

¿Qué es Motus y cuáles son sus aplicaciones?

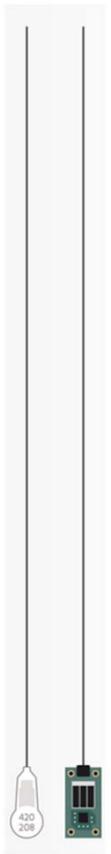
What is Motus and what are their applications?

www.pronatura-noroeste.org



¿Qué es y cómo funciona Motus?

What is Motus and how does it work?



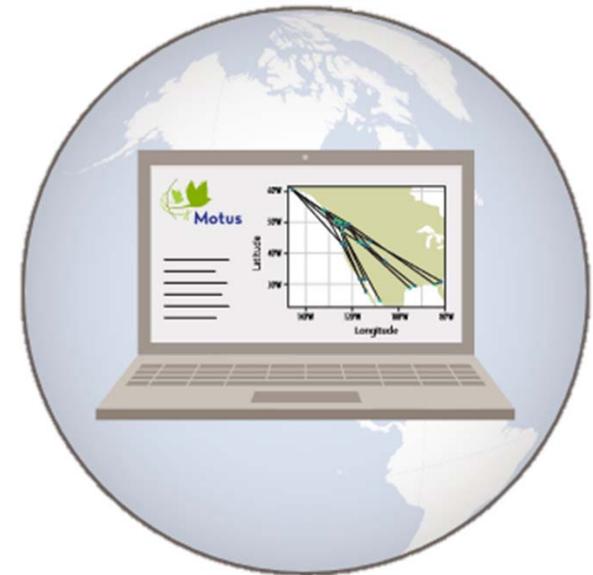
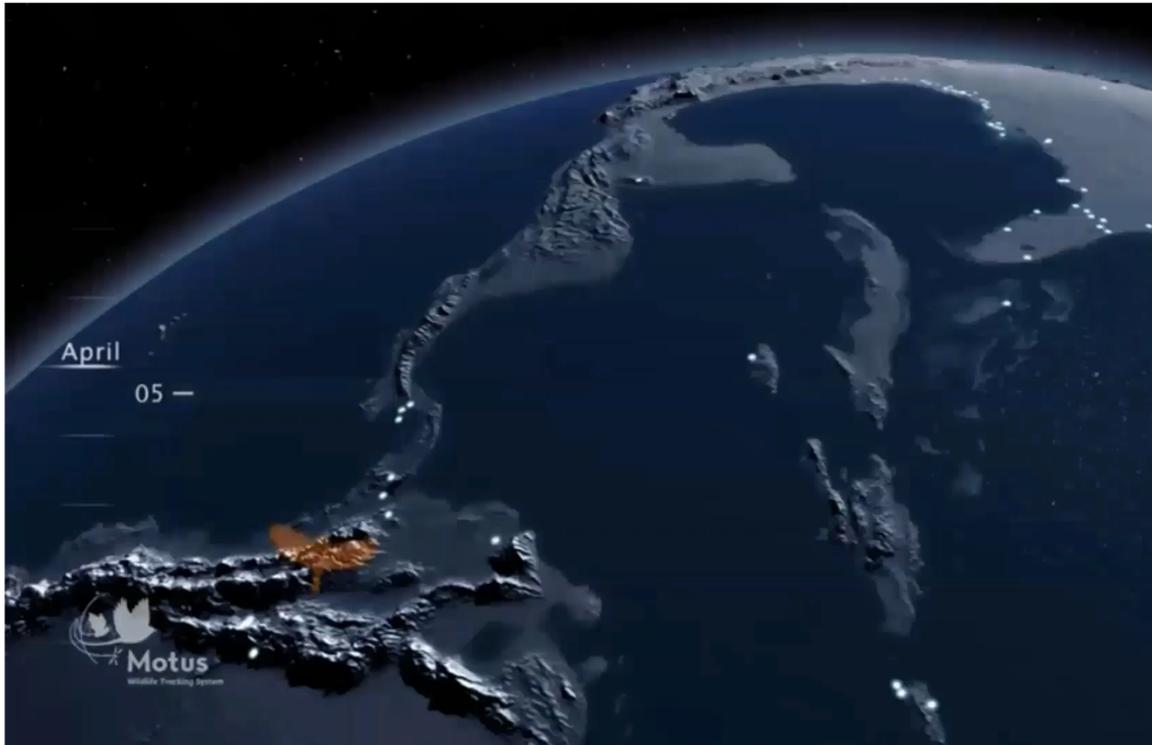
Marcando aves
Tagging birds



