

# **BIRD BANDING AND BAND ENCOUNTER DATA FOR AMERICAN KESTRELS**

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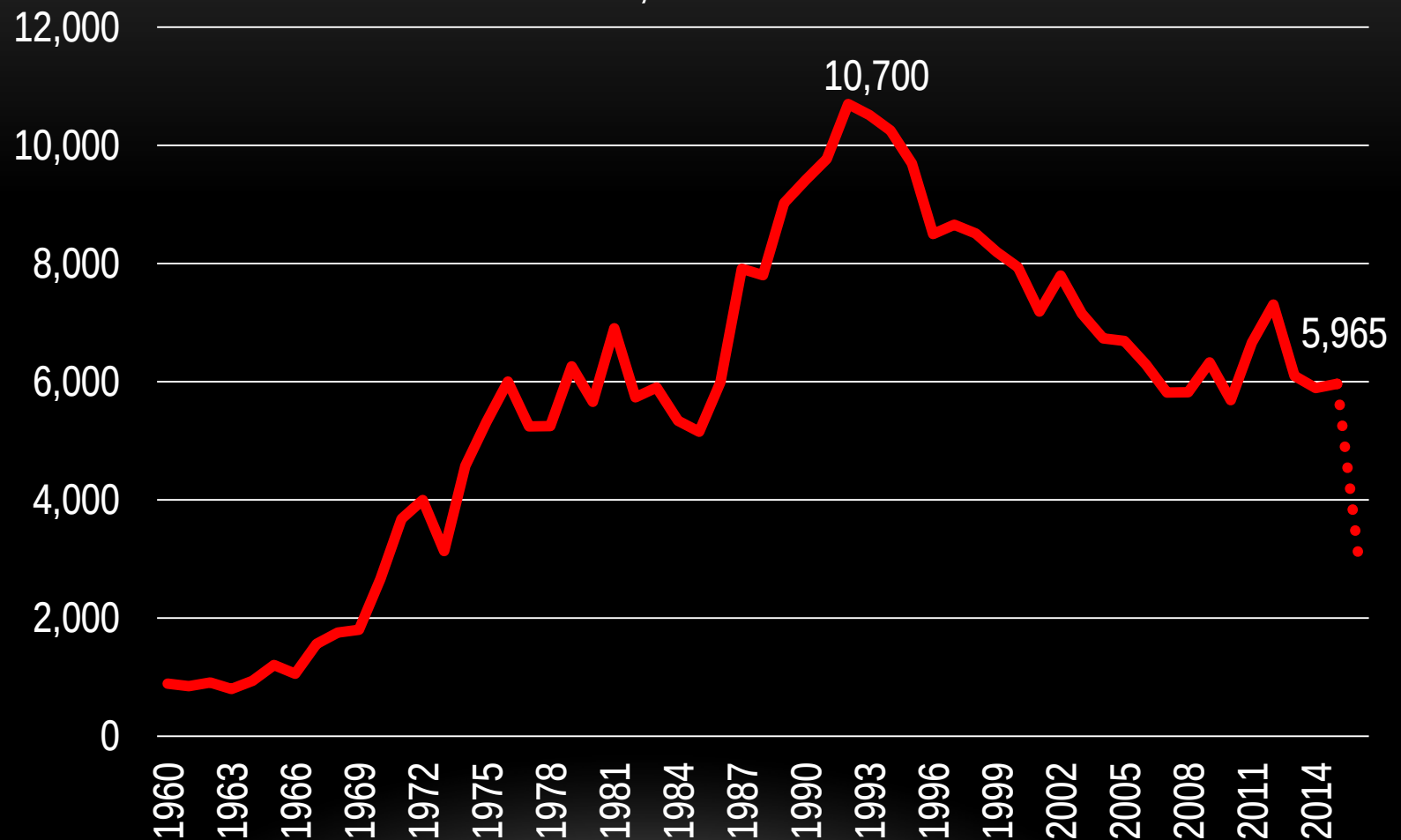
**Patuxent Wildlife Research Center**

