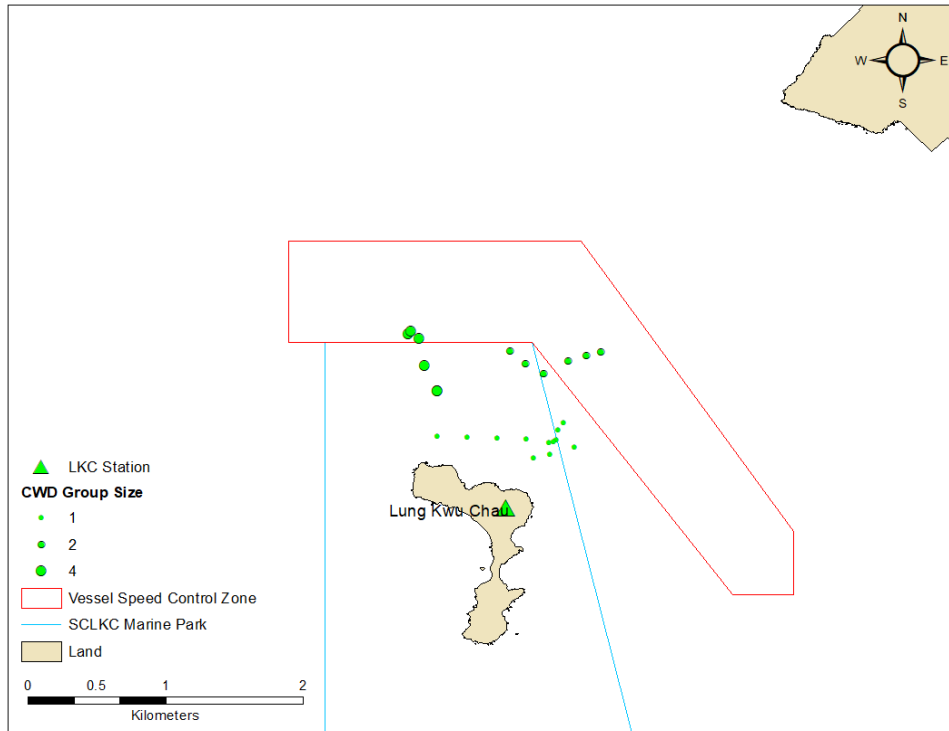


Figure 17: Plots of CWD Short-track Positions (Standardized Segments) relative to Group Size tracked outside Sha Chau and Lung Kwu Chau Marine Park in 2019

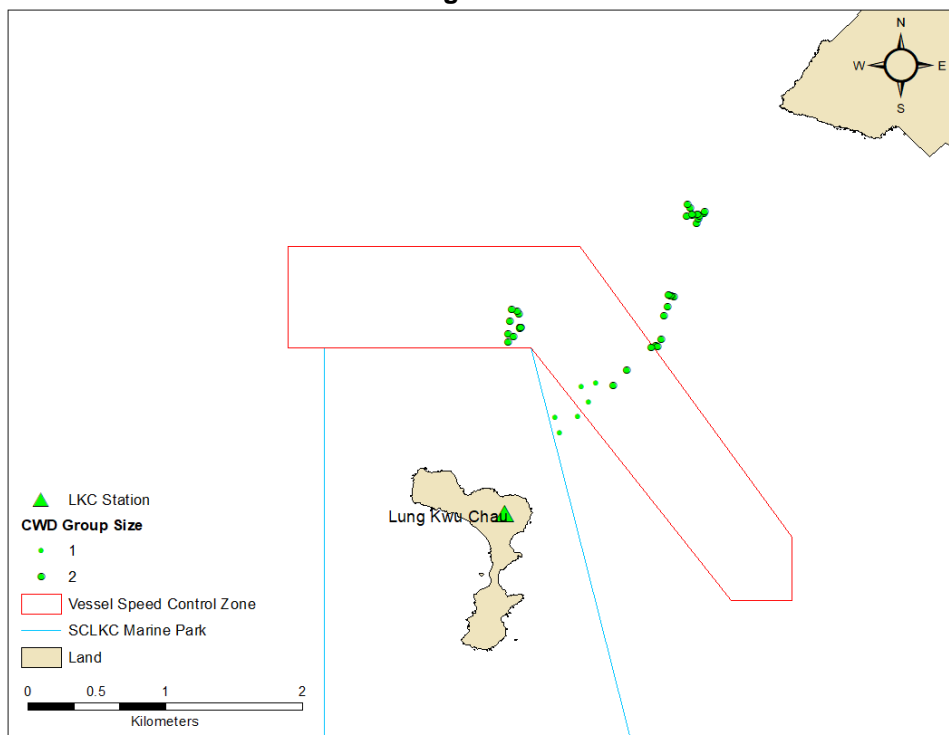


Figure 18: Percentages of CWD Behavioural States, excluding Unknown Category, recorded from Lung Kwu Chau in 2019

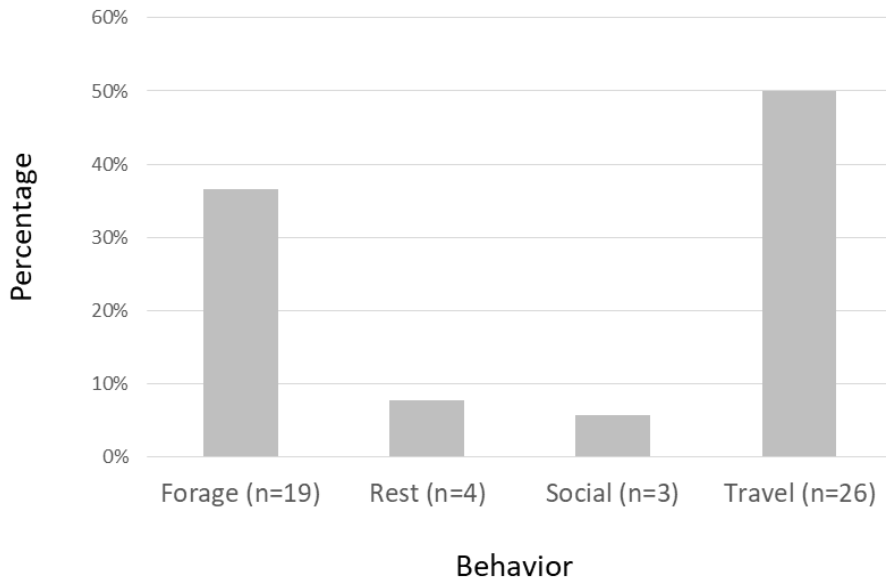


Figure 19: Stacked Bar Graph showing percentages of CWD Behavioural States, excluding Unknown Category, relative to the Sha Chau and Lung Kwu Chau Marine Park Location, recorded from Lung Kwu Chau in 2019

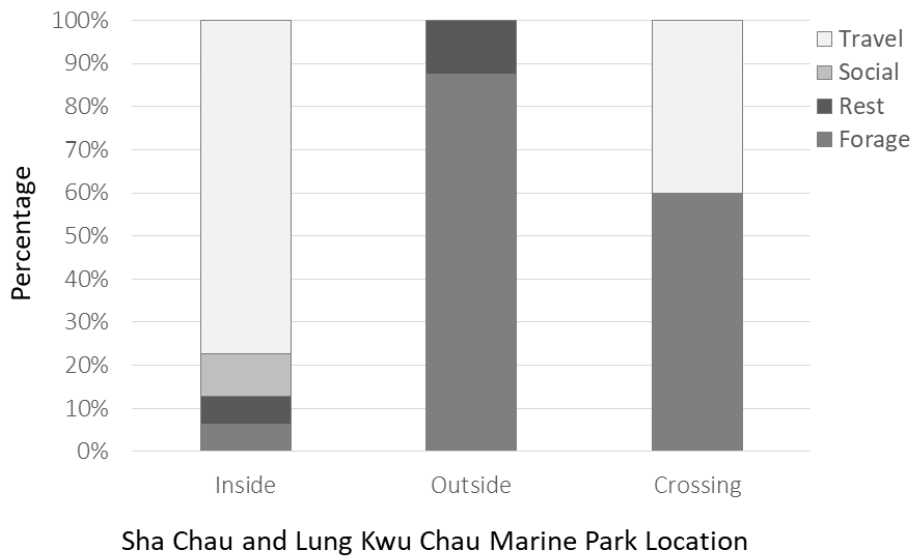


Figure 20: Plots of All Vessel Positions and All CWD Positions (prior to filtering out short-track data) obtained from Lung Kwu Chau in 2019

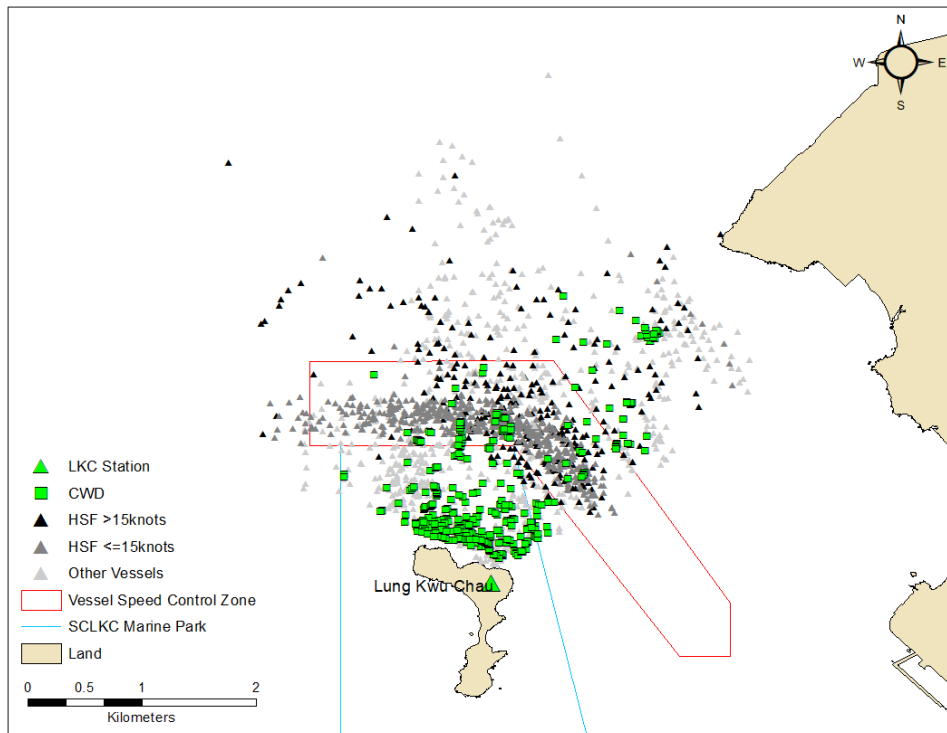
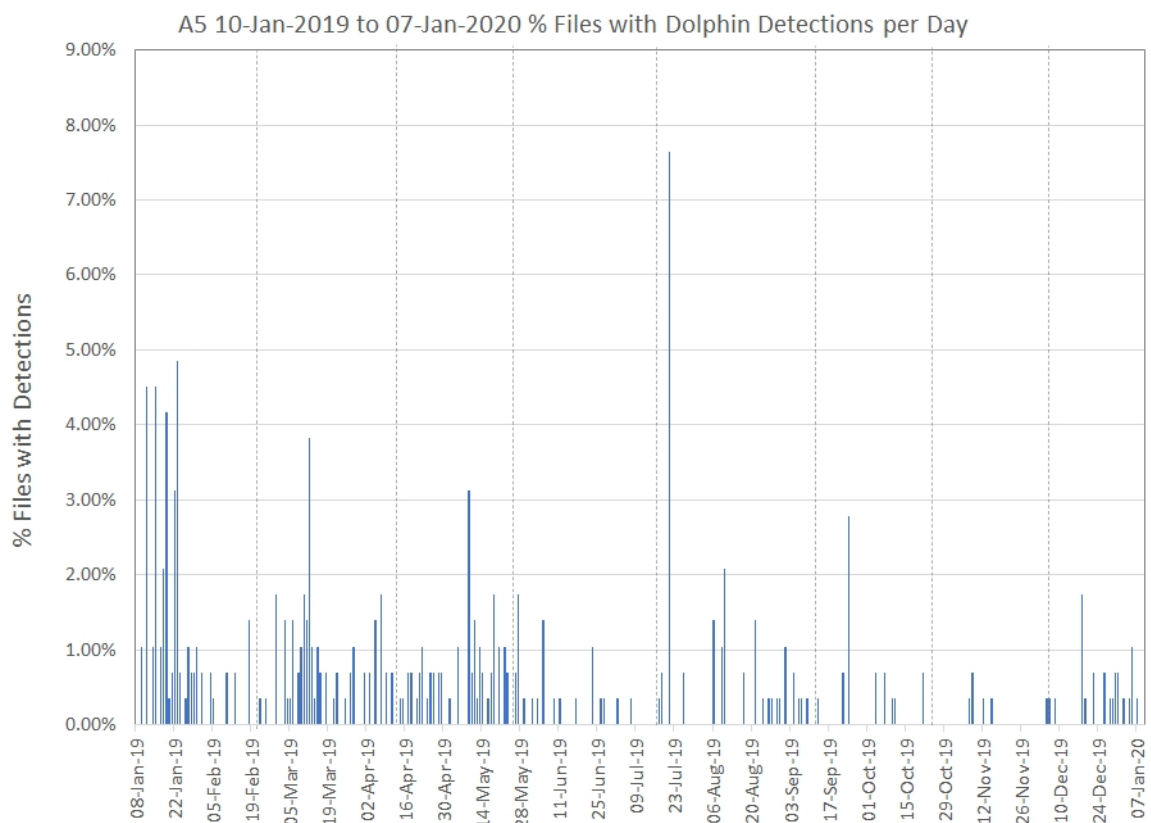


Figure 21: Dolphin Detections as Percentage of Files per day in 2019



[Grey dotted lines indicate retrieval/redeployment of EAR]

