Methods

Over the course of 4 tagging seasons, 79 pop-up satellite archival tags were deployed by researchers, commercial fishermen and fishery observers. The tags were programmed to release after a set period (between 150–500 days after deployment), after a prolonged period (4–8 days) at a constant depth or reaching a maximum depth threshold of 1700 meters. A range of Wildlife Computing PAT, SPLASH 323-B and MinPAT tags were used (Table 1).

	2011	2012	2014	2015
MinPAT	0	0	0	20
PAT	1	36	2	2
SPLASH 323-B	0	0	17	1

Table 1: The types of tags deployed over the 4 tagging seasons

Tag data was downloaded from Wildlife Computers and processed using WC-DAP v3.0.369. These data were then analyzed using R v3.3.2.

Tags often transmitted for a long period after releasing from turtles and the start of transmission could be delayed from the time of release. To infer the final time that the tag was clearly on the turtle, data was censored back from the first time the tag indicated release (or last transmission for lost tags) to the last time point where the maximum depth exceeded 10 m.

Turtle fate was determined based on the tag release condition. Tags released due to extreme depth or constant depth were counted as mortalities and all other releases counted as a turtle which was alive at the time of release (Figure 2). A limitation with all such data is that there is little opportunity to identify a sudden mortality event, e.g. a large shark bite or propeller strike, which both kills the turtle and releases the tag. However, we believe that most premature releases and tag losses are due to tag or attachment failure as exemplified in a particularly loss-prone batch of PAT tags in 2012 and release-prone SPLASH tags in 2014 (Table 2).

	2011	2012	2014	2015
Broken	0	4	0	1
ConstantDepth	0	2	0	0
Float	0	4	18	5
Lost	1	14	0	3
Scheduled	0	8	1	12
TooDeep	0	2	0	2
Unknown	0	2	0	0

Table 2: Inferred fate of tags deployed over the 4 tagging seasons

We estimated survival rates using Kaplan-Meier estimates (Kaplan and Meier, 1958) and compared between conditions using Cox proportional hazards models (Cox, 1972). These methods make no assumptions about the fate of turtles without inferred mortalities. Scheduled

release, lost tags or dropped tags are all treated as information that the turtle was alive at the last observation but that no further data is available.

Results

Mortalities

Over the 4 tagging-seasons, tags were deployed on 79 turtles giving 9,419 turtle-days of information (Figure 1, Table S1). We observed 6 inferred mortalilities, 4 inferred from maximum depth dives and 2 from constant depth (Figure 2).

Over all the data, 98.4% (95% confidence interval (CI): 89.1–99.8%) of turtles survived at least 30 days after tagging, 94.1% (95% CI: 82.5–98.1%) of turtles survived at least 90 days after tagging and 87% (95% CI: 73.1–94%) of turtles survived at least 360 days after tagging (Figure 3A).

Hooking location did not appear to have a significant effect on mortalities (Cox proportional hazards model score test: p = 0.46). No mortalities were observed in turtles captured without hooking (Figure 3B) but with only 8 unhooked turtles, this difference did not reach significance (p = 0.5).

Turtle selection and tagging by either observer/researcher or fishing boat crew did not have a significant effect on mortality (p = 0.96) (Figure 3C).

There were hints that the length of monofilament left on the hook could have an effect on mortality, with shorter lengths potentially linked to mortality (Figure 3D). However, the length of monofilament was known for only 15 turtles and the difference was not significant (p = 0.4).

Tag failures

There were several difficulties in tag retention in this study. Over all the data, 28% (95% CI: 19.4–39.3%) of tags detached or failed within 30 days of tagging. Further, 56.4% (95% CI: 45.6–67.9%) of tags detached or failed within 150 days of tagging and only 20.3% (95% CI: 10.1–32.9%) lasted to 360 days (Figure 4A).

Turtle selection and tagging by either observer/researcher or fishing boat crew did not have a significant effect on tag drop rate (p = 0.27) (Figure 4B).

Tag type and tagging year were highly correlated (Table 1) so precisely defining which variables might be affecting performance is difficult but SPLASH tags deployed in 2014 had a very high drop off rate (Figure 4C, 4D). SPLASH tags had a 100% failure rate with 77.8% (95% CI: 57.1–93.1%) of tags failing within 30 days of deployment. These SPLASH tags had a failure rate 9.2 (95% CI: 4.3–19.4) times higher than PAT tags.

