Supplementary Table 3

Fate of greater amberjack inferred from depth and acceleration telemetry data. Fish, fate, rationale of the inferred fate, figure showing the final acceleration and depth data, and the time when the fate was assigned or date for recaptured fish are given. Abbreviations: Emigr. = left the receiver array before the end of the monitoring period, Move. = moved to another site with an acoustic receiver present, Shed T = shed tag.

Fish	Fate	Rationale	Fig.	Time of Fate (h) or re-capture date
04	Alive/Shed T	Shed tag confirmed from recapture by angler. Tag sheds at 161 h, after which depth values correspond to the bottom and acceleration values variation reduces markedly. Note similarity to Fish 05, 06, 07, and 11.	S1	6/5/19
05	Alive/Shed T	Shed tag inferred. Tag shed at 796 h, after which depth values correspond to the bottom (one single high acceleration value of 4.9 m/s^2 at 819 h not considered reliable). Note similarity to Fish 04, 06, 07, and 11.	S1	796
06	Alive/Shed T	Shed tag inferred. Tag shed at 654 h, after which depth values correspond to the bottom and acceleration value variation reduces markedly. Note similarity to Fish 04, 05, 07, and 11.	S1	654
07	Alive/Shed T	Shed tag inferred. Tag shed at 172 h, after which depth values correspond to the bottom and acceleration value variation reduces markedly. Note similarity to Fish 04, 05, 06, and 11.	S1	172
11	Alive/Shed T	Shed tag inferred. Tag shed at 220 h, after which depth values correspond to the bottom and acceleration value variation reduces markedly. Note similarity to Fish 04, 05, 06, and 07.	S1	220
12	Alive	Appears alive through the end of tag transmission at 1284 h. Note oscillation of acceleration values and depths during the last 5 days of transmission.	S1	1284
13	Alive/Emigr.	Appears alive until fish leaves acoustic array. Note steady oscillation of acceleration values and depths until the last detected transmission.	S1	236
16	Alive/Emigr.	Appears alive until fish leaves acoustic array. Fish was outside of detection range for several hours around140 and 160 h. Note steady oscillation of acceleration values and depths until the last detected transmission.	S1	188
17	Alive/Shed T	Shed tag inferred. Tag shed at 66 h, after which depth values correspond to the bottom and acceleration values and variation reduced markedly. Note similarity to Fish 20 and 21.	S1	66
19	Alive/Emigr.	Appears alive until fish leaves acoustic array. Fish was outside of detection range for several hours around140 and 160 h. Note steady oscillation of acceleration values and depths until the last detected transmission.	S1	260
20	Alive/Shed T	Shed tag inferred. Tag shed at 142 h, after which depth values correspond to the bottom and acceleration values and variation reduced markedly. Note similarity to Fish 17 and 21.	S1	142
21	Alive/Shed T	Shed tag confirmed from recapture by angler. Tag shed at 48 h, after which depth values correspond to the bottom and acceleration values and variation reduced markedly. Note similarity to Fish 17 and 20.	S1	6/5/19
24	Alive	Appears alive through the end of tag transmission. Note a gap in detections between 1200-1280 h, but otherwise steady oscillation of acceleration values and depths until the last detected transmission.	SS	1342
25	Alive/Emigr.	Appears alive until fish leaves acoustic array. Note gap in detections between 500-510 h. Note otherwise steady oscillation of acceleration values and depths until the last detected transmission.	S3	548
26	Alive	Appears alive through the end of tag transmission (confirmed by a recapture later). Note ~10 hour gap in detections around 1250 h, but otherwise steady oscillation of acceleration values and depths until the last detected transmission.	S3	1/6/20
28	Alive	Appears alive through the end of tag transmission (confirmed by a recapture later). Note steady oscillation of acceleration values and depths until the last detected transmission.	S3	8/2/19
32	Alive	Appears alive through the end of tag transmission. Note ~10 hour gaps in detection around 930, 960, and 1005 h, but otherwise steady oscillation of acceleration values and depths until the last detected transmission.	S3	1031
33	Alive	Appears alive through the end of tag transmission. Note ~10 hour gaps in detection around 960 and 1005 h, but otherwise steady oscillation of acceleration values and depths until the last detected transmission.	S3	1031
34	Alive/Emigr.	Appears alive until fish leaves acoustic array. Note steady oscillation of acceleration values and depths until the last detected transmission.	S4	435

