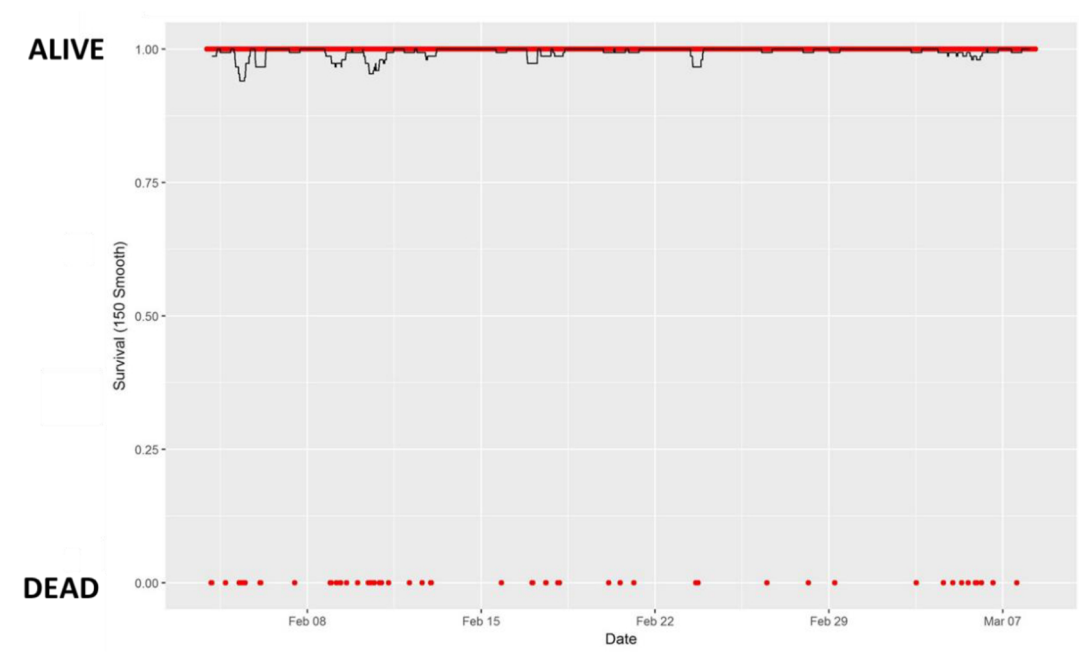
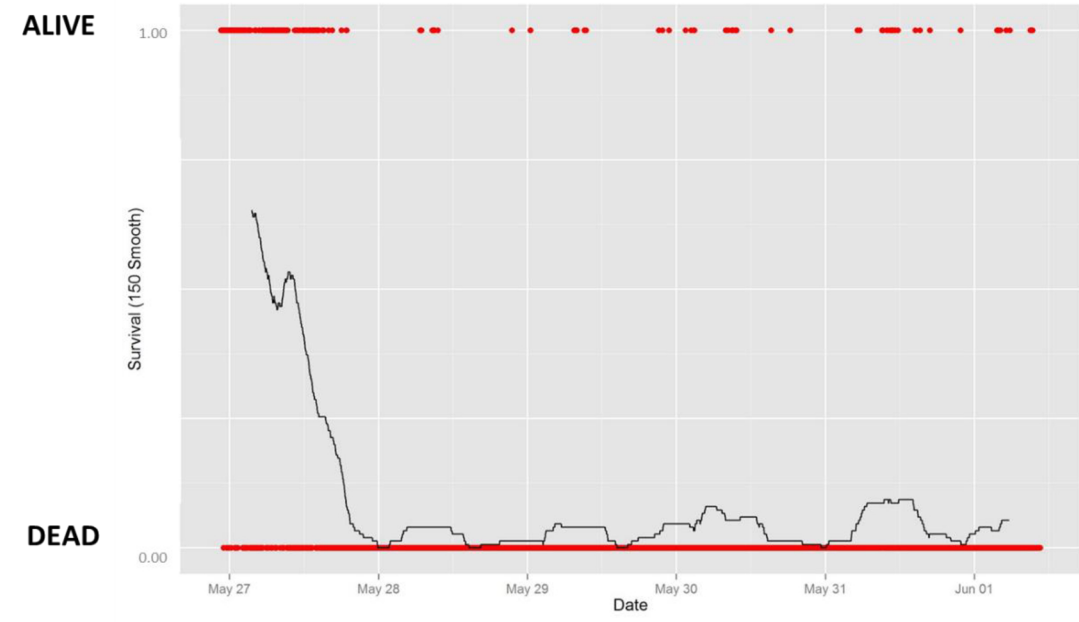
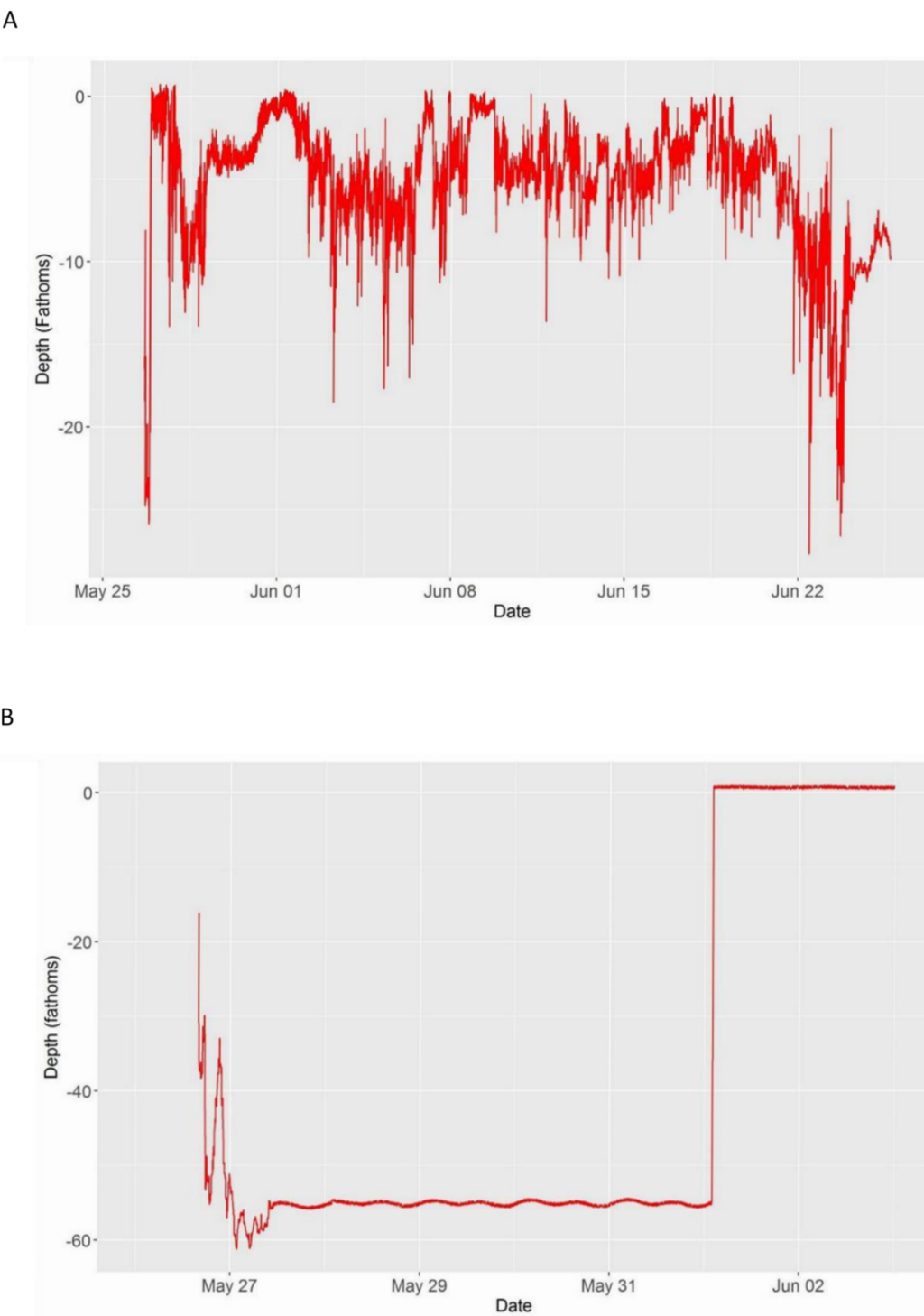
A



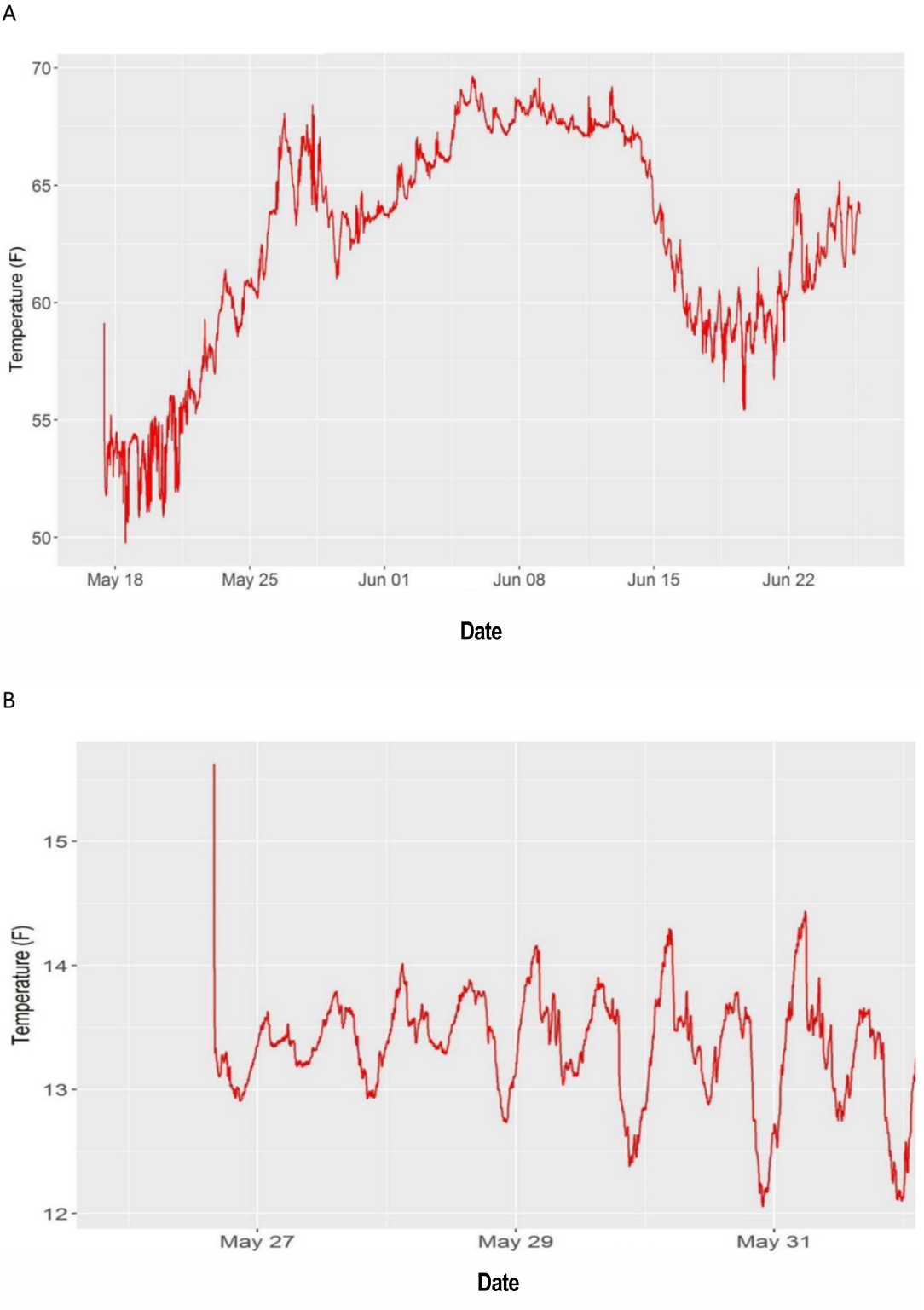
B



Supplementary Figure 1. Accelerometer classification examples. (**A**) An example of classifications based on accelerometer data collected during 1 February–14 March 2016 for a green sturgeon (*Acipenser medirostris*) that survived capture as bycatch in the bottom-trawl fishery that targets California halibut (*Paralichthys californicus*) in nearshore waters of the Pacific Ocean just west of the San Francisco Bay Delta. (**B**) An example of accelerometer classifications during 27 May–2 June 2015 for a captured green sturgeon determined to be a mortality. Red