

Diversity, distribution, and density of marine mammals along the Saudi waters of the Arabian Gulf: update from a multi-method approach

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STANDARDISED MEGAFaUNA OBSERVATION / BYCATCH QUESTIONNAIRE

Interviewer Name: _____ Date: _____ Data Sheet Serial Number: _____

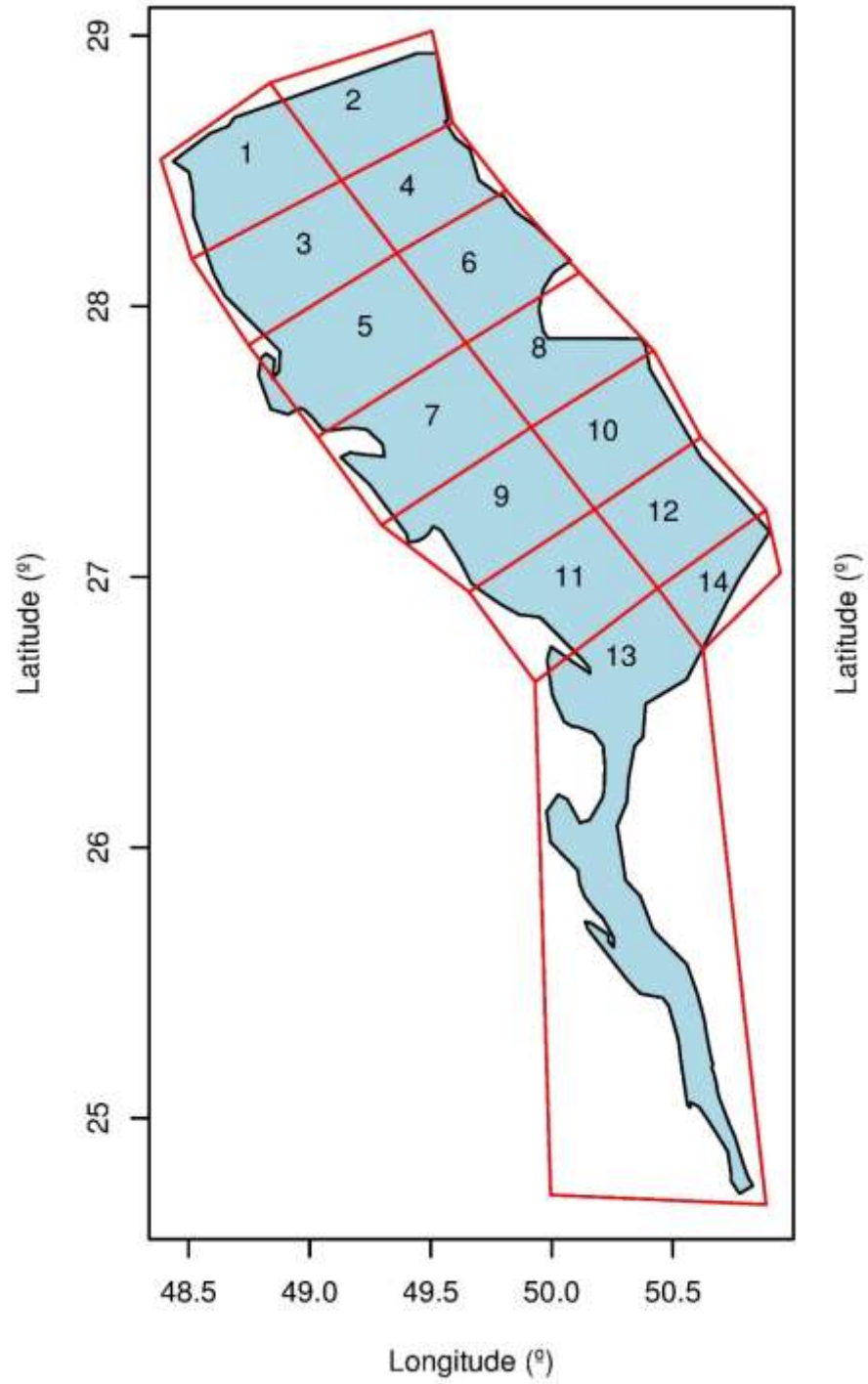
Landing Site: _____

INTERVIEWEE BACKGROUND (ONLY BOAT CAPTAINS)