Complete tag loss with no terminal transmission of archived data is a particular problem for PAT tags. Here, we did not receive terminal transmissions from 18 tags (Figure 5A). These losses were largely from PAT type tags (Figure 5B) but the rate of loss was not significantly different between tag types (p = 0.16).

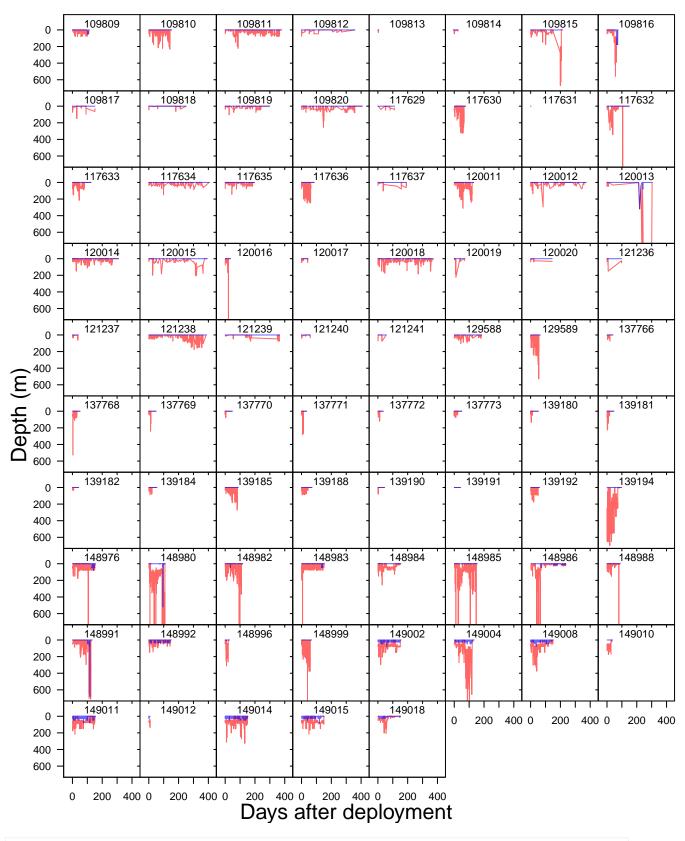


Figure 1: Minimum (blue) and maximum (red) depth reports extracted from all available tag sensors for all turtles with any records in the study. Note that some dives extend beyond the range of the plot.

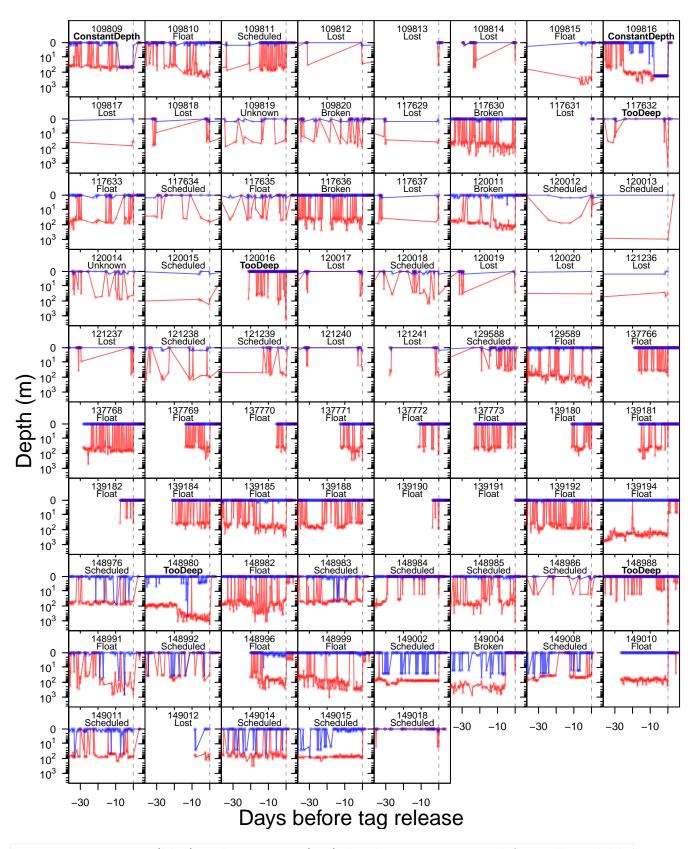


Figure 2: Minimum (blue) and maximum (red) depth reports extracted from all available tag sensors for all turtles with any records in the study in the month prior to release. Dashed line indicates inferred release time. The inferred fate for each turtle based on its tag's communications and depth profiles is indicated for each subplot. Note the log scaling on the y-axis.

