

Collars Remote Drop-Off

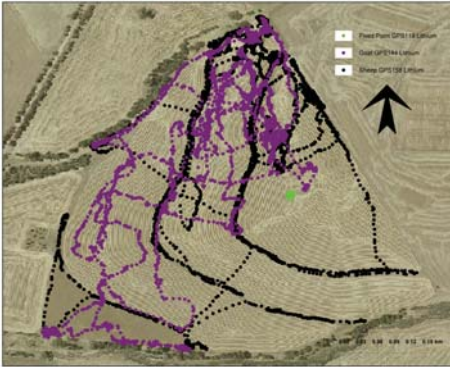


- **DropTraX** is a highly innovative remote release mechanism designed to allow small to large size collars to be released from the study animal without human intervention.
- **DropTraX** is unique in the field of wildlife biology requiring no moving parts.
- Programmable by the biologist to drop off on demand or at a prescribed time.
- Programmable via **DataTraX** software. No need for additional software, computer cables etc.
- Operational life 2-5 years depending on battery chosen.
- Weights starting from 50g depending on battery chosen.
- Will hold temporary strain varying from 50Kg to 150kg depending on model chosen.
- From 50mm x 20mm x 20mm.
- One use only. Replacements can be easily fitted by the user for repeated deployment of the collar. Used units can be discarded or returned to BlueSky Telemetry for refurbishment.
- **DropTraX** can be retro-fitted to any collar currently in the field or on the market. Please call for further information.
- Non mechanical and therefore cannot be damaged by dust, debris or water penetration.
- Non-explosive and therefore no restrictions on carriage. Transport via regular parcel post.



Accessories - Improving the performance of research

Goat-Sheep Data (Lithium Batteries) - 24 Hour Trial



Ambient Temperature Sensor

The collars can be ordered with the ability to record the ambient temperature. Each time a GPS location is obtained, the ambient temperature is recorded and which is accurate to 0.1°C. This is ideally suited to environmental studies of animals for example in how an animal uses shade in particularly hot climates

Inclinometers

The collars can also be ordered with the ability to record the angle of an animal's head. The inclinometers record the position of the head in the pitch and roll planes and are accurate to $\pm 4^\circ$. These sensors are particularly helpful to determine the activity of some animals particularly the feeding behaviour of grazing herbivores. Once calibrated the sensors can record whether an animal has its head down and therefore perhaps grazing. Calibration can be visually verified using the **DataTraX** software which can present the data recorded in real time.

RINEX Data Output

The GPS collars provided by BlueSky Telemetry are highly accurate in standard mode with accuracies better than 2.5m in most cases. However, all BlueSky Telemetry collars have the ability to output the GPS data in RINEX format which allows the data to be post-processed differentially corrected to improve accuracy further. The use of RINEX will improve the accuracy of the collars by approximately 30% but has a cost in terms of data quantity - instead of a maximum of 65,000 locations, only 4,000 locations can be collected. When RINEX data is chosen when using the **DataTraX** software, two files are created on board the collar - the standard output file and a RINEX file. The user can therefore immediately check the validity of their data before carrying out differential correction on the RINEX file. BlueSky Telemetry recommends the Gringo software <<http://www.nottingham.ac.uk/iessg/gringo/>> provided by Nottingham University in England. RINEX is not available on the **CellTraX** collars.

HearTraX - heart rate monitoring

BlueSky Telemetry's **HearTraX** will enable the scientist to record the heart rate (beats per minute) of a terrestrial mammal fitted with any BlueSky Telemetry collar.

AudioTraX - audio recording of animal's behaviour

BlueSky Telemetry's **AudioTraX** will record the audio signature of any noise that could be important in behavioural studies. For example, the potential to record the audio signature of a biting event could be recorded as could breathing and other activities such as rumination. It could also be used to record events exterior to the animal such as gun shots or low flying jets.



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