

# LOTEK

## GPS Collars with Satellite Communications

### Bring Clarity to Your Applications

- ▶ Transmission line or highway corridors impacts
- ▶ Forestry treatment impacts
- ▶ Sibling or conspecific interactions
- ▶ Sensitive area delineation
- ▶ Predation efficiency
- ▶ Pack or herd coherence and behaviour
- ▶ Human / wildlife conflicts & interactions

**Iridium satellite modem**  
2-way communication

**Globalstar satellite modem**  
One-way communication

### Other Satellite Options

- Unidirectional transmitter
- ▶ ARGOS PTT



*Photo courtesy of Rick Rosatte*

## Iridium Track Collars

- Global communication coverage 24 hours per day
- Significantly reduced data transfer costs: up to 50% less than ARGOS
- Upload schedules / download data, alerts & diagnostics
- Real-time access to data
- Mortality alerts and Geofence alarms
- Proximity sensing
- Very long battery life

## Proximity Sensing

A two part system with GPS collars as monitors and UHF ID transmitters as triggers. UHF ID transmitters, within 100 meters of the GPS monitor, are recorded by the monitor that increases GPS sampling as long as the ID tag is present.

- 50,000 unique ID tags possible – you'll never run out
- No identity issues – up to 200 IDs in view of master at a time
- Data transmitted by Iridium
- Schedules may be altered using Iridium

## Geofencing

Geofencing uses polygons and associated GPS schedules to define areas of interest and their use.

- Google Earth or the lat and long of each polygon corner defines the area
- Automatic GPS schedule changes for ingress / egress of Geofenced areas
- Unlimited schedule possibilities using multiple polygons & schedules
- Alerts via satellite of animal ingress / egress of a Geofenced area

## Globalstar Track Collars

- Significantly reduced data transfer costs
- Mortality alerts and Geofence alarms
- Capable of real-time access to data
- Broad range of collar sizes from 450 grams

## Standard Features

- ✓ Separately powered VHF beacon with mortality sensor
- ✓ Activity / Motion sensing via Accelerometers
- ✓ Temperature sensor
- ✓ Geofencing (GSM, Iridium, Globalstar)
- ✓ Proximity sensing
- ✓ Store on Board capability
- ✓ Remote release compatibility
- ✓ Extremely flexible scheduling

**LOTEK**  
WIRELESS  
FISH & WILDLIFE MONITORING

[www.lotek.com](http://www.lotek.com)

*Photo courtesy of Kent Whaley, NW Region, Manitoba Conservation*