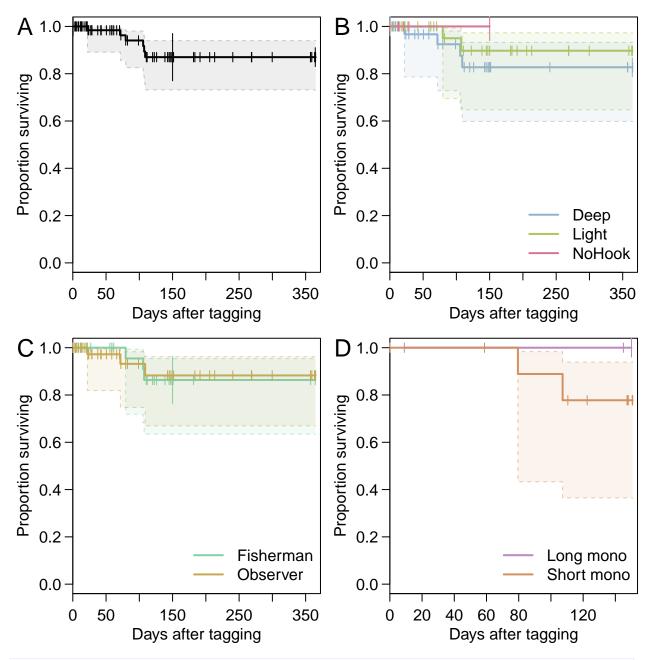


Figure 3: Kaplan-Meier curves showing the estimated proportion of turtles surviving over time for all turtles (A), deep, light or no hook turtles (B), observer or fisherman tagged turtles (C) and turtles with long (> 30 cm) or short pieces of monofilament left attached to hooks (D). Shaded regions indicate 95% confidence intervals. Lost tags, scheduled releases and tags prematurely released without dives to maximum depth or a period of constant depth are counted as censored observations (vertical dashes, scaled by the number of tags censored on that day).

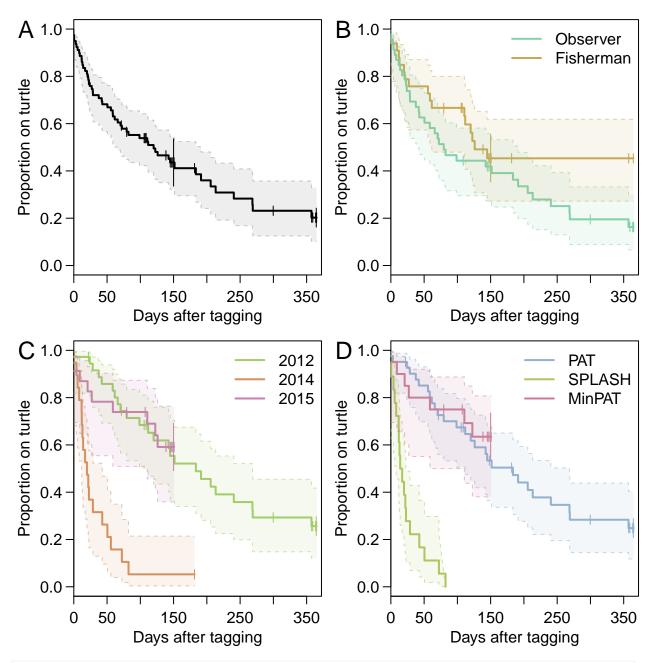


Figure 4: Kaplan-Meier curves showing the estimated proportion of tags remaining on turtles for all turtles (A), turtles split by tagging by an observer/researcher or a fisherman (B), turtles split by tagging year (C) and turtles split by tag type (D). Note that tagging year and tag type are highly correlated (Table 1). A single tag deployed in 2011 is not shown in (C). Maximum depth, constant depth and scheduled released are counted as censored observations (vertical dashes, scaled by the number of tags censored on that day).