Radiotransmisores
Radiotransmitters

¿Qué es y cómo funciona Motus?

What is Motus and how does it work?



Una red colaborativa de estaciones para rastrear la vida silvestre a diferentes escalas.
A collaborative network of stations to track wildlife at different scales.

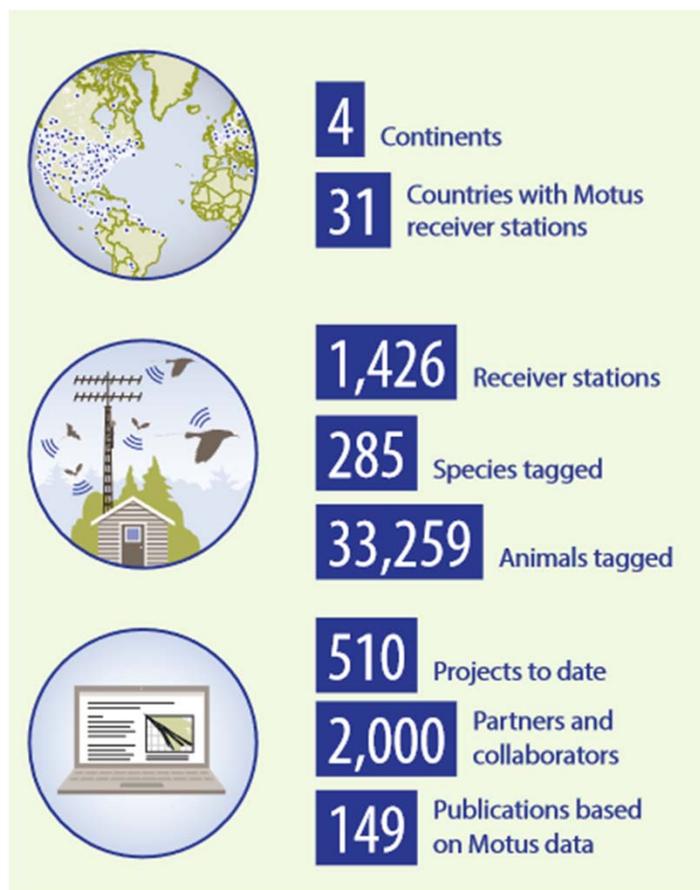
¿Como es diferente Motus de otras tecnologías? How is Motus different from other technologies



1 COLABORACIÓN COLLABORATION

THE DREAM

Have the hability to track wildlife collaboratively & answer questions at local, regional, and hemispheric scales to support conservation where and when it is most needed



SELVA @selvaorgco · Sep 29
Here's a sneak preview of a paper by @AnaCardellina coming soon in @AnimalEcology about Swainson's Thrushes. This awesome animation shows birds carrying radiotransmitters leaving Colombia and pinging #Motuswts receiving stations across North America! @ECCCSiTech @BirdsCanada

March 29
Swainson's Thrush
(Catharus ustulatus)
Spring migration from Colombia

2.9K views 81 180

¿Como es diferente Motus de otros transmisores?

How is Motus different from other transmitters



2

PESO
WEIGHT

MOTUS

Marcas
Brands



Lotek (166 mhz) CTT (434 mhz)

Vida útil
Lifespan



Solar Battery Hybrid

Peso
Lifespan

0.06 g to 1 g



Costos
Costs

\$200 - 250 USD

Otros Others

Types
Tipos

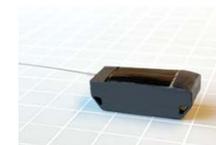
Satellite transmitters



GPS biologgers



GSM biologgers



Lightlevel geolocators (> 0.5 g)



Peso
Lifespan

> 2 g (few), > 4-5 majority

Costos
Costs

Most > 1,000 USD.