**Laurel, MD**



# American Kestrel bandings by year (1960-2016)

325,000 records

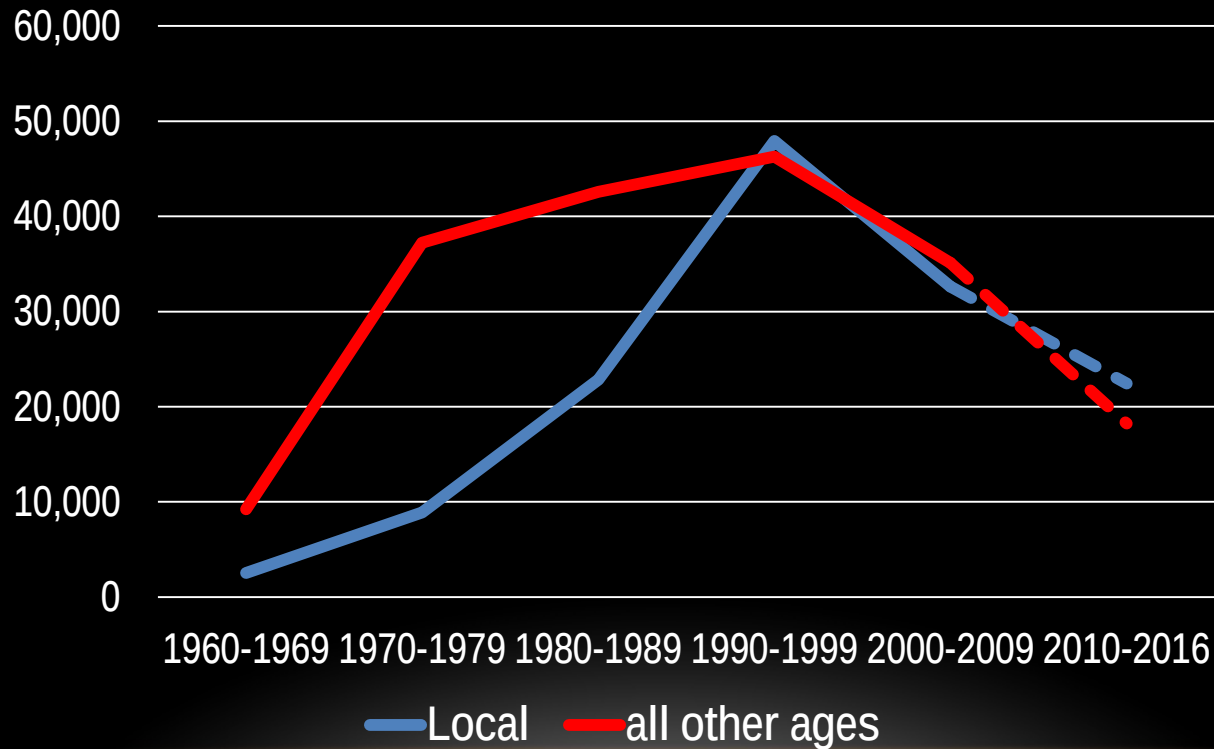


# AMERICAN KESTREL BANDING RECORDS BY AGE CLASS

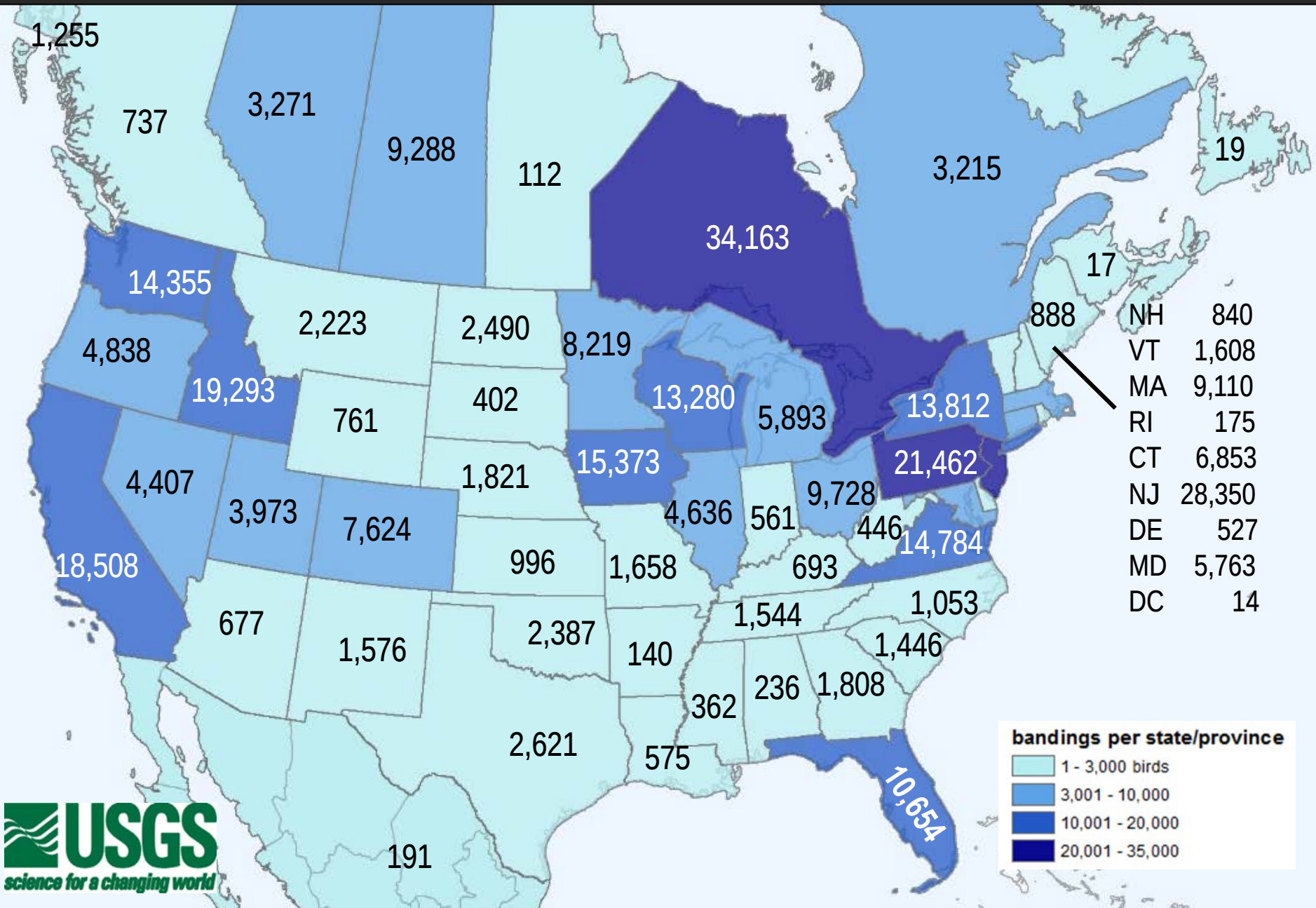
| <u>AGE</u> | <u>#bandings</u> |
|------------|------------------|
| AHY        | 74,114           |
| ASY        | 3,349            |
| ATY        | 15               |
| HY         | 80,566           |
| L          | 137,255          |
| SY         | 6,868            |
| TY         | 19               |
| U          | 23,712           |