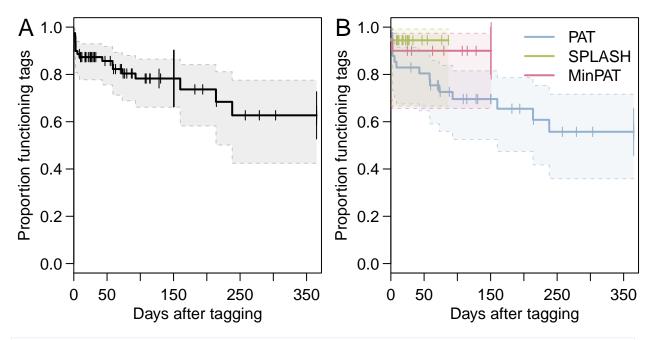


Figure 5: Kaplan-Meier curves showing the estimated proportion of tags not lost for all turtles (A) and turtles split by tag type (B). All fates other than tag loss are counted as censored observations (vertical dashes, scaled by the number of tags censored on that day). Tags were considered lost on the last day a status message was received.

Comparison with other studies

To compare with previous reports, we pulled mortality data from Sasso and Epperly (2007) and Swimmer et al. (2013) and compared to the data reported here (Figure 6A). This study's data and the data reported by Sasso and Epperly (2007) appear to be in relative agreement about mortality rates with no significant differences. However, the turtles reported by Swimmer et al. (2013) have an inferred mortality rate 5.5 (95% CI: 1.8–16.5) times higher than those reported here. This difference is largely driven by deeply hooked turtles in the Swimmer et al. (2013) data (Figure 6B) with only deeply hooked Swimmer et al. (2013) turtles significantly different than any other group.

Unfortunately, differences in methodology make these results difficult to interpret. Swimmer et al. (2013) count any moderately deep dive prior to premature tag release as a "mortality" and infer mortality in tags lost from deeply hooked turtles even when no evidence of a mortality is present and Sasso and Epperly (2007) count turtles which exhibit reduced diving prior to tag release at the surface as mortality events. Further research is necessary to determine the true fates of these turtles.

Conclusions

In this population of turtles, the mortality rate after hooking appears relatively low. We estimate that 87% of turtles survive at least 150 days after tagging. The survival rate does not appear to be related to the location of the hook in the turtle. The data hints that there

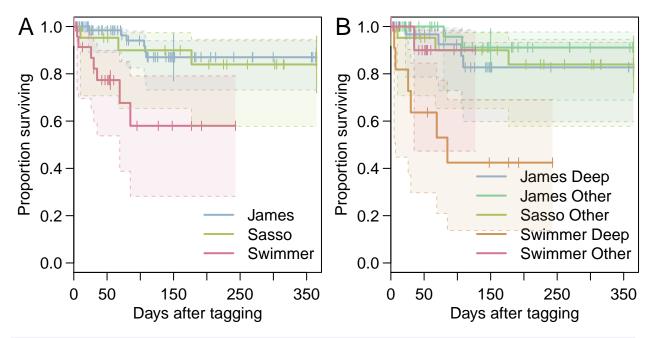


Figure 6: Kaplan-Meier curves showing the estimated proportion of turtles surviving over time for this study and data previously reported by Swimmer et al. (2013) and Sasso and Epperly (2007) (A) and for those studies broken out by hooking location (deep vs. light/shallow/unhooked) (B). Shaded regions indicate 95% confidence intervals. Lost and tags prematurely released without inferred mortality are counted as censored observations (vertical dashes, scaled by the number of tags censored on that day). The criteria for an inferred mortality differs between studies.

could be an association between mortalities and monofilament clipped at shorter lengths but no conclusions can be drawn from the current data. Since censored observations do not contribute to the statistical power to detect differential mortality (Hsieh and Lavori, 2000), the low mortality rates observed in this study suggest that further tagging is necessary if we wish to determine causes of mortality.

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Supplementary

PTT	Hook	Deploy date	Deployer	Deploy length	Fate
109813	Light	2011-08-27	Observer/researcher	3.00	Lost
109810	Deep	2012-05-01	Observer/researcher	142.50	Float
109817	Deep	2012-05-01	Observer/researcher	151.50	Lost
109820	Deep	2012-05-01	Observer/researcher	357.25	Broken
109809	Deep	2012-05-02	Observer/researcher	108.75	Constant Depth
109818	Light	2012-05-02	Observer/researcher	213.25	Lost
109819	Deep	2012-05-04	Observer/researcher	240.50	Unknown
109814	Deep	2012-05-07	Observer/researcher	24.00	Lost
109811	Light	2012-05-08	Observer/researcher	364.75	Scheduled
109812	Light	2012-05-08	Observer/researcher	268.50	Lost
120011	Deep	2012-06-14	Fisherman	120.00	Broken
117631	Deep	2012-06-14	Fisherman	0.50	Lost
120012	Deep	2012-06-14	Fisherman	357.50	Scheduled
117637	Light	2012-06-24	Observer/researcher	191.25	Lost
117636	Light	2012-07-09	Fisherman	61.50	Broken

