



AVIAN



TERRESTRIAL



MARINE



FRESHWATER



Pop-up Satellite Archival Tag

The Lotek PSAT family of Pop-up Satellite Archival Tags are designed to maximise throughput of location data combined with reliability, longevity and ease of use.

Options

- The Lotek **PSATGEO** tags implement Lotek's proprietary template-fit algorithm which calculates the light geolocation position estimates onboard the tag. This allows a complete daily snapshot to be transmitted in a single Argos transmission which significantly increases the probability of receiving data for each day of the scheduled deployment.
- PSATLIFE** tags are targeted at short to medium term post-release survival studies, or other studies requiring detailed time-series depth and temperature records.
- PSATFLEX** tags offer full customisation of the data collection, deployment duration and data transmission to meet the requirements of any study.

Features:



Temperature



Depth



Light



Wet/dry sensor



Data download
(Satellite)

Low drag, stable design:

Maximises retention duration and minimises impact on the study animal.

Inactivity Release:

Monitors depth to determine if the tag is lying on the seabed or floating at the surface and then releases and transmits the onboard data.

Wet-start function:

Offers ease of deployment.

Product Applications

PSATGEO – long distance migration studies using light-geolocation.

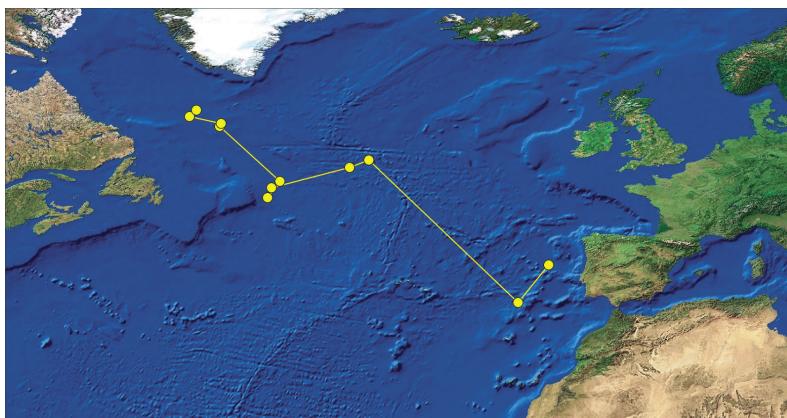
PSATLIFE – studies investigating post-release survival in recreational fisheries and bycatch of non-target species in commercial fisheries

PSATFLEX – tailored configuration for any suitable study.



Model	Depth Rating: 500m/1000m			Depth Rating: 2000m		
	Weight (g)	Duration (days)	Size (mm)	Weight (g)	Duration (days)	Size (mm)
PSATGEO	87	120/240/365	127 x 42	101	120/240/365	130 x 42
PSATLIFE	87	14/28/53/85	127 x 42	101	14/28/53/85	130 x 42
PSATFLEX	87	up to 365	127 x 42	101	up to 365	130 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: minimum 8g

Inactivity Release:

- GEO/LIFE: none, 3 day / 6m, 3 day / 16m
- FLEX: 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 warrantied 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](#).

