





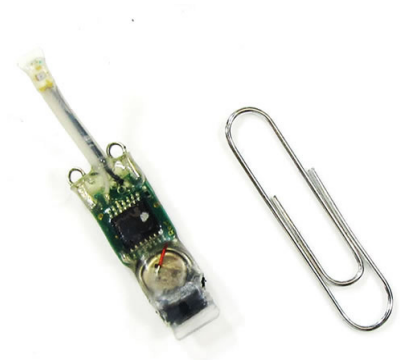
# MK Geolocators for birds

Technology:  Archival

Product:  Tag



Snow bunting (*Plectrophenax nivalis*) © Christie Macdonald 2018



## Migration logs for small birds and seabirds

When you want to discover where small birds migrate to, geolocators provide a solution. Primarily used for species too small for our PinPoint GPS, or species where legmounts are safer for birds than harness-mounted backpacks.

Our miniature light-level geolocator tags record light levels against time which can be processed to give latitude and longitude. Although not as accurate as GPS or ARGOS, this method allows a much smaller and cheaper device that can record for a long time. For seabirds, logging of wet/dry information and sea surface temperature can also be included. The wet/dry recording has been developed to measure the activity of the birds, and the temperature information can be correlated with satellite recorded sea-surface temperatures to improve location accuracy. Designed and developed by engineers at the British Antarctic Survey.

## Options

- Sensors: Light, wet/dry and temperature
- Internal or stalked light sensor, stalk length and angle, harness tubes and loops.

### Features:



Temperature



Light



Wet/dry sensor



Position

### Long Legacy:

Used successfully in hundreds of projects

### Small Size:

Compared to GPS and PTT tags

### Global Coverage:

Works anywhere in the world where the tag is exposed to the sky

## Product Applications

Geolocators require exposure to daylight, which is important when considering whether this is appropriate for your species. E.g. when individuals use dark cavities or areas with heavy canopy, the light records can be erratic, and this can be very difficult to analyse.

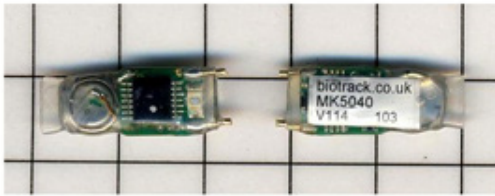
This may only happen in periods when you you know their location, e.g. birds breeding in nestboxes may not use cavities when they are on non-breeding grounds.

### Aquatic geolocators

For species associated with water

#### MK5... family (0.75g – 1.2g)

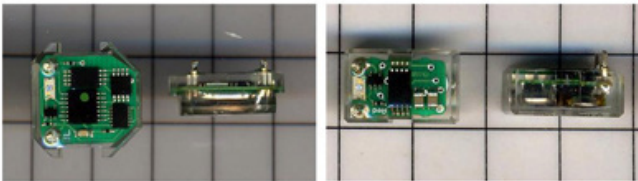
Legmount for waders & shallow divers



Expected life 1 - 3 years (model dependent)

#### MK3... family (2.5 g) MK4... family (1.5-2.0 g)

Deep-diving and larger waterbirds



Expected life 2 - 5 years (model dependent)

### Terrestrial geolocators

For species that do not go in water

#### ML6/MK6... family (0.39-1.0 g)

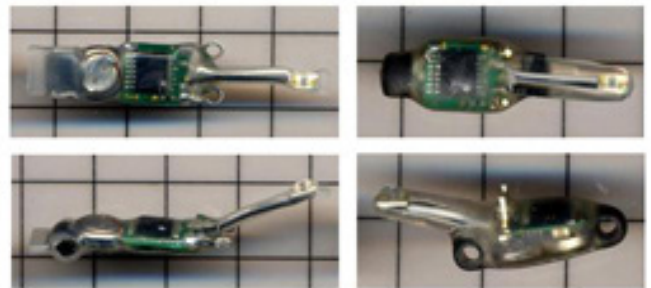
Small bird backpacks



Expected life 9 - 24 months (model dependent)

#### MK5... family & MK7... family (0.75g – 2.0g)

Larger more rugged tags



Expected life 10 - 24 months (model dependent)

There are a great variety of options to consider, including what is recorded, how the tags are mounted on the birds, how robust they need to be and how to ensure the light sensors are not obscured by feathers. It is impossible to show all models on one sheet, so please contact one of our Telemetry Specialists to discuss your needs.

### Warranty

A Limited Warranty will be provided for tags that fail during the Warranty Life and are returned to Lotek. A charge for data download may be applicable. A Full Warranty (additional cost per order) will be provided if x% of recovered tags have failed within the Warranty

Life and are returned to Lotek, the equivalent x% of the entire order will be replaced, provided a minimum of the greater of 10% or 10 tags are returned for evaluation. For Warranty terms and conditions, please review our [Warranty Statement](#).