Appendix E. Protected Areas Database of the United States (PAD-US)

The Protected Areas Database of the United States (PAD-US) is the official inventory of protected open space in the United States. It represents public lands held in trust by thousands of national, State and regional/local governments, as well as non-profit conservation organizations.

The database includes:

- Fee-protected public parks and other lands, designated areas, conservation easements from the National Conservation Easement Database, and Marine Protected Areas
- Integrated Federal agency land management data coordinated by the Federal Lands Working Group and national conservation organization data
- Aggregated State by State inventories from State data stewards (local/regional data not yet available for all areas)

PADUS metadata, including field descriptions:
https://gapanalysis.usgs.gov/padus/data/metadata/

Process for creating the searchable "PADUSandSpecies" shapefile:

1. Created and unioned 100-km buffers around breeding sites, migration routes, and (for Eastern Meadowlark) wintering areas of Upland Sandpiper and Eastern Meadowlark in the study. Retained fields to indicate whether a polygon was attributable to Upland Sandpiper, Eastern Meadowlark, or both species.

2. Clipped coverage from Step 1 by U.S. boundaries to delete areas in ocean and outside of US.

3. Clipped PADUS coverage by the coverage from Step 2.

4. Unioned coverages from Steps 2 and 3 to add columns indicating bird species to the clipped PADUS coverage.

5. Deleted polygons managed by National Oceanic and Atmospheric Administration (waterways).

Fields added from our analysis:

Species

UPSA = in Upland Sandpiper buffer only

EAME = in Eastern Meadowlark buffer only

BOTH = in both Upland Sandpiper and Eastern Meadowlark buffers (they overlap)

FID_EAME_b

-1 = no Eastern Meadowlark

FID_UPSA_b

-1 = no Upland Sandpiper

FID_EAME_U

0 = Eastern Meadowlark only

1 = Upland Sandpiper only

2 = both Upland Sandpiper and Eastern Meadowlark