

**Supplemental Table 1:** Summary of 44 satellite tracked juvenile loggerhead sea turtles released off Japan in 2010 and 2011.

4

Track ID	SCL (cm)	Age (months)	Captive/Wild Caught	Deploy Date	Deploy Latitude	Deploy Longitude	Date Terminated	Distance Traveled (km)	Days Transmitted
22278_10	36.0	20	Captive	9-Apr-10	29.7	130.5	17-Jan-11	7201	283
22279_10	36.8	20	Captive	9-Apr-10	29.7	130.5	25-Feb-11	7641	322
25358_10	34.7	20	Captive	9-Apr-10	29.7	130.5	29-Mar-11	7995	354
25360_10	40.7	20	Captive	9-Apr-10	29.7	130.5	15-Jul-11	12226	462
40703_10	35.4	20	Captive	9-Apr-10	29.7	130.5	27-Jul-11	9968	474
40719_10	38.1	20	Captive	9-Apr-10	29.7	130.5	23-Feb-11	7662	320
40725_10	37.3	20	Captive	9-Apr-10	29.7	130.5	27-Feb-11	6731	324
42715_10	34.0	20	Captive	9-Apr-10	29.7	130.5	25-Apr-11	9324	381
42717_10	37.9	20	Captive	9-Apr-10	29.7	130.5	10-Sep-11	10915	519
50138_10	36.3	20	Captive	9-Apr-10	29.7	130.5	19-Sep-11	11536	528
50154_10	35.4	20	Captive	9-Apr-10	29.7	130.5	11-Jan-11	6327	277
50158_10	35.9	20	Captive	9-Apr-10	29.7	130.5	31-May-11	10346	417
52703_10	38.5	20	Captive	9-Apr-10	29.7	130.5	19-Oct-11	11549	558
57146_10	32.8	20	Captive	9-Apr-10	29.7	130.5	16-May-11	9573	402
65415_10	33.3	20	Captive	9-Apr-10	29.7	130.5	29-Jan-11	7457	295
65416_10	38.9	20	Captive	9-Apr-10	29.7	130.5	2-Jan-11	5937	268
65417_10	37.6	20	Captive	9-Apr-10	29.7	130.5	9-Jun-11	11978	426
19595_11	39.1	24	Captive	12-Jul-11	37.5	143.1	14-Sep-13	16719	795
22151_11	34.9	24	Captive	12-Jul-11	36.7	142.6	29-Oct-13	14001	840
22168_11	35.6	24	Captive	12-Jul-11	36.1	143.6	2-Feb-13	13521	571
22535_11	34.9	24	Captive	12-Jul-11	36.4	143.9	28-Feb-13	11936	597
23002_11	37.4	24	Captive	12-Jul-11	36.3	141.2	23-Nov-13	17863	865
23045_11	36.0	24	Captive	12-Jul-11	36.6	144.6	16-Feb-13	12012	585
40471_11	34.7	24	Captive	12-Jul-11	36.4	142.4	4-Feb-13	11892	573

41315_11	38.3	24	Captive	12-Jul-11	35.7	141.3	14-Oct-12	8336	460
42711_11	36.3	24	Captive	12-Jul-11	35.7	141.3	3-Nov-12	10350	480
42714_11	36.6	24	Captive	12-Jul-11	36.6	141.7	5-Sep-13	15490	786
50146_11	37.9	24	Captive	12-Jul-11	36.5	143.6	15-Jul-13	12076	734
50152_11	34.6	24	Captive	12-Jul-11	35.7	141.3	31-Jan-12	4616	203
52693_11	51.8	36	Captive	12-Jul-11	35.7	141.3	28-Jul-12	11112	382
52694_11	57.4	36	Captive	12-Jul-11	35.7	141.3	1-Jan-12	5356	173
52697_11	59.4	36	Captive	12-Jul-11	35.7	141.3	27-Sep-12	10265	443
53754_11	58.2	36	Captive	12-Jul-11	35.7	141.3	1-Jul-12	10387	355
53769_11	34.5	24	Captive	12-Jul-11	35.7	141.3	3-Dec-12	10660	510
57147_11	36.2	24	Captive	12-Jul-11	35.7	141.3	25-Jul-12	8053	379
57150_11	35.1	24	Captive	12-Jul-11	35.7	141.3	14-Oct-12	8301	460
65421_11	36.5	24	Captive	12-Jul-11	34.8	146.6	20-Apr-13	13754	648
65433_11	38.9	24	Captive	12-Jul-11	35.7	141.3	2-Aug-12	9591	387
68330_11	38.6	24	Captive	12-Jul-11	36.9	142.9	17-Mar-13	15289	614
68331_11	38.2	24	Captive	12-Jul-11	36.5	142.3	18-Feb-13	11425	587
68335_11	36.2	24	Captive	12-Jul-11	35.7	141.3	17-Oct-12	9934	463
68336_11	36.9	24	Captive	12-Jul-11	36.1	142.5	26-Apr-13	13595	654
88054_11	36.5	24	Captive	12-Jul-11	35.7	141.3	4-Oct-12	8242	450
88068_11	40.5	NA	Captive	12-Jul-11	35.7	141.3	6-Apr-12	6102	269

6

8