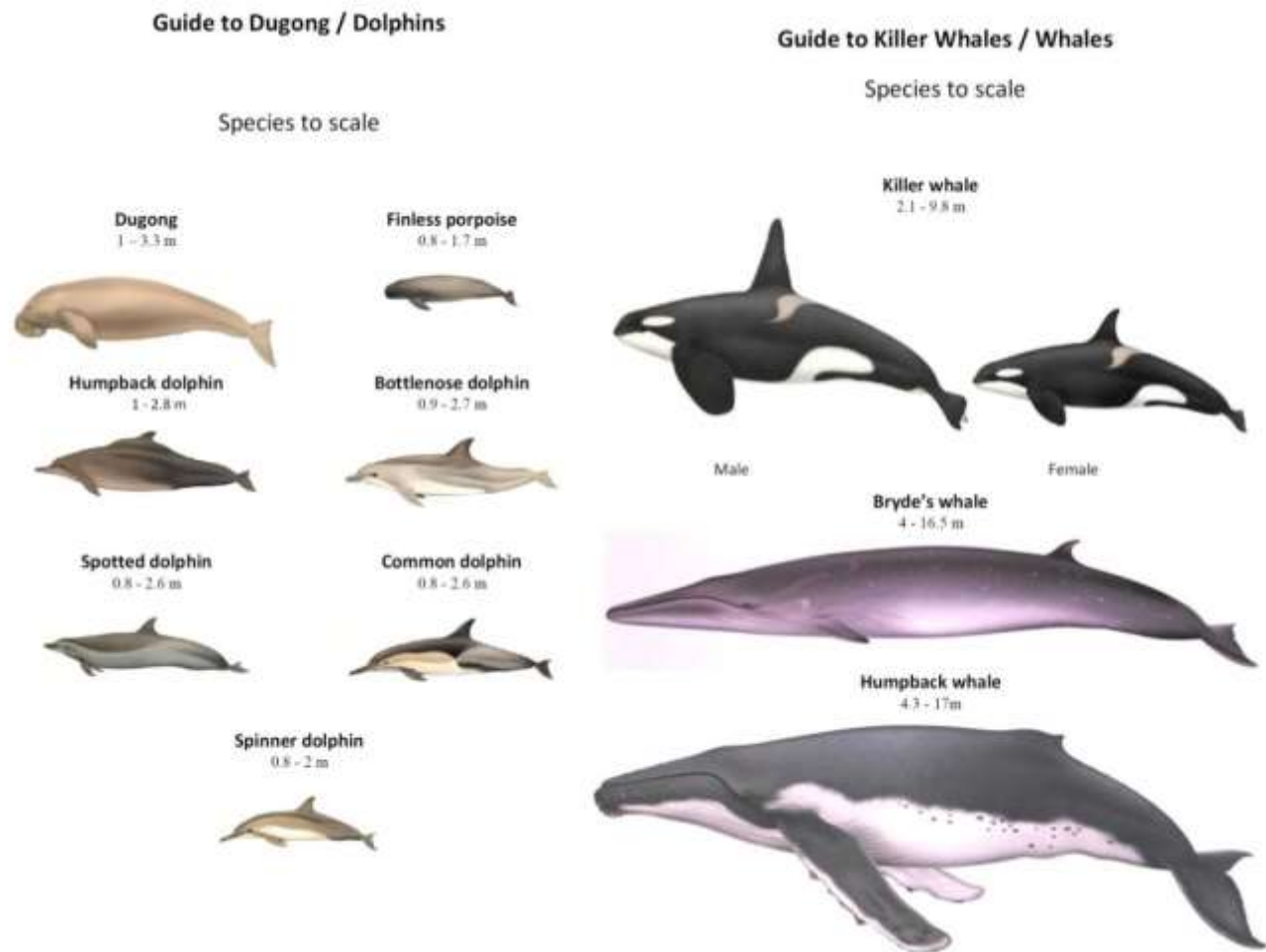
- ☐ 1. Name: _____
- ☐ 2. Boat number _____
- ☐ 3. Boat Size (Type): _____
- ☐ 4. For how many years has fishing been your occupation? _____
- ☐ 5. For how many years have you been working in fishing in Saudi Arabia? _____
- ☐ 6. Which months do you normally fish (out of the last 12)? _____
- ☐ 7. How many trips do you make per week? ____ (low season ____) ____ (peak season ____)
- ☐ 8. How many days is each trip? _____ days (low season) _____ days (peak season)
- ☐ 9. How many fishers, including yourself, work on the boat? _____
- ☐ 10. What type of fishing gear do you use? (Show gear images)
Longline ☐ **Hand line** ☐ **Troll** ☐ **Trawl net** ☐ **Traps** ☐ **Gill net** ☐ **Other** ☐ _____
- ☐ 11. What species do you target to catch? _____
- ☐ 12. In what areas (places) do you normally fish? _____ (Show map to fishermen)
- ☐ 13. Have you ever seen a **dugong**? (For 2 months memories only) (Show animal images)
No ☐ Yes ☐ Bycatch ☐ When _____ Where _____ How many _____
- ☐ 14. Have you ever seen a **dolphin**? (For 2 months memories only) (Show animal images)
No ☐ Yes ☐ Bycatch ☐ When _____ Where _____ How many _____
- ☐ 15. Have you ever seen a **whale**? (For 2 months memories only) (Show animal images)
No ☐ Yes ☐ Bycatch ☐ When _____ Where _____ How many _____
- ☐ 16. Have you ever seen a **whale shark**? (For 2 months memories only) (Show animal images)
No ☐ Yes ☐ Bycatch ☐ When _____ Where _____ How many _____
- ☐ 17. Have you ever seen a **sea snake**? (For 2 months memories only) (Show animal images)
No ☐ Yes ☐ Bycatch ☐ When _____ Where _____ How many _____
- ☐ 18. Have you ever seen a **sea turtle**? (For 2 months memories only) (Show animal images)
No ☐ Yes ☐ Bycatch ☐ When _____ Where _____ How many _____

Remarks: _____

Supplementary Figure S1. Questionnaire form prepared for the questionnaire survey, conducted with fishermen operating in the Saudi waters of the Arabian Gulf.



Supplementary Figure S2. Grid of spatial boxes shown to fishermen to locate their sightings of mammals, in the Saudi waters of the Arabian Gulf.



Supplementary Figure S3. Identification guide provided to fishermen and volunteers during the fishermen questionnaire and opportunistic sighting records' surveys.

MARINE MEGAFaUNA RECORDING FORM - RECORD OF SIGHTING
(To be filled by Saudi Aramco personnel)

Options in italics should be circled or underlined as appropriate

Date & Time (Saudi time)	Recorder Name	Type of Organisms Seen <i>Whale / Whale</i> <i>Shark / Dolphin /</i> <i>Dugong / Sea</i> <i>Turtle / Sea Snake</i>	Sighting no.
Ship/Platform name:		Activity of ship:	
Ship's position (latitude and longitude):			Water depth (metres):
Species (please see guide):		Certainty of identification: <i>Definite / probable / possible</i> Distance of animals from ship/platform (metres):	
Total number of individuals:		Number of adults: Number of juveniles:	
Description (include features such as overall size; shape of head; colour and pattern; size, shape and position of dorsal fin; height, direction and shape of blow)		Photograph or video taken: <i>Yes / No</i> (If Yes, please provide it with the form)	
Behaviour (<i>travelling/swimming in constant direction; feeding, describe if you observe chasing prey; resting on surface; bow riding; unknown</i>):		Direction of travel of animals (compass points):	