# AMERICAN KESTREL BANDING RECORDS BY AGE CLASS

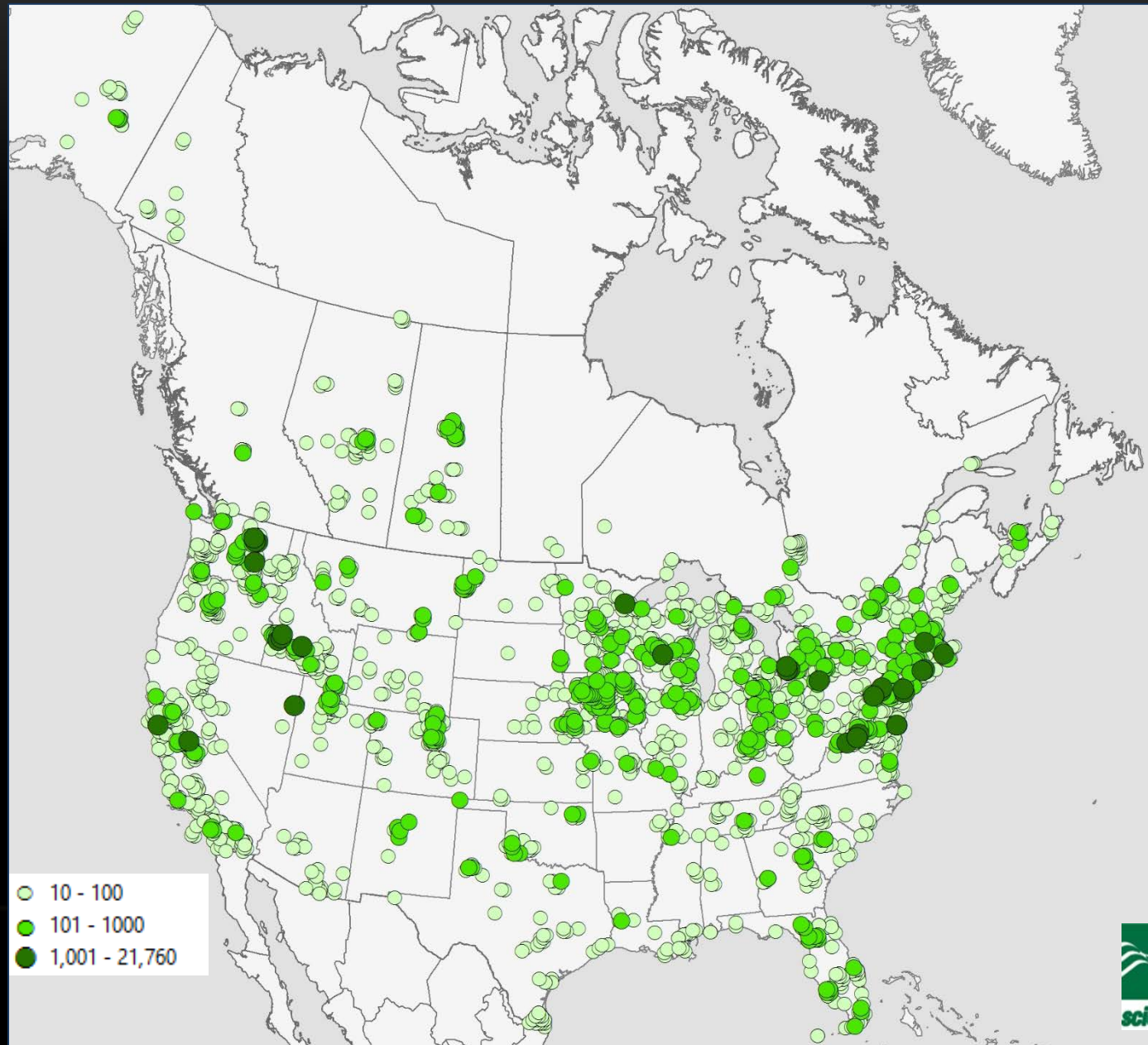
## Nestlings vs. other ages



# BBL banding records for American Kestrels by state/province

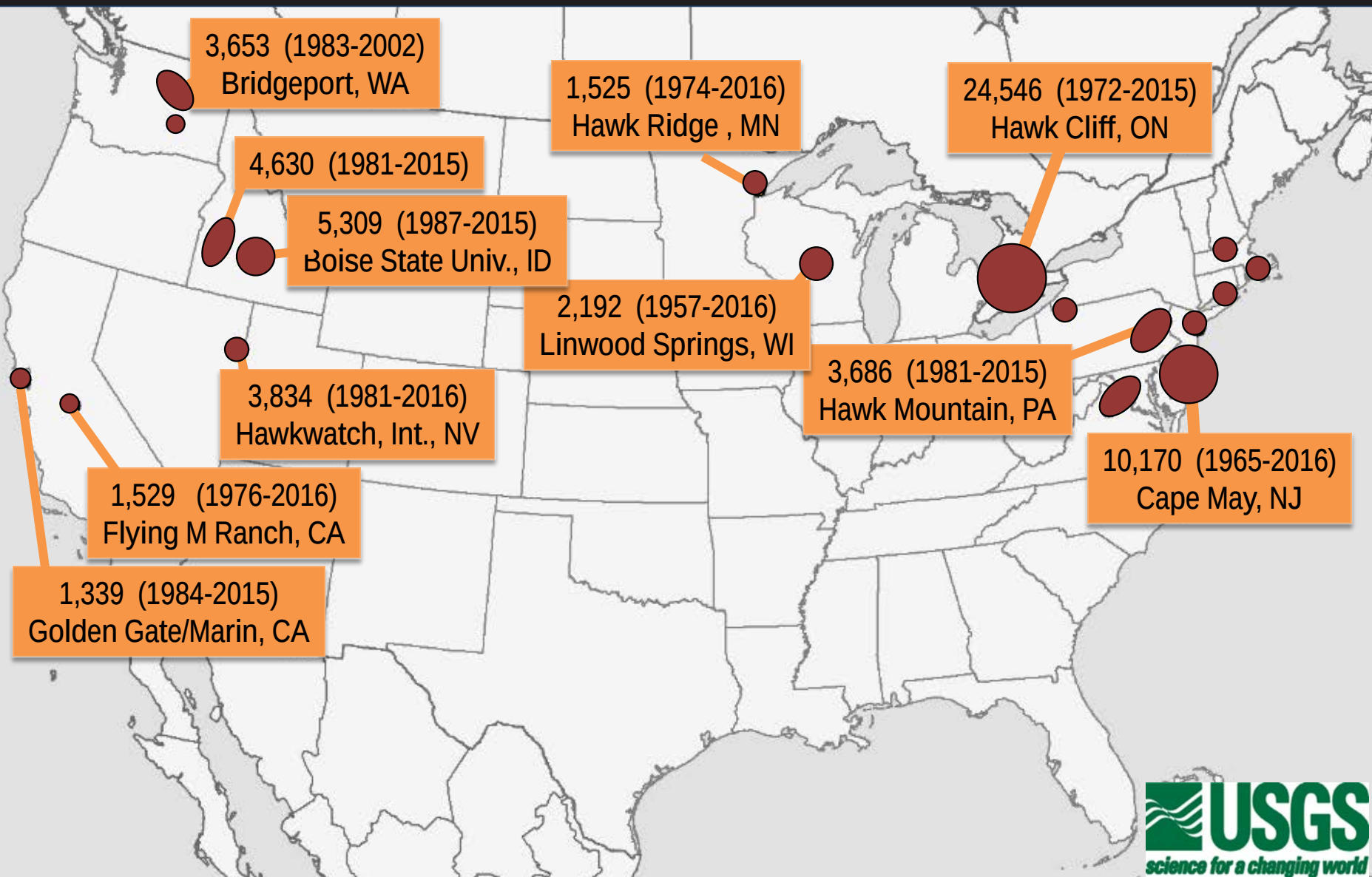