109815	109816	Deep	2012-07-25	Observer/researcher	71.50	Constant Depth
120015 Deep 2012-08-30 Observer/researcher 66.00 Broken 117630 Light 2012-08-01 Observer/researcher 79.50 Float 120020 Deep 2012-08-09 Fisherman 144.75 Lost 120020 Deep 2012-08-09 Fisherman 144.75 Lost 120031 Light 2012-08-09 Observer/researcher 183.50 Float 120017 Light 2012-08-10 Fisherman 111.75 Lost 120018 Light 2012-08-21 Observer/researcher 42.00 Lost 120019 Light 2012-08-21 Observer/researcher 359.25 Scheduled 120013 Light 2012-08-21 Observer/researcher 299.75 Scheduled 120013 Light 2012-08-22 Fisherman 105.75 Too Deep 120014 Light 2012-08-22 Observer/researcher 269.00 Unknown 120016 Deep 2012-08-22 Fisherman 364.50 Scheduled 120016 Deep 2012-08-23 Fisherman 364.50 Scheduled 120017 Light 2012-08-24 Observer/researcher 37.50 Lost 120018 Deep 2012-08-24 Observer/researcher 37.50 Lost 121237 Deep 2012-08-24 Observer/researcher 37.50 Lost 121240 Deep 2012-08-24 Observer/researcher 38.75 Lost 121241 Deep 2012-10-04 Observer/researcher 364.50 Scheduled 121237 Light 2012-10-06 Observer/researcher 364.50 Scheduled 121238 Deep 2012-10-04 Observer/researcher 364.50 Scheduled 139184 Deep 2014-07-10 Observer/researcher 364.50 Scheduled 139184 Deep 2014-07-10 Observer/researcher 21.75 Float 139180 Deep 2014-07-13 Observer/researcher 42.75 Float 139191 Deep 2014-07-14 Observer/researcher 42.75 Float 139191 Deep 2014-07-15 Observer/researcher 42.75 Float 137778 No Hook 2014-07-17 Observer/researcher 40.0 Float 139191 Deep 2014-07-19 Observer/researcher 50.50 Float 139191 Deep 2014-07-19 Observer/researcher 50.50 Float 139192 Deep 2014-07-19 Observer/researcher 50.50 Float 139193 Light 2014-08-08 Fisherman 19.75		_		,		-
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148984 Deep 2015-08-08 Observer/researcher 147.50 Scheduled	148984	Deep	2015-08-08	Observer/researcher	147.50	Scheduled

152567	No Hook	2015-08-09	Observer/researcher	0.00	Lost
148983	Deep	2015-06-26	Fisherman	150.50	Scheduled
148976	Deep	2015-06-25	Fisherman	150.75	Scheduled
148991	Light	2015-06-25	Fisherman	122.50	Float
148986	Light	2015-06-24	Fisherman	138.50	Scheduled
148996	Light	2015-06-24	Fisherman	20.75	Float
148988	Light	2015-06-25	Fisherman	79.50	Too Deep
148999	Light	2015-06-26	Fisherman	58.75	Float
148987	Light	2015-06-26	Fisherman	0.00	Lost
148985	Light	2015-06-25	Fisherman	147.25	Scheduled
148982	Light	2015-06-26	Fisherman	110.50	Float
148980	Light	2015-06-25	Fisherman	107.25	Too Deep
149014	No Hook	2015-08-22	Fisherman	150.00	Scheduled
149012	Light	2015-08-23	Fisherman	9.00	Lost
149010	Light	2015-08-30	Fisherman	27.00	Float
149008	No Hook	2015-08-20	Fisherman	150.00	Scheduled
149002	Light	2015-08-20	Fisherman	150.00	Scheduled
149015	Deep	2015-07-23	Fisherman	150.00	Scheduled
149011	No Hook	2015-08-30	Fisherman	150.00	Scheduled

Table S1: PTT tag IDs, hooking location, deployment date, deployment length and inferred fate for all turtles in the study