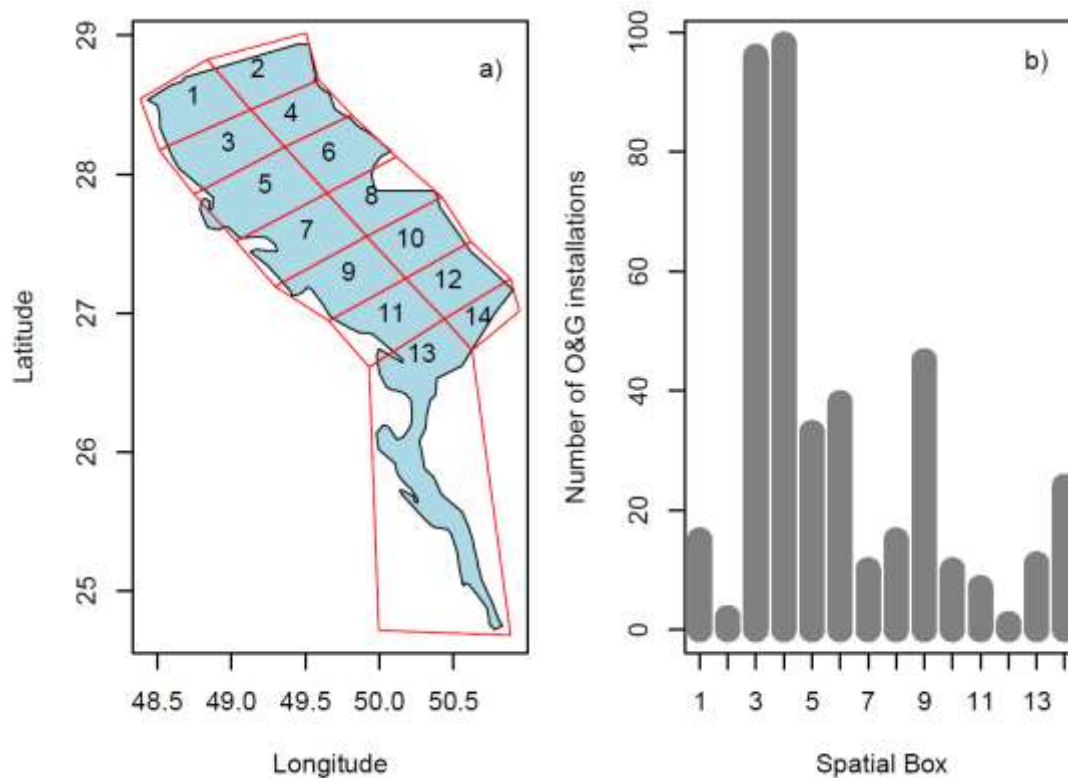
Please continue overleaf or on a separate sheet if necessary

Return to: **Dr. Mohammad Qurban** or **Dr. Lotfi Rabaoui** (Marine Studies Section – RI/KFUPM – Dhahran;
Phone: 0138603233; Fax: 0138601205; E-mail: mqurban@kfupm.edu.sa and/or lrabaoui@kfupm.edu.sa).

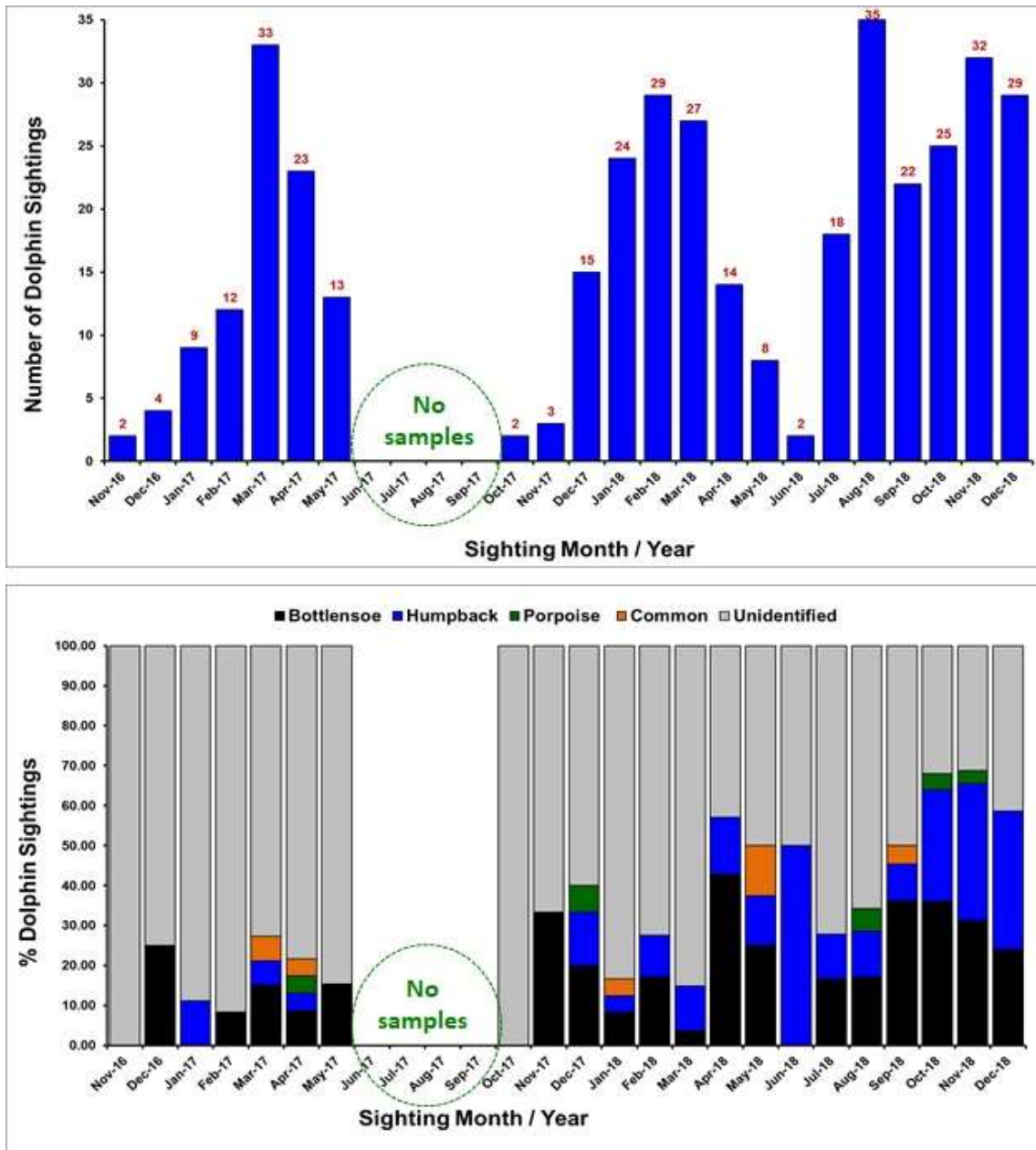
Supplementary Figure S4. Opportunistic sighting record form prepared and distributed to the volunteers from the Center for Environment and Water (CEW, KFUPM, Dhahran, Saudi Arabia) and Saudi Aramco Company (Dhahran, Saudi Arabia), working daily/weekly in the Saudi waters of the Arabian Gulf.