# 10-minute blocks with 10+ American Kestrels banded

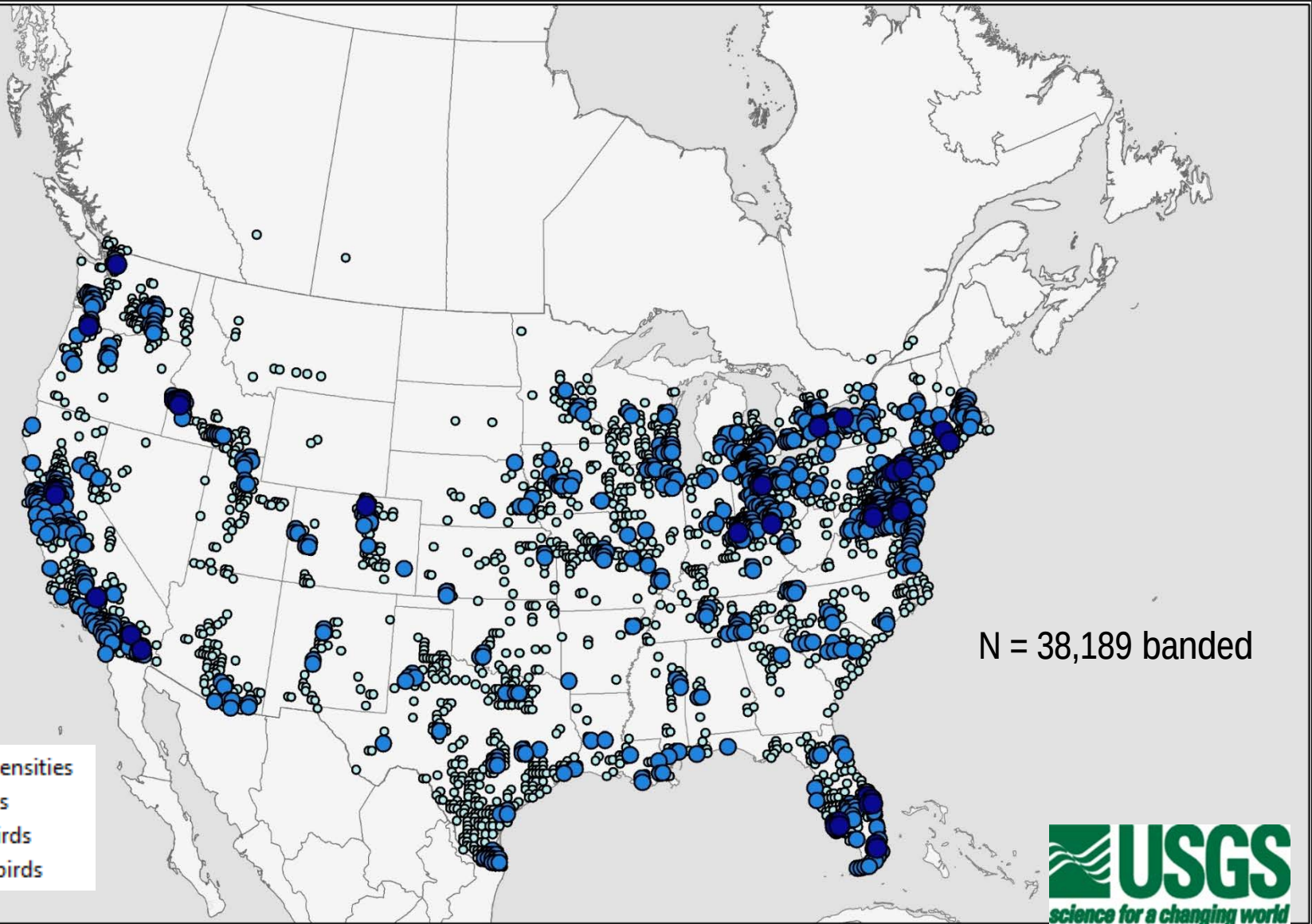




# Permits banding 1000+ American Kestrels

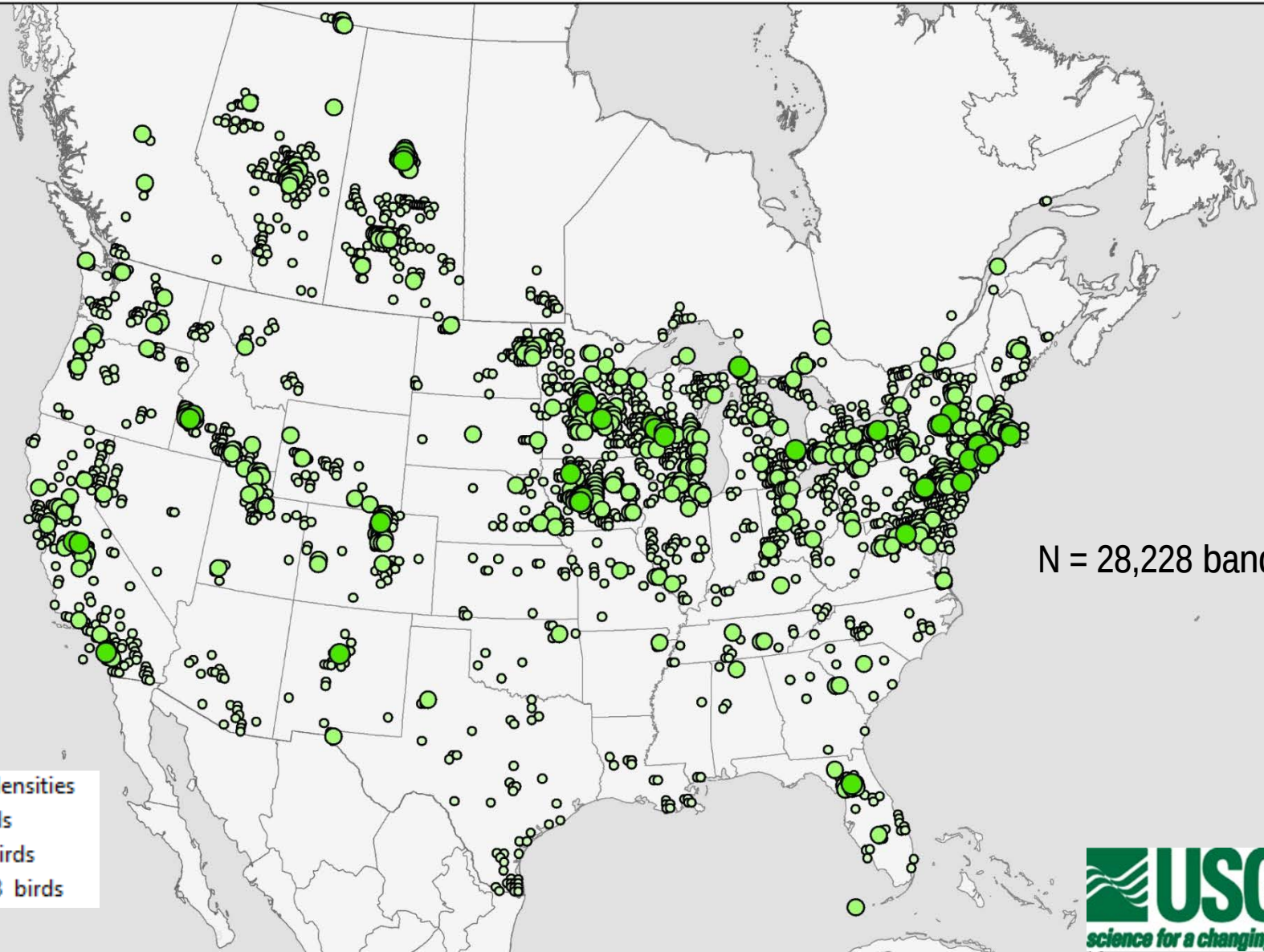


# Winter (Dec.-Feb.) banding records for American Kestrels

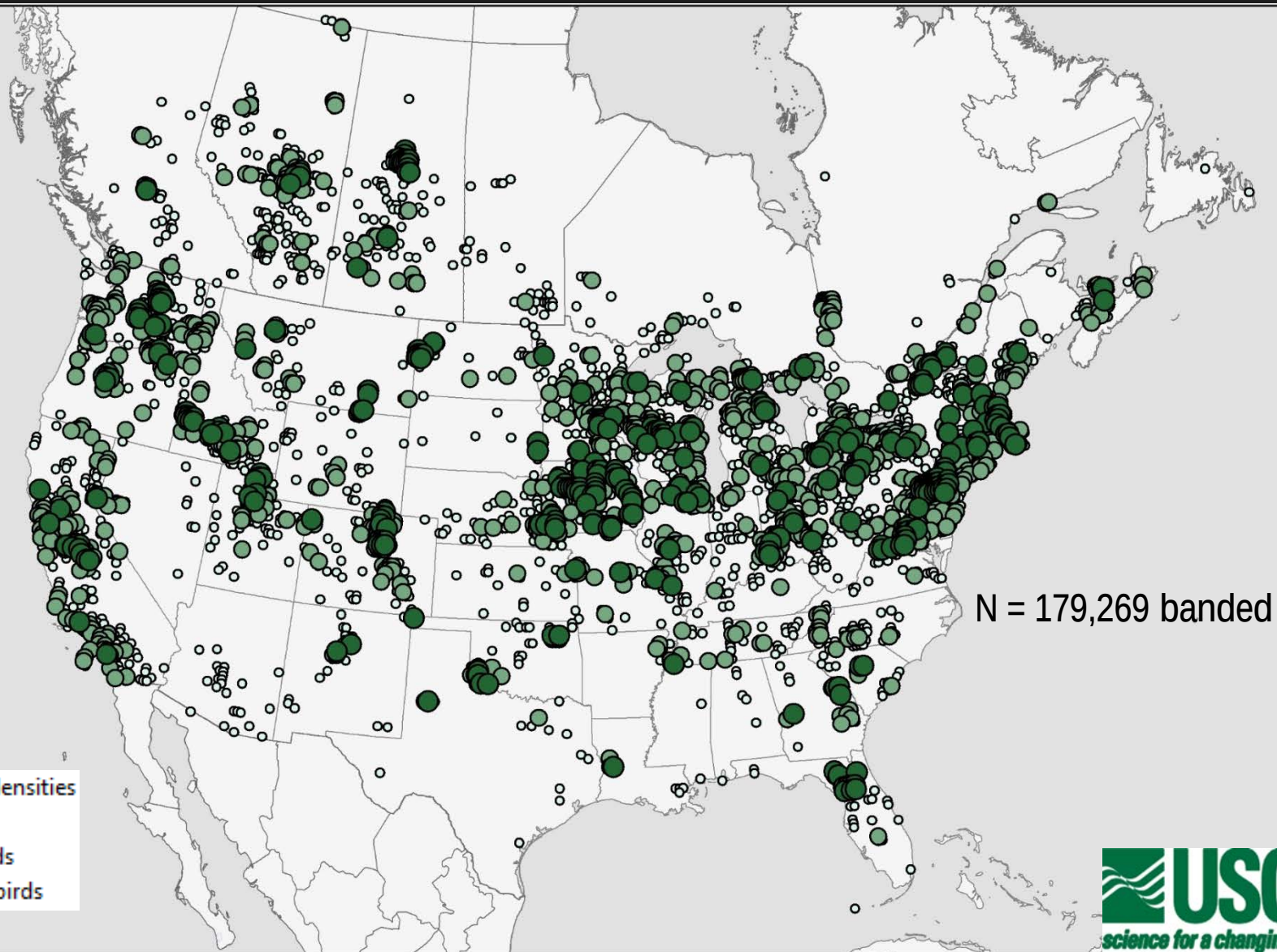




