



# Tellus Elephant GPS collars

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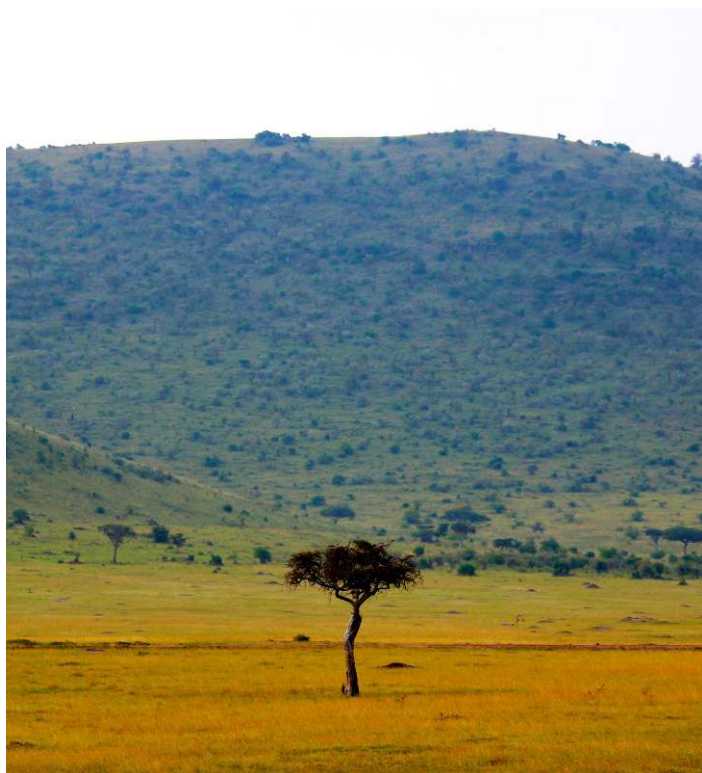
*Followit GPS collars are designed to optimize research possibilities while ensuring animal welfare. With a team of specialists developing and manufacturing telemetry equipment since 1974, all collars are custom designed to meet customer specifications. Our innovative collar design minimizes weight without compromising performance, battery life or data collection.*

*Collar and data management is achieved through Followit Geo™, a web based application, allowing for two-way communication with Iridium collars. This program allows the user to view location data, adjust position and VHF schedules, create virtual fencing and monitor battery performance. Followit's Geo™ application is accessible from all web enabled devices including personal computers, tablets or smart-phones.*

## Tellus Elephant GPS collar

The Tellus Elephant collar incorporates the most recent technological advances resulting in reduced collar weight, operational flexibility, increased performance and improved reliability. This collar has an exceptional track record of providing accurate GPS positions and battery performance in harsh environments.

The most basic collar available is the Tellus Elephant Basic GPS collar which includes on-board data storage and UHF (radio) download capability.



Collar options include a built-in VHF transmitter which can be used for tracking/locating. This VHF beacon also has the functionality of switching to recovery mode when the battery power is low or if the collar has entered mortality mode. Additional information including temperature, mortality alerts and activity data are stored on-board with the position data and can be downloaded upon retrieval. A computer software package, Tellus Project Manager (TPM), is used by the customer to program collar functions as well as for downloading data from store-on-board collars.



## The Tellus Elephant collar design

The Tellus Elephant GPS still have the best features of earlier designs but have also evolved to accommodate advances in technology, customer requests and suggestions for improvements. Design highlights include:

- Premium quality collar that is both strong and animal friendly.
- Belting width 95 mm
- Belting length customized per request, adjustable by user +/- 10%
- Efficient design including protected USB port and a magnetically operated on/off-switch
- Counterweight mounted at the bottom for optimal GPS/Iridium reception.

## The Tellus Elephant Basic key features

- Remote download in the field via UHF download
- Upgrade of most Tellus Elephant Basic store-on-board collars with remote data download options
- User designated GPS and radio beacon (VHF) schedules provides flexibility
- High number of positions in relation to battery capacity
- Temperature, movement and mortality sensors
- Stable digital VHF frequency transmitter in a wide temperature range

## Upgrades and download option

The satellite download option utilizes the Iridium satellite system. This system uses a two-way e-mail communication procedure between the GPS collar and the user via a secure computer server. Key features include worldwide data download coverage, data upload reliability and fast transfer rates. The GPS positions are forwarded to the user via e-mail and GPS positions can be taken anywhere and be delivered in just a few minutes without the use of specialized equipment. GPS collars can be reprogrammed to adapt to changes in the project. This download option is a cost effective solution that should be considered for projects in remote areas. The satellite option requires a monthly subscription fee.



## Information received from the collars

Although the collars have remote download functions, every position will also be stored on board. The memory capacity is sufficient enough for each collar and all data is recoverable even if the collar batteries have been completely depleted. The stored data includes date, time, altitude, latitude, longitude, activity data, mortality, ambient temperature, number of satellites used, position accuracy (2D/3D), HDOP value and time to fix (TTF).

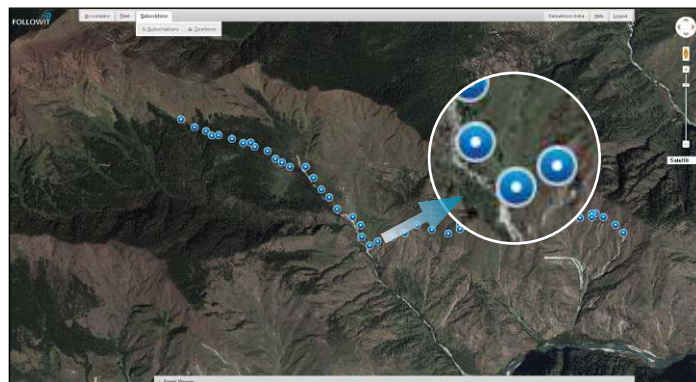
## Getting started and technical support

When you receive your collar(s), it will need to be programmed ahead of deployment. The Tellus Project Manager (TPM) software is used to set parameters such as:

- Number of positions per day
- VHF schedule
- Data upload schedule
- Mortality

A battery calculator can be requested and used to estimate expected collar life span based on user settings (e.g. number of positions and data uploads).

Our support and service center is available to answer questions, provide support and to receive feedback or suggestions.





## Product specifications

### Output

GPS receiver 33 tracking + 99 acquisitions

UHF download

IRIDIUM (satellite) download

2-way communication <sup>1</sup>

Programmable by software TPM <sup>2</sup>

Virtual fence (GEO fence)

Map projection WGS-84, RT90 or UTM

VHF beacon (customer specified 138-232 MHz)

Mortality sensor

Activity sensor

Recovery mode indicator

Back-up battery

Temperature range of operation -25°C to +50°C

Memory capacity > 80'000 positions

Reinforced belting included in the price

Internal antennas

Approximately number of positions-Iridium <sup>3</sup>

Collar weight (g)

Belting width (mm)

Belting length customized per request (adjustable +/- 10%)

Date, Time, Latitude/Longitude or UTM, Altitude, 2D/3D,  
Number of satellites, H-DOP, TTF (time to fix), Activity,  
Temperature, Mortality notification



< 45.000

> 12 kg

95 mm



<sup>1</sup> Flexible GPS-schedule changes from the website (Followit GEO™) on Iridium collars

<sup>2</sup> TPM requires Microsoft Windows

<sup>3</sup> Max positions based on: Open land, one position every half hour, +20°C, one hour of VHF beacon/day and 11 positions/message



Scan the QR-code to visit our website.

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