Supplementary Table S1. Sighting of mammals reported by fishermen between January 2017 and January 2019.

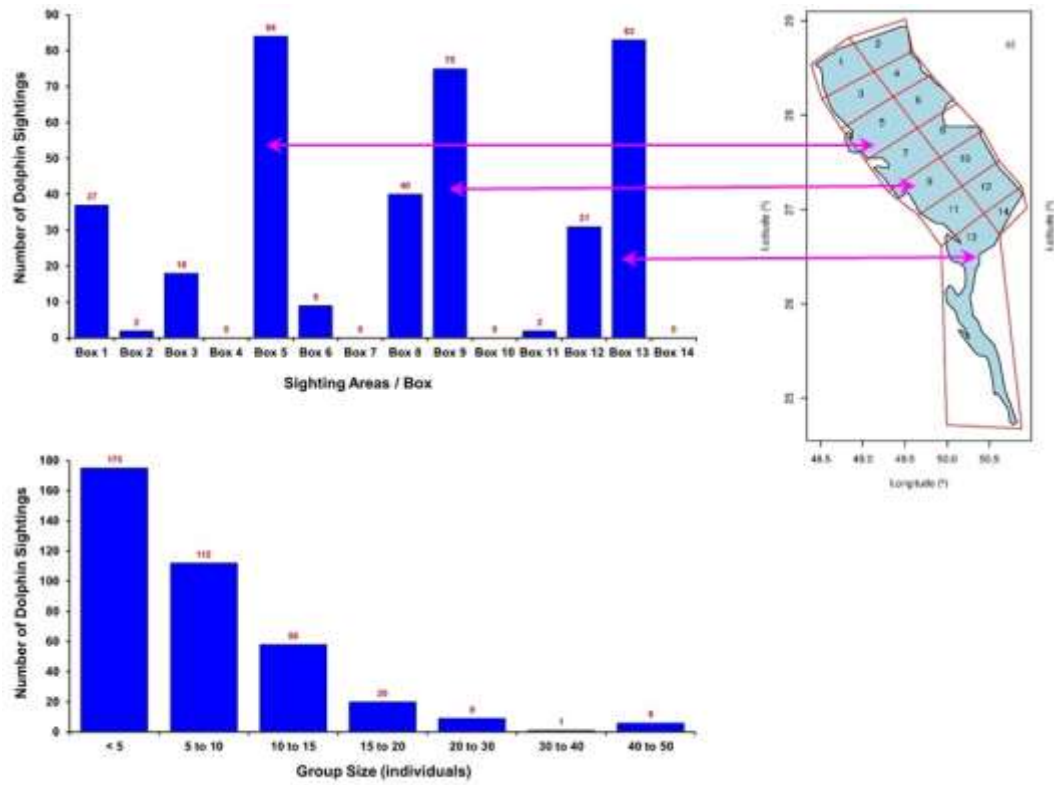
Mammal Groups	Number of sightings	Group size (min, mean, max)
Dolphin	381	5, 10.2, 50
Whale	48	1, 1.1, 2
Dugong	28	1, 2.0, 4
Killer whale	6	2, 2.2, 3



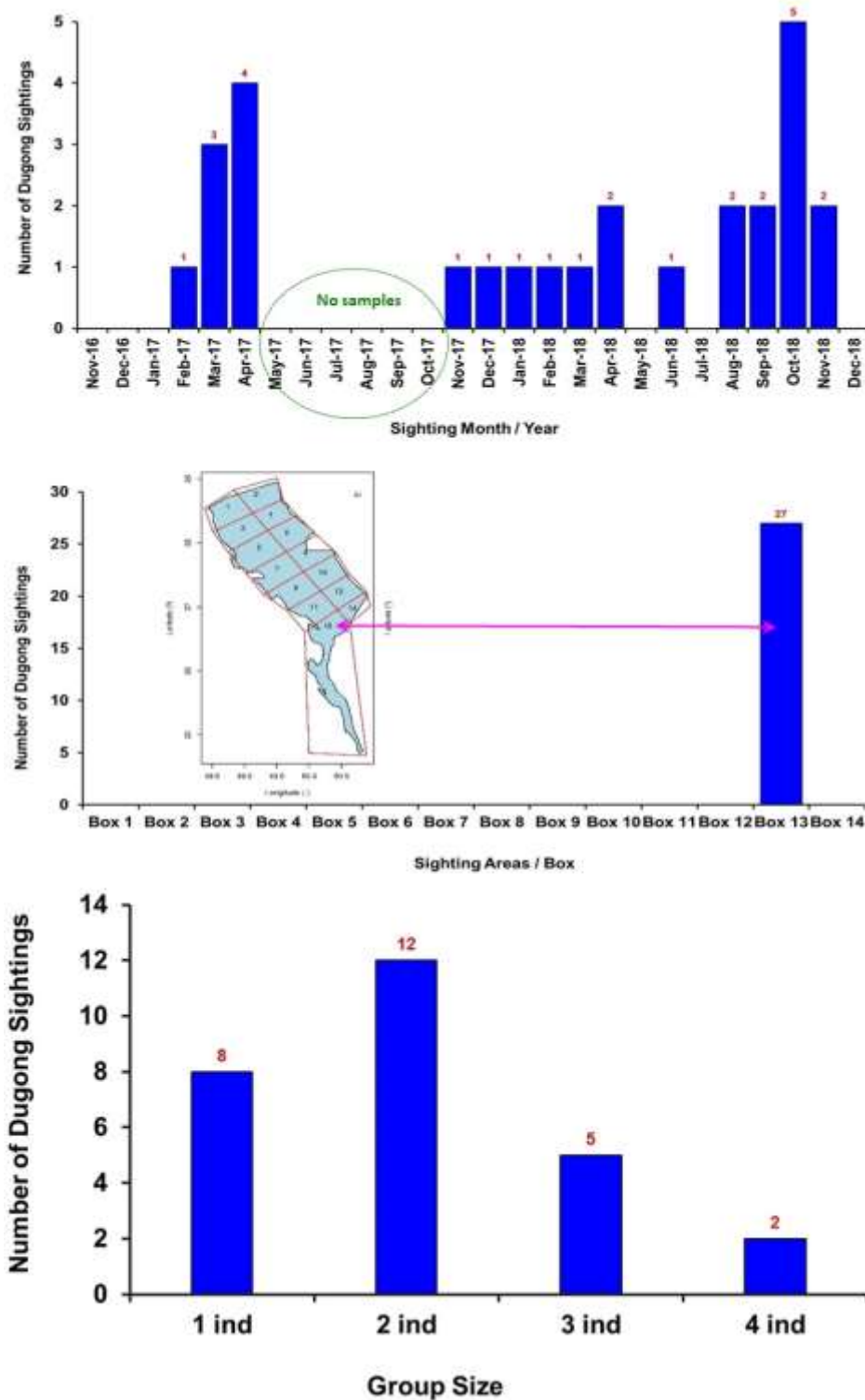
Supplementary Figure S5. (a) Grid of spatial boxes in the Saudi waters of the Arabian Gulf and (b) distribution of number of sightings reported in each box of the grid.