Figure 22: Dolphin Detections by Hour of Day in 2019

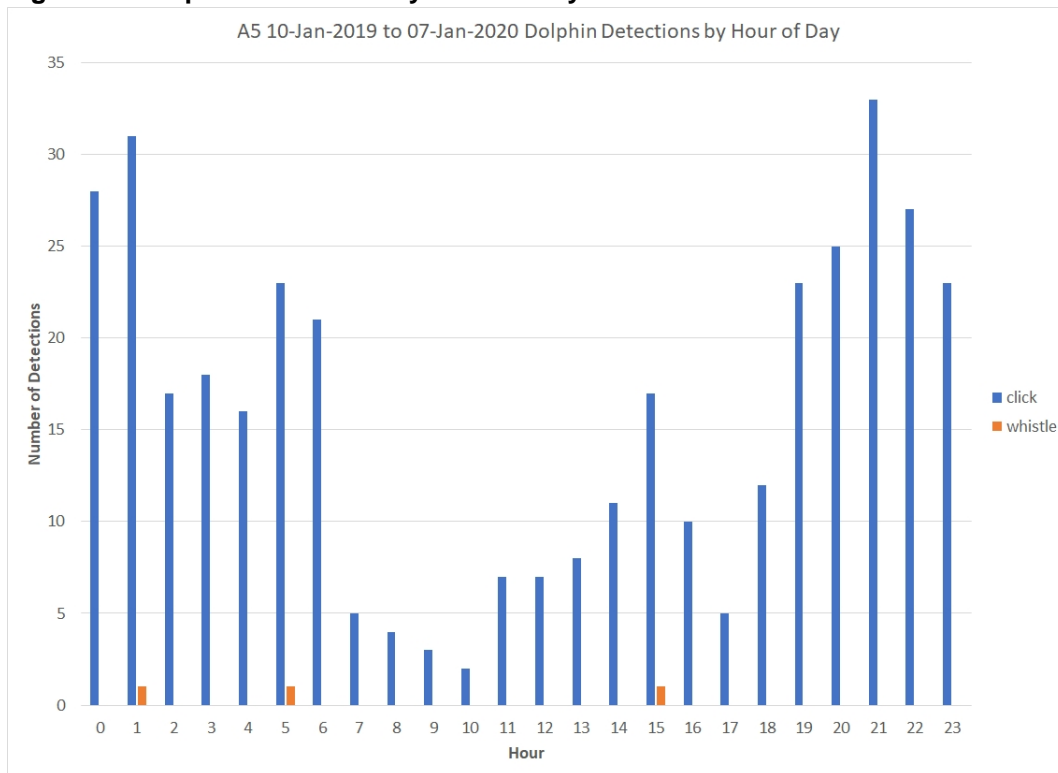
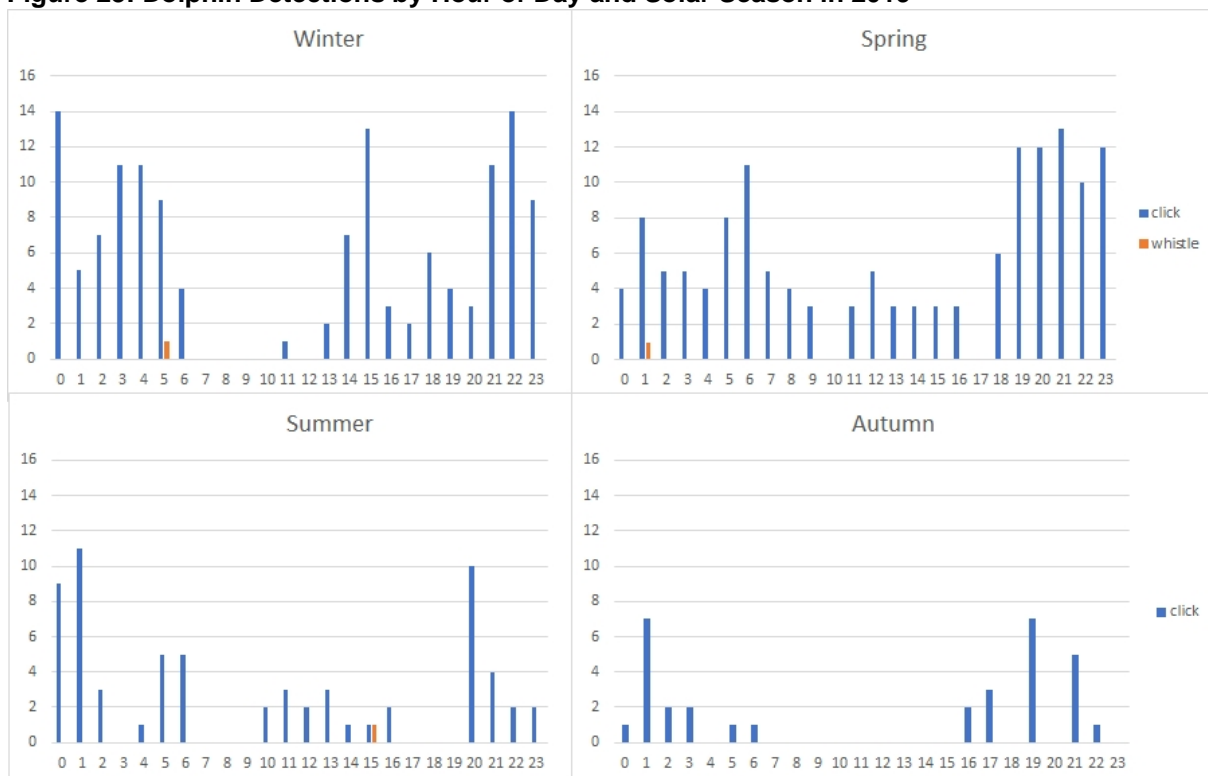


Figure 23: Dolphin Detections by Hour of Day and Solar Season in 2019



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

Figure 24: Daily Mean Sound Pressure Level (SPL) (dB rms re 1 μ Pa) recorded in 2019

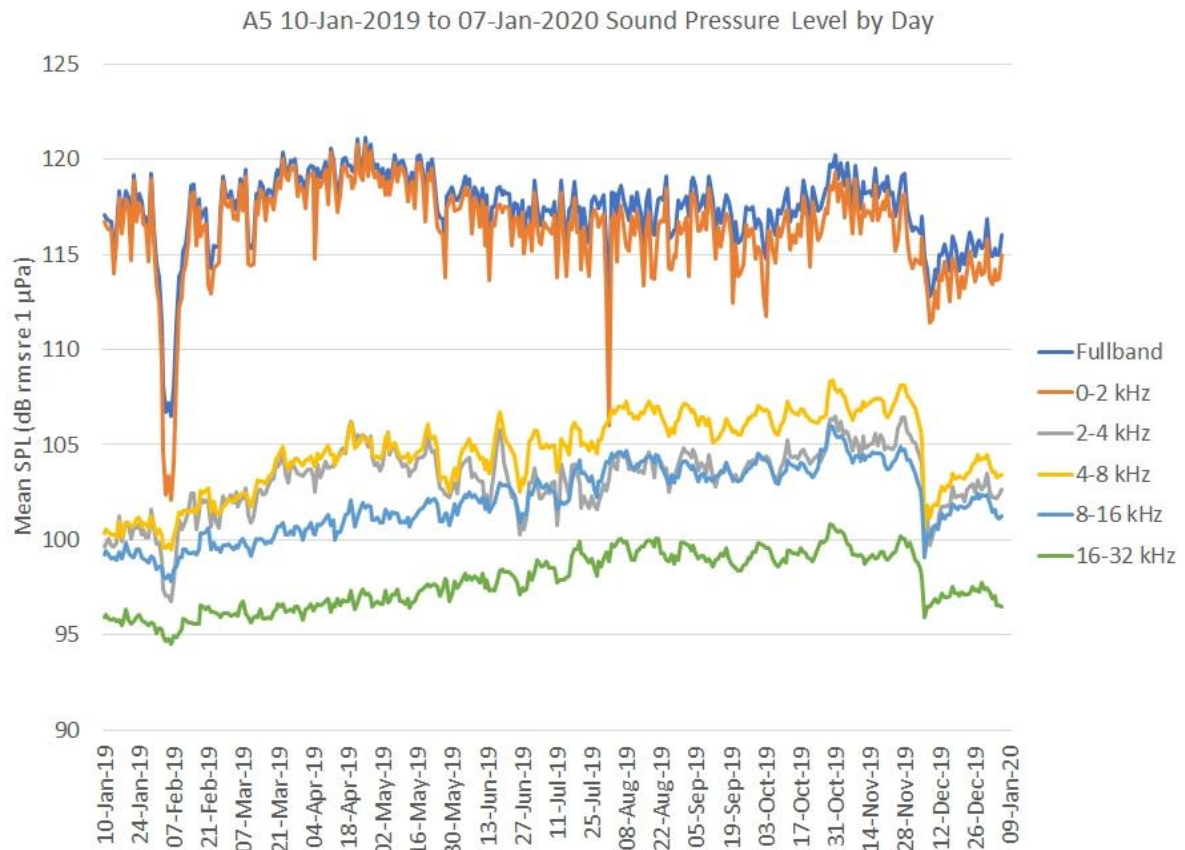


Figure 25: Sound Pressure Level (SPL) by Hour of Day recorded in 2019

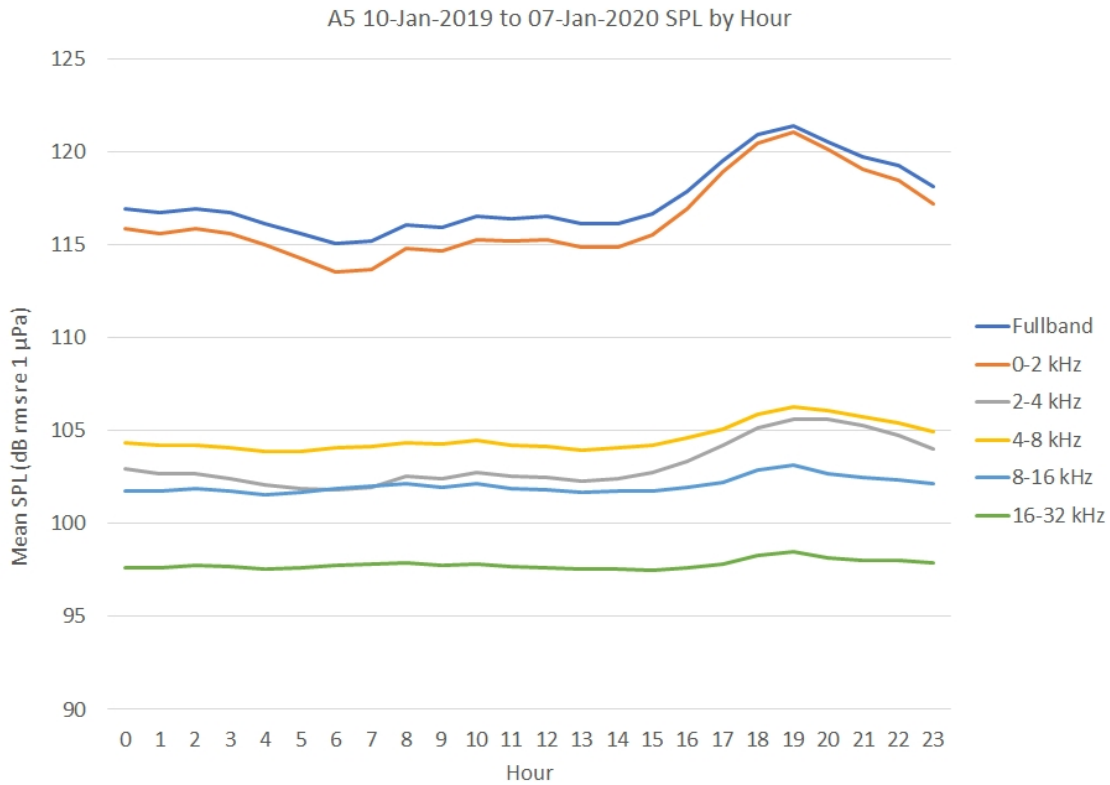
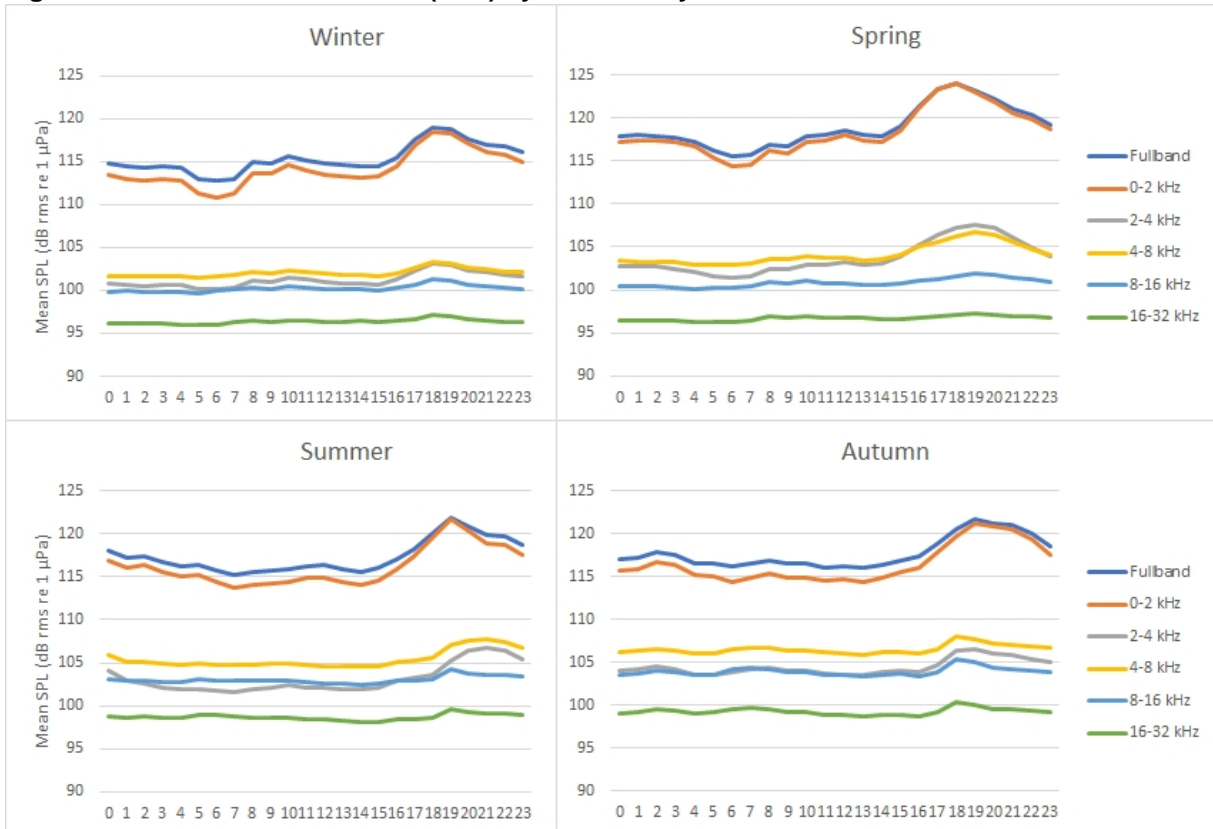


Figure 26: Sound Pressure Level (SPL) by Hour of Day and Solar Season recorded in 2019



[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)	
	2018	2019	2018	2019
NEL	0.0018	0	0.0018	0
NWL	2.84	1.47	8.15	3.17
AW	4.62	2.74	19.42	15.51
WL	16.13	14.31	56.52	57.52
SWL	2.61	2.53	7.90	8.50
Combined	4.00	3.22	13.02	11.63

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

Encounter Rate	Winter		Spring			Summer			Autumn			Winter
	Jan 19	Feb 19	Mar 19	Apr 19	May 19	Jun 19	Jul 19	Aug 19	Sep 19	Oct 19	Nov 19	Dec 19
Monthly STG	2.47	1.47	1.89	2.86	2.33	3.02	7.64	3.95	4.47	3.33	2.50	2.56
Monthly ANI	5.69	3.43	7.81	10.78	10.72	10.07	31.72	16.50	17.63	12.00	5.46	6.98
Running Quarterly STG	2.96	1.87	1.94	2.10	2.37	2.73	4.37	4.92	5.36	3.91	3.42	2.80
Running Quarterly ANI	9.29	5.76	5.67	7.47	9.80	10.54	17.72	19.69	21.98	15.32	11.63	8.18

Table 3: CWD Line Transects Parameters and Estimates of Density and Abundance for Western Hong Kong, 2019

Time Period	Stratum	No. of Sightings*	Average Group Size	Trackline Detection Prob. - g(0)	Individual Density (no./100km ²)	Abundance	95% CI (Abund.)	%CV
Jan-Dec 2019	AW	3	2.8	1.0	22.34	1	0-3	51.1
Jan-Dec 2019	DB	1	2.8	1.0	2.75	1	0-5	102.6
Jan-Dec 2019	NEL	0	2.8	1.0	0.00	0	N/A	N/A
Jan-Dec 2019	NWL	25	2.8	1.0	9.09	8	4-15	30.4
Jan-Dec 2019	SWL	39	2.8	1.0	13.78	9	5-15	26.4
Jan-Dec 2019	WL	98	2.8	1.0	79.83	22	16-31	16.6
Jan-Dec 2019	Pooled[^]	166	2.8	1.0	15.13	40	30-53	14.6
Jan-Dec 2019	Winter#	27	2.8	1.0	14.94	35	16-71	35.1
Jan-Dec 2019	Spring#	32	2.8	1.0	11.52	27	17-44	22.2
Jan-Dec 2019	Summer#	62	2.8	1.0	31.16	73	49-107	19.3
Jan-Dec 2019	Autumn#	45	2.8	1.0	20.49	48	28-80	25.2

* Before truncation

[^] 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

Survey Area	Average Group Size of CWDs
NEL	0.00
NWL	2.16
AW	5.67
WL	4.02
SWL	3.44
Overall	3.63 ± 3.13

Table 5: Average Group Sizes of CWDs by Seasons

Solar Season	Average Group Size of CWDs
Spring	4.13
Summer	4.00
Autumn	3.37
Winter	2.68

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	2018	67%	-	17%	-	-
	2019	100%	-	-	-	-
NEL	2018	50%	-	-	-	-
	2019	-	-	-	-	-
NWL	2018	38%	3%	4%	-	13%
	2019	28%	8%	8%	-	-
WL	2018	22%	8%	10%	-	20%
	2019	19%	8%	14%	1%	11%
SWL	2018	17%	5%	7%	2%	14%
	2019	29%	10%	7%	-	17%
Overall	2018	25%	7%	10%	1%	4%
	2019	25%	8%	13%	1%	2%