¿Como es diferente Motus de otros transmisores?

How is Motus different from other transmisores

2

PESO
WEIGHT

**Aves compatibles
con:**

Transmisores
> 2 gr

Transmisores
< 2 gr

 Blackbirds	 Chickadees	 Crows	 Doves	 Kingfishers	 Nuthatches	 Owls	 Shorebirds
 Ducks	 Finches	 Flycatchers	 Gamebirds	 Sparrows	 Swallows	 Thrushes	 Warblers
 Gulls	 Hawks	 Hérons	 Hummingbirds	 Woodpeckers	 Wrens		

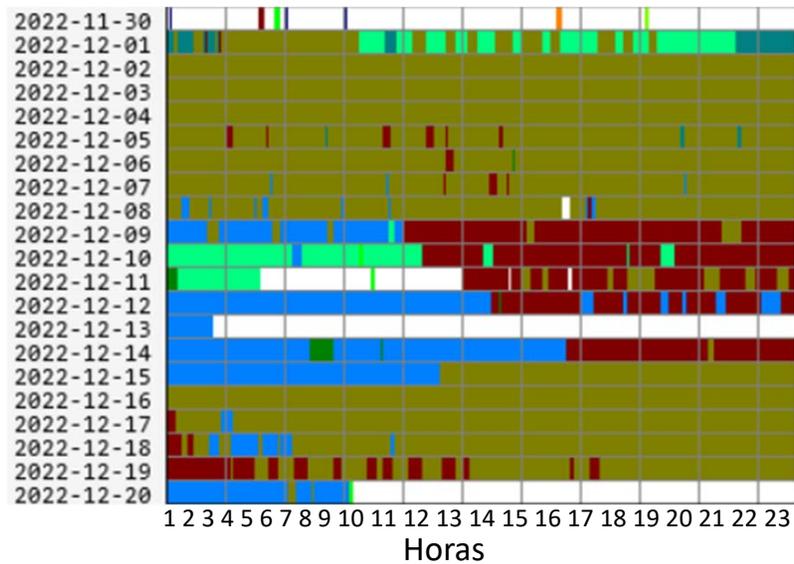
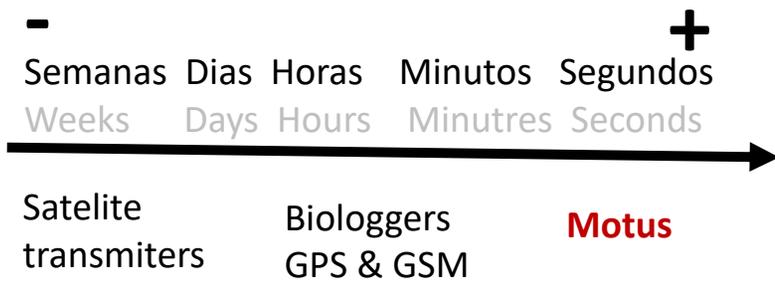
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How is Motus different from other technologies

3 RESOLUCION DE DATOS DATA RESOLUTION

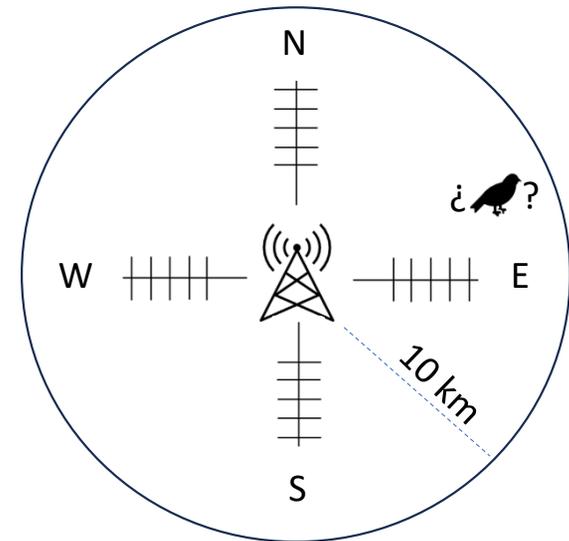
RESOLUCION TEMPORAL

Temporal resolution



RESOLUCION ESPACIAL

Spatial resolution



Entonces ¿cuanto cuesta? So how much does a station cost?