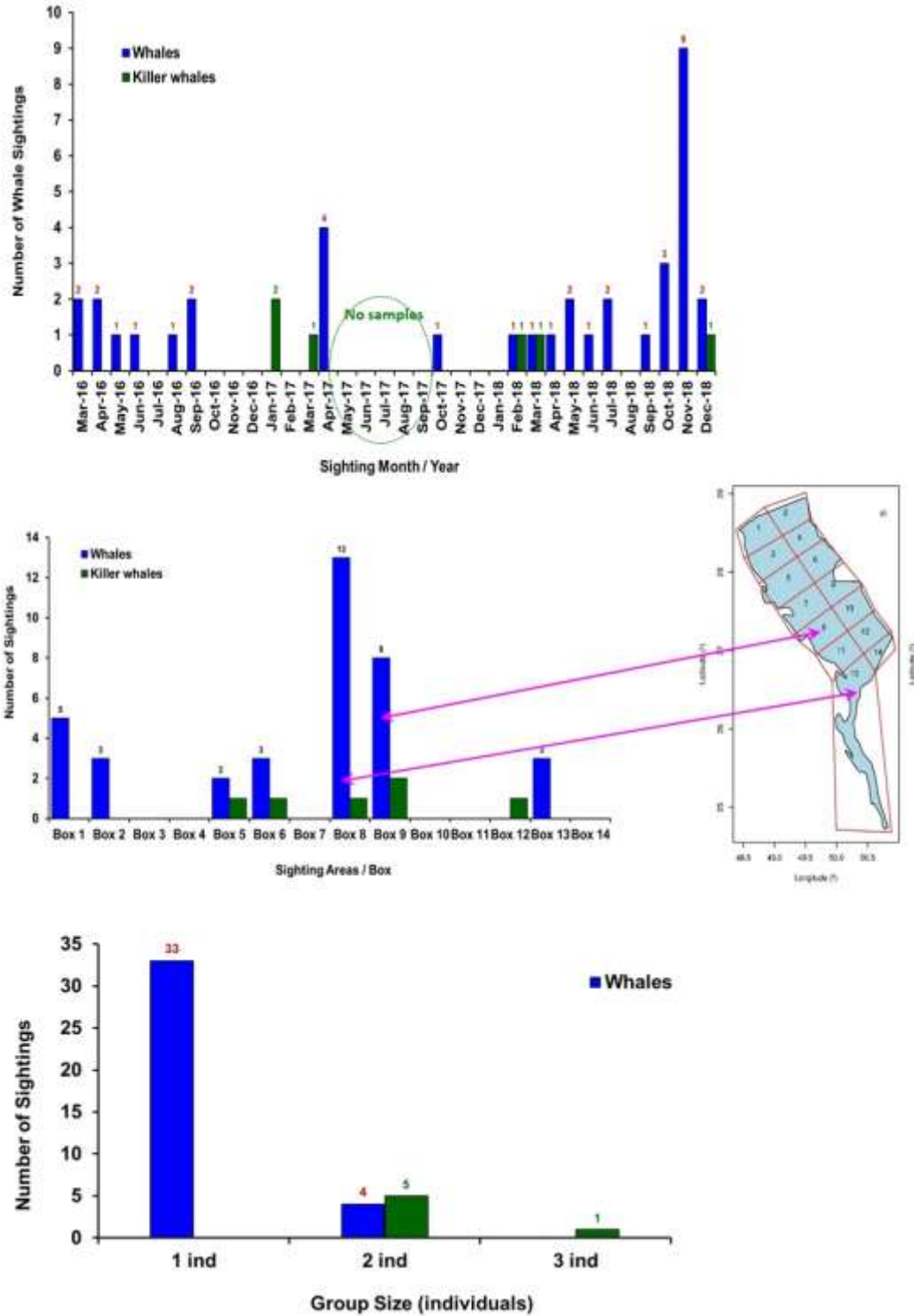
Supplementary Figure S6. Number and percentage of dolphin sightings recorded during the fishermen questionnaire surveys along the Saudi waters of the Arabian Gulf.



Supplementary Figure S7. Distribution of the dolphins' sightings in the Saudi waters of the Gulf, and with respect to their group size.



Supplementary Figure S8. Temporal, spatial and group size distribution of dugong sightings along the Saudi waters of the Arabian Gulf, between January 2017 and January 2019.



Supplementary Figure S9. Temporal, spatial and group size distribution of whales and killer whales sightings along the Saudi waters of the Arabian Gulf, between January 2017 and January 2019.

Supplementary Table S2. Opportunistic sightings data of several mammal species in Saudi waters of the Arabian Gulf (*Tursiops aduncus*, *Sousa plumbea*, *Baelenoptera edeni*, *Dugong dugon*, *Orcinus orca*, *Delphinus* sp., *Neophocaena phocaenoides*, *Megaptera novaeangliae*) in connection with oil and gas facilities (O&G) within a widening vicinity (5, 10, 20, 50 km).

