



PSAT Series

Technology:  Archival

Product:  Tag

Sailfish (*Istiophorus platypterus*) © The Billfish Research Project 2014



Pop-up Satellite Archival Tag

The Lotek PSAT family of Pop-up Satellite Archival Tags are designed with a focus on reliability, longevity and ease of use.

Options

- The Lotek PSATGEO and PSATLIFE tags provide daily locations throughout the deployment period by sending on-board processed light geolocation position estimates, not raw light data. In addition to the position estimates, these tag provide other daily summary data including temperature, SST and depth.
- PSATLIFE is designed for short-term post-release survivorship studies of non target species by-catch and other studies requiring short term records of pressure and temperature.
- PSATFLEX can be configured for short or long term studies, with the chosen sensors sampled at a user-defined interval.

Features:



Temperature



Depth



Light



Wet/dry sensor

Low drag, stable design:

For maximum retention and minimum impact to the study animal

Constant depth function:

Releases the tag from the study animal if it sinks to the bottom or floats to the surface to allow data transmission.

Wet-start function:

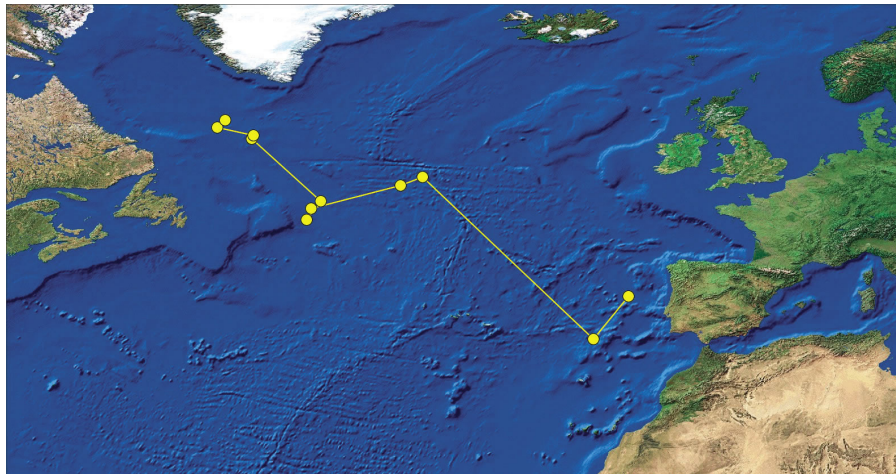
For ease of deployment.

Product Applications

Post-release survivorship, long distance migration studies

Model	PSATGEO	PSATLIFE	PSATFLEX
Weight (g)	87	87	87
Life (Days)	365	28	365
Size (mm)	131 x 42	131 x 42	131 x 42

Features and specifications subject to change without notice.



Filtered 3 month PSAT track of an Atlantic bluefin tuna from Spain to the Labrador Sea.
(Filter set to 2° of latitude and 1° of longitude)

Technical specifications:

Memory: 8MB
 Operating temperature range: -5 °C to 60 °C
 Buoyancy: 8g
 Constant depth release: none, 3 day / 5m, 3 day / 15m
 (PSATGEO and PSATLIFE) 0-max depth for 0-999 days
 (PSATFLEX)
 Clock accuracy: Better than 2 mins per year

Standard sensors:

Wet/dry sensor, External temperature, Depth, Light
 Temperature sensor range: -10 °C to 45 °C
 Temperature sensor accuracy: +/- 0.2 °C
 Temperature sensor resolution: 0.05 °C
 Depth sensor ranges: 500m, 1000m, 2000m
 Depth sensor accuracy: ±1% of Full Scale
 Depth sensor resolution: 0.05% of Full Scale

Warranty

PSAT tags are warranted to be free of defects in materials and workmanship under Normal Use for a duration of 50% of Estimated Life to a Maximum of 12 months. For Warranty terms and conditions, please review our [Warranty Statement](#).