Supplementary Table 3 *continued.*

Fish	Fate	Rationale	Fig.	Time of Fate (h) or re-capture date
35	Alive/Move.	Inferred to have remained alive until the end of tag transmission. Note ~10 hour gaps in detection around 980 and 1000 h, but otherwise steady oscillation of acceleration values and depths until the last detected transmission.	S2	1027
36	Alive	Appears alive through the end of tag transmission. Note ~10 hour gaps in detection around 930 and 960 h, but otherwise steady oscillation of acceleration values and depths until the last detected transmission.	S2	1030
37	Alive/Emigr.	Appears alive until fish leaves acoustic array. Note several hour gap around 375 h, but otherwise steady oscillation of acceleration values and depths until the last detected transmission.	S2	1030
38	Alive/Emigr.	Appears alive until fish leaves acoustic array.	S2	932
39	Alive/Emigr.	Appears alive until fish leaves acoustic array.	S2	937
40	Alive	Appears alive through the end of tag transmission (confirmed by a recapture later).	S2	5/24/20
41	Alive	Appears alive through the end of tag transmission.	S2	1010
42	Alive/Emigr.	Appears alive until fish leaves acoustic array.	S2	931
43	Alive	Appears alive through the end of tag transmission. Note ~10 hour gaps in detection around 905, 926, 950, and 975 h, but otherwise steady oscillation of acceleration values and depths until the last detected transmission.	S2	1003
44	Alive/Emigr.	Appears alive until fish leaves acoustic array. Note several hour gaps in detection around hour 260, but otherwise steady oscillation of acceleration values and depths until the last detected transmission.	S2	305
45	Alive	Appears alive through the end of tag transmission. Note ~10 hour gaps in detection around 900 and 925 h, but otherwise steady oscillation of acceleration values and depths until the last detected transmission.	S2	998
49	Alive/Move./ Emigr.	Inferred to have remained alive at least until emigrating away from the array.	S2	671
52	Alive	Appears alive through the end of tag transmission.	S2	1056
53	Alive/Move./ Emigr.	Inferred to have remained alive at least until emigrating away from the array.	S2	865
56	Alive	Appears alive through the end of tag transmission. Note ~10 hour gaps in detection around 960 and 980 h, but otherwise steady oscillation of acceleration values and depths until the last detected transmission.	S2	767
57	Alive	Appears alive through the end of tag transmission.	S2	1056
58	Alive	Appears alive through the end of tag transmission.	S2	1056
59	Alive	Appears alive through the end of tag transmission.	S2	1055
104	Alive/Emigr.	Appears alive until fish leaves acoustic array.	S2	646
105	Alive	Appears alive through the end of tag transmission. Note ~35 hour gaps in detection around 980 h, but otherwise steady oscillation of acceleration values and depths until the last detected transmission.	S2	1054
106	Alive	Appears alive through the end of tag transmission. Note ~10 hour gaps in detection around 950, 980, and 1000 h, but otherwise steady oscillation of acceleration values and depths until the last detected transmission.	S2	1054
107	Alive/Emigr.	Appears alive until fish leaves acoustic array. Note the ~20 hour gap around from around 620-640 h, but otherwise steady oscillation of acceleration values and depths until the last detected transmission.	S2	917
108	Alive/Move.	Appears alive through the end of tag transmission. Note ~10 hour gaps in detection around 1000 and 1025 h, but otherwise steady oscillation of acceleration values and depths until the last detected transmission.	S2	1053
109	Alive/Move.	Appears alive through the end of tag transmission.	S2	1054
111	Alive/Move./ Emigr.	Appears alive until fish leaves acoustic array. Note ~10 hour gaps in detection around 580 and 650 h, but otherwise steady oscillation of acceleration values and depths until the last detected transmission.	S2	661
113	Alive/Emigr.	Appears alive until fish leaves acoustic array.	S2	179
114	Alive/Move.	Appears alive through the end of tag transmission.	S2	1047
116	Alive/Emigr.	Appears alive until fish leaves acoustic array. Note ~10 hour gaps in detection around 1000 and 1025 h, but otherwise steady oscillation of acceleration values and depths until the last detected transmission.	S2	586