3

COSTOS
COSTS



BUENO, DEPENDE....

- Tipo de estación
- Objetivo del proyecto
- Complejidad
- Necesidades del sitio
- ¿Consideras gastos de viaje, mantenimiento y salario?

WELL IT DEPENDS....

- Type of station
- Station type and project goals
- Complexity
- Site needs

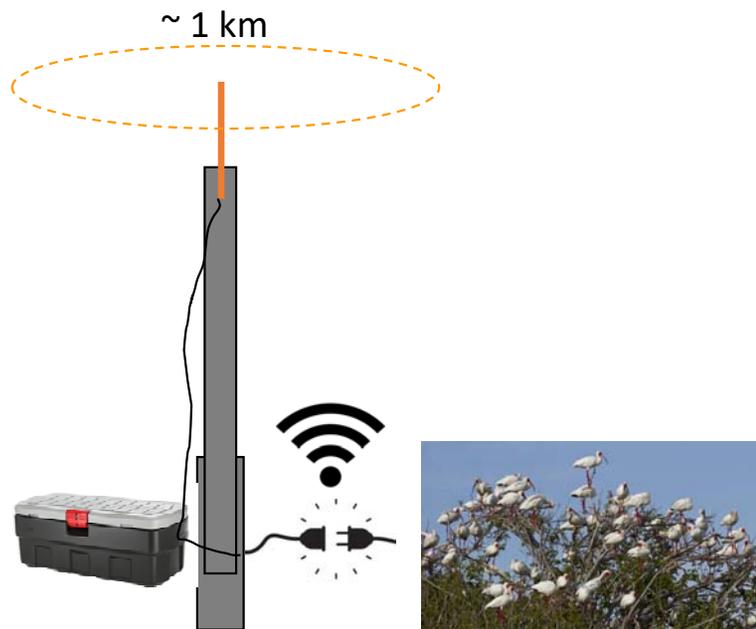
Are you considering installation expenses, maintenance and salaries?