Table 7: Summary of Photo Identification

Individual ID	Date of sighting (dd/mmm/yy)	Sighting No.	Area
NLMM001	16-Jul-19	6	WL
	18-Jul-19	1	SWL
		3	SWL
	18-Dec-19	3	WL
NLMM002	11-Feb-19	1	NWL
NLMM004	17-Apr-19	1	WL
	3-Oct-19	1	AW
		2	WL
	10-Oct-19	3	NWL
	11-Nov-19	3	NWL
	16-Dec-19	3	NWL
NLMM006	15-May-19	3	NWL
	10-Oct-19	3	NWL
	16-Dec-19	2	NWL
NLMM009	11-Feb-19	1	NWL
NLMM012	21-Aug-19	1	WL
NLMM013	15-May-19	3	NWL
	10-Oct-19	3	NWL
	11-Nov-19	3	NWL
	16-Dec-19	2	NWL
NLMM015	9-Sep-19	6	SWL
	12-Sep-19	1	WL
NLMM016	28-Jan-19	1	WL
	3-Apr-19	2	WL
	17-Apr-19	4	WL
	14-May-19	1	WL
	3-Oct-19	6	WL
	18-Dec-19	2	WL
NLMM018	3-Oct-19	1	AW
		2	WL
NLMM019	24-Jan-19	1	AW
	13-Feb-19	1	AW
	19-Jun-19	1	NWL
	3-Oct-19	1	AW
	11-Nov-19	1	NWL
	22-Nov-19	4	WL
NLMM020	24-Jan-19	1	AW
	13-Feb-19	1	AW
	9-Sep-19	6	SWL
	11-Nov-19	1	NWL
NLMM021	19-Jun-19	1	NWL
	21-Aug-19	2	WL
NLMM023	10-Oct-19	2	NWL
NLMM027	19-Jun-19	1	NWL
	21-Aug-19	2	WL
NLMM033	8-Aug-19	1	WL
NLMM034	26-Jun-19	1	WL
NLMM037	24-Jul-19	1	NWL
NLMM039	25-Apr-19	2	NWL
	15-May-19	1	NWL
NLMM040	8-Aug-19	2	WL
NLMM041	8-Aug-19	2	WL
NLMM043	13-Feb-19	1	AW
	25-Sep-19	1	WL
NLMM046	26-Jun-19	1	WL
	8-Aug-19	2	WL
NLMM049	23-Jul-19	6	WL
NLMM052	3-Oct-19	1	AW
NLMM053	3-Oct-19	1	AW
NLMM056	12-Mar-19	3	WL

Individual ID	Date of sighting (dd/mmm/yy)	Sighting No.	Area
NLMM060	8-Aug-19	1	WL
	12-Mar-19	2	WL
	3-Apr-19	3	WL
NLMM061	14-May-19	4	WL
	17-Jul-19	9	SWL
NLMM062	17-Jan-19	1	NWL
NLMM063	24-Jan-19	4	WL
	25-Apr-19	3	NWL
	24-Jul-19	1	NWL
	21-Aug-19	5	WL
	12-Sep-19	1	WL
	16-Dec-19	3	NWL
NLMM065	17-Apr-19	1	WL
NLMM067	8-Aug-19	1	WL
NLMM068	3-Oct-19	1	AW
NLMM069	25-Apr-19	1	NWL
NLMM070	25-Apr-19	1	NWL
	26-Jun-19	1	WL
NLMM071	3-Oct-19	1	AW
NLMM072	16-Dec-19	3	NWL
SLMM002	21-Jan-19	2	SWL
	22-Jan-19	4	SWL
	3-Apr-19	3	WL
	8-May-19	1	WL
	25-Sep-19	9	WL
SLMM003	22-Jan-19	4	SWL
	12-Mar-19	5	WL
	16-Jul-19	6	WL
	21-Aug-19	5	WL
	12-Sep-19	2	WL
		3	WL
		7	WL
3-Oct-19	1	WL	
SLMM007	21-Jan-19	2	SWL
	22-Jan-19	4	SWL
	16-Jul-19	6	WL
	12-Sep-19	2	WL
	25-Sep-19	9	WL
SLMM010	24-Jan-19	6	WL
	13-Feb-19	3	WL
	21-Aug-19	5	WL
	3-Oct-19	8	WL
	10-Dec-19	2	SWL
SLMM011	13-Feb-19	1	AW
	18-Jun-19	2	SWL
	11-Nov-19	1	NWL
SLMM012	22-Jan-19	4	SWL
	13-Feb-19	2	WL
	17-Jul-19	2	SWL
	18-Jul-19	1	SWL
	9-Sep-19	6	SWL
	21-Nov-19	4	SWL
	18-Dec-19	3	WL
SLMM014	3-Apr-19	3	WL
	18-Jul-19	4	SWL
	3-Oct-19	8	WL
	18-Dec-19	4	WL
SLMM022	3-Apr-19	3	WL
	23-Jul-19	7	WL
	25-Sep-19	8	WL
		9	WL
	3-Oct-19	8	WL

Individual ID	Date of sighting (dd/mmm/yy)	Sighting No.	Area
SLMM023	14-May-19	4	WL
SLMM025	26-Jun-19	2	WL
	21-Aug-19	2	WL
	3-Oct-19	8	WL
SLMM027	25-Sep-19	9	WL
SLMM028	18-Jun-19	1	SWL
	18-Jul-19	4	SWL
	3-Oct-19	8	WL
	22-Nov-19	1	WL
SLMM029	17-Jul-19	3	SWL
	18-Jul-19	1	SWL
	3-Oct-19	8	WL
SLMM030	14-May-19	3	WL
	27-May-19	3	SWL
SLMM031	17-Jul-19	1	SWL
	21-Nov-19	4	SWL
SLMM034	3-Apr-19	3	WL
	8-May-19	1	WL
	14-May-19	5	WL
SLMM035	17-Jul-19	4	SWL
SLMM037	17-Jul-19	5	SWL
	18-Jul-19	1	SWL
		3	SWL
	3-Oct-19	7	WL
	12-Nov-19	1	WL
SLMM044	18-Dec-19	3	WL
SLMM045	14-May-19	4	WL
	12-Sep-19	5	WL
SLMM049	14-May-19	4	WL
	17-Jul-19	4	SWL
	18-Jul-19	1	SWL
		3	SWL
	25-Sep-19	9	WL
	3-Oct-19	8	WL
	22-Nov-19	6	SWL
	3-Apr-19	3	WL
SLMM050	23-Jul-19	5	WL
	18-Dec-19	3	WL
	22-Jan-19	4	SWL
SLMM052	25-Mar-19	1	WL
	17-Jul-19	2	SWL
		5	SWL
	18-Jul-19	1	SWL
		3	SWL
	3-Oct-19	4	WL
	12-Nov-19	1	WL
	21-Jan-19	2	SWL
SLMM053	18-Jul-19	4	SWL
	21-Aug-19	2	WL
	25-Sep-19	8	WL
	3-Oct-19	8	WL
	22-Nov-19	4	WL
	25-Mar-19	1	WL
SLMM058	25-Sep-19	7	WL
	3-Apr-19	3	WL
SLMM060	2-Oct-19	3	SWL
	21-Nov-19	2	SWL
SLMM062	17-Jul-19	4	SWL
	18-Jul-19	3	SWL
SLMM064	12-Mar-19	3	WL
	17-Jul-19	4	SWL
	8-Aug-19	1	WL

Individual ID	Date of sighting (dd/mmm/yy)	Sighting No.	Area
SLMM068	17-Jul-19	2	SWL
SLMM070	17-Jul-19	4	SWL
	18-Jul-19	3	SWL
SLMM071	18-Jul-19	1	SWL
SLMM072	22-Aug-19	2	SWL
WLMM001	24-Jan-19	4	WL
	28-Jan-19	1	WL
	3-Apr-19	3	WL
	25-Sep-19	7	WL
WLMM003	22-Nov-19	2	WL
	3-Apr-19	3	WL
WLMM004	10-Dec-19	3	SWL
	3-Apr-19	3	WL
WLMM005	17-Jul-19	4	SWL
	12-Sep-19	2	WL
		3	WL
WLMM006	14-May-19	4	WL
	25-Sep-19	8	WL
WLMM007	14-May-19	2	WL
	18-Jul-19	4	SWL
	22-Nov-19	2	WL
WLMM008	22-Jan-19	4	SWL
	3-Apr-19	3	WL
	8-May-19	1	WL
	25-Sep-19	9	WL
	3-Oct-19	8	WL
WLMM009	18-Dec-19	5	WL
	17-Jul-19	3	SWL
	22-Nov-19	5	WL
WLMM010	18-Dec-19	5	WL
WLMM011	14-May-19	2	WL
WLMM012	3-Oct-19	6	WL
WLMM013	3-Oct-19	8	WL
WLMM014	12-Mar-19	3	WL
	17-Apr-19	2	WL
WLMM015	25-Mar-19	1	WL
	18-Jun-19	2	SWL
	17-Jul-19	6	SWL
	9-Sep-19	2	SWL
	18-Dec-19	1	WL
WLMM016	24-Jan-19	4	WL
WLMM017	24-Jan-19	4	WL
	18-Jul-19	4	SWL
	3-Oct-19	8	WL
	22-Nov-19	2	WL
WLMM018	3-Apr-19	3	WL
	8-Aug-19	4	WL
WLMM019	3-Apr-19	3	WL
WLMM020	17-Apr-19	6	WL
	16-Jul-19	5	WL
	8-Aug-19	7	WL
	21-Aug-19	3	WL
	17-Jul-19	6	SWL
WLMM021	12-Mar-19	3	WL
WLMM022	3-Apr-19	1	WL
	17-Apr-19	1	WL
		5	WL
	14-May-19	1	WL
	6-Jun-19	2	WL
	26-Jun-19	1	WL
	16-Jul-19	1	WL

Individual ID	Date of sighting (dd/mmm/yy)	Sighting No.	Area
	25-Sep-19	6	WL
WLMM046	17-Apr-19	3	WL
	18-Jul-19	3	SWL
WLMM049	16-Jul-19	3	WL
	25-Sep-19	5	WL
	10-Oct-19	1	NWL
WLMM051	8-Aug-19	1	WL
WLMM052	12-Mar-19	3	WL
	26-Jun-19	1	WL
	16-Jul-19	5	WL
WLMM054	12-Mar-19	1	WL
	3-Apr-19	3	WL
	9-Sep-19	1	SWL
	4-Oct-19	5	SWL
	11-Oct-19	1	WL
		2	WL
	18-Dec-19	1	WL
WLMM056	22-Jan-19	4	SWL
	13-Feb-19	2	WL
	3-Apr-19	3	WL
	17-Jul-19	2	SWL
	21-Aug-19	5	WL
	9-Sep-19	6	SWL
	21-Nov-19	4	SWL
WLMM060	13-Mar-19	1	NWL
	12-Sep-19	3	WL
WLMM061	15-May-19	2	NWL
WLMM062	12-Mar-19	2	WL
	25-Sep-19	2	WL
WLMM063	3-Apr-19	3	WL
	14-May-19	4	WL
	17-Jul-19	10	SWL
	22-Nov-19	2	WL
WLMM064	17-Jan-19	1	NWL
WLMM065	17-Jul-19	9	SWL
	12-Sep-19	3	WL
	25-Sep-19	5	WL
	18-Dec-19	3	WL
WLMM067	21-Jan-19	2	SWL
	12-Mar-19	3	WL
	25-Mar-19	1	WL
	17-Jul-19	2	SWL
	25-Sep-19	9	WL
	18-Dec-19	3	WL
WLMM068	6-Jun-19	1	WL
WLMM069	24-Jan-19	5	WL
	3-Apr-19	3	WL
	14-May-19	4	WL
	17-Jul-19	4	SWL
	18-Jul-19	3	SWL
WLMM070	14-May-19	3	WL
WLMM071	13-Mar-19	1	NWL
	12-Sep-19	5	WL
	3-Oct-19	5	WL
WLMM073	26-Jun-19	2	WL
	3-Oct-19	7	WL
WLMM075	25-Sep-19	2	WL
WLMM076	14-May-19	3	WL
	27-May-19	3	SWL
WLMM078	24-Jan-19	3	WL
	27-May-19	3	SWL
	18-Jun-19	2	SWL

Individual ID	Date of sighting (dd/mmm/yy)	Sighting No.	Area
WLMM079	18-Jul-19	4	SWL
	25-Sep-19	8	WL
	3-Oct-19	8	WL
	22-Jan-19	4	SWL
	8-May-19	1	WL
	18-Jun-19	3	SWL
	18-Jul-19	1	SWL
		3	SWL
	23-Jul-19	7	WL
	21-Aug-19	5	WL
12-Sep-19	2	WL	
	3	WL	
	3-Oct-19	7	WL
WLMM081	16-Jul-19	4	WL
	8-Aug-19	4	WL
WLMM082	16-Jul-19	4	WL
	23-Jul-19	3	WL
	8-Aug-19	4	WL
WLMM083	14-May-19	2	WL
	6-Jun-19	2	WL
	16-Jul-19	1	WL
WLMM085	12-Mar-19	3	WL
	17-Jul-19	4	SWL
WLMM086	17-Apr-19	4	WL
	17-Jul-19	11	SWL
WLMM090	17-Apr-19	4	WL
	8-Aug-19	7	WL
	12-Sep-19	1	WL
WLMM094	16-Jul-19	5	WL
	8-Aug-19	7	WL
	25-Sep-19	2	WL
WLMM095	14-May-19	2	WL
	23-Jul-19	1	WL
WLMM100	8-Aug-19	1	WL
WLMM102	23-Jul-19	1	WL
WLMM103	14-May-19	2	WL
WLMM104	18-Jul-19	2	SWL
	23-Jul-19	6	WL
	8-Aug-19	7	WL
	3-Oct-19	3	WL
WLMM106	3-Apr-19	3	WL
	17-Jul-19	10	SWL
	25-Sep-19	9	WL
WLMM107	3-Oct-19	6	WL
WLMM109	23-Jul-19	5	WL
WLMM113	25-Mar-19	1	WL
WLMM114	12-Mar-19	4	WL
	25-Sep-19	9	WL
WLMM115	24-Apr-19	1	NWL
	22-Jul-19	1	NWL
	23-Jul-19	1	WL
		3	WL
WLMM118	17-Apr-19	6	WL
WLMM121	8-Aug-19	4	WL
WLMM122	26-Jun-19	1	WL
	16-Jul-19	1	WL
	8-Aug-19	1	WL
WLMM127	25-Apr-19	1	NWL
WLMM129	14-May-19	4	WL
WLMM131	12-Mar-19	5	WL
	6-Jun-19	3	WL
	17-Jul-19	2	SWL

Individual ID	Date of sighting (dd/mmm/yy)	Sighting No.	Area
		7	SWL
		10	SWL
	3-Oct-19	7	WL
WLMM132	24-Jan-19	5	WL
	3-Apr-19	3	WL
	17-Jul-19	4	SWL
	18-Jul-19	3	SWL
	3-Oct-19	7	WL
WLMM133	12-Mar-19	2	WL
	25-Sep-19	2	WL
WLMM134	12-Mar-19	3	WL
WLMM135	12-Mar-19	3	WL
WLMM136	12-Mar-19	3	WL
	16-Jul-19	5	WL
WLMM137	8-May-19	1	WL
	16-Jul-19	5	WL
WLMM138	6-Jun-19	2	WL
WLMM139	16-Jul-19	4	WL
WLMM140	16-Jul-19	4	WL
WLMM141	16-Jul-19	5	WL
WLMM142	23-Jul-19	5	WL
WLMM143	8-Aug-19	4	WL
WLMM144	8-Aug-19	7	WL
WLMM145	21-Aug-19	2	WL
WLMM146	12-Sep-19	2	WL
WLMM147	12-Sep-19	2	WL
		3	WL
WLMM148	12-Sep-19	4	WL
WLMM149	3-Oct-19	6	WL

Table 8: Land-based Survey, Theodolite Effort and CWD Group Summary in 2019

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	12	72:00	0	0.0	0	0
Lung Kwu Chau	24	144:04	47	0.33	16	23
TOTAL	36	216:04	47	0.22	16	23

Table 9: Land-based CWD Focal Group Size Summary in 2019 (Standardised Segments)

Category	n (sample size)	Minimum # Individuals	Maximum # Individuals	Mean Grp Size	Standard Deviation
Lung Kwu Chau Station Total	138	1	5	2.13	1.04
Winter	54	1	5	2.67	1.26
Spring	12	2	2	2.00	0
Summer	24	2	3	2.50	0.51
Autumn	48	1	2	1.38	0.49
Dry	90	1	5	2.27	1.13
Wet	48	1	3	1.88	0.79
Inside SCLKCMP boundary	72	1	5	2.33	1.19
Crossing SCLKCMP boundary	24	1	4	2.00	1.25
Outside SCLKCMP boundary	42	1	2	1.86	0.35
No boats present	96	1	5	2.19	1.08
High speed ferry within 500 m	18	2	2	2.00	0
High speed ferry under speed restriction within 500 m	6	1	1	1.00	0
Other boats within 500 m	18	1	4	2.33	1.28

Table 10: CWD Mean Swimming Speed, Reorientation Rate, and Linearity based on Vessel Presence record from Lung Kwu Chau in 2019

