

**Polaris Avian Instruments**

# GPS GSM & Tiny GPS Argos (2-Way) Tags

A new generation of intelligent wildlife tracking and monitoring devices

North Star, in collaboration with Druid Technologies, offers new devices with built-in GPS modules, sensors, and wireless communication (Argos, GSM, Long Range Bluetooth) that can be deployed on various animals, primarily birds. They are capable of:

- Collecting location-based data (GPS—including heading, altitude, and speed)
- Collecting environmental data (ENV data)
- Collecting animal behavior data (BHV data)
- Data Boost Programming to add more locations while bird is flying

## 6.4 GRAM SOLAR GPS/ARGOS 2-WAY UNIT

**AERODYNAMIC BACKPACK DESIGNS FOR BIRDS, INCLUDING ELEVATED SOLAR PANELS**

**INTERNAL ANTENNAS (ON MOST UNITS)**

**56 CHANNEL GPS RECEIVER; +/- 5m ACCURACY**

**GSM TRANSCEIVER 2G/3G GLOBAL ROAMING CELLULAR NETWORK/SMS/GPRS**

- 2G: GSM/GPRS at 850/900/1800/1900 MHz, with maximum uplink/downlink data rate of 85.6 kbps/85.6 kbps
- 3G: WCDMA at 850/1900 MHz (North America) 900/2100 MHz (EMEA/APAC), with maximum uplink/downlink data rate of 5.76 Mbps/7.2 Mbps

**DATA ARE STORED IN MEMORY IF CELLULAR NETWORK IS UNAVAILABLE**

**LONG RANGE BLUETOOTH DOWNLOAD BUILT IN, ALONG WITH ACCELEROMETER**

**DAY & NIGHT SENSING VIA LIGHT SENSOR**

**60 SECONDS TO 48 HOUR GPS LOGGING INTERVALS**

**5 MIN TO 48 HOUR GSM/SMS/GPRS NETWORK CONNECTION INTERVAL**

**CONTROL REMOTELY VIA ONLINE WEBPAGE OR APP**

**DATA SYNCHRONIZATION WITH MOVEBANK**

### MAIN DATA RECORD, WITH EXPANSIVE VISUALIZATION TOOLS

- UTC date & time for each piece of data that is collected and uploaded
- GPS longitude, latitude, altitude, speed, direction, (GPS) number of satellites
- Light intensity, battery voltage, temperature, battery charging current, activity index (ODBA), instant acceleration (3-axes)

