

eBird Basic Dataset Metadata (v1.8)

revised 11 Dec 2017

CHARACTER SET – eBird is a global database, with a need to display characters in a variety of languages. We use the Unicode UTF-8 character set to accomplish this. When opening this file in Excel or any text editor, you must first specify the proper character set to ensure that all characters display correctly. In Excel, this process means using the 'Text import wizard', and then setting the file origin field to Unicode UTF-8 before opening the file.

DATA INCLUDED – This dataset includes all records treated as "Approved" in eBird. Approved records include those that have been reviewed and approved by eBird reviewers as well as those that are not flagged as unusual. See APPROVED, REVIEWED, and REASON fields below to better understand this.

RECORDS "IN REVIEW" – The "Provisional" dataset also includes records flagged as unusual but not yet acted upon by reviewers. These records should be used with caution and should be assessed on their merits by the analyst.

SENSITIVE SPECIES – Certain taxa that are at risk from targeted hunting or other pressures are not included in this dataset. Observations are considered Sensitive either globally, by country (e.g., Indonesia) or by state (e.g., Wisconsin, US). They can also be Sensitive year-round or only within a certain date range (e.g., 5 March-25 August).

See the Sensitive Species policy here:

<http://help.ebird.org/customer/portal/articles/2885265>

See the full list of species here:

<http://help.ebird.org/customer/portal/articles/2879207>

Sensitive Species data can be requested by emailing us at ebird@cornell.edu with the subject line written exactly "Sensitive Species Data Request". In the email please indicate the species you are interested in and a brief abstract of the proposed data use.

RECOMMENDED R PACKAGE -- AUK

The auk R package has been developed by Cornell Lab staff and may prove useful for working with the EBD downloaded data. For more information, see:

<https://cornelllabofornithology.github.io/auk/>

eBIRD BASIC DATASET FIELDS

The below list includes all the data fields for the eBird Basic Dataset download file.

GLOBAL UNIQUE IDENTIFIER – A unique alphanumeric code assigned to each record that stays with it through database revisions, updates, and edits.

LAST EDITED DATE – The date and time of the most recent edit to the observation; useful for determining whether an observation should be updated if a copy of these data is being stored locally. Edits include any changes:

Location: e.g., latitude, longitude, location name, county, state, or country

Submission: e.g., date, effort, complete checklist

Observation: e.g., species, count, review status, or edits made by user or editor.

TAXONOMIC ORDER – The numeric value assigned to this taxon in the eBird/Clements taxonomy. Useful for ordering the file in the latest taxonomic sequence. *Note that some have decimal values, so these should not be rounded off to whole numbers.*

CATEGORY – The category (e.g., species, hybrid, slash) assigned to this taxon in the eBird/Clements taxonomy. A full description of these categories is here:

<http://help.ebird.org/customer/portal/articles/1006825>.

COMMON NAME – The primary English common name of the taxon in the eBird/Clements taxonomy.

SCIENTIFIC NAME – The scientific name of the taxon in the eBird/Clements taxonomy.

SUBSPECIES COMMON NAME – The common name of the subspecies or subspecies group in the eBird/Clements taxonomy. Certain other taxa (such as intergrades, and certain forms and domestics) also included here.

SUBSPECIES SCIENTIFIC NAME – The scientific name of the subspecies or subspecies group in the eBird/Clements taxonomy. Certain other taxa (such as intergrades, and certain forms and domestics) also included here.

OBSERVATION COUNT – The count of individuals made at the time of observation. If no count was made, an 'X' is used to indicate presence.

BREEDING BIRD ATLAS CODE – The highest level breeding information reported for the species on a given checklist. For a complete list of codes and their definitions see Appendix 1.

