PIF Eastern Working Group

Jan 2020 Data Management Team Framework

Purpose:

The Working Group will focus on identifying and addressing limitations and unmet needs for management of bird data in Eastern North America. The group will collaborate with the Full Annual Cycle Conservation and Science Delivery Teams to identify conservation questions that help make data discoverable, integrate data into regional datasets, and endorse standard protocols. This working group could also provide a forum for outreach around information sharing, translating data for public consumption and identifying additional data needs to address emerging themes for conservation action.

Team Members:

Chair: David Hanni (TWRA)

Team: Gareth Rowell (NPS), Tom Will (USFWS), Dan Brauning (PGC), Sean Murphy (PGC), Jill Deppe (Audubon), Bill DeLuca (Audubon), Bob Ford (USFWS), Sara Schweitzer (NCWRC), Randy Dettmers (USFWS), Peter Thomas (CWS), Ruth Boettcher (VDGIF), Scott Johnston (USFWS), Scott Anderson (NCWRC), Ken Rosenberg (CLO/ABC), Gwen Brewer (MDIFW), Katie Koch (USFWS)

Products and Results:

1. Work to describe and publish (online) the metadata for projects that are already housed in existing data centers. Data centers already exist across the eastern United States and Canada that maintain avian datasets (i.e . Avian Knowledge Network, eBird, Environment and Climate Change Canada Data Catalogue, Nature Counts, etc.).

2. Identify high priority data sets that have not been included in existing data centers. Reference work that has been completed through the NEPIF group. Datasets should be prioritized to include the ones that are highly used to inform topics that are identified by other EPIF working groups (i.e., Science Delivery and Full Annual Cycle Conservation) or active bird conservation partnerships (e.g., flyways, joint ventures, and species working groups).

3. Develop recommendations for standardization that will facilitate sharing of information across platforms.
    a. Standardize the metadata template using ISO 19115 with modifications to allow for the sharing of metadata across separate platforms. Many North American environmental data centers are moving towards international ISO metadata

standard ISO 19115 for environmental and ecological spatial data. This standard is currently in use by the National Centers for Environmental Information (NOAA), ESRI (the makers of ArcGIS software), the EarthData program (NASA), the USGS (various datasets) and Natural Resources Canada. ISO 19115 is endorsed by the US Federal Geographic Data Committee (FDGC). Costs associated with adopting ISO 19115 and the associated North American Profile (NAP) of the ISO 19115 should be explored

b. Promote the use of digital object identifiers (DOIs) as part of metadata for projects, protocols and datasets. Digital object identifiers (DOI's) assist in locating any digital object on the internet by redirecting the user to the correct URL using the DOI system. This helps digital object owners and users because metadata containing the DOI will always send users to correct URL. Further information about implementing DOI's should be obtained from organizations already using them (for example, USGS, NPS and Canada's ECCC). Additional information is available at https://www.doi.org.

Task list:

1. Determine within each data center if metadata is included and how to work to get metadata associated with the datasets that already exist.
2. Incorporation of colonial waterbird databases (and metadata) into the AKN and build a secure Colonial Waterbird extension that will allow for data entry, management, storage, sharing, and analyses by data contributors and other permitted stakeholders.
3. Develop recommendations and promote standardized template.

Timeframes:

1. Reach out to AKN to determine if data are searchable by individual node by February 2020.
2. Completed for Pacific Flyway. Work with Mississippi and Atlantic Flyway to incorporate those data by 2022.
3. TBD

Supporting Resources: (List important resources the team may rely on to complete their work)

- Avian Knowledge Network (EADC and MWADC)
- Environment and Climate Change Canada (ECCC) Data Catalog
- eBird
- EPIF Full Annual Cycle and Science Delivery Teams

Communication:

The chair of the committee will attend Leadership Team conference calls and meetings to provide updates and receive input from the group. The Data Management Team plans to meet Bimonthly.

Approval: All Team Frameworks require the approval of the Leadership Team of the Eastern Working Group. Approved by EWG Leadership Team on: _____