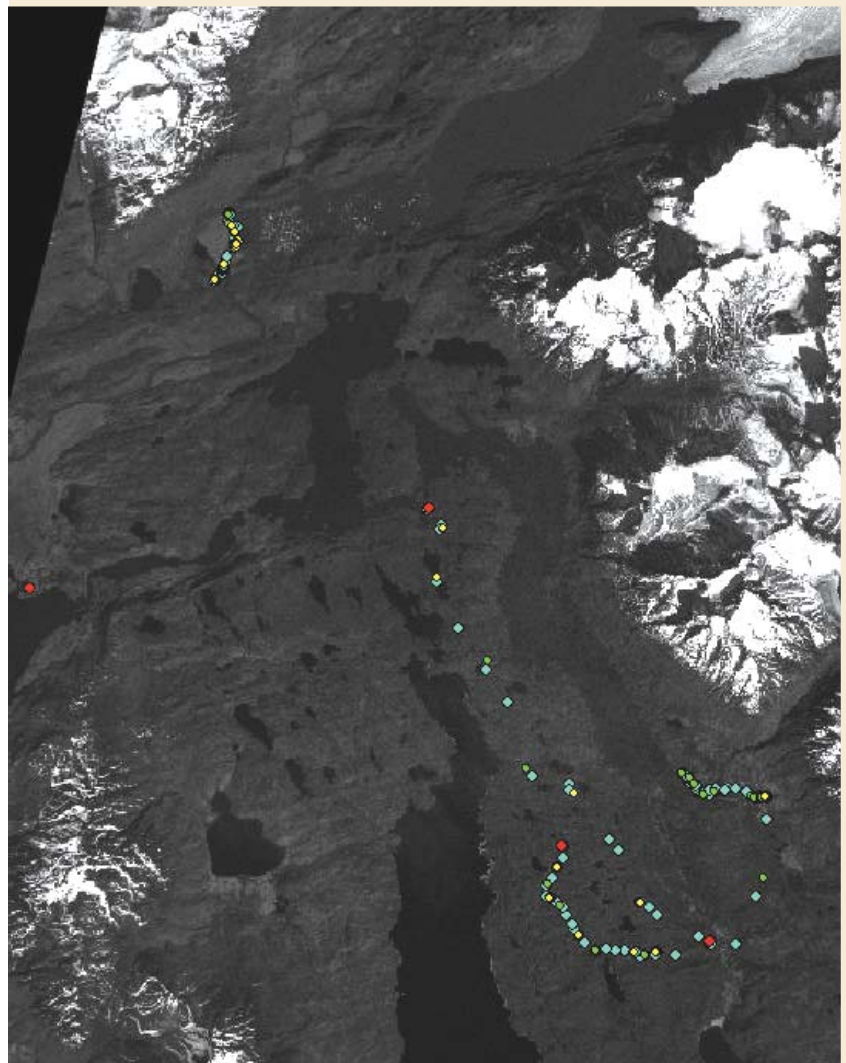


Collars

Innovation in the field



- **WildTraX** collars use wireless communication for setup and downloading data. Wireless communication can be achieved over distances ranging up to 2000m in the field.
- Data download is fast. Ten locations are downloaded each second in "Position" mode and contact time with the animal can therefore be minimized. For example, one month of data collected at 1 hour intervals will be downloaded in <8 seconds.
- Communication with the collar is not interrupted while the GPS receiver obtains a location.
- The collar can be interrogated at any time to confirm and/or change settings and obtain a visual confirmation that valid GPS location data are being collected.
- The V/UHF Transmitting (Tracking) Beacon can be separately programmed to be on for limited periods of the day and the pulse rate can also be varied. Both features enable considerable savings in battery power. The V/UHF Tracking Beacon will always remain active even after the GPS receiver has stopped drawing energy. The length of time the beacon remains active can also be programmed.
- Similarly, the V/UHF Receiver in the collar can also be programmed to be active for specific time periods and the return pulse rate can also be varied in length.





Large WildTraX Collar specifications

Dimensions of Housing (W, L, H)	Including L6 Power Pack 95mm x 51mm x 30mm Including L12 Power Pack 95mm x 51mm x 54mm Including L18 Power Pack 95mm x 51mm x 63mm
Mass (excluding harness) Smallest harness starts at 180g	With L6 lithium power pack: 470g With L12 lithium power pack: 590g With L18 lithium power pack: 720g
Power Packs	L6 power pack: 6 AA 1.5V batteries L12 power pack: 12 AA 1.5V batteries L18 power pack: 18 AA 1.5V batteries
Recommended Battery	Energizer Lithium e2, Duracell Ultra or Rechargeable
Setup & Data Download	Using embedded UHF radio modem Separately scheduled to be on when required Setup and download over distances up to 2000m
Tracking Beacon	10 separate frequencies available Separately scheduled to be on when required Tracking ability over 6000m
Battery life and memory capacity	1MB Flash Memory that can store up to 65,000 positional locations or 4000 RINEX data locations. The number of locations that can be collected is independent on battery capacity which in itself is dependent on the tracking schedule selected, the configuration of the satellites and their visibility to the collar. In the best case scenario, the GPS receiver determines a location within 4 seconds although the average time taken to obtain a location is 30s. Best and worst case scenarios presented.

Values are for lithium batteries

	L6 Power Pack	L12 Power Pack	L18 Power Pack
144 fixes / day	2,600-12,500 locations over 18-87 days	6,900-34,100 locations over 48-232 days	7,800-37,500 locations over 54-261 days
24 fixes / day	2,100-5,700 locations over 87-238 days	5,500-15,200 locations over 232-635 days	6,300-17,100 locations over 261-714 days
6 fixes / day	1,200-1900 locations over 203-322 days	3,200-5,200 locations over 541-860 days	3,600-5,800 locations over 609-967 days

Schedule Options	1. Simple: One location/second through to one location/day. 2. Complex: Same as above but with diurnal and seasonal variation possible. 3. Real: Locations obtained at pre-programmed real times
Data Form	Date, Time, Latitude, Longitude (WGS 84), Nos satellites, Accuracy.
RINEX	RINEX output for differential correction
Activation	Collar setup and data download using BlueSky Telemetry™ DataTrax™ software.
Operating Temp	-40°C to + 54°C Depends on batteries used.
Data Retention Range	-40°C to 60°C
Suitability	Any terrestrial animal > 20Kg body mass
Additional options available	Temperature, mortality, head up and head down activity sensors and RINEX data suitable for post processing differential correction (purchase of GRINGO software required for differential correction).



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