BREEDING BIRD ATLAS CATEGORY – Four categories used to describe a species' breeding status based on the 'BREEDING BIRD ATLAS CODE' reported on the eBird checklist: C1 – Observed; C2 – Possible; C3 – Probable; C4 – Confirmed. In most cases, these are the

default values corresponding with the breeding bird atlas code reported by the observer. But in some cases reviewers of atlas data may reinterpret a breeding category, and that reinterpretation is reported here. For instance, a tern species might be seen carrying food (typically C4 – Confirmed), but since terns feed young away from the nesting area it would be reinterpreted as a lower breeding category.

AGE/SEX – The reported number of each age and sex combination for a species on a given checklist. Age categories are: adult, immature, and juvenile. Sex: male, female, and unknown.

COUNTRY – The country where the observation was made. Follows ISO 3166-2.

COUNTRY CODE – Abbreviation for country name. Follows ISO 3166-2.

STATE – The state/province where the observation was made. Follows ISO 3166-2.

STATE CODE – Abbreviation for state/province name. Follows ISO 3166-2.

COUNTY – The county where the observation was made. No international county standard is available, so the best available county layer is used when available.

COUNTY CODE – Alphanumeric code representing county name in this format COUNTRY-STATE-COUNTY (e.g., US-AK-016).

IBA CODE – The alphanumeric code for an Important Bird Area. If an observation falls within an IBA, it is given this code. A list of codes and their corresponding site names is included in the metadata bundle (IBACodes.txt). IBA information is currently only available for some countries.

BCR CODE – The alphanumeric code for a Bird Conservation Region. If an observation falls within a particular BCR, it is given this code. A list of codes and their corresponding site names is included in the metadata bundle (BCRCodes.txt). More on BCRs here: <http://www.nabci-us.org/bcrs.htm>.

USFWS CODE – The alphanumeric code for a United States Fish and Wildlife Service land holding. If an observation falls within a particular USFWS polygon, it is given this code. A list of codes and their corresponding site names is included in the metadata bundle (USFWSCodes.txt).

ATLAS BLOCK – Sampling units called blocks have been established for specific atlas projects run within eBird. Blocks are established using a grid system based on 7.5-minute topographic quadrangle maps (quads) prepared by the U.S. Geological Survey. Each quad has a unique identifier. For atlasing purposes, each quad is divided into 6 blocks, each roughly 3 x 3 miles and encompassing about 23 sq km (9 sq mi). Each block

has been coded with a 2-letter code: either northwest (NW), northeast (NE), center-west (CW), center-east (CE), southwest (SW), or southeast (SE). Currently, blocks are limited to those used by the Wisconsin and Virginia Atlas projects.

- **Wisconsin Breeding Bird Atlas:** <http://ebird.org/content/atlaswi/>
Methods: http://wsobirds.org/images/atlas/WBBA_II_Handbook.pdf
- **Virginia Breeding Bird Atlas:** <http://ebird.org/content/atlasva/>
Methods: http://amjv.org/resources_vabba2/VABBA2_Handbook_Draft_Final_2017.pdf.

LOCALITY – The reported location name for the observation. Observers can give locations their own names, or choose from existing locations (eBird Hotspots, see <https://ebird.org/ebird/hotspots>).

LOCALITY ID – Unique alphanumeric code for a location.

LOCALITY TYPE – In some cases location names can be confusing. This code is meant to help define the type of location used, as participants in eBird can plot specific locations on a map (P), choose existing locations from a map (H), or choose to submit data for a town (T), postal code (PC), county (C), or state (S). Abbreviations: State (S), County (C), Postal/Zip Code (PC), Town (T), Hotspot (H), Personal (P).

LATITUDE – Latitude of the observation in decimal degrees.

LONGITUDE – Longitude of the observation in decimal degrees.

OBSERVATION DATE – Date of the observation expressed as year-month-day (YYYY-MM-DD).

TIME OBSERVATIONS STARTED – The time observations were initiated based on the 24-hour clock (military time).

OBSERVER ID – Unique number associated with each eBird observer.

FIRST NAME – Observer's first name.

LAST NAME – Observer's last name.