Record Number	Date	Latitude	Longitude	Depth (m)	O&G.5km	O&G.10km	O&G.20km	O&G.50km	Recorder	Group	Species	Number	Calves	Condition
1	2016-02-18	27.198302	49.686813	30	7	33	39	64	KFUPM	Dolphins	<i>T. aduncus</i>	9	3	Alive
2	2016-03-03	27.471602	49.990233	54	1	6	16	94	ARAMCO	Dolphins	<i>O. orca</i>	1	0	Alive
3	2016-04-07	28.404000	49.361489	43	4	18	64	155	KFUPM	Whales	<i>B. edeni</i>	1	0	Alive
4	2016-04-11	27.816867	49.169676	18	0	1	18	155	KFUPM	Dolphins	<i>S. plumbea</i>	2	0	Alive
5	2016-05-22	25.423603	50.577951	25	0	0	0	0	KFUPM	Dugongs	<i>D. dugon</i>	10	2	Alive
6	2016-07-14	26.640000	50.146000	6	3	5	9	33	ARAMCO	Dolphins	<i>S. plumbea</i>	3	0	Alive
7	2016-08-14	26.866000	50.093000	16	1	2	10	65	ARAMCO	Dolphins	<i>T. aduncus</i>	5	0	Alive
8	2016-08-19	26.623000	50.162000	3	3	5	6	34	ARAMCO	Dolphins	<i>S. plumbea</i>	3	0	Alive
9	2016-08-22	26.634000	50.171000	12	3	5	6	35	ARAMCO	Dolphins	<i>S. plumbea</i>	6	0	Alive
10	2016-10-29	26.113054	50.088953	16	0	0	4	12	ARAMCO	Dolphins	<i>S. plumbea</i>	16	6	Alive
11	2016-12-14	27.144935	50.771393	51	0	0	0	27	KFUPM	Dolphins	<i>O. orca</i>	2	0	Alive
12	2017-02-01	27.229645	49.706497	32	9	35	39	71	ARAMCO	Dolphins	<i>S. plumbea</i>	7	0	Alive
13	2017-02-11	28.644258	49.230982	41	0	0	23	152	ARAMCO	Whales	<i>B. edeni</i>	1	0	Dead
14	2017-03-25	27.372859	49.743602	33	1	13	46	82	KFUPM	Dolphins	<i>S. plumbea</i>	5	0	Alive
15	2017-05-17	25.678237	50.337054	30	0	0	0	4	KFUPM	Dolphins	<i>T. aduncus</i>	3	0	Alive
16	2017-05-21	27.247906	50.515741	57	0	1	9	34	ARAMCO	Whales	<i>B. edeni</i>	1	0	Alive
17	2017-10-03	25.790072	50.320398	12	0	0	0	4	KFUPM	Dolphins	<i>S. plumbea</i>	3	0	Alive
18	2017-11-12	26.328267	50.483784	6	0	0	0	30	KFUPM	Dolphins	<i>S. plumbea</i>	2	1	Alive
19	2018-01-20	27.648401	49.099720	6	9	16	28	78	KFUPM	Dolphins	<i>S. plumbea</i>	6	0	Alive
20	2018-02-16	28.073000	49.493667	30	0	0	24	171	KFUPM	Dolphins	<i>S. plumbea</i>	20	6	Alive

21	2018-03-16	25.175758	50.599651	56	0	0	0	0	KFUPM	Dugongs	<i>D. dugon</i>	1	0	Dead
22	2018-03-21	27.798844	49.879701	41	0	2	18	120	KFUPM	Dolphins	<i>Delphinus</i> sp.	70	30	Alive
23	2018-03-27	28.808435	49.423130	43	0	0	5	131	KFUPM	Whales	<i>B. edeni</i>	1	0	
24	2018-05-28	25.564321	50.412035	34	0	0	0	4	KFUPM	Dugongs	<i>D. dugon</i>	1	0	Dead
25	2018-05-30	27.156118	49.675240	12	6	21	37	63	KFUPM	Dolphins	<i>T. aduncus</i>	10	0	Alive
26	2018-07-24	26.085200	50.060200	27	0	0	4	10	KFUPM	Dolphins	<i>T. aduncus</i>	10	0	Alive
27	2018-08-04	27.959967	49.662000	18	1	2	9	155	KFUPM	Dolphins	<i>T. aduncus</i>	18	4	Alive
28	2018-08-05	27.718833	50.076767	43	4	9	13	66	KFUPM	Dolphins	<i>T. aduncus</i>	6	0	Alive
29	2018-08-30	27.519000	49.670000	28	4	9	24	84	KFUPM	Dolphins	<i>T. aduncus</i>	3	0	Alive
30	2018-08-30	27.150117	49.649033	4	2	15	37	61	KFUPM	Dolphins	<i>S. plumbea</i>	6	0	Alive
31	2018-09-06	27.935980	48.857940	2	0	6	41	144	KFUPM	Dolphins	<i>S. plumbea</i>	1	0	Dead
32	2018-09-13	28.245000	48.890278	11	5	29	66	157	KFUPM	Dolphins	<i>T. aduncus</i>	2	0	Alive
33	2018-10-02	27.800900	49.030800	2	3	7	32	160	KFUPM	Dolphins	<i>N. phocaenoides</i>	1	0	Alive
34	2018-10-06	27.869930	48.901540	6	3	5	33	144	KFUPM	Dolphins	<i>S. plumbea</i>	1	0	Dead
35	2018-10-15	25.708840	50.339810	27	0	0	0	4	KFUPM	Dugongs	<i>D. dugon</i>	2	0	Alive
36	2018-10-18	25.615300	50.371100	34	0	0	0	4	KFUPM	Dolphins	<i>T. aduncus</i>	2	0	Alive
37	2018-10-18	25.581000	50.374500	35	0	0	0	4	KFUPM	Dolphins	<i>T. aduncus</i>	5	0	Alive
38	2018-12-02	27.606608	49.798512	31	0	1	12	103	KFUPM	Dolphins	<i>T. aduncus</i>	30	8	Alive
39	2018-12-04	27.931700	49.383200	27	0	0	0	171	KFUPM	Dolphins	<i>T. aduncus</i>	10	3	Alive
40	2018-12-13	27.125900	50.015800	30	0	1	6	82	ARAMCO	Whales	<i>M. novaeangliae</i>	2	1	Alive
41	2019-01-13	27.971400	48.768300	12	15	26	52	131	KFUPM	Dolphins	<i>S. plumbea</i>	2	0	Alive
42	2019-01-23	28.355050	49.210700	35	13	28	50	186	KFUPM	Dolphins	<i>T. aduncus</i>	10	0	Alive
43	2019-02-24	27.375970	49.931630	23	2	4	10	90	KFUPM	Dolphins	<i>T. aduncus</i>	28	5	Alive
44	2019-02-24	27.428000	50.023220	49	3	6	14	87	KFUPM	Dolphins	<i>T. aduncus</i>	4	0	Alive
45	2019-03-11	25.748000	50.227000	30	0	0	4	4	KFUPM	Dolphins	<i>T. aduncus</i>	5	0	Alive
46	2019-03-11	25.865430	50.241390	11	0	0	4	4	KFUPM	Dolphins	<i>T. aduncus</i>	1	0	Alive