# Spring (March-May) banding records for American Kestrels

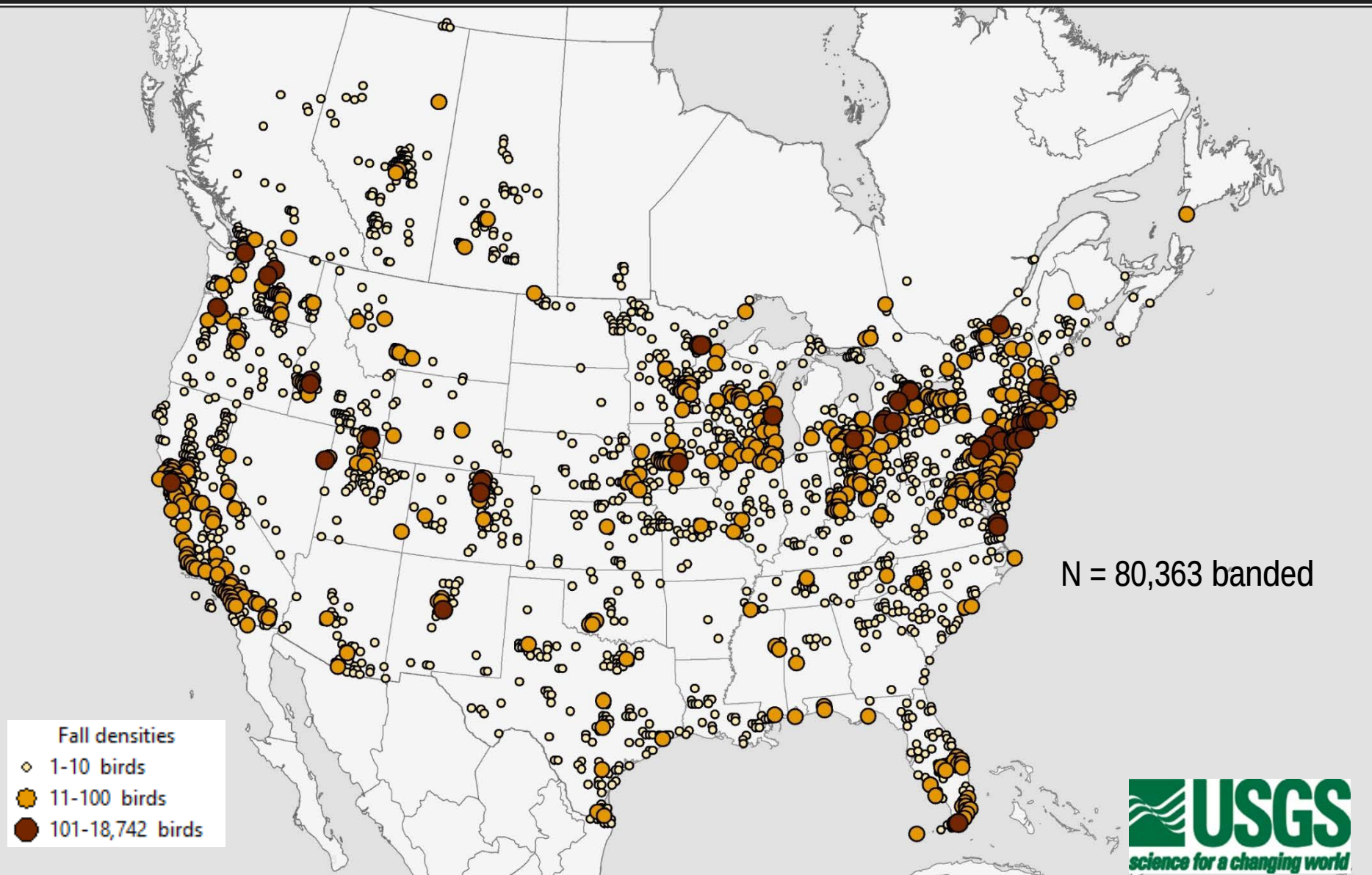


# Summer (June-Aug.) banding records for American Kestrels





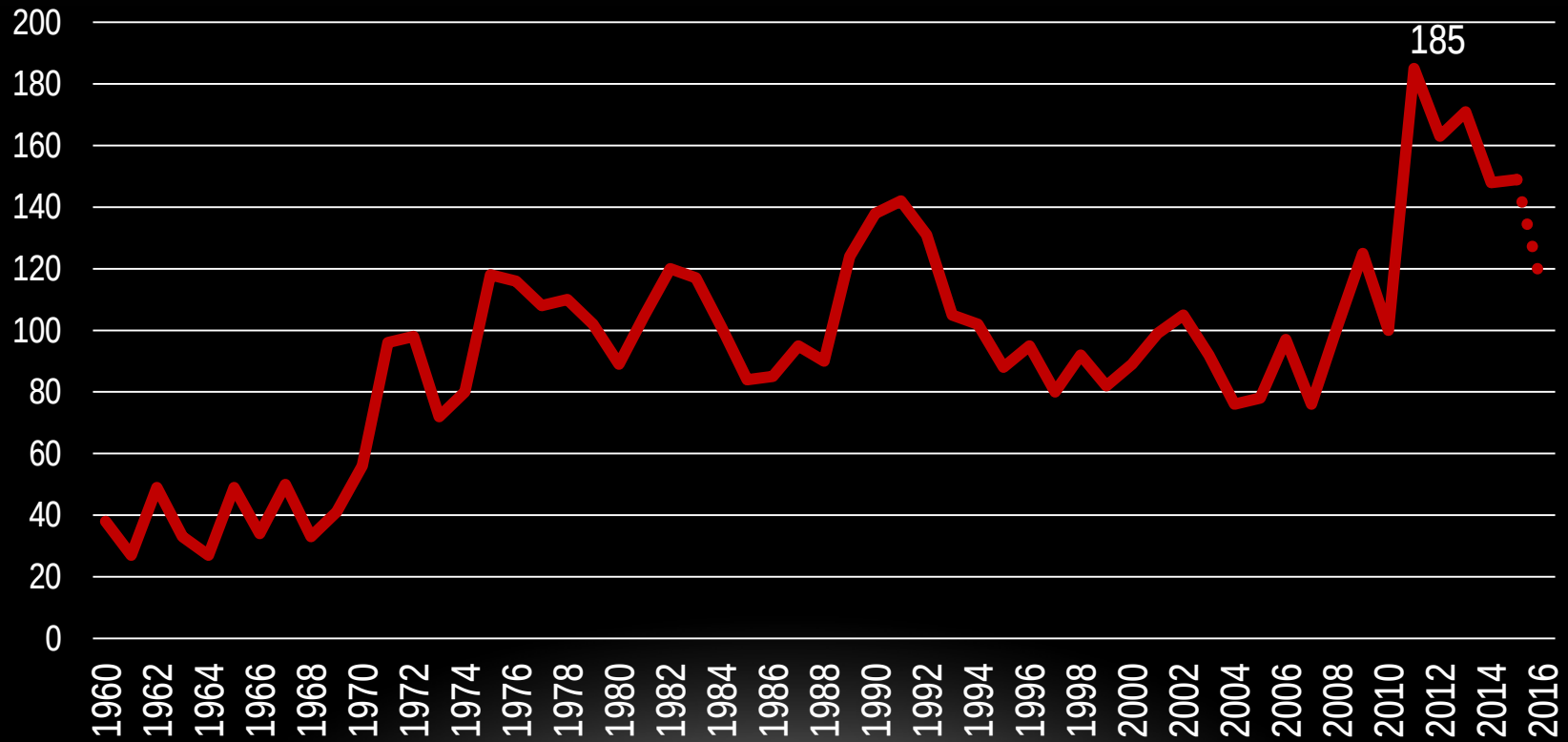
# Fall (Sept.- Nov.) banding records for American Kestrels