SAMPLING EVENT IDENTIFIER – The unique number associated with the sampling event (eBird checklist). Each sampling event has a unique combination of location, date, observer, and start time. A sampling event can contain one or many species, all of which share this unique identifier. This alphanumeric code is the final element of an eBird checklist link (e.g., <https://ebird.org/ebird/view/checklist/S40515915>).

PROTOCOL TYPE – The type of survey associated with this sampling event. For a complete list of protocol types and their definitions see Appendix 2. The three main protocol types are:

- eBird - Traveling Count
- eBird - Stationary Count
- eBird – Casual Observation (which appears as "Incidental Observation" in data entry.

PROJECT CODE – While all the data in this dataset come from eBird, this field is used to designate which portal the data came through. Portals can be regional (e.g., eBird Chile or aVerAves) or project-based (e.g., Wisconsin Breeding Bird Atlas, Bird Conservation Network eBird). See <http://ebird.org/content/ebird/about/portals/> for a full list of portals.

DURATION MINUTES – The duration of the sampling event reported in minutes.

EFFORT DISTANCE KM – The distance traveled during the sampling event reported in kilometers.

EFFORT AREA HA – The area covered during the sampling event reported in hectares.

NUMBER OBSERVERS – The total number of observers participating the sampling event.

ALL SPECIES REPORTED – A critical field that separates eBird checklist data from most other observational datasets. Observers answer 'yes' to this question when they are reporting all species detected by sight and by ear to the best of their ability on a given checklist (sampling event). Observers answer 'no' to this question when they are only reporting a selection of species from an outing, usually the highlights or unusual birds. When observers report all species it allows us to understand more about detection probabilities, and given a large enough sample serves as a surrogate for absence data. (1 = yes; 0 = no).

GROUP IDENTIFIER – When multiple observers participate in the same sampling event, they can share checklists. If a checklist is shared between multiple observers, it is given a GROUP ID number. Use this number to eliminate duplicate data when multiple observers are sharing data.

HAS MEDIA – Indicates whether a particular observation is supported by rich media stored at the Cornell Lab of Ornithology's Macaulay Library (<http://macaulaylibrary.org/>). If an observation has media, the media are displayed in the eBird checklist view (e.g., <https://ebird.org/ebird/view/checklist/S40515915>, see "Sampling Event Identifier" above) and on the Macaulay Library specimen page for the observation.

APPROVED – The status of the record within the eBird data quality process. If "Approved", the record is deemed acceptable. If "Not Approved" the record has been deemed unacceptable by our review processes. The only current cases where "Not Approved" records are included in this dataset are as follows: Introduced/Exotic species; and unvetted data. In the case of Introduced/Exotic species the identification of the species is not usually in question, but many are set to "Not Approved" because their natural occurrence is questionable or not established. Nonetheless, researchers may choose to explore the expansion of introduced exotic species in the environment, so we provide the data here for that purpose. Unvetted data can be requested by checking the box on the download page with your data request. Unvetted data come in a separate file, and have not yet been reviewed by our regional editor network. It is not advisable to use unvetted data in any kind of analysis (1 = yes; 0 = no).

REVIEWED – "Not Reviewed" means that the record passed through our automated filters without problems, that the species, date, and count were within expected levels, and that the record has otherwise not been reviewed by a reviewer. "Reviewed" means that the record triggered a higher-level review process, either through an automated or manual process, and that it was vetted by one of our regional editors. (1 = yes; 0 = no).

REASON – The reason the record was "Not Approved". In this dataset, the only value that may appear is "Species—Introduced/Exotic" (see APPROVED above).

TRIP COMMENTS – General comments about the sampling event (checklist) provided by the observer.

SPECIES COMMENTS – Comments about this particular species observation provided by the observer.

