

In-water methods reveal population dynamics of a green turtle *Chelonia mydas* foraging aggregation in the Philippines

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SUPPLEMENTARY MATERIAL

Table S1. Span (years) between first and last encounter with individual turtles at the study site in Tan-Awan, Cebu, Philippines.

Turtle ID	Days encountered	Date first encountered	Date last encountered	Span (yr)
COST7	315	12-May-12	11-Oct-18	6.42
COST5	458	24-May-12	14-Oct-18	6.39
COST8	410	05-Jun-12	14-Oct-18	6.36
COST2	145	12-Jun-12	07-Oct-18	6.32
COST25	10	23-Jul-12	27-May-18	5.85
COST9	347	10-Oct-12	15-Oct-18	6.02
COST41	1	19-Nov-12	19-Nov-12	0.00
COST11	59	17-Dec-12	28-Sep-18	5.78
COST3	488	12-Apr-13	11-Oct-18	5.50
COST12	19	22-May-13	23-Jun-15	2.09
COST4	465	22-May-13	14-Oct-18	5.40
COST1	299	10-Jul-13	08-Oct-18	5.25
COST10	670	17-May-14	14-Oct-18	4.41
COST37	1	13-Jul-14	13-Jul-14	0.00
COST27	15	13-Jul-14	28-Aug-18	4.13
COST14	254	11-Aug-14	27-Sep-18	4.13
COST13	527	15-Aug-14	14-Oct-18	4.17
COST39	2	22-Aug-14	12-Sep-18	4.06
COST15	272	02-Sep-14	02-Oct-18	4.08
COST16	2	08-Sep-14	16-Sep-14	0.02
COST17	2	27-Sep-14	04-Aug-15	0.85
COST19	66	14-Nov-14	09-Oct-18	3.90
COST20	47	08-Dec-14	16-Sep-18	3.78
COST21	1	17-Jan-15	17-Jan-15	0.00
COST22	1	28-Jan-15	28-Jan-15	0.00
COST23	2	28-Jan-15	31-Jan-15	0.01
COST34	1	01-Feb-15	01-Feb-15	0.00
COST24	3	10-Feb-15	22-Jun-15	0.36
COST26	3	13-Feb-15	21-Sep-15	0.60
COST32	179	29-Apr-15	09-Oct-18	3.45

COST30	2	02-May-15	21-Jun-15	0.14
COST29	314	05-May-15	13-Oct-18	3.44
COST28	1	29-May-15	29-May-15	0.00
COST31	265	21-Jul-15	05-Oct-18	3.21
COST33	3	04-Oct-15	08-Aug-18	2.85
COST35	1	06-Oct-15	06-Oct-15	0.00
COST38	75	13-Oct-15	20-Sep-18	2.94
COST40	4	05-Nov-15	12-Jan-16	0.19
COST42	1	06-Jan-16	06-Jan-16	0.00
COST43	1	29-Jan-16	29-Jan-16	0.00
COST44	1	05-Feb-16	05-Feb-16	0.00
COST45	2	08-Feb-16	28-May-18	2.30
COST46	1	04-Mar-16	04-Mar-16	0.00
COST47	1	04-Mar-16	04-Mar-16	0.00
COST48	2	19-Mar-16	30-Mar-16	0.03
COST49	8	23-Mar-16	03-Sep-16	0.45
COST50	5	24-Mar-16	05-Jul-16	0.28
COST51	43	24-Mar-16	07-Oct-18	2.54
COST52	1	27-Apr-16	27-Apr-16	0.00
COST57	2	07-Jun-16	21-Jul-17	1.12
COST58	1	10-Jun-16	10-Jun-16	0.00
COST54	137	01-Jul-16	15-Oct-18	2.29
COST55	24	09-Jul-16	11-Sep-18	2.18
COST59	14	26-Dec-16	15-Oct-18	1.80
COST60	31	28-Feb-17	21-Sep-18	1.56
COST61	1	01-Apr-17	01-Apr-17	0.00
COST65	4	02-Jun-17	18-Jun-18	1.04
COST66	2	09-Jun-17	08-Feb-18	0.67
COST68	81	09-Jun-17	13-Oct-18	1.35
COST67	216	17-Jun-17	15-Oct-18	1.33
COST73	5	05-Jul-17	05-Feb-18	0.59
COST72	1	07-Jul-17	07-Jul-17	0.00
COST69	138	12-Jul-17	15-Oct-18	1.26
COST70	1	26-Jul-17	26-Jul-17	0.00
COST74	47	12-Aug-17	14-Oct-18	1.17
COST6	1	13-Aug-17	13-Aug-17	0.00
COST77	7	07-Oct-17	25-Sep-18	0.97
COST78	1	29-Dec-17	29-Dec-17	0.00
COST79	2	01-Feb-18	31-Mar-18	0.16
COST80	2	08-Feb-18	11-Feb-18	0.01
COST81	1	09-Feb-18	09-Feb-18	0.00
COST64	5	09-Feb-18	27-Aug-18	0.55
COST83	1	19-Feb-18	19-Feb-18	0.00
COST84	1	07-Mar-18	07-Mar-18	0.00
COST86	3	13-Apr-18	13-Oct-18	0.50
COST85	35	13-Apr-18	15-Oct-18	0.51
COST88	2	16-May-18	19-May-18	0.01
COST89	15	06-Jun-18	04-Oct-18	0.33
COST91	28	06-Jun-18	10-Oct-18	0.35
COST92	7	29-Jul-18	27-Sep-18	0.16
COST93	14	31-Aug-18	13-Oct-18	0.12
COST94	1	13-Sep-18	13-Sep-18	0.00

Table S2. Parameters tested influencing turtle encounter rates at Tan-awan during 1 hr surveys.

Parameter	Coefficient	S.E.	P value
<i>Intercept</i>	-2.95	0.89	0.00086*
Visibility	0.06	0.01	2.15E-07*
Swell	0.20	0.14	0.14923
Beaufort 1	-0.19	0.15	0.22831
Beaufort 2	-0.31	0.16	0.05444
Beaufort 3	-0.36	0.17	0.03554*
Beaufort 5	-0.52	0.60	0.39151
Moon Irradiance	0.00	0.00	0.06175
SST	0.15	0.03	1.24E-06*
Moderate current	0.09	0.05	0.04393*
Strong current	0.09	0.09	0.28850
Tide	-0.19	0.14	0.16755