# SUMMARY OF BBL BANDING RECORDS FOR AMERICAN KESTRELS

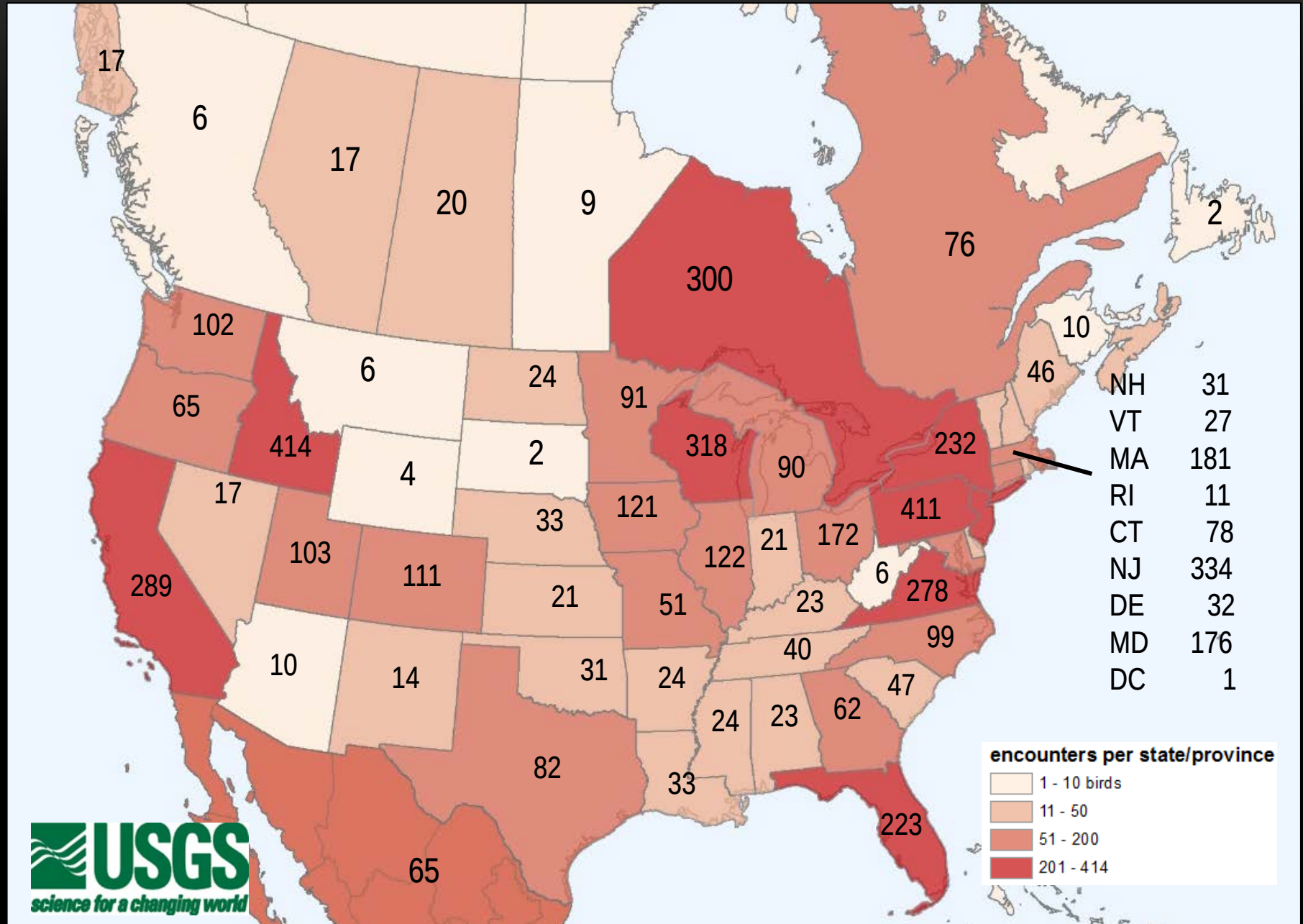
- Large dataset available to inform conservation
  - Explore potential to estimate survivorship from banded “local” kestrels in nest boxes
  - What information can be gleaned from migration banding?
- Data gaps: Northern Canada/Alaska, Great Plains, southeast US
  - Winter banding, especially in southern USA