SAMPLING EVENT DATA

In some cases, scientists might be interested in looking at the sampling event data for a region. All sampling event data are bundled together under the prepackaged data options. These data are essentially a record of all the checklists submitted to eBird, but they include only the effort data, not the associated bird data. This can be useful for determining things like "frequency of occurrence" in a region because one can find out when a species was detected, and when it was looked for but not detected. Importantly, checklists (i.e., sampling events) that report zero species will not have any records in the EBD data download but will have a Sampling Event entry in this data resource.

Appendix 1 – eBird Breeding Code Definitions

NY--Nest with Young – Nest with young seen or heard. Typically considered Confirmed.

NE--Nest with Eggs – Nest with eggs. Typically considered Confirmed.

ON--Occupied Nest – Occupied nest presumed by parent entering and remaining, exchanging incubation duties, etc. Typically considered Confirmed.

FL--Recently Fledged young – Recently fledged or downy young observed while still dependent upon adults. Typically considered Confirmed.

FY--Feeding Young – Adult feeding young that have left the nest, but are not yet flying and independent (should not be used with raptors, terns, and other species that may move many miles from the nest site). Typically considered Confirmed.

CS--Carrying Fecal Sac – Adult carrying fecal sac. Typically considered Confirmed.

CF--Carrying Food – Adult carrying food for young (should not be used for corvids, raptors, terns, and certain other species that regularly carry food for courtship or other purposes). Typically considered Confirmed.

DD Confirmed--Distraction Display – Distraction display, including feigning injury. Typically considered Confirmed.

PE--Brood Patch and Physiological Evidence – Physiological evidence of nesting, usually a brood patch. This will be used only very rarely. Typically considered Confirmed.

NB--Nest Building – Nest building at apparent nest site (should not be used for certain wrens, and other species that build dummy nests). Typically considered Confirmed, sometimes Probable.

CN--Carrying Nesting Material – Adult carrying nesting material; nest site not seen. Typically considered Confirmed, sometimes Probable.

T--Territory held for 7+ days – Territorial behavior or singing male present at the same location 7+ days apart. Typically considered Probable.

C--Courtship, Display or Copulation – Courtship or copulation observed, including displays and courtship feeding. Typically considered Probable.

N--Probable--Visiting probable Nest site – Visiting repeatedly probable nest site (primarily hole nesters). Typically considered Probable.

A--Agitated behavior – Agitated behavior or anxiety calls from an adult (ex. "pishing" and strong tape responses). Typically considered Probable.

P--Pair in suitable habitat – Pair observed in suitable breeding habitat within breeding season. Typically considered Probable.

S--Singing male – Singing male present in suitable nesting habitat during its breeding season. Typically considered Possible.

H--In appropriate habitat – Adult in suitable nesting habitat during its breeding season. Typically considered Possible.

F Flyover – Flying over only. This is not necessarily a breeding code, but can be a useful behavioral distinction.

Appendix 2. eBird Protocol Types and Definitions

The below protocols are current, active protocols available in eBird (<http://ebird.org>) for data entry. This list is sequenced as in eBird, with more common protocols at the top of the list.

Traveling – Observations made over a known period of time while traveling a known distance are classified as a Traveling Count. You should be able to estimate the distance that you traveled during your outing, which can be walking, driving, or even by boat. If you do have a reliable estimate of the area you covered while you recorded the species, consider entering your observations as an Exhaustive Area Count. If you aren't sure of the distance or area you covered, please enter your observation as a Casual Observation. Examples of Traveling Counts are: walking a trail at a local park, driving an auto loop at a National Wildlife Refuge, participating on a pelagic (boat) trip, or even birding while jogging through your neighborhood. Required Date/Effort fields: Date, Start Time, Duration, and Distance Covered.

Stationary – Observations made over a known period of time, but without any distance/area components, are classified as a Stationary Count. This does not mean you must stand completely still as you record the birds, but you should remain in an area approximately 30 meters (30 yards) in diameter while you are recording birds. If you move much farther than that, you should consider entering your observations as a Traveling Count or an Exhaustive Area Count. Examples of Stationary Counts are: a hawk watch, lake watch, or sea watch, or even sitting in your backyard for a period of time identifying birds. Required Date/Effort fields: Date, Start Time, and Duration.