47	2019-03-11	25.887150	50.251950	10	0	0	4	4	KFUPM	Dolphins	<i>T. aduncus</i>	2	0	Alive
48	2019-03-11	25.936370	50.272300	12	0	0	4	4	KFUPM	Dolphins	<i>T. aduncus</i>	6	0	Alive
49	2019-03-11	26.022850	50.216000	9	0	0	4	8	KFUPM	Dolphins	<i>T. aduncus</i>	10	0	Alive
50	2019-03-12	25.498800	50.488000	33	0	0	0	0	KFUPM	Dolphins	<i>T. aduncus</i>	1	0	Alive
51	2019-03-12	25.553800	50.488000	33	0	0	0	4	KFUPM	Dolphins	<i>T. aduncus</i>	8	0	Alive
52	2019-03-12	25.580200	50.473500	32	0	0	0	4	KFUPM	Dolphins	<i>T. aduncus</i>	10	0	Alive
53	2019-03-12	25.645000	50.424600	29	0	0	0	4	KFUPM	Dolphins	<i>T. aduncus</i>	9	3	Alive
54	2019-03-13	25.123900	50.624700	16	0	0	0	0	KFUPM	Dolphins	<i>T. aduncus</i>	13	0	Alive
55	2019-03-13	25.159000	50.621380	14	0	0	0	0	KFUPM	Dolphins	<i>T. aduncus</i>	11	0	Alive
56	2019-03-13	25.198580	50.617400	24	0	0	0	0	KFUPM	Dolphins	<i>T. aduncus</i>	9	0	Alive
57	2019-03-13	25.235200	50.611600	19	0	0	0	0	KFUPM	Dolphins	<i>T. aduncus</i>	12	0	Alive
58	2019-03-13	25.260500	50.602800	25	0	0	0	0	KFUPM	Dolphins	<i>T. aduncus</i>	8	0	Alive
59	2019-03-13	25.325814	50.582142	20	0	0	0	0	KFUPM	Dolphins	<i>T. aduncus</i>	20	0	Alive
60	2019-03-13	25.387430	50.586242	12	0	0	0	0	KFUPM	Dolphins	<i>T. aduncus</i>	8	0	Alive
61	2019-03-13	27.271090	49.569500	4	1	3	32	58	KFUPM	Dolphins	<i>S. plumbea</i>	1	0	Alive
62	2019-03-16	27.340893	49.245086	19	0	1	1	52	ARAMCO	Dolphins	<i>N. phocaenoides</i>	1	0	Dead
63	2019-03-21	26.250114	50.299820	5	0	0	0	12	KFUPM	Dolphins	<i>T. aduncus</i>	1	0	Alive
64	2019-03-22	27.361708	49.875498	22	0	2	19	89	KFUPM	Dolphins	<i>T. aduncus</i>	1	0	Alive
65	2019-03-23	27.283313	49.599707	2	1	11	43	60	KFUPM	Dolphins	<i>T. aduncus</i>	1	0	Alive
66	2019-05-02	27.018000	50.211000	6	0	0	0	55	KFUPM	Dolphins	<i>T. aduncus</i>	20	1	Alive
67	2019-06-01	27.230812	49.805147	21	1	14	38	81	KFUPM	Dolphins	<i>T. aduncus</i>	6	0	Alive
68	2019-09-03	26.180580	50.270840	6	0	0	0	11	KFUPM	Whales	<i>M. novaeangliae</i>	1	0	Dead
69	2019-11-26	27.279000	49.560770	36	1	2	26	57	KFUPM	Whales	<i>B. edeni</i>	1	1	Alive
70	2019-12-31	25.501370	50.396450	0	0	0	0	4	KFUPM	Dugongs	<i>D. dugon</i>	1	0	Dead
71	2020-01-16	27.969480	48.746010	8	16	25	49	129	KFUPM	Dolphins	<i>S. plumbea</i>	10	2	Alive
72	2020-01-16	27.960670	48.761450	10	15	25	50	131	KFUPM	Dugongs	<i>T. aduncus</i>	2	0	Alive