¿Canto cuesta? Situación hipotética

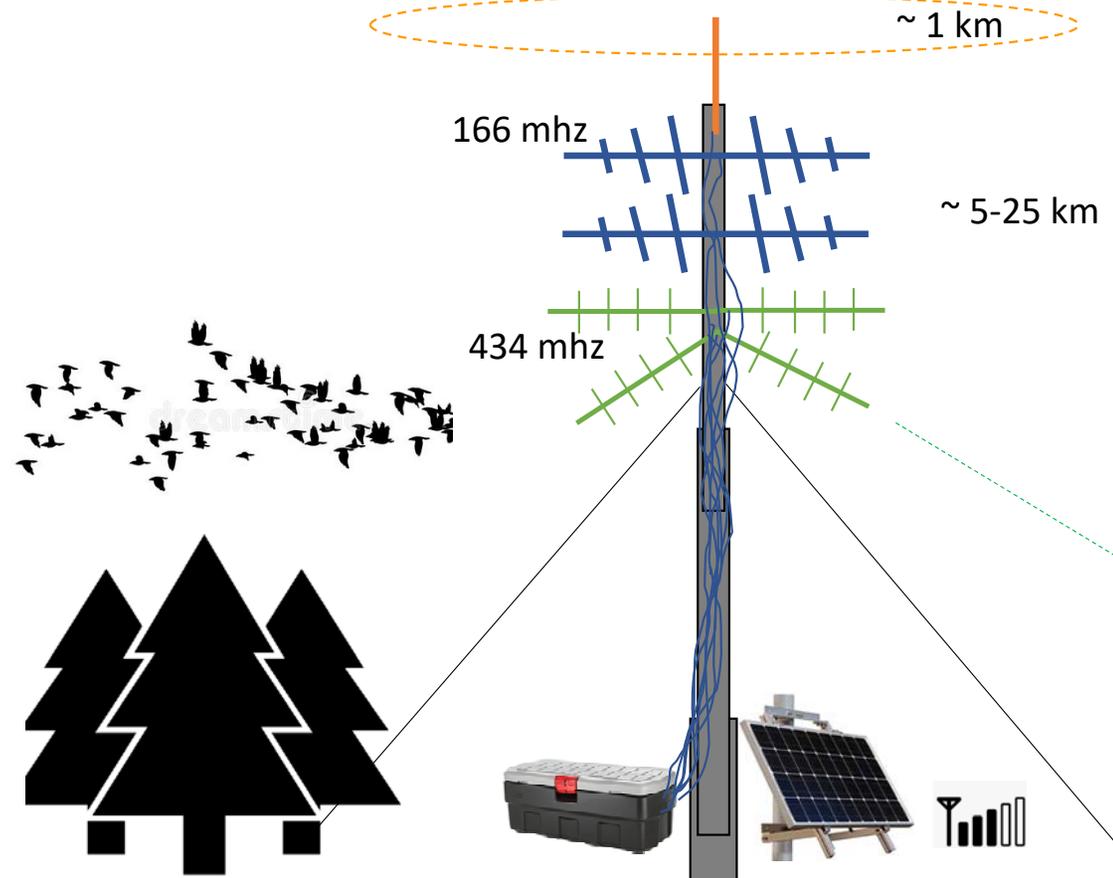
How much: hypothetical situation

~1,000-1,500 USD

- Una antena omnidireccional
- Wifi, electricidad disponible
- Altura no necesaria



~4-15 k USD



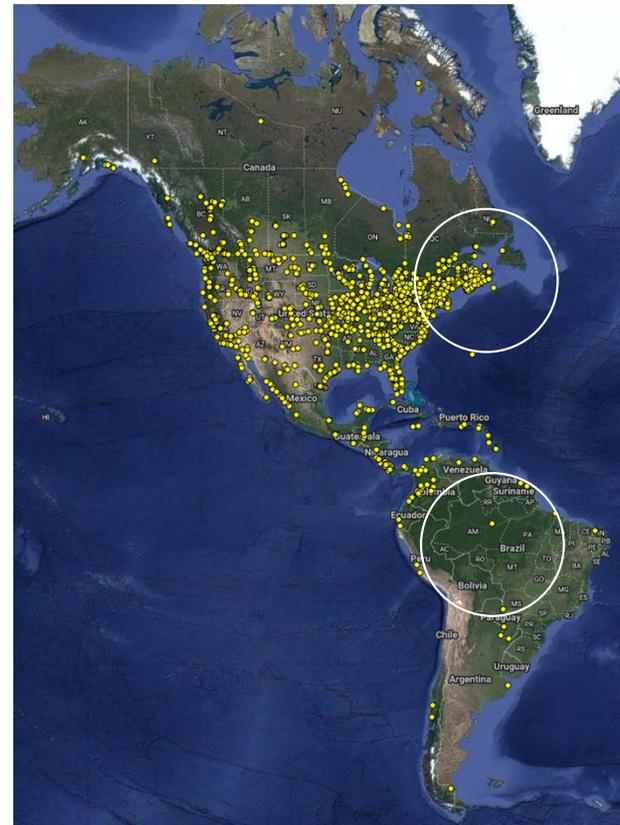
Condiciones optimas para el uso de Motus

The sweet spot of Motus

Animales migratorios pequeños (< 50g)
Small migratory animals (<50 g)



Suficientes estaciones en el área de interés.
Enough stations in area of interest



Recaptura del individuo impráctica
Recaptures of individual impractical