Vessel Type	Segment Sample Size	Mean Speed (Std. dev.)	Mean Reorientation Rate (Std. dev.)	Mean Linearity (Std. dev.)
No Vessel	16	2.79 (1.63)	25.53 (18.51)	0.79 (0.26)
High Speed Ferry	3	1.89 (1.18)	60.32 (10.04)	0.51 (0.25)
High Speed Ferry Under Speed Restriction	1	4.71 (N/A)	46.27 (N/A)	0.22 (N/A)
Other	3	3.91 (0.80)	18.27 (17.40)	0.89 (0.16)

Table 11: Summary of PAM Deployments and Dolphin Detections, 10 Jan 2019 to 07 Jan 2020

Site	Dep #	Data start (dd/mm/yyyy)	Data end (dd/mm/yyyy)	# recording days	# files	Days with dolphins (%)	Files with dolphins (%)
A5	1	10/01/2019	21/02/2019	43	12232	23 (53%)	105 (0.86%)
A5	2	22/02/2019	12/04/2019	50	14166	28 (56%)	79 (0.56%)
A5	3	13/04/2019	24/05/2019	42	11954	26 (62%)	62 (0.52%)
A5	4	25/05/2019	16/07/2019	53	15113	14 (26%)	24 (0.16%)
A5	5	17/07/2019	10/09/2019	56	16128	19 (34%)	59 (0.37%)
A5	6	12/09/2019	22/10/2019	41	11808	8 (20%)	19 (0.16%)
A5	7	24/10/2019	06/12/2019	44	12384	6 (14%)	7 (0.06%)
A5	8	06/12/2019	07/01/2020	33	9729	13 (39%)	23 (0.24%)
A5	Total	10/01/2019	07/01/2020	362	103514	137 (38%)	378 (0.37%)

Table 12: Summary of PAM Deployments and Dolphin Detections in the Previous Year (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%)
A5	Total	16/12/2017	09/01/2019	281	80246	123 (44%)	286 (0.36%)

CWD Small Vessel Line-transect Survey

Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
7-Jan-19	NWL	2	20.930	WINTER	32166	3RS ET	P
7-Jan-19	NWL	3	43.070	WINTER	32166	3RS ET	P
7-Jan-19	NWL	2	4.300	WINTER	32166	3RS ET	S
7-Jan-19	NWL	3	7.100	WINTER	32166	3RS ET	S
8-Jan-19	DB	2	8.250	WINTER	32166	3RS ET	P
8-Jan-19	DB	3	2.070	WINTER	32166	3RS ET	P
8-Jan-19	DB	2	4.410	WINTER	32166	3RS ET	S
8-Jan-19	DB	3	0.970	WINTER	32166	3RS ET	S
8-Jan-19	NEL	2	34.190	WINTER	32166	3RS ET	P
8-Jan-19	NEL	3	3.500	WINTER	32166	3RS ET	P
8-Jan-19	NEL	2	10.310	WINTER	32166	3RS ET	S
15-Jan-19	AW	1	4.830	WINTER	32166	3RS ET	P
15-Jan-19	WL	1	1.210	WINTER	32166	3RS ET	P
15-Jan-19	WL	2	19.630	WINTER	32166	3RS ET	P
15-Jan-19	WL	2	11.260	WINTER	32166	3RS ET	S
16-Jan-19	NEL	2	20.580	WINTER	32166	3RS ET	P
16-Jan-19	NEL	3	16.890	WINTER	32166	3RS ET	P
16-Jan-19	NEL	2	7.160	WINTER	32166	3RS ET	S
16-Jan-19	NEL	3	3.170	WINTER	32166	3RS ET	S
16-Jan-19	DB	2	1.900	WINTER	32166	3RS ET	P
16-Jan-19	DB	3	5.880	WINTER	32166	3RS ET	P
16-Jan-19	DB	4	2.010	WINTER	32166	3RS ET	P
16-Jan-19	DB	2	1.500	WINTER	32166	3RS ET	S
16-Jan-19	DB	3	2.870	WINTER	32166	3RS ET	S
16-Jan-19	DB	4	1.140	WINTER	32166	3RS ET	S
17-Jan-19	NWL	3	63.630	WINTER	32166	3RS ET	P
17-Jan-19	NWL	2	0.900	WINTER	32166	3RS ET	S
17-Jan-19	NWL	3	10.670	WINTER	32166	3RS ET	S
21-Jan-19	SWL	2	1.230	WINTER	32166	3RS ET	P
21-Jan-19	SWL	3	32.659	WINTER	32166	3RS ET	P
21-Jan-19	SWL	4	21.736	WINTER	32166	3RS ET	P
21-Jan-19	SWL	3	8.780	WINTER	32166	3RS ET	S
21-Jan-19	SWL	4	5.765	WINTER	32166	3RS ET	S
22-Jan-19	SWL	2	15.148	WINTER	32166	3RS ET	P
22-Jan-19	SWL	3	25.163	WINTER	32166	3RS ET	P
22-Jan-19	SWL	4	19.730	WINTER	32166	3RS ET	P
22-Jan-19	SWL	2	2.289	WINTER	32166	3RS ET	S
22-Jan-19	SWL	3	3.160	WINTER	32166	3RS ET	S
22-Jan-19	SWL	4	4.930	WINTER	32166	3RS ET	S
24-Jan-19	WL	1	3.950	WINTER	32166	3RS ET	P
24-Jan-19	WL	2	1.670	WINTER	32166	3RS ET	P
24-Jan-19	WL	3	1.480	WINTER	32166	3RS ET	P
24-Jan-19	WL	1	2.240	WINTER	32166	3RS ET	S
24-Jan-19	WL	2	1.240	WINTER	32166	3RS ET	S
24-Jan-19	AW	1	4.480	WINTER	32166	3RS ET	P
28-Jan-19	WL	2	8.141	WINTER	32166	3RS ET	P
28-Jan-19	WL	3	2.710	WINTER	32166	3RS ET	P
28-Jan-19	WL	4	0.680	WINTER	32166	3RS ET	P

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
28-Jan-19	WL	2	4.949	WINTER	32166	3RS ET	S
28-Jan-19	WL	3	1.530	WINTER	32166	3RS ET	S
11-Feb-19	NWL	3	56.030	WINTER	32166	3RS ET	P
11-Feb-19	NWL	4	5.200	WINTER	32166	3RS ET	P
11-Feb-19	NWL	5	1.800	WINTER	32166	3RS ET	P
11-Feb-19	NWL	3	9.170	WINTER	32166	3RS ET	S
11-Feb-19	NWL	4	3.300	WINTER	32166	3RS ET	S
12-Feb-19	NEL	1	24.190	WINTER	32166	3RS ET	P
12-Feb-19	NEL	2	12.260	WINTER	32166	3RS ET	P
12-Feb-19	NEL	3	1.200	WINTER	32166	3RS ET	P
12-Feb-19	NEL	1	6.760	WINTER	32166	3RS ET	S
12-Feb-19	NEL	2	2.690	WINTER	32166	3RS ET	S
12-Feb-19	DB	1	1.530	WINTER	32166	3RS ET	P
12-Feb-19	DB	2	8.360	WINTER	32166	3RS ET	P
12-Feb-19	DB	2	4.390	WINTER	32166	3RS ET	S
12-Feb-19	DB	3	0.820	WINTER	32166	3RS ET	S
13-Feb-19	AW	2	5.048	WINTER	32166	3RS ET	P
13-Feb-19	WL	1	1.980	WINTER	32166	3RS ET	P
13-Feb-19	WL	2	18.238	WINTER	32166	3RS ET	P
13-Feb-19	WL	1	1.410	WINTER	32166	3RS ET	S
13-Feb-19	WL	2	7.462	WINTER	32166	3RS ET	S
18-Feb-19	NEL	3	15.320	WINTER	32166	3RS ET	P
18-Feb-19	NEL	4	12.170	WINTER	32166	3RS ET	P
18-Feb-19	NEL	5	9.810	WINTER	32166	3RS ET	P
18-Feb-19	NEL	3	8.270	WINTER	32166	3RS ET	S
18-Feb-19	NEL	4	1.930	WINTER	32166	3RS ET	S
18-Feb-19	DB	2	1.200	WINTER	32166	3RS ET	P
18-Feb-19	DB	3	7.450	WINTER	32166	3RS ET	P
18-Feb-19	DB	4	1.560	WINTER	32166	3RS ET	P
18-Feb-19	DB	2	2.900	WINTER	32166	3RS ET	S
18-Feb-19	DB	3	1.790	WINTER	32166	3RS ET	S
20-Feb-19	SWL	2	41.440	WINTER	32166	3RS ET	P
20-Feb-19	SWL	3	11.900	WINTER	32166	3RS ET	P
20-Feb-19	SWL	2	15.540	WINTER	32166	3RS ET	S
20-Feb-19	SWL	3	1.100	WINTER	32166	3RS ET	S
21-Feb-19	SWL	2	9.600	WINTER	32166	3RS ET	P
21-Feb-19	SWL	3	44.290	WINTER	32166	3RS ET	P
21-Feb-19	SWL	4	1.000	WINTER	32166	3RS ET	P
21-Feb-19	SWL	2	5.100	WINTER	32166	3RS ET	S
21-Feb-19	SWL	3	10.810	WINTER	32166	3RS ET	S
22-Feb-19	NWL	2	15.900	WINTER	32166	3RS ET	P
22-Feb-19	NWL	3	43.000	WINTER	32166	3RS ET	P
22-Feb-19	NWL	4	4.900	WINTER	32166	3RS ET	P
22-Feb-19	NWL	2	4.100	WINTER	32166	3RS ET	S
22-Feb-19	NWL	3	3.500	WINTER	32166	3RS ET	S
22-Feb-19	NWL	4	3.700	WINTER	32166	3RS ET	S
26-Feb-19	AW	3	2.920	WINTER	32166	3RS ET	P
26-Feb-19	AW	4	1.950	WINTER	32166	3RS ET	P
26-Feb-19	WL	2	5.060	WINTER	32166	3RS ET	P

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
26-Feb-19	WL	3	12.840	WINTER	32166	3RS ET	P
26-Feb-19	WL	4	2.280	WINTER	32166	3RS ET	P
26-Feb-19	WL	2	3.960	WINTER	32166	3RS ET	S
26-Feb-19	WL	3	6.840	WINTER	32166	3RS ET	S
6-Mar-19	NWL	2	7.760	SPRING	32166	3RS ET	P
6-Mar-19	NWL	3	45.090	SPRING	32166	3RS ET	P
6-Mar-19	NWL	4	9.860	SPRING	32166	3RS ET	P
6-Mar-19	NWL	2	2.390	SPRING	32166	3RS ET	S
6-Mar-19	NWL	3	9.400	SPRING	32166	3RS ET	S
8-Mar-19	NEL	2	7.210	SPRING	32166	3RS ET	P
8-Mar-19	NEL	3	15.470	SPRING	32166	3RS ET	P
8-Mar-19	NEL	4	14.300	SPRING	32166	3RS ET	P
8-Mar-19	NEL	2	1.100	SPRING	32166	3RS ET	S
8-Mar-19	NEL	3	9.020	SPRING	32166	3RS ET	S
8-Mar-19	DB	2	2.860	SPRING	32166	3RS ET	P
8-Mar-19	DB	3	5.550	SPRING	32166	3RS ET	P
8-Mar-19	DB	4	1.500	SPRING	32166	3RS ET	P
8-Mar-19	DB	2	3.840	SPRING	32166	3RS ET	S
8-Mar-19	DB	3	0.950	SPRING	32166	3RS ET	S
12-Mar-19	AW	2	4.790	SPRING	32166	3RS ET	P
12-Mar-19	WL	2	17.206	SPRING	32166	3RS ET	P
12-Mar-19	WL	3	1.200	SPRING	32166	3RS ET	P
12-Mar-19	WL	2	8.012	SPRING	32166	3RS ET	S
12-Mar-19	WL	3	0.890	SPRING	32166	3RS ET	S
13-Mar-19	NWL	2	25.190	SPRING	32166	3RS ET	P
13-Mar-19	NWL	3	37.650	SPRING	32166	3RS ET	P
13-Mar-19	NWL	2	9.060	SPRING	32166	3RS ET	S
13-Mar-19	NWL	3	2.600	SPRING	32166	3RS ET	S
15-Mar-19	NEL	2	22.660	SPRING	32166	3RS ET	P
15-Mar-19	NEL	3	15.030	SPRING	32166	3RS ET	P
15-Mar-19	NEL	2	8.010	SPRING	32166	3RS ET	S
15-Mar-19	NEL	3	1.700	SPRING	32166	3RS ET	S
15-Mar-19	DB	2	1.100	SPRING	32166	3RS ET	P
15-Mar-19	DB	3	8.560	SPRING	32166	3RS ET	P
15-Mar-19	DB	2	3.870	SPRING	32166	3RS ET	S
15-Mar-19	DB	3	0.970	SPRING	32166	3RS ET	S
21-Mar-19	SWL	1	6.680	SPRING	32166	3RS ET	P
21-Mar-19	SWL	2	49.790	SPRING	32166	3RS ET	P
21-Mar-19	SWL	3	4.000	SPRING	32166	3RS ET	P
21-Mar-19	SWL	2	9.960	SPRING	32166	3RS ET	S
22-Mar-19	SWL	1	3.850	SPRING	32166	3RS ET	P
22-Mar-19	SWL	2	56.301	SPRING	32166	3RS ET	P
22-Mar-19	SWL	2	9.689	SPRING	32166	3RS ET	S
25-Mar-19	AW	3	4.650	SPRING	32166	3RS ET	P
25-Mar-19	WL	2	3.400	SPRING	32166	3RS ET	P
25-Mar-19	WL	3	12.070	SPRING	32166	3RS ET	P
25-Mar-19	WL	4	4.800	SPRING	32166	3RS ET	P
25-Mar-19	WL	2	4.640	SPRING	32166	3RS ET	S
25-Mar-19	WL	3	6.190	SPRING	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
2-Apr-19	NEL	2	3.760	SPRING	32166	3RS ET	P
2-Apr-19	NEL	3	32.560	SPRING	32166	3RS ET	P
2-Apr-19	NEL	4	1.300	SPRING	32166	3RS ET	P
2-Apr-19	NEL	2	2.950	SPRING	32166	3RS ET	S
2-Apr-19	NEL	3	6.330	SPRING	32166	3RS ET	S
2-Apr-19	DB	2	6.940	SPRING	32166	3RS ET	P
2-Apr-19	DB	3	2.710	SPRING	32166	3RS ET	P
2-Apr-19	DB	2	3.950	SPRING	32166	3RS ET	S
2-Apr-19	DB	3	0.900	SPRING	32166	3RS ET	S
3-Apr-19	AW	3	4.860	SPRING	32166	3RS ET	P
3-Apr-19	WL	2	16.868	SPRING	32166	3RS ET	P
3-Apr-19	WL	3	6.320	SPRING	32166	3RS ET	P
3-Apr-19	WL	2	5.681	SPRING	32166	3RS ET	S
3-Apr-19	WL	3	3.930	SPRING	32166	3RS ET	S
9-Apr-19	SWL	2	4.100	SPRING	32166	3RS ET	P
9-Apr-19	SWL	3	50.530	SPRING	32166	3RS ET	P
9-Apr-19	SWL	4	1.000	SPRING	32166	3RS ET	P
9-Apr-19	SWL	2	1.200	SPRING	32166	3RS ET	S
9-Apr-19	SWL	3	13.470	SPRING	32166	3RS ET	S
11-Apr-19	SWL	2	50.110	SPRING	32166	3RS ET	P
11-Apr-19	SWL	3	5.000	SPRING	32166	3RS ET	P
11-Apr-19	SWL	2	13.420	SPRING	32166	3RS ET	S
11-Apr-19	SWL	3	2.340	SPRING	32166	3RS ET	S
17-Apr-19	AW	2	4.700	SPRING	32166	3RS ET	P
17-Apr-19	WL	1	3.160	SPRING	32166	3RS ET	P
17-Apr-19	WL	2	6.754	SPRING	32166	3RS ET	P
17-Apr-19	WL	3	13.978	SPRING	32166	3RS ET	P
17-Apr-19	WL	1	2.450	SPRING	32166	3RS ET	S
17-Apr-19	WL	2	2.196	SPRING	32166	3RS ET	S
17-Apr-19	WL	3	3.312	SPRING	32166	3RS ET	S
18-Apr-19	NEL	2	3.820	SPRING	32166	3RS ET	P
18-Apr-19	NEL	3	32.970	SPRING	32166	3RS ET	P
18-Apr-19	NEL	2	3.510	SPRING	32166	3RS ET	S
18-Apr-19	NEL	3	6.500	SPRING	32166	3RS ET	S
18-Apr-19	DB	2	4.790	SPRING	32166	3RS ET	P
18-Apr-19	DB	3	5.260	SPRING	32166	3RS ET	P
18-Apr-19	DB	2	0.940	SPRING	32166	3RS ET	S
18-Apr-19	DB	3	3.610	SPRING	32166	3RS ET	S
24-Apr-19	NWL	2	24.330	SPRING	32166	3RS ET	P
24-Apr-19	NWL	3	38.410	SPRING	32166	3RS ET	P
24-Apr-19	NWL	2	7.110	SPRING	32166	3RS ET	S
24-Apr-19	NWL	3	5.150	SPRING	32166	3RS ET	S
25-Apr-19	NWL	2	15.581	SPRING	32166	3RS ET	P
25-Apr-19	NWL	3	45.251	SPRING	32166	3RS ET	P
25-Apr-19	NWL	4	1.100	SPRING	32166	3RS ET	P
25-Apr-19	NWL	2	4.530	SPRING	32166	3RS ET	S
25-Apr-19	NWL	3	7.379	SPRING	32166	3RS ET	S
3-May-19	DB	2	0.400	SPRING	32166	3RS ET	P
3-May-19	DB	3	9.240	SPRING	32166	3RS ET	P