# American Kestrel encounters by year (1960-2016) 5,300 records

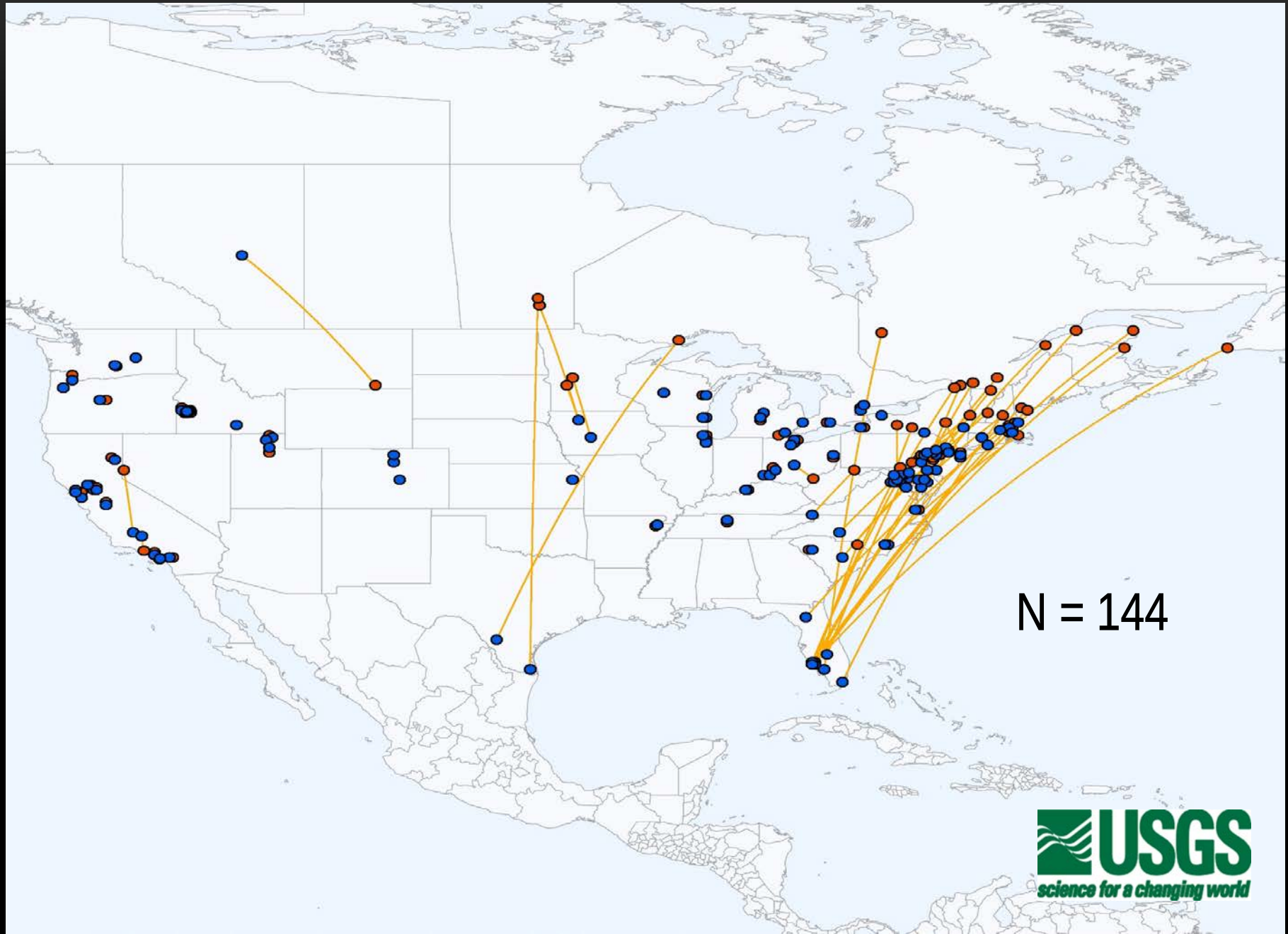




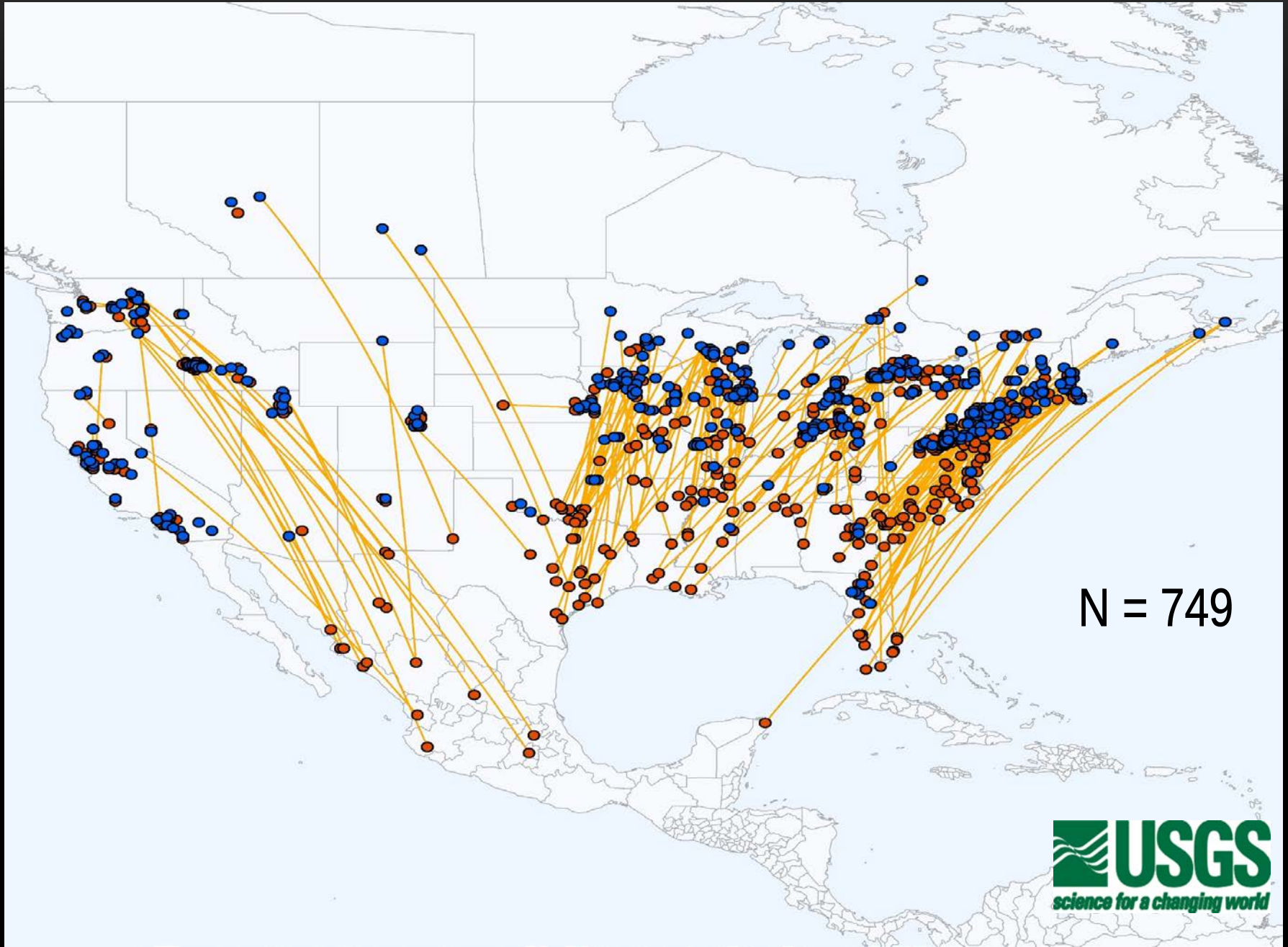
# BBL encounter records for American Kestrel by state/province