73	2020-01-21	27.954310	48.774550	10	15	25	50	131	KFUPM	Dolphins	<i>T. aduncus</i>	2	0	Alive
74	2020-02-29	25.049860	50.616300	8	0	0	0	0	KFUPM	Dolphins	<i>T. aduncus</i>	10	2	Alive
75	2020-02-29	25.029440	50.646750	10	0	0	0	0	KFUPM	Dolphins	<i>T. aduncus</i>	2	0	Alive
76	2020-03-12	24.928450	50.697280	12	0	0	0	0	KFUPM	Dolphins	<i>T. aduncus</i>	8	0	Alive
77	2020-03-12	24.978790	50.689890	8	0	0	0	0	KFUPM	Dolphins	<i>S. plumbea</i>	4	0	Alive
78	2020-03-12	25.004800	50.684700	10	0	0	0	0	KFUPM	Dolphins	<i>T. aduncus</i>	2	0	Alive
79	2020-04-06	28.037510	48.724810	5	15	30	51	122	KFUPM	Dolphins	<i>T. aduncus</i>	15	3	Alive
80	2020-04-03	26.874290	50.554190	20	1	22	26	31	KFUPM	Dolphins	<i>T. aduncus</i>	3	1	Alive
81	2020-04-14	27.318750	49.626450	2	2	12	47	67	KFUPM	Dolphins	<i>T. aduncus</i>	1	1	Alive
82	2020-04-14	28.073440	49.782290	20	0	7	20	135	KFUPM	Dolphins	<i>T. aduncus</i>	20	0	Alive
83	2020-05-04	27.289290	49.706530	5	10	28	44	79	KFUPM	Dolphins	<i>T. aduncus</i>	20	2	Alive
84	2020-05-18	25.75578	50.190928	5	0	0	4	4	KFUPM	Dolphins	<i>T. aduncus</i>	14	3	Alive
85	2020-05-20	25.78025	50.195767	15	0	0	4	4	KFUPM	Dolphins	<i>T. aduncus</i>	20	2	Alive
86	2020-05-19	27.968659	48.74699	6	16	25	49	129	KFUPM	Dolphins	<i>S. plumbea</i>	1	0	Alive
87	2020-06-30	24.354	51.332	6	0	0	0	0	KFUPM	Dugongs	<i>D. dugon</i>	3	0	Alive
88	2020-06-30	24.3635	51.33322	7	0	0	0	0	KFUPM	Dugongs	<i>D. dugon</i>	2	0	Alive
89	2020-07-01	24.4296	51.3505	6	0	0	0	0	KFUPM	Dugongs	<i>D. dugon</i>	3	0	Alive
90	2020-07-07	27.282495	49.789835	10	2	15	40	86	KFUPM	Dolphins	<i>T. aduncus</i>	10	0	Alive
91	2020-07-07	27.975612	48.75096	10	16	25	51	130	KFUPM	Dolphins	<i>N. phocaenoides</i>	6	0	Alive
92	2020-07-09	26.8502	50.107	15	0	0	0	0	KFUPM	Dolphins	<i>T. aduncus</i>	10	0	Alive
93	2020-08-03	26.866	50.093	10	1	2	10	65	KFUPM	Dolphins	<i>T. aduncus</i>	10	0	Alive
94	2020-10-02	26.14068	50.0191	1	0	0	0	12	KFUPM	Dolphins	<i>S. plumbea</i>	1	0	Alive



Supplementary Figure S10. Photos of one Bryde's whale (*Balaenoptera edeni*) observed in April 2016 off Ras Mishab.



Supplementary Figure S11. Indo-Pacific bottlenose dolphin (*Tursiops aduncus*) observed in Spring 2018 in the Gulf of Salwah.



Supplementary Figure S12. Indo Pacific Humped-back dolphin (*Sousa plumbea*) observed in Spring 2019 in the Gulf of Salwah.



Supplementary Figure S13. Two killer whales (*Orcinus orca*) observed by fishermen in December 2016 in the Saudi waters of the Arabian Gulf.



Supplementary Figure S14. A dugong (*Dugong dugon*) observed by KFUPM experts in winter 2019 in the Gulf of Salwah.

Supplementary Table S3. Systematic surveys sightings data: humpback dolphins (*S. plumbea*), bottlenose dolphins (*T. aduncus*), dugongs (*D. dugong*).

Survey	Site	Group Size	Sighting Distance (m)	Sighting Angle	Straight Distance (m)	Species
Spring 2018	S10.S11	2	250	57	109.04	<i>D. dugong</i>
Spring 2018	S1.S2	3	50	33	50.00	<i>S. plumbea</i>
Spring 2018	S5.S6	8	270	40	201.18	<i>S. plumbea</i>
Spring 2018	A5.A6	12	200	90	178.80	<i>S. plumbea</i>
Spring 2018	A6.A7	9	200	48	153.65	<i>S. plumbea</i>
Spring 2018	A8.A9	9	250	27	239.09	<i>S. plumbea</i>
Spring 2018	A10.A11	7	300	60	91.44	<i>S. plumbea</i>
Spring 2018	A12.A13	2	800	90	715.20	<i>S. plumbea</i>
Spring 2018	A14.A15	9	280	35	119.89	<i>S. plumbea</i>
Spring 2018	S1.S2	4	250	42	229.13	<i>T. aduncus</i>
Spring 2018	S6.S7	5	350	30	345.81	<i>T. aduncus</i>
Spring 2018	S6.S7	16	50	40	37.26	<i>T. aduncus</i>
Spring 2018	S7.S8	30	250	49	238.44	<i>T. aduncus</i>
Spring 2018	S9.S10	11	50	24	45.28	<i>T. aduncus</i>
Spring 2018	S10.S11	14	80	40	59.61	<i>T. aduncus</i>
Spring 2018	A3.A4	4	500	30	494.02	<i>T. aduncus</i>
Spring 2018	A6.A7	14	220	60	67.06	<i>T. aduncus</i>
Spring 2018	A8.A9	11	125	35	53.52	<i>T. aduncus</i>
Spring 2018	A11.A12	5	700	75	271.45	<i>T. aduncus</i>
Spring 2018	A14.A15	4	120	30	118.56	<i>T. aduncus</i>
Spring 2019	A4.A5	6	420	35	179.84	<i>S. plumbea</i>
Spring 2019	A11.A12	3	420	45	357.38	<i>S. plumbea</i>

Spring 2019	S6.S7	5	100	50	26.24	<i>T. aduncus</i>
Spring 2019	S6.S7	1	50	130	46.51	<i>T. aduncus</i>
Spring 2019	S6.S7	2	25	60	7.62	<i>T. aduncus</i>
Spring 2019	S6.S7	6	150	20	136.94	<i>T. aduncus</i>
Spring 2019	S5.S6	3	150	45	127.64	<i>T. aduncus</i>
Spring 2019	S8.S9	1	25	45	21.27	<i>T. aduncus</i>
Spring 2019	S8.S9	2	30	90	26.82	<i>T. aduncus</i>
Spring 2019	S8.S9	4	25	145	11.69	<i>T. aduncus</i>
Spring 2019	S7.S8	12	50	180	40.06	<i>T. aduncus</i>
Spring 2019	S10.S11	8	10	45	8.51	<i>T. aduncus</i>
Spring 2019	S10.S11	6	15	120	8.71	<i>T. aduncus</i>
Spring 2019	S10.S11	6	10	100	5.06	<i>T. aduncus</i>
Spring 2019	S10.S11	8	15	180	12.02	<i>T. aduncus</i>
Spring 2019	S10.S11	5	50	45	42.55	<i>T. aduncus</i>
Spring 2019	S10.S11	15	100	90	89.4	<i>T. aduncus</i>
Spring 2019	A2.A3	5	300	60	91.44	<i>T. aduncus</i>
Spring 2019	A10.A11	22	600	60	182.89	<i>T. aduncus</i>
Spring 2019	A10.A11	2	600	180	480.69	<i>T. aduncus</i>