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
3-May-19	DB	2	1.200	SPRING	32166	3RS ET	S
3-May-19	DB	3	3.560	SPRING	32166	3RS ET	S
3-May-19	NEL	2	9.550	SPRING	32166	3RS ET	P
3-May-19	NEL	3	27.830	SPRING	32166	3RS ET	P
3-May-19	NEL	2	5.120	SPRING	32166	3RS ET	S
3-May-19	NEL	3	5.300	SPRING	32166	3RS ET	S
8-May-19	AW	3	2.330	SPRING	32166	3RS ET	P
8-May-19	AW	4	2.340	SPRING	32166	3RS ET	P
8-May-19	WL	2	8.310	SPRING	32166	3RS ET	P
8-May-19	WL	3	5.280	SPRING	32166	3RS ET	P
8-May-19	WL	4	7.050	SPRING	32166	3RS ET	P
8-May-19	WL	2	5.150	SPRING	32166	3RS ET	S
8-May-19	WL	3	2.580	SPRING	32166	3RS ET	S
8-May-19	WL	4	3.130	SPRING	32166	3RS ET	S
9-May-19	NEL	1	2.300	SPRING	32166	3RS ET	P
9-May-19	NEL	2	32.170	SPRING	32166	3RS ET	P
9-May-19	NEL	3	3.160	SPRING	32166	3RS ET	P
9-May-19	NEL	1	1.000	SPRING	32166	3RS ET	S
9-May-19	NEL	2	8.970	SPRING	32166	3RS ET	S
9-May-19	DB	2	8.250	SPRING	32166	3RS ET	P
9-May-19	DB	3	1.410	SPRING	32166	3RS ET	P
9-May-19	DB	2	4.750	SPRING	32166	3RS ET	S
10-May-19	SWL	2	6.600	SPRING	32166	3RS ET	P
10-May-19	SWL	3	48.980	SPRING	32166	3RS ET	P
10-May-19	SWL	2	2.120	SPRING	32166	3RS ET	S
10-May-19	SWL	3	13.300	SPRING	32166	3RS ET	S
14-May-19	AW	2	4.730	SPRING	32166	3RS ET	P
14-May-19	WL	2	12.245	SPRING	32166	3RS ET	P
14-May-19	WL	3	6.915	SPRING	32166	3RS ET	P
14-May-19	WL	2	5.880	SPRING	32166	3RS ET	S
14-May-19	WL	3	4.048	SPRING	32166	3RS ET	S
15-May-19	NWL	2	36.790	SPRING	32166	3RS ET	P
15-May-19	NWL	3	26.720	SPRING	32166	3RS ET	P
15-May-19	NWL	2	7.310	SPRING	32166	3RS ET	S
15-May-19	NWL	3	4.710	SPRING	32166	3RS ET	S
16-May-19	NWL	2	4.080	SPRING	32166	3RS ET	P
16-May-19	NWL	3	44.920	SPRING	32166	3RS ET	P
16-May-19	NWL	4	13.900	SPRING	32166	3RS ET	P
16-May-19	NWL	3	11.800	SPRING	32166	3RS ET	S
16-May-19	NWL	4	0.300	SPRING	32166	3RS ET	S
27-May-19	SWL	2	29.957	SPRING	32166	3RS ET	P
27-May-19	SWL	3	24.860	SPRING	32166	3RS ET	P
27-May-19	SWL	2	12.763	SPRING	32166	3RS ET	S
27-May-19	SWL	3	1.400	SPRING	32166	3RS ET	S
4-Jun-19	NEL	2	27.350	SUMMER	32166	3RS ET	P
4-Jun-19	NEL	3	7.700	SUMMER	32166	3RS ET	P
4-Jun-19	NEL	4	2.600	SUMMER	32166	3RS ET	P
4-Jun-19	NEL	2	7.050	SUMMER	32166	3RS ET	S
4-Jun-19	NEL	3	3.200	SUMMER	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
4-Jun-19	DB	2	9.650	SUMMER	32166	3RS ET	P
4-Jun-19	DB	2	4.950	SUMMER	32166	3RS ET	S
6-Jun-19	AW	2	4.730	SUMMER	32166	3RS ET	P
6-Jun-19	WL	2	7.467	SUMMER	32166	3RS ET	P
6-Jun-19	WL	3	12.575	SUMMER	32166	3RS ET	P
6-Jun-19	WL	2	1.850	SUMMER	32166	3RS ET	S
6-Jun-19	WL	3	7.388	SUMMER	32166	3RS ET	S
6-Jun-19	WL	4	0.570	SUMMER	32166	3RS ET	S
11-Jun-19	DB	2	4.400	SUMMER	32166	3RS ET	P
11-Jun-19	DB	3	5.420	SUMMER	32166	3RS ET	P
11-Jun-19	DB	2	0.940	SUMMER	32166	3RS ET	S
11-Jun-19	DB	3	3.940	SUMMER	32166	3RS ET	S
11-Jun-19	NEL	1	1.600	SUMMER	32166	3RS ET	P
11-Jun-19	NEL	2	34.960	SUMMER	32166	3RS ET	P
11-Jun-19	NEL	1	1.200	SUMMER	32166	3RS ET	S
11-Jun-19	NEL	2	10.140	SUMMER	32166	3RS ET	S
17-Jun-19	SWL	3	10.690	SUMMER	32166	3RS ET	P
17-Jun-19	SWL	4	44.330	SUMMER	32166	3RS ET	P
17-Jun-19	SWL	2	0.900	SUMMER	32166	3RS ET	S
17-Jun-19	SWL	3	2.800	SUMMER	32166	3RS ET	S
17-Jun-19	SWL	4	12.480	SUMMER	32166	3RS ET	S
18-Jun-19	SWL	2	51.312	SUMMER	32166	3RS ET	P
18-Jun-19	SWL	3	2.970	SUMMER	32166	3RS ET	P
18-Jun-19	SWL	2	10.560	SUMMER	32166	3RS ET	S
18-Jun-19	SWL	3	3.830	SUMMER	32166	3RS ET	S
19-Jun-19	NWL	1	7.700	SUMMER	32166	3RS ET	P
19-Jun-19	NWL	2	30.077	SUMMER	32166	3RS ET	P
19-Jun-19	NWL	3	24.682	SUMMER	32166	3RS ET	P
19-Jun-19	NWL	1	3.900	SUMMER	32166	3RS ET	S
19-Jun-19	NWL	2	6.050	SUMMER	32166	3RS ET	S
19-Jun-19	NWL	3	2.491	SUMMER	32166	3RS ET	S
26-Jun-19	AW	2	5.100	SUMMER	32166	3RS ET	P
26-Jun-19	WL	2	18.167	SUMMER	32166	3RS ET	P
26-Jun-19	WL	3	2.710	SUMMER	32166	3RS ET	P
26-Jun-19	WL	2	9.143	SUMMER	32166	3RS ET	S
26-Jun-19	WL	3	1.810	SUMMER	32166	3RS ET	S
27-Jun-19	NWL	2	4.700	SUMMER	32166	3RS ET	P
27-Jun-19	NWL	3	58.800	SUMMER	32166	3RS ET	P
27-Jun-19	NWL	2	2.200	SUMMER	32166	3RS ET	S
27-Jun-19	NWL	3	9.600	SUMMER	32166	3RS ET	S
8-Jul-19	DB	3	2.850	SUMMER	32166	3RS ET	P
8-Jul-19	DB	4	6.640	SUMMER	32166	3RS ET	P
8-Jul-19	DB	3	2.250	SUMMER	32166	3RS ET	S
8-Jul-19	DB	4	2.460	SUMMER	32166	3RS ET	S
8-Jul-19	NEL	2	6.410	SUMMER	32166	3RS ET	P
8-Jul-19	NEL	3	27.530	SUMMER	32166	3RS ET	P
8-Jul-19	NEL	4	3.400	SUMMER	32166	3RS ET	P
8-Jul-19	NEL	2	2.960	SUMMER	32166	3RS ET	S
8-Jul-19	NEL	3	7.500	SUMMER	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
9-Jul-19	DB	4	7.100	SUMMER	32166	3RS ET	P
9-Jul-19	DB	5	2.640	SUMMER	32166	3RS ET	P
9-Jul-19	DB	4	4.560	SUMMER	32166	3RS ET	S
9-Jul-19	NEL	2	4.100	SUMMER	32166	3RS ET	P
9-Jul-19	NEL	3	26.300	SUMMER	32166	3RS ET	P
9-Jul-19	NEL	4	6.700	SUMMER	32166	3RS ET	P
9-Jul-19	NEL	2	2.000	SUMMER	32166	3RS ET	S
9-Jul-19	NEL	3	7.500	SUMMER	32166	3RS ET	S
9-Jul-19	NEL	4	0.900	SUMMER	32166	3RS ET	S
16-Jul-19	AW	1	4.980	SUMMER	32166	3RS ET	P
16-Jul-19	WL	1	5.410	SUMMER	32166	3RS ET	P
16-Jul-19	WL	2	5.206	SUMMER	32166	3RS ET	P
16-Jul-19	WL	3	7.009	SUMMER	32166	3RS ET	P
16-Jul-19	WL	4	1.137	SUMMER	32166	3RS ET	P
16-Jul-19	WL	1	1.570	SUMMER	32166	3RS ET	S
16-Jul-19	WL	2	2.237	SUMMER	32166	3RS ET	S
16-Jul-19	WL	3	4.340	SUMMER	32166	3RS ET	S
16-Jul-19	WL	4	0.223	SUMMER	32166	3RS ET	S
17-Jul-19	SWL	2	39.559	SUMMER	32166	3RS ET	P
17-Jul-19	SWL	3	11.290	SUMMER	32166	3RS ET	P
17-Jul-19	SWL	1	0.930	SUMMER	32166	3RS ET	S
17-Jul-19	SWL	2	10.694	SUMMER	32166	3RS ET	S
17-Jul-19	SWL	3	4.140	SUMMER	32166	3RS ET	S
18-Jul-19	SWL	1	1.882	SUMMER	32166	3RS ET	P
18-Jul-19	SWL	2	40.279	SUMMER	32166	3RS ET	P
18-Jul-19	SWL	3	13.740	SUMMER	32166	3RS ET	P
18-Jul-19	SWL	1	0.398	SUMMER	32166	3RS ET	S
18-Jul-19	SWL	2	10.003	SUMMER	32166	3RS ET	S
18-Jul-19	SWL	3	3.490	SUMMER	32166	3RS ET	S
22-Jul-19	NWL	1	8.700	SUMMER	32166	3RS ET	P
22-Jul-19	NWL	2	53.140	SUMMER	32166	3RS ET	P
22-Jul-19	NWL	3	0.800	SUMMER	32166	3RS ET	P
22-Jul-19	NWL	1	1.100	SUMMER	32166	3RS ET	S
22-Jul-19	NWL	2	9.860	SUMMER	32166	3RS ET	S
23-Jul-19	AW	2	4.840	SUMMER	32166	3RS ET	P
23-Jul-19	WL	2	14.693	SUMMER	32166	3RS ET	P
23-Jul-19	WL	3	3.892	SUMMER	32166	3RS ET	P
23-Jul-19	WL	2	5.815	SUMMER	32166	3RS ET	S
23-Jul-19	WL	3	3.119	SUMMER	32166	3RS ET	S
24-Jul-19	NWL	2	38.660	SUMMER	32166	3RS ET	P
24-Jul-19	NWL	3	23.760	SUMMER	32166	3RS ET	P
24-Jul-19	NWL	2	6.300	SUMMER	32166	3RS ET	S
24-Jul-19	NWL	3	5.780	SUMMER	32166	3RS ET	S
7-Aug-19	SWL	2	24.140	SUMMER	32166	3RS ET	P
7-Aug-19	SWL	3	29.880	SUMMER	32166	3RS ET	P
7-Aug-19	SWL	2	6.300	SUMMER	32166	3RS ET	S
7-Aug-19	SWL	3	9.480	SUMMER	32166	3RS ET	S
8-Aug-19	AW	2	4.820	SUMMER	32166	3RS ET	P
8-Aug-19	WL	2	17.412	SUMMER	32166	3RS ET	P