points indicate accelerometer readings for fish classified as alive versus dead at any given time. The black line in each graph indicates the smoothed version of the accelerometer readings.



Supplementary Figure 2. Depth reading examples. (**A**) An example of depth data, for the period 27 May–25 June 2015, from a pop-up satellite archival tag deployed on a green sturgeon (*Acipenser medirostris*) that survived capture as bycatch in the bottom-trawl fishery that targets California halibut (*Paralichthys californicus*) in nearshore waters of the Pacific Ocean just west of the San Francisco Bay Delta. (**B**) An example of depth data, for the period 27 May–23 June 2015, from a tag deployed on a captured green sturgeon determined to be a mortality, displaying that the tagged sturgeon was alive initially, the fish died shortly after release, and the tag detached 1 June.



Supplementary Figure 3. Temperature reading examples. (**A**) An example of temperature data for the period 17 May–25 June 2015, from a pop-up satellite archival tag deployed on a green sturgeon (*Acipenser medirostris*) that survived capture as bycatch in the bottom-trawl fishery that targets California halibut (*Paralichthys californicus*) in nearshore waters of the Pacific Ocean just west of the San Francisco Bay Delta. (**B**) An example of temperature data, for the period 26 May–1 June 2015, from a tag deployed on a captured green sturgeon determined to be a mortality.