# American Kestrels banded in winter and recovered in summer

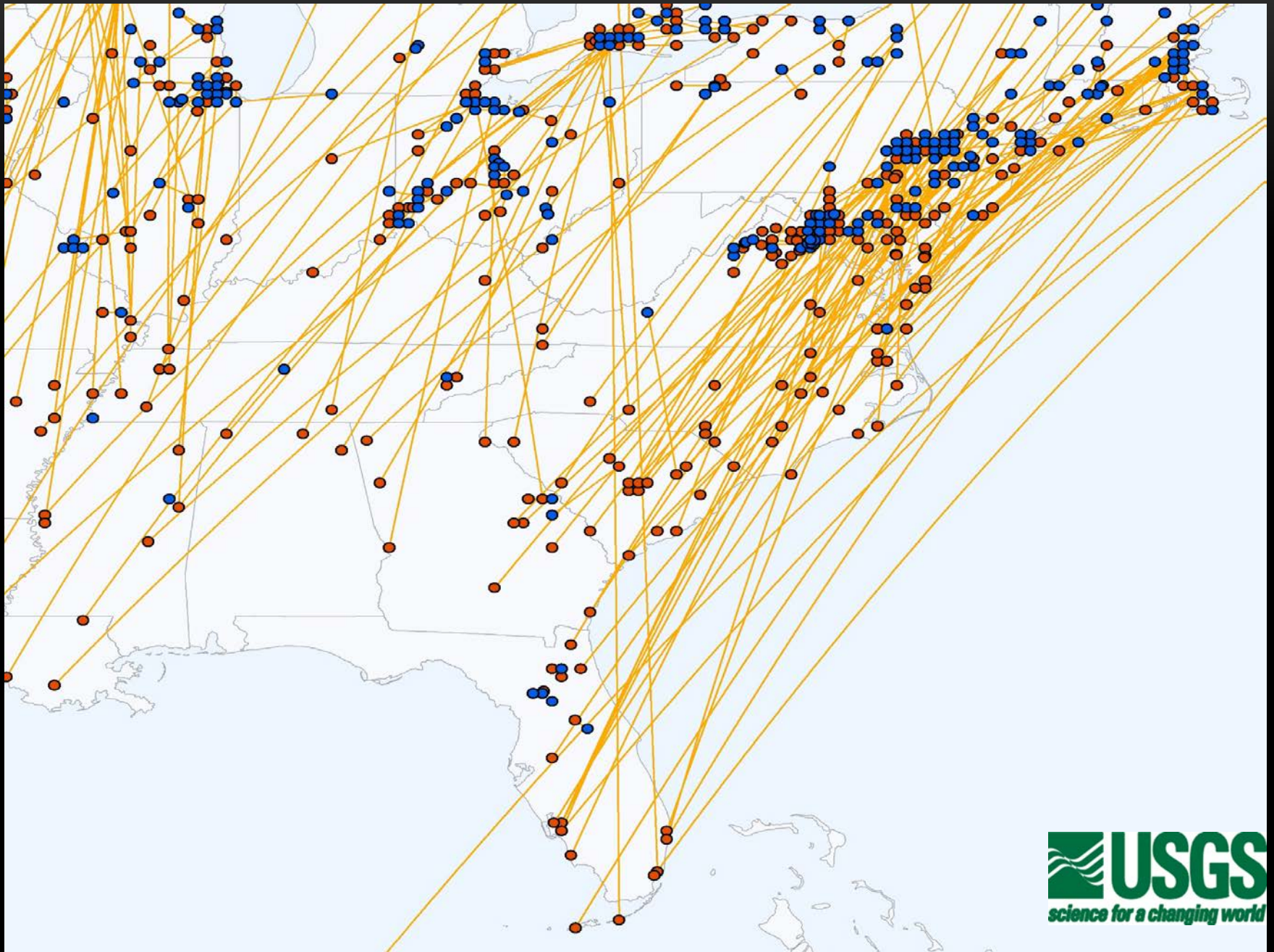


# American Kestrels banded in summer and recovered in winter



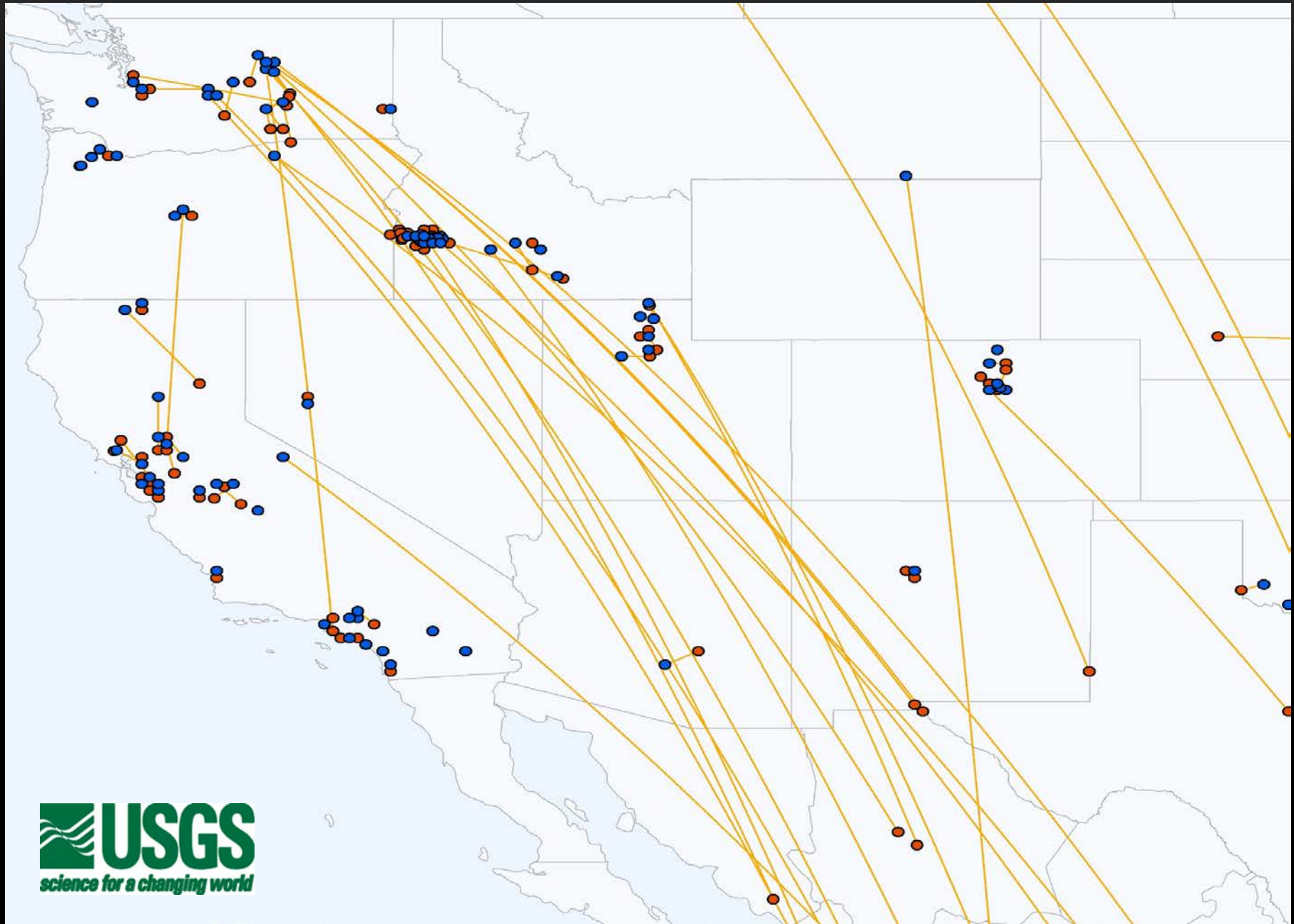


# American Kestrels banded in summer and recovered in winter

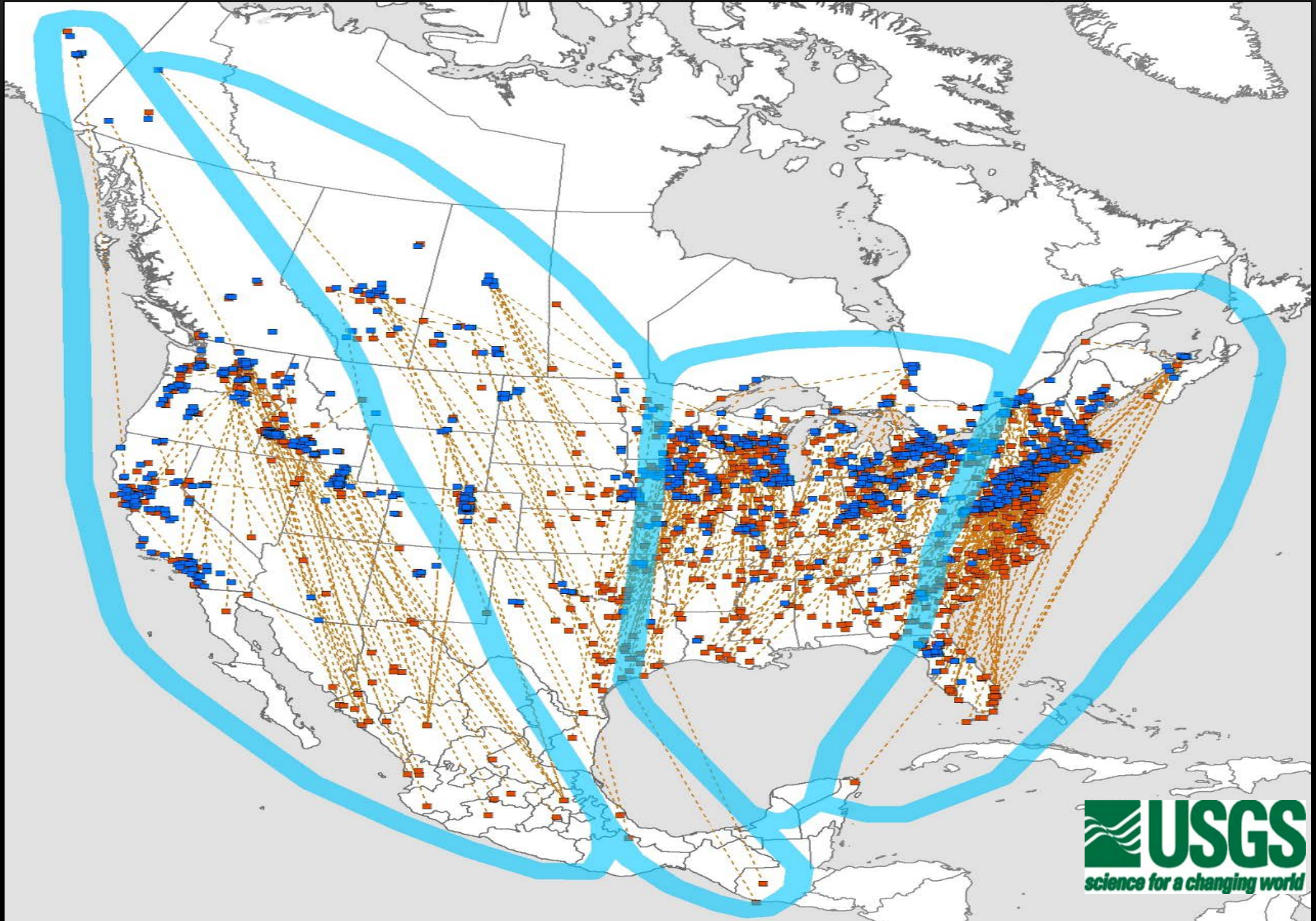




# American Kestrels banded in summer and recovered in winter



# Summer banded American Kestrels, all encounters



# SUMMARY OF BBL ENCOUNTER RECORDS FOR AMERICAN KESTRELS

- Suggests 4 major populations across North America
  - Migratory and resident components to each
  - Additional analyses may reveal additional population structure
- Southeastern US is important wintering area for populations east of Rockies
  - Many grassland birds declining in this region
- Mexico is important wintering area for western population