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
8-Aug-19	WL	3	1.230	SUMMER	32166	3RS ET	P
8-Aug-19	WL	2	6.241	SUMMER	32166	3RS ET	S
8-Aug-19	WL	3	1.330	SUMMER	32166	3RS ET	S
12-Aug-19	NWL	2	3.080	SUMMER	32166	3RS ET	P
12-Aug-19	NWL	3	49.260	SUMMER	32166	3RS ET	P
12-Aug-19	NWL	4	9.700	SUMMER	32166	3RS ET	P
12-Aug-19	NWL	2	1.240	SUMMER	32166	3RS ET	S
12-Aug-19	NWL	3	9.320	SUMMER	32166	3RS ET	S
12-Aug-19	NWL	4	1.400	SUMMER	32166	3RS ET	S
13-Aug-19	DB	2	3.100	SUMMER	32166	3RS ET	P
13-Aug-19	DB	3	6.500	SUMMER	32166	3RS ET	P
13-Aug-19	DB	2	3.130	SUMMER	32166	3RS ET	S
13-Aug-19	DB	3	1.670	SUMMER	32166	3RS ET	S
13-Aug-19	NEL	2	32.600	SUMMER	32166	3RS ET	P
13-Aug-19	NEL	3	4.800	SUMMER	32166	3RS ET	P
13-Aug-19	NEL	2	7.900	SUMMER	32166	3RS ET	S
13-Aug-19	NEL	3	2.300	SUMMER	32166	3RS ET	S
16-Aug-19	NEL	2	18.650	SUMMER	32166	3RS ET	P
16-Aug-19	NEL	3	18.620	SUMMER	32166	3RS ET	P
16-Aug-19	NEL	2	8.230	SUMMER	32166	3RS ET	S
16-Aug-19	NEL	3	2.000	SUMMER	32166	3RS ET	S
16-Aug-19	DB	3	0.900	SUMMER	32166	3RS ET	P
16-Aug-19	DB	4	8.520	SUMMER	32166	3RS ET	P
16-Aug-19	DB	3	1.400	SUMMER	32166	3RS ET	S
16-Aug-19	DB	4	3.480	SUMMER	32166	3RS ET	S
21-Aug-19	AW	2	1.850	SUMMER	32166	3RS ET	P
21-Aug-19	AW	3	2.850	SUMMER	32166	3RS ET	P
21-Aug-19	WL	2	19.158	SUMMER	32166	3RS ET	P
21-Aug-19	WL	3	1.440	SUMMER	32166	3RS ET	P
21-Aug-19	WL	2	10.752	SUMMER	32166	3RS ET	S
22-Aug-19	SWL	2	54.700	SUMMER	32166	3RS ET	P
22-Aug-19	SWL	2	16.000	SUMMER	32166	3RS ET	S
26-Aug-19	NWL	2	14.600	SUMMER	32166	3RS ET	P
26-Aug-19	NWL	3	38.000	SUMMER	32166	3RS ET	P
26-Aug-19	NWL	4	10.340	SUMMER	32166	3RS ET	P
26-Aug-19	NWL	2	2.000	SUMMER	32166	3RS ET	S
26-Aug-19	NWL	3	10.060	SUMMER	32166	3RS ET	S
9-Sep-19	SWL	2	41.156	AUTUMN	32166	3RS ET	P
9-Sep-19	SWL	3	10.484	AUTUMN	32166	3RS ET	P
9-Sep-19	SWL	2	13.766	AUTUMN	32166	3RS ET	S
9-Sep-19	SWL	3	2.924	AUTUMN	32166	3RS ET	S
11-Sep-19	NWL	2	48.170	AUTUMN	32166	3RS ET	P
11-Sep-19	NWL	3	15.330	AUTUMN	32166	3RS ET	P
11-Sep-19	NWL	2	11.300	AUTUMN	32166	3RS ET	S
11-Sep-19	NWL	3	1.200	AUTUMN	32166	3RS ET	S
12-Sep-19	AW	2	4.730	AUTUMN	32166	3RS ET	P
12-Sep-19	WL	2	14.440	AUTUMN	32166	3RS ET	P
12-Sep-19	WL	3	4.590	AUTUMN	32166	3RS ET	P
12-Sep-19	WL	2	6.600	AUTUMN	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
12-Sep-19	WL	3	2.360	AUTUMN	32166	3RS ET	S
16-Sep-19	SWL	2	30.230	AUTUMN	32166	3RS ET	P
16-Sep-19	SWL	3	4.000	AUTUMN	32166	3RS ET	P
16-Sep-19	SWL	4	19.940	AUTUMN	32166	3RS ET	P
16-Sep-19	SWL	5	1.340	AUTUMN	32166	3RS ET	P
16-Sep-19	SWL	2	10.170	AUTUMN	32166	3RS ET	S
16-Sep-19	SWL	3	1.300	AUTUMN	32166	3RS ET	S
16-Sep-19	SWL	4	4.020	AUTUMN	32166	3RS ET	S
17-Sep-19	DB	2	9.740	AUTUMN	32166	3RS ET	P
17-Sep-19	DB	3	4.460	AUTUMN	32166	3RS ET	S
17-Sep-19	NEL	2	24.290	AUTUMN	32166	3RS ET	P
17-Sep-19	NEL	3	12.650	AUTUMN	32166	3RS ET	P
17-Sep-19	NEL	2	10.660	AUTUMN	32166	3RS ET	S
18-Sep-19	NEL	1	3.200	AUTUMN	32166	3RS ET	P
18-Sep-19	NEL	2	33.030	AUTUMN	32166	3RS ET	P
18-Sep-19	NEL	3	1.410	AUTUMN	32166	3RS ET	P
18-Sep-19	NEL	1	0.800	AUTUMN	32166	3RS ET	S
18-Sep-19	NEL	2	6.150	AUTUMN	32166	3RS ET	S
18-Sep-19	NEL	3	2.810	AUTUMN	32166	3RS ET	S
18-Sep-19	DB	2	9.470	AUTUMN	32166	3RS ET	P
18-Sep-19	DB	2	4.730	AUTUMN	32166	3RS ET	S
23-Sep-19	NWL	2	24.000	AUTUMN	32166	3RS ET	P
23-Sep-19	NWL	3	37.600	AUTUMN	32166	3RS ET	P
23-Sep-19	NWL	2	9.400	AUTUMN	32166	3RS ET	S
23-Sep-19	NWL	3	4.500	AUTUMN	32166	3RS ET	S
25-Sep-19	AW	2	4.870	AUTUMN	32166	3RS ET	P
25-Sep-19	WL	2	18.147	AUTUMN	32166	3RS ET	P
25-Sep-19	WL	2	9.262	AUTUMN	32166	3RS ET	S
2-Oct-19	SWL	2	21.630	AUTUMN	32166	3RS ET	P
2-Oct-19	SWL	3	32.292	AUTUMN	32166	3RS ET	P
2-Oct-19	SWL	2	4.878	AUTUMN	32166	3RS ET	S
2-Oct-19	SWL	3	11.810	AUTUMN	32166	3RS ET	S
3-Oct-19	AW	2	3.470	AUTUMN	32166	3RS ET	P
3-Oct-19	WL	2	17.515	AUTUMN	32166	3RS ET	P
3-Oct-19	WL	2	9.401	AUTUMN	32166	3RS ET	S
4-Oct-19	SWL	2	49.551	AUTUMN	32166	3RS ET	P
4-Oct-19	SWL	3	2.100	AUTUMN	32166	3RS ET	P
4-Oct-19	SWL	2	16.128	AUTUMN	32166	3RS ET	S
4-Oct-19	SWL	3	1.100	AUTUMN	32166	3RS ET	S
10-Oct-19	NWL	2	40.510	AUTUMN	32166	3RS ET	P
10-Oct-19	NWL	3	21.930	AUTUMN	32166	3RS ET	P
10-Oct-19	NWL	2	10.970	AUTUMN	32166	3RS ET	S
10-Oct-19	NWL	3	0.900	AUTUMN	32166	3RS ET	S
11-Oct-19	AW	2	4.930	AUTUMN	32166	3RS ET	P
11-Oct-19	WL	2	19.410	AUTUMN	32166	3RS ET	P
11-Oct-19	WL	2	10.760	AUTUMN	32166	3RS ET	S
16-Oct-19	NEL	2	15.140	AUTUMN	32166	3RS ET	P
16-Oct-19	NEL	3	22.770	AUTUMN	32166	3RS ET	P
16-Oct-19	NEL	2	5.040	AUTUMN	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
16-Oct-19	NEL	3	5.350	AUTUMN	32166	3RS ET	S
16-Oct-19	DB	2	5.110	AUTUMN	32166	3RS ET	P
16-Oct-19	DB	3	4.900	AUTUMN	32166	3RS ET	P
16-Oct-19	DB	2	1.830	AUTUMN	32166	3RS ET	S
16-Oct-19	DB	3	2.460	AUTUMN	32166	3RS ET	S
17-Oct-19	DB	3	1.200	AUTUMN	32166	3RS ET	P
17-Oct-19	DB	4	8.520	AUTUMN	32166	3RS ET	P
17-Oct-19	DB	3	1.200	AUTUMN	32166	3RS ET	S
17-Oct-19	DB	4	3.180	AUTUMN	32166	3RS ET	S
17-Oct-19	NEL	2	37.340	AUTUMN	32166	3RS ET	P
17-Oct-19	NEL	2	10.060	AUTUMN	32166	3RS ET	S
22-Oct-19	NWL	2	41.400	AUTUMN	32166	3RS ET	P
22-Oct-19	NWL	3	21.600	AUTUMN	32166	3RS ET	P
22-Oct-19	NWL	2	8.700	AUTUMN	32166	3RS ET	S
22-Oct-19	NWL	3	3.300	AUTUMN	32166	3RS ET	S
7-Nov-19	NEL	2	5.760	AUTUMN	32166	3RS ET	P
7-Nov-19	NEL	3	27.790	AUTUMN	32166	3RS ET	P
7-Nov-19	NEL	4	3.700	AUTUMN	32166	3RS ET	P
7-Nov-19	NEL	2	2.990	AUTUMN	32166	3RS ET	S
7-Nov-19	NEL	3	7.460	AUTUMN	32166	3RS ET	S
7-Nov-19	DB	3	9.310	AUTUMN	32166	3RS ET	P
7-Nov-19	DB	3	4.690	AUTUMN	32166	3RS ET	S
8-Nov-19	DB	3	5.900	AUTUMN	32166	3RS ET	P
8-Nov-19	DB	4	2.900	AUTUMN	32166	3RS ET	P
8-Nov-19	DB	3	2.070	AUTUMN	32166	3RS ET	S
8-Nov-19	DB	4	2.530	AUTUMN	32166	3RS ET	S
8-Nov-19	NEL	2	11.100	AUTUMN	32166	3RS ET	P
8-Nov-19	NEL	3	25.840	AUTUMN	32166	3RS ET	P
8-Nov-19	NEL	2	6.500	AUTUMN	32166	3RS ET	S
8-Nov-19	NEL	3	4.160	AUTUMN	32166	3RS ET	S
11-Nov-19	NWL	2	56.549	AUTUMN	32166	3RS ET	P
11-Nov-19	NWL	3	2.200	AUTUMN	32166	3RS ET	P
11-Nov-19	NWL	4	2.900	AUTUMN	32166	3RS ET	P
11-Nov-19	NWL	2	11.051	AUTUMN	32166	3RS ET	S
11-Nov-19	NWL	4	0.900	AUTUMN	32166	3RS ET	S
12-Nov-19	AW	3	4.760	AUTUMN	32166	3RS ET	P
12-Nov-19	WL	2	3.570	AUTUMN	32166	3RS ET	P
12-Nov-19	WL	3	14.600	AUTUMN	32166	3RS ET	P
12-Nov-19	WL	4	2.600	AUTUMN	32166	3RS ET	P
12-Nov-19	WL	2	2.990	AUTUMN	32166	3RS ET	S
12-Nov-19	WL	3	5.730	AUTUMN	32166	3RS ET	S
12-Nov-19	WL	4	1.300	AUTUMN	32166	3RS ET	S
13-Nov-19	NWL	2	57.200	AUTUMN	32166	3RS ET	P
13-Nov-19	NWL	3	6.000	AUTUMN	32166	3RS ET	P
13-Nov-19	NWL	2	11.800	AUTUMN	32166	3RS ET	S
21-Nov-19	SWL	2	5.700	AUTUMN	32166	3RS ET	P
21-Nov-19	SWL	3	48.558	AUTUMN	32166	3RS ET	P
21-Nov-19	SWL	2	1.300	AUTUMN	32166	3RS ET	S
21-Nov-19	SWL	3	14.822	AUTUMN	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
22-Nov-19	AW	1	2.900	AUTUMN	32166	3RS ET	P
22-Nov-19	AW	2	2.070	AUTUMN	32166	3RS ET	P
22-Nov-19	WL	2	6.843	AUTUMN	32166	3RS ET	P
22-Nov-19	WL	3	12.828	AUTUMN	32166	3RS ET	P
22-Nov-19	WL	2	1.987	AUTUMN	32166	3RS ET	S
22-Nov-19	WL	3	7.842	AUTUMN	32166	3RS ET	S
29-Nov-19	SWL	2	22.710	AUTUMN	32166	3RS ET	P
29-Nov-19	SWL	3	28.090	AUTUMN	32166	3RS ET	P
29-Nov-19	SWL	4	3.600	AUTUMN	32166	3RS ET	P
29-Nov-19	SWL	2	9.890	AUTUMN	32166	3RS ET	S
29-Nov-19	SWL	3	6.210	AUTUMN	32166	3RS ET	S
9-Dec-19	AW	3	4.860	WINTER	32166	3RS ET	P
9-Dec-19	WL	3	21.298	WINTER	32166	3RS ET	P
9-Dec-19	WL	4	2.800	WINTER	32166	3RS ET	P
9-Dec-19	WL	3	9.102	WINTER	32166	3RS ET	S
9-Dec-19	WL	4	0.900	WINTER	32166	3RS ET	S
10-Dec-19	SWL	2	30.840	WINTER	32166	3RS ET	P
10-Dec-19	SWL	3	23.200	WINTER	32166	3RS ET	P
10-Dec-19	SWL	2	7.990	WINTER	32166	3RS ET	S
10-Dec-19	SWL	3	8.100	WINTER	32166	3RS ET	S
13-Dec-19	DB	3	5.730	WINTER	32166	3RS ET	P
13-Dec-19	DB	4	3.460	WINTER	32166	3RS ET	P
13-Dec-19	DB	3	3.010	WINTER	32166	3RS ET	S
13-Dec-19	DB	4	1.400	WINTER	32166	3RS ET	S
13-Dec-19	NEL	2	1.500	WINTER	32166	3RS ET	P
13-Dec-19	NEL	3	35.350	WINTER	32166	3RS ET	P
13-Dec-19	NEL	4	0.400	WINTER	32166	3RS ET	P
13-Dec-19	NEL	3	10.350	WINTER	32166	3RS ET	S
16-Dec-19	NWL	2	37.711	WINTER	32166	3RS ET	P
16-Dec-19	NWL	3	25.070	WINTER	32166	3RS ET	P
16-Dec-19	NWL	2	8.660	WINTER	32166	3RS ET	S
16-Dec-19	NWL	3	2.860	WINTER	32166	3RS ET	S
17-Dec-19	SWL	2	46.934	WINTER	32166	3RS ET	P
17-Dec-19	SWL	3	8.050	WINTER	32166	3RS ET	P
17-Dec-19	SWL	2	12.746	WINTER	32166	3RS ET	S
17-Dec-19	SWL	3	3.170	WINTER	32166	3RS ET	S
18-Dec-19	AW	1	4.530	WINTER	32166	3RS ET	P
18-Dec-19	WL	1	10.510	WINTER	32166	3RS ET	P
18-Dec-19	WL	2	6.930	WINTER	32166	3RS ET	P
18-Dec-19	WL	1	4.850	WINTER	32166	3RS ET	S
18-Dec-19	WL	2	4.940	WINTER	32166	3RS ET	S
19-Dec-19	DB	1	0.900	WINTER	32166	3RS ET	P
19-Dec-19	DB	2	5.950	WINTER	32166	3RS ET	P
19-Dec-19	DB	3	2.060	WINTER	32166	3RS ET	P
19-Dec-19	DB	1	2.020	WINTER	32166	3RS ET	S
19-Dec-19	DB	2	2.370	WINTER	32166	3RS ET	S
19-Dec-19	NEL	1	2.700	WINTER	32166	3RS ET	P
19-Dec-19	NEL	2	15.000	WINTER	32166	3RS ET	P
19-Dec-19	NEL	3	18.090	WINTER	32166	3RS ET	P

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
19-Dec-19	NEL	4	1.670	WINTER	32166	3RS ET	P
19-Dec-19	NEL	1	1.300	WINTER	32166	3RS ET	S
19-Dec-19	NEL	2	2.700	WINTER	32166	3RS ET	S
19-Dec-19	NEL	3	6.240	WINTER	32166	3RS ET	S
23-Dec-19	NWL	2	1.830	WINTER	32166	3RS ET	P
23-Dec-19	NWL	3	45.110	WINTER	32166	3RS ET	P
23-Dec-19	NWL	4	17.460	WINTER	32166	3RS ET	P
23-Dec-19	NWL	3	7.300	WINTER	32166	3RS ET	S
23-Dec-19	NWL	4	4.600	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
17-Jan-19	1	1055	CWD	2	NWL	3	8	ON	3RS ET	22.3081	113.8727	WINTER	NONE	S
21-Jan-19	1	1057	FP	3	SWL	3	20	ON	3RS ET	22.1425	113.9280	WINTER	NONE	S
21-Jan-19	2	1449	CWD	5	SWL	3	327	ON	3RS ET	22.1796	113.8591	WINTER	NONE	P
22-Jan-19	1	1036	FP	4	SWL	3	115	ON	3RS ET	22.1850	113.9360	WINTER	NONE	P
22-Jan-19	2	1100	FP	1	SWL	2	88	ON	3RS ET	22.1483	113.9341	WINTER	NONE	S
22-Jan-19	3	1230	FP	1	SWL	3	8	ON	3RS ET	22.1705	113.9084	WINTER	NONE	P
22-Jan-19	4	1519	CWD	8	SWL	4	105	ON	3RS ET	22.1928	113.8499	WINTER	NONE	P
24-Jan-19	1	0942	CWD	4	AW	1	87	ON	3RS ET	22.3014	113.8843	WINTER	NONE	P
24-Jan-19	2	1044	CWD	1	WL	1	110	ON	3RS ET	22.2778	113.8578	WINTER	NONE	P
24-Jan-19	3	1054	CWD	1	WL	1	161	ON	3RS ET	22.2778	113.8524	WINTER	NONE	P
24-Jan-19	4	1106	CWD	4	WL	1	325	ON	3RS ET	22.2691	113.8467	WINTER	NONE	P
24-Jan-19	5	1131	CWD	2	WL	1	91	ON	3RS ET	22.2617	113.8554	WINTER	NONE	S
24-Jan-19	6	1152	CWD	1	WL	2	97	ON	3RS ET	22.2505	113.8375	WINTER	NONE	P
28-Jan-19	1	1002	CWD	2	WL	2	24	ON	3RS ET	22.2359	113.8254	WINTER	NONE	S
28-Jan-19	2	1052	CWD	1	WL	2	336	ON	3RS ET	22.2145	113.8270	WINTER	NONE	P
11-Feb-19	1	1153	CWD	2	NWL	3	1	ON	3RS ET	22.4017	113.8877	WINTER	NONE	P
13-Feb-19	1	0941	CWD	6	AW	2	77	ON	3RS ET	22.2907	113.8745	WINTER	NONE	P
13-Feb-19	2	1042	CWD	2	WL	2	114	ON	3RS ET	22.2690	113.8480	WINTER	NONE	P
13-Feb-19	3	1203	CWD	1	WL	2	1	ON	3RS ET	22.2074	113.8406	WINTER	GILLNETTER	S
20-Feb-19	1	1033	FP	2	SWL	2	7	ON	3RS ET	22.2022	113.9362	WINTER	NONE	P
20-Feb-19	2	1511	CWD	1	SWL	2	127	ON	3RS ET	22.1862	113.8488	WINTER	NONE	P
21-Feb-19	1	1313	FP	2	SWL	2	3	ON	3RS ET	22.1482	113.8935	WINTER	NONE	S
26-Feb-19	1	1031	CWD	2	WL	3	64	ON	3RS ET	22.2603	113.8506	WINTER	NONE	P
6-Mar-19	1	1204	CWD	3	NWL	2	244	ON	3RS ET	22.3957	113.8876	SPRING	NONE	P
12-Mar-19	1	1014	CWD	1	WL	2	434	ON	3RS ET	22.2760	113.8506	SPRING	NONE	S
12-Mar-19	2	1026	CWD	5	WL	2	9	ON	3RS ET	22.2718	113.8455	SPRING	NONE	S
12-Mar-19	3	1051	CWD	11	WL	2	313	ON	3RS ET	22.2684	113.8518	SPRING	NONE	P
12-Mar-19	4	1137	CWD	1	WL	2	53	ON	3RS ET	22.2412	113.8370	SPRING	NONE	P
12-Mar-19	5	1216	CWD	4	WL	2	295	ON	3RS ET	22.2142	113.8286	SPRING	NONE	P
13-Mar-19	1	1032	CWD	2	NWL	2	76	ON	3RS ET	22.2866	113.8699	SPRING	NONE	P
21-Mar-19	1	1039	FP	6	SWL	1	230	ON	3RS ET	22.1842	113.9354	SPRING	NONE	P

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
21-Mar-19	2	1220	FP	3	SWL	2	103	ON	3RS ET	22.1539	113.9068	SPRING	NONE	P
22-Mar-19	1	1032	FP	3	SWL	2	81	ON	3RS ET	22.1998	113.9356	SPRING	NONE	P
22-Mar-19	2	1041	FP	5	SWL	2	103	ON	3RS ET	22.1822	113.9365	SPRING	NONE	P
22-Mar-19	3	1114	FP	9	SWL	2	296	ON	3RS ET	22.1637	113.9278	SPRING	NONE	P
22-Mar-19	4	1207	FP	2	SWL	2	2	ON	3RS ET	22.1482	113.9175	SPRING	NONE	P
22-Mar-19	5	1413	FP	1	SWL	2	199	ON	3RS ET	22.1820	113.8780	SPRING	NONE	P
22-Mar-19	6	1425	FP	1	SWL	2	45	ON	3RS ET	22.1766	113.8781	SPRING	NONE	P
22-Mar-19	7	1433	FP	2	SWL	2	70	ON	3RS ET	22.1626	113.8784	SPRING	NONE	P
22-Mar-19	8	1447	FP	4	SWL	2	85	ON	3RS ET	22.1710	113.8688	SPRING	NONE	P
25-Mar-19	1	1052	CWD	6	WL	2	206	ON	3RS ET	22.2504	113.8372	SPRING	NONE	P
3-Apr-19	1	1028	CWD	1	WL	2	355	ON	3RS ET	22.2658	113.8586	SPRING	NONE	S
3-Apr-19	2	1043	CWD	1	WL	2	202	ON	3RS ET	22.2603	113.8457	SPRING	NONE	P
3-Apr-19	3	1148	CWD	21	WL	3	728	ON	3RS ET	22.2187	113.8197	SPRING	PAIR TRAWLER	S
11-Apr-19	1	1041	FP	4	SWL	3	256	ON	3RS ET	22.1688	113.8569	SPRING	NONE	S
17-Apr-19	1	1043	CWD	3	WL	2	195	ON	3RS ET	22.2499	113.8366	SPRING	NONE	P
17-Apr-19	2	1059	CWD	1	WL	2	474	ON	3RS ET	22.2413	113.8370	SPRING	NONE	P
17-Apr-19	3	1114	CWD	2	WL	2	567	ON	3RS ET	22.2390	113.8271	SPRING	NONE	S
17-Apr-19	4	1127	CWD	4	WL	2	55	ON	3RS ET	22.2358	113.8250	SPRING	NONE	S
17-Apr-19	5	1143	CWD	3	WL	2	224	ON	3RS ET	22.2322	113.8308	SPRING	NONE	P
17-Apr-19	6	1200	CWD	4	WL	3	246	ON	3RS ET	22.2230	113.8306	SPRING	NONE	P
24-Apr-19	1	1038	CWD	1	NWL	3	33	ON	3RS ET	22.2711	113.8716	SPRING	NONE	S
25-Apr-19	1	0946	CWD	3	NWL	2	182	ON	3RS ET	22.3854	113.8697	SPRING	NONE	P
25-Apr-19	2	1000	CWD	2	NWL	2	319	ON	3RS ET	22.3797	113.8705	SPRING	NONE	P
25-Apr-19	3	1055	CWD	3	NWL	3	473	ON	3RS ET	22.2795	113.8699	SPRING	NONE	P
8-May-19	1	1120	CWD	12	WL	3	72	ON	3RS ET	22.2321	113.8295	SPRING	NONE	P
9-May-19	1	1325	CWD	2	DB	2	68	ON	3RS ET	22.4222	113.9131	SPRING	NONE	P
14-May-19	1	1038	CWD	2	WL	2	169	ON	3RS ET	22.2606	113.8545	SPRING	NONE	S
14-May-19	2	1102	CWD	7	WL	2	505	ON	3RS ET	22.2496	113.8407	SPRING	NONE	P
14-May-19	3	1229	CWD	4	WL	3	171	ON	3RS ET	22.2012	113.8245	SPRING	NONE	S
14-May-19	4	1249	CWD	8	WL	3	126	ON	3RS ET	22.1962	113.8363	SPRING	NONE	P
14-May-19	5	1318	CWD	2	WL	2	396	ON	3RS ET	22.1926	113.8423	SPRING	NONE	S
15-May-19	1	0955	CWD	2	NWL	2	305	ON	3RS ET	22.3681	113.8700	SPRING	NONE	P
15-May-19	2	1054	CWD	1	NWL	3	1539	ON	3RS ET	22.2727	113.8701	SPRING	NONE	P

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
15-May-19	3	1348	CWD	4	NWL	2	6	ON	3RS ET	22.4008	113.8978	SPRING	NONE	P
27-May-19	1	1210	FP	2	SWL	2	171	ON	3RS ET	22.1536	113.9084	SPRING	NONE	P
27-May-19	2	1316	FP	1	SWL	2	4	ON	3RS ET	22.1584	113.8976	SPRING	NONE	P
27-May-19	3	1443	CWD	4	SWL	2	15	ON	3RS ET	22.1987	113.8692	SPRING	NONE	P
6-Jun-19	1	1052	CWD	3	WL	3	325	ON	3RS ET	22.2518	113.8337	SUMMER	NONE	S
6-Jun-19	2	1123	CWD	6	WL	2	214	ON	3RS ET	22.2445	113.8496	SUMMER	NONE	S
6-Jun-19	3	1221	CWD	2	WL	2	82	ON	3RS ET	22.2144	113.8319	SUMMER	NONE	P
18-Jun-19	1	1134	CWD	1	SWL	2	22	ON	3RS ET	22.2055	113.9224	SUMMER	NONE	S
18-Jun-19	2	1406	CWD	3	SWL	2	89	ON	3RS ET	22.2096	113.8827	SUMMER	NONE	S
18-Jun-19	3	1505	CWD	4	SWL	2	348	ON	3RS ET	22.1764	113.8690	SUMMER	NONE	P
18-Jun-19	4	1603	CWD	1	SWL	2	70	ON	3RS ET	22.1866	113.8494	SUMMER	NONE	P
18-Jun-19	5	1609	CWD	4	SWL	2	225	ON	3RS ET	22.1892	113.8496	SUMMER	PURSE SEINER	P
19-Jun-19	1	1131	CWD	5	NWL	2	70	ON	3RS ET	22.3867	113.8780	SUMMER	NONE	P
19-Jun-19	2	1323	CWD	1	NWL	3	119	ON	3RS ET	22.3999	113.8974	SUMMER	NONE	P
26-Jun-19	1	1052	CWD	7	WL	2	117	ON	3RS ET	22.2231	113.8350	SUMMER	NONE	P
26-Jun-19	2	1211	CWD	3	WL	3	664	ON	3RS ET	22.2054	113.8309	SUMMER	NONE	P
16-Jul-19	1	1034	CWD	5	WL	1	134	ON	3RS ET	22.2665	113.8595	SUMMER	NONE	S
16-Jul-19	2	1123	CWD	1	WL	3	40	ON	3RS ET	22.2411	113.8416	SUMMER	NONE	P
16-Jul-19	3	1133	CWD	2	WL	3	73	ON	3RS ET	22.2412	113.8312	SUMMER	NONE	P
16-Jul-19	4	1159	CWD	5	WL	2	54	ON	3RS ET	22.2277	113.8378	SUMMER	NONE	S
16-Jul-19	5	1229	CWD	11	WL	3	473	ON	3RS ET	22.2137	113.8294	SUMMER	NONE	P
16-Jul-19	6	1313	CWD	3	WL	3	114	ON	3RS ET	22.1953	113.8420	SUMMER	NONE	P
17-Jul-19	1	1123	CWD	1	SWL	2	565	ON	3RS ET	22.1952	113.9279	SUMMER	NONE	P
17-Jul-19	2	1148	CWD	6	SWL	2	41	ON	3RS ET	22.2008	113.9183	SUMMER	NONE	P
17-Jul-19	3	1244	CWD	4	SWL	2	289	ON	3RS ET	22.1714	113.9086	SUMMER	NONE	P
17-Jul-19	4	1258	CWD	10	SWL	2	24	ON	3RS ET	22.1751	113.9078	SUMMER	NONE	P
17-Jul-19	5	1326	CWD	4	SWL	2	371	ON	3RS ET	22.1927	113.9082	SUMMER	NONE	S
17-Jul-19	6	1339	CWD	3	SWL	2	143	ON	3RS ET	22.1977	113.9078	SUMMER	NONE	P
17-Jul-19	7	1355	CWD	1	SWL	2	35	ON	3RS ET	22.2089	113.8973	SUMMER	NONE	P
17-Jul-19	8	1446	CWD	5	SWL	2	88	ON	3RS ET	22.1830	113.8885	SUMMER	NONE	P
17-Jul-19	9	1519	CWD	2	SWL	3	23	ON	3RS ET	22.1913	113.8780	SUMMER	NONE	P
17-Jul-19	10	1552	CWD	6	SWL	3	97	ON	3RS ET	22.1784	113.8689	SUMMER	NONE	P
17-Jul-19	11	1645	CWD	3	SWL	3	233	ON	3RS ET	22.1922	113.8494	SUMMER	NONE	P

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
18-Jul-19	1	1220	CWD	8	SWL	2	435	ON	3RS ET	22.1798	113.9042	SUMMER	NONE	S
18-Jul-19	2	1238	CWD	3	SWL	2	16	ON	3RS ET	22.1894	113.9066	SUMMER	NONE	S
18-Jul-19	3	1315	CWD	11	SWL	2	24	ON	3RS ET	22.1780	113.8975	SUMMER	NONE	P
18-Jul-19	4	1409	CWD	9	SWL	2	403	ON	3RS ET	22.2013	113.8871	SUMMER	NONE	P
18-Jul-19	5	1514	CWD	2	SWL	2	31	ON	3RS ET	22.1785	113.8690	SUMMER	NONE	P
18-Jul-19	6	1527	CWD	2	SWL	2	68	ON	3RS ET	22.1850	113.8690	SUMMER	NONE	P
18-Jul-19	7	1542	CWD	1	SWL	2	462	ON	3RS ET	22.1978	113.8685	SUMMER	NONE	P
22-Jul-19	1	1035	CWD	1	NWL	2	131	ON	3RS ET	22.2771	113.8704	SUMMER	NONE	P
23-Jul-19	1	1031	CWD	7	WL	2	142	ON	3RS ET	22.2606	113.8539	SUMMER	NONE	P
23-Jul-19	2	1111	CWD	1	WL	2	85	ON	3RS ET	22.2447	113.8497	SUMMER	NONE	S
23-Jul-19	3	1126	CWD	4	WL	2	77	ON	3RS ET	22.2418	113.8423	SUMMER	NONE	P
23-Jul-19	4	1153	CWD	3	WL	2	1245	ON	3RS ET	22.2357	113.8252	SUMMER	NONE	S
23-Jul-19	5	1203	CWD	3	WL	2	107	ON	3RS ET	22.2325	113.8330	SUMMER	NONE	P
23-Jul-19	6	1230	CWD	3	WL	3	20	ON	3RS ET	22.2145	113.8282	SUMMER	NONE	P
23-Jul-19	7	1305	CWD	5	WL	2	123	ON	3RS ET	22.1962	113.8392	SUMMER	NONE	P
24-Jul-19	1	1129	CWD	2	NWL	2	217	ON	3RS ET	22.3800	113.8764	SUMMER	NONE	P
7-Aug-19	1	1500	CWD	2	SWL	2	511	ON	3RS ET	22.1883	113.8491	SUMMER	NONE	P
8-Aug-19	1	1029	CWD	10	WL	2	78	ON	3RS ET	22.2668	113.8594	SUMMER	NONE	S
8-Aug-19	2	1052	CWD	5	WL	2	272	ON	3RS ET	22.2600	113.8430	SUMMER	NONE	P
8-Aug-19	3	1120	CWD	1	WL	2	611	ON	3RS ET	22.2434	113.8488	SUMMER	NONE	S
8-Aug-19	4	1127	CWD	8	WL	2	836	ON	3RS ET	22.2415	113.8435	SUMMER	NONE	P
8-Aug-19	5	1211	CWD	2	WL	2	48	ON	3RS ET	22.2290	113.8379	SUMMER	NONE	S
8-Aug-19	6	1230	CWD	5	WL	2	413	ON	3RS ET	22.2136	113.8254	SUMMER	NONE	P
8-Aug-19	7	1250	CWD	6	WL	2	140	ON	3RS ET	22.2143	113.8344	SUMMER	NONE	P
8-Aug-19	8	1328	CWD	1	WL	2	333	ON	3RS ET	22.1890	113.8422	SUMMER	NONE	S
12-Aug-19	1	1051	CWD	1	NWL	3	472	ON	3RS ET	22.2794	113.8696	SUMMER	NONE	P
21-Aug-19	1	1039	CWD	3	WL	2	126	ON	3RS ET	22.2604	113.8523	SUMMER	NONE	P
21-Aug-19	2	1137	CWD	10	WL	2	501	ON	3RS ET	22.2340	113.8244	SUMMER	NONE	P
21-Aug-19	3	1203	CWD	5	WL	2	186	ON	3RS ET	22.2231	113.8360	SUMMER	NONE	P
21-Aug-19	4	1231	CWD	1	WL	2	21	ON	3RS ET	22.2144	113.8344	SUMMER	NONE	P
21-Aug-19	5	1251	CWD	7	WL	2	13	ON	3RS ET	22.2145	113.8355	SUMMER	NONE	P
21-Aug-19	6	1310	CWD	2	WL	2	162	ON	3RS ET	22.2057	113.8251	SUMMER	NONE	P
22-Aug-19	1	1106	FP	2	SWL	2	119	ON	3RS ET	22.1563	113.9277	SUMMER	NONE	P

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
22-Aug-19	2	1511	CWD	2	SWL	2	94	ON	3RS ET	22.1942	113.8492	SUMMER	NONE	P
9-Sep-19	1	1029	CWD	1	SWL	2	173	ON	3RS ET	22.2110	113.9357	AUTUMN	NONE	P
9-Sep-19	2	1146	CWD	1	SWL	2	426	ON	3RS ET	22.2020	113.9177	AUTUMN	NONE	P
9-Sep-19	3	1240	FP	7	SWL	2	2	ON	3RS ET	22.1551	113.9078	AUTUMN	NONE	P
9-Sep-19	4	1312	CWD	1	SWL	2	41	ON	3RS ET	22.2041	113.9078	AUTUMN	NONE	P
9-Sep-19	5	1332	CWD	2	SWL	2	851	ON	3RS ET	22.1974	113.8974	AUTUMN	NONE	P
9-Sep-19	6	1351	CWD	7	SWL	2	1298	ON	3RS ET	22.1819	113.8970	AUTUMN	NONE	P
12-Sep-19	1	1035	CWD	4	WL	2	253	ON	3RS ET	22.2648	113.8579	AUTUMN	NONE	S
12-Sep-19	2	1057	CWD	8	WL	2	687	ON	3RS ET	22.2569	113.8366	AUTUMN	NONE	S
12-Sep-19	3	1137	CWD	9	WL	2	656	ON	3RS ET	22.2315	113.8305	AUTUMN	NONE	P
12-Sep-19	4	1208	CWD	2	WL	2	163	ON	3RS ET	22.2240	113.8372	AUTUMN	NONE	S
12-Sep-19	5	1240	CWD	3	WL	2	92	ON	3RS ET	22.2139	113.8239	AUTUMN	NONE	P
16-Sep-19	1	1422	FP	1	SWL	5	14	ON	3RS ET	22.1717	113.9268	AUTUMN	NONE	P
25-Sep-19	1	1019	CWD	1	WL	2	167	ON	3RS ET	22.2785	113.8611	AUTUMN	NONE	P
25-Sep-19	2	1037	CWD	6	WL	2	698	ON	3RS ET	22.2776	113.8569	AUTUMN	NONE	P
25-Sep-19	3	1110	CWD	1	WL	2	163	ON	3RS ET	22.2601	113.8477	AUTUMN	NONE	P
25-Sep-19	4	1129	CWD	1	WL	2	2	ON	3RS ET	22.2516	113.8334	AUTUMN	NONE	S
25-Sep-19	5	1207	CWD	2	WL	2	353	ON	3RS ET	22.2315	113.8387	AUTUMN	NONE	P
25-Sep-19	6	1234	CWD	1	WL	2	486	ON	3RS ET	22.2134	113.8238	AUTUMN	NONE	P
25-Sep-19	7	1259	CWD	2	WL	2	24	ON	3RS ET	22.2051	113.8319	AUTUMN	NONE	P
25-Sep-19	8	1320	CWD	6	WL	2	166	ON	3RS ET	22.1962	113.8356	AUTUMN	NONE	P
25-Sep-19	9	1329	CWD	17	WL	2	390	ON	3RS ET	22.1951	113.8424	AUTUMN	NONE	S
2-Oct-19	1	1101	FP	2	SWL	3	1	ON	3RS ET	22.1476	113.9274	AUTUMN	NONE	P
2-Oct-19	2	1114	FP	1	SWL	3	25	ON	3RS ET	22.1706	113.9277	AUTUMN	NONE	P
2-Oct-19	3	1131	CWD	1	SWL	2	36	ON	3RS ET	22.2055	113.9269	AUTUMN	NONE	P
3-Oct-19	1	0937	CWD	7	AW	2	165	ON	3RS ET	22.2983	113.8853	AUTUMN	NONE	P
3-Oct-19	2	1026	CWD	4	WL	2	485	ON	3RS ET	22.2924	113.8612	AUTUMN	NONE	P
3-Oct-19	3	1110	CWD	2	WL	2	155	ON	3RS ET	22.2605	113.8479	AUTUMN	NONE	P
3-Oct-19	4	1122	CWD	1	WL	2	127	ON	3RS ET	22.2603	113.8411	AUTUMN	NONE	P
3-Oct-19	5	1146	CWD	3	WL	2	181	ON	3RS ET	22.2416	113.8434	AUTUMN	NONE	P
3-Oct-19	6	1157	CWD	4	WL	2	207	ON	3RS ET	22.2416	113.8344	AUTUMN	NONE	P
3-Oct-19	7	1220	CWD	7	WL	2	382	ON	3RS ET	22.2282	113.8378	AUTUMN	NONE	S
3-Oct-19	8	1308	CWD	14	WL	2	265	ON	3RS ET	22.1960	113.8365	AUTUMN	NONE	P

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
4-Oct-19	1	1103	FP	16	SWL	2	112	ON	3RS ET	22.1428	113.9283	AUTUMN	NONE	S
4-Oct-19	2	1154	FP	2	SWL	2	114	ON	3RS ET	22.1899	113.9181	AUTUMN	NONE	P
4-Oct-19	3	1233	FP	3	SWL	2	65	ON	3RS ET	22.1542	113.9067	AUTUMN	NONE	S
4-Oct-19	4	1242	FP	2	SWL	2	19	ON	3RS ET	22.1568	113.8996	AUTUMN	NONE	S
4-Oct-19	5	1321	CWD	1	SWL	2	296	ON	3RS ET	22.2063	113.8972	AUTUMN	NONE	P
4-Oct-19	6	1356	FP	2	SWL	2	270	ON	3RS ET	22.1486	113.8921	AUTUMN	NONE	S
4-Oct-19	7	1411	FP	1	SWL	2	223	ON	3RS ET	22.1727	113.8882	AUTUMN	NONE	P
10-Oct-19	1	1047	CWD	2	NWL	3	16	ON	3RS ET	22.2709	113.8702	AUTUMN	NONE	P
10-Oct-19	2	1107	CWD	1	NWL	2	100	ON	3RS ET	22.2970	113.8779	AUTUMN	NONE	P
10-Oct-19	3	1205	CWD	4	NWL	2	112	ON	3RS ET	22.3769	113.8775	AUTUMN	NONE	P
11-Oct-19	1	1050	CWD	2	WL	2	214	ON	3RS ET	22.2503	113.8411	AUTUMN	NONE	P
11-Oct-19	2	1114	CWD	1	WL	2	26	ON	3RS ET	22.2414	113.8408	AUTUMN	NONE	P
11-Nov-19	1	1051	CWD	3	NWL	2	142	ON	3RS ET	22.2844	113.8702	AUTUMN	NONE	P
11-Nov-19	2	1155	CWD	1	NWL	2	112	ON	3RS ET	22.3605	113.8777	AUTUMN	NONE	P
11-Nov-19	3	1339	CWD	2	NWL	2	55	ON	3RS ET	22.3884	113.8980	AUTUMN	NONE	P
12-Nov-19	1	1039	CWD	3	WL	3	20	ON	3RS ET	22.2617	113.8548	AUTUMN	NONE	S
21-Nov-19	1	1113	FP	1	SWL	3	55	ON	3RS ET	22.1514	113.9361	AUTUMN	NONE	P
21-Nov-19	2	1151	CWD	1	SWL	3	23	ON	3RS ET	22.2056	113.9194	AUTUMN	NONE	S
21-Nov-19	3	1223	FP	1	SWL	3	151	ON	3RS ET	22.1518	113.9175	AUTUMN	NONE	P
21-Nov-19	4	1503	CWD	4	SWL	3	50	ON	3RS ET	22.1965	113.8686	AUTUMN	NONE	P
22-Nov-19	1	1020	CWD	1	WL	2	39	ON	3RS ET	22.2694	113.8571	AUTUMN	NONE	P
22-Nov-19	2	1100	CWD	4	WL	3	484	ON	3RS ET	22.2498	113.8460	AUTUMN	NONE	P
22-Nov-19	3	1127	CWD	1	WL	3	988	ON	3RS ET	22.2446	113.8493	AUTUMN	NONE	S
22-Nov-19	4	1145	CWD	3	WL	3	175	ON	3RS ET	22.2377	113.8275	AUTUMN	NONE	S
22-Nov-19	5	1216	CWD	1	WL	3	112	ON	3RS ET	22.2258	113.8375	AUTUMN	NONE	S
22-Nov-19	6	1329	CWD	2	SWL	2	N/A	OFF	3RS ET	22.1948	113.8524	AUTUMN	NONE	N/A
29-Nov-19	1	1321	FP	3	SWL	3	294	ON	3RS ET	22.1638	113.8972	AUTUMN	NONE	P
9-Dec-19	1	1101	CWD	2	WL	3	438	ON	3RS ET	22.2569	113.8371	WINTER	NONE	S
10-Dec-19	1	1114	FP	2	SWL	3	76	ON	3RS ET	22.1592	113.9281	WINTER	NONE	P
10-Dec-19	2	1450	CWD	1	SWL	2	216	ON	3RS ET	22.1958	113.8589	WINTER	GILLNETTER	P
10-Dec-19	3	1526	CWD	3	SWL	2	182	ON	3RS ET	22.1885	113.8492	WINTER	NONE	P
16-Dec-19	1	1033	CWD	1	NWL	3	107	ON	3RS ET	22.3041	113.8700	WINTER	NONE	P
16-Dec-19	2	1213	CWD	2	NWL	2	219	ON	3RS ET	22.3934	113.8876	WINTER	NONE	P

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
16-Dec-19	3	1227	CWD	3	NWL	2	301	ON	3RS ET	22.3882	113.8871	WINTER	NONE	P
17-Dec-19	1	1132	FP	1	SWL	2	187	ON	3RS ET	22.1704	113.8785	WINTER	NONE	P
17-Dec-19	2	1336	FP	2	SWL	2	199	ON	3RS ET	22.1451	113.9083	WINTER	NONE	P
17-Dec-19	3	1435	FP	2	SWL	2	472	ON	3RS ET	22.1677	113.9269	WINTER	NONE	P
18-Dec-19	1	0954	CWD	2	WL	1	4	ON	3RS ET	22.3045	113.8613	WINTER	NONE	P
18-Dec-19	2	1036	CWD	5	WL	2	107	ON	3RS ET	22.2605	113.8468	WINTER	NONE	P
18-Dec-19	3	1104	CWD	8	WL	1	18	ON	3RS ET	22.2538	113.8347	WINTER	NONE	S
18-Dec-19	4	1153	CWD	1	WL	2	40	ON	3RS ET	22.2232	113.8349	WINTER	NONE	P
18-Dec-19	5	1212	CWD	2	WL	2	5	ON	3RS ET	22.2182	113.8196	WINTER	NONE	S

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

CWD Land-based Theodolite Tracking

CWD Groups by Survey Date

Date	Station	Start Time	End Time	Duration	Beaufort Range	Visibility Range	No. of Focal Follow Dolphin Groups Tracked	Group Size Range
8/Jan/19	Lung Kwu Chau	9:13	15:13	6:00	3	4	1	2
11/Jan/19	Lung Kwu Chau	8:53	14:53	6:00	2-3	4	2	1
23/Jan/19	Sha Chau	9:02	15:02	6:00	2-3	3	0	N/A
14/Feb/19	Lung Kwu Chau	8:38	14:38	6:00	2-3	3	3	2-4
22/Feb/19	Sha Chau	9:10	15:10	6:00	2-3	3	0	N/A
27/Feb/19	Lung Kwu Chau	8:52	14:52	6:00	3-4	2	1	1
11/Mar/19	Lung Kwu Chau	8:59	14:59	6:00	2-3	3	1	1
19/Mar/19	Sha Chau	8:45	14:45	6:00	2	3-4	0	N/A
20/Mar/19	Lung Kwu Chau	8:48	14:52	6:04	2-3	3	2	2
4/Apr/19	Lung Kwu Chau	8:50	14:50	6:00	2-3	3	1	1
10/Apr/19	Lung Kwu Chau	8:53	14:53	6:00	2	2	0	N/A
24/Apr/19	Sha Chau	9:04	15:04	6:00	2	2	0	-
3/May/19	Sha Chau	8:37	14:37	6:00	2-3	2-3	0	N/A
30/May/19	Lung Kwu Chau	8:45	14:45	6:00	3	3	0	N/A

Date	Station	Start Time	End Time	Duration	Beaufort Range	Visibility Range	No. of Focal Follow Dolphin Groups Tracked	Group Size Range
31/May/19	Lung Kwu Chau	8:43	14:43	6:00	2	2-4	1	6
5/Jun/19	Lung Kwu Chau	8:51	14:51	6:00	2	2	3	2-3
18/Jun/19	Sha Chau	9:30	15:30	6:00	2	2	0	N/A
21/Jun/19	Lung Kwu Chau	8:55	14:55	6:00	2-3	2	0	N/A
16/Jul/19	Lung Kwu Chau	8:45	14:45	6:00	2	1-2	1	1
25/Jul/19	Lung Kwu Chau	8:50	14:50	6:00	2-3	1	2	2
26/Jul/19	Sha Chau	8:45	14:45	6:00	2-3	1	0	N/A
15/Aug/19	Lung Kwu Chau	8:55	14:55	6:00	2-3	1-2	2	1-3
22/Aug/19	Lung Kwu Chau	8:50	14:50	6:00	2	2	3	1
27/Aug/19	Sha Chau	9:10	15:10	6:00	2-3	1-2	0	N/A
9/Sep/19	Lung Kwu Chau	8:45	14:45	6:00	2-3	2-3	1	1
16/Sep/19	Lung Kwu Chau	8:54	14:54	6:00	2-3	3	4	1-2
20/Sep/19	Sha Chau	8:53	14:53	6:00	2	2	0	N/A
11/Oct/19	Lung Kwu Chau	9:21	15:21	6:00	2-3	3	1	1
21/Oct/19	Lung Kwu Chau	8:45	14:45	6:00	2	2-3	4	1-2
22/Oct/19	Sha Chau	8:40	14:40	6:00	2	2	0	N/A
12/Nov/19	Lung Kwu Chau	10:08	16:08	6:00	2-3	2-3	2	2-5
21/Nov/19	Lung Kwu Chau	8:56	14:56	6:00	3	3	0	N/A
28/Nov/19	Sha Chau	8:55	14:55	6:00	2-3	2	0	N/A
11/Dec/19	Lung Kwu Chau	9:10	15:10	6:00	2-3	3	1	1
18/Dec/19	Lung Kwu Chau	9:00	15:00	6:00	1-2	2	2	1-5
30/Dec/19	Sha Chau	9:02	15:02	6:00	2-3	4	0	N/A

Visibility Range: 1=Excellent, 2=Good, 3=Fair, 4=Poor

Annex 1 List of References for CWD Monitoring

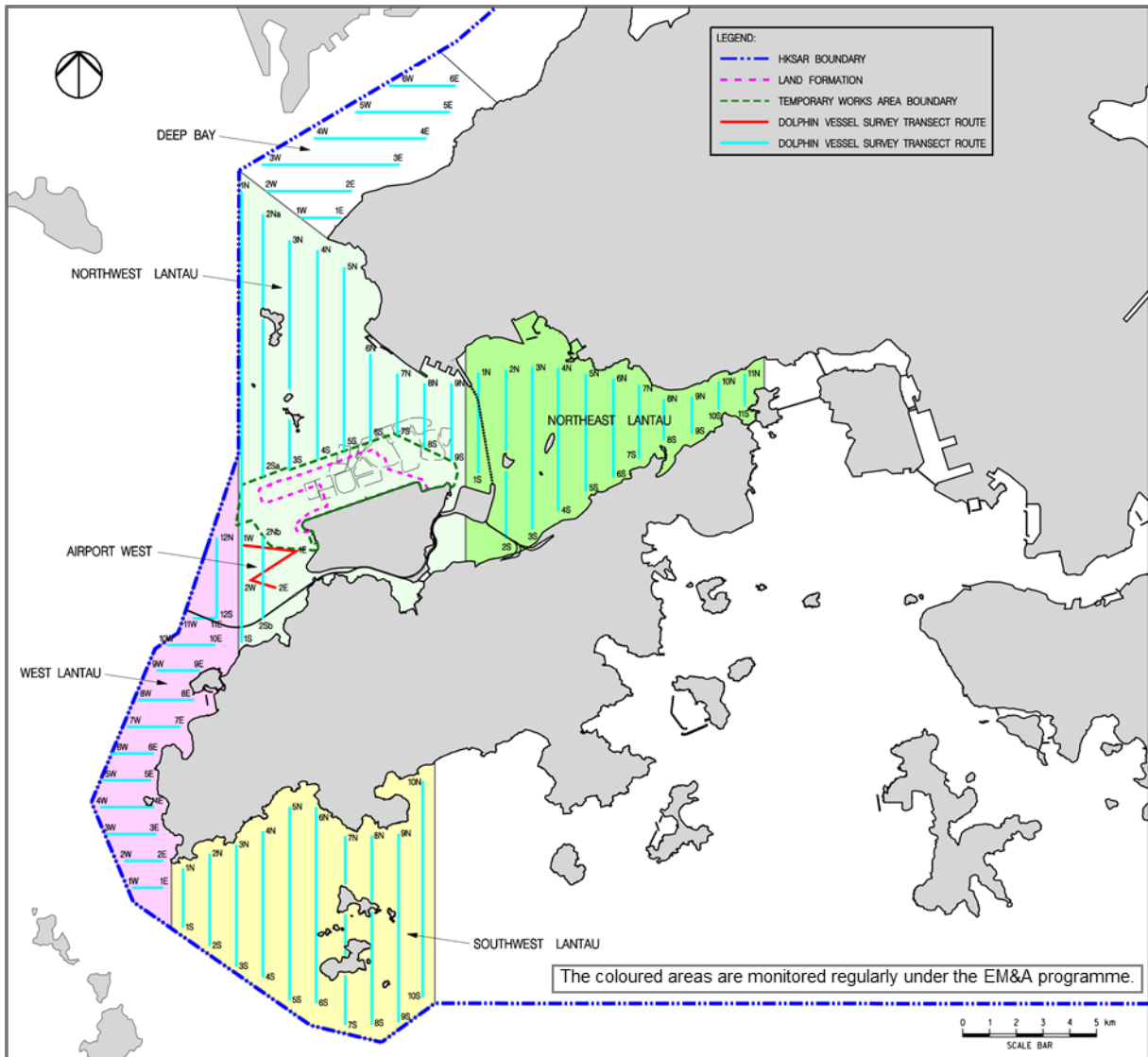
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Reference: Additional Vessel Survey for CWD Monitoring in Deep Bay Area



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.)