Historical – Birding was the primary purpose, but start time, duration, or distance could not be estimated. This protocol allows start time, duration, and distance to be entered, but none is required. Required Date/Effort fields: Date

Incidental – Observations do not include or distance/area components are classified as Incidental Sightings. Examples of an Incidental Sighting are: an oriole that flies by while you are checking your mail, a hummingbird feeding in your backyard while you wash dishes, a grouse just off the side of the road while you drive to work, or a flock of waxwings that move through your yard while you are weeding your garden. Note: This formerly was referred to as "Casual Observation." Required Date/Effort fields: Date.

Area – Area Counts are made while thoroughly searching a given location or area. These types of counts are sometimes used by biologists when monitoring a specific site, however, they can be appropriate for casual birding if you are able to estimate the size (acres or hectares) of the area you searched. The key measure of effort is the size of your area. Secondary measures of effort are time (duration) and distance traveled. If you are unsure of the size of your search area, but have a reliable estimate of the distance you traveled, consider submitting your observations as Travel Counts. If you are unsure of the area you covered, but have a reliable estimate of distance, consider entering your observations as a Traveling Count. Examples of Area Counts include: actively searching a local park or woodlot for breeding birds or canoeing back and forth through a marsh to count wading birds. A birding trek around your neighborhood or privately owned property can be an Area Count if you are able to estimate the size of the area you searched. Required Date/Effort fields: Date, Start Time, Duration, and Area Covered.

Banding – Protocol for banding/ringing operations to report either captured birds or full surveys of a site that combine netted and observed birds. Answer "no" to "are you reporting all species" if you are only reporting netted birds; answer "yes" if you include netted and observed birds. Please read full protocol at this link:
<http://help.ebird.org/customer/portal/articles/1385631>.

eBird Pelagic Protocol – Specialized protocol for pelagic birding. Please visit this URL for the full protocol description: <http://help.ebird.org/customer/portal/articles/1375503>.

Nocturnal Flight Call Count – Stationary Count protocol specifically designed to record nocturnally migrating birds. More specifics can be found here:
<http://help.ebird.org/customer/portal/articles/1010492>.

Oiled Birds – Traveling counts conducted to find and record oiled birds. Required Date/Effort fields: Date, Start Time, Duration, and Distance Covered.

Random – Observations made at a randomly selected location over period of at least five minutes. This protocol relates to how the location was selected. For other eBird

protocols, the birder selects the location, but the eBird Random Count is different in that the birder randomly selects the location, thus eliminating the bias inherent when birders select areas that they deem to be 'good for birds'. To find a random location travel 3 or 5 miles from the last location you selected in any direction. Choose 3 or 5 miles depending on how much ground you intend to cover for the day, and try to avoid double-counting birds from a previous birding location (i.e., travel farther in open habitats than in forested ones). Stop at the first available, safe, location and conduct your count for at least five minutes, keeping track of duration and distance. Required Date/Effort fields: Date, Start Time, Duration, and Distance Covered. Distance can be zero (i.e., a 'Stationary Count').

TNC California Waterbird Count – Stationary Count explicitly used for The Nature Conservancy's waterbird surveys in California's Central Valley. Stationary Count of at least 5 min duration where all species are recorded and counted in an unlimited radius around the count location. Location selection is up to the observer, but see: http://www.conserveca.org/blog_multimedia/ca-sac-valley-birding-sites.pdf. for TNC regions of special focus. To add value to your data for this effort, please consider conducting another Stationary Count 1 mile from the current location in any safe cardinal direction. This "paired" count will help determine what birds are in the surrounding area, and help create a series of bird counts that are less location biased. If you do conduct a paired count, please put "Paired Count" in the checklist comments field during data entry. For more about TNC's BirdReturns project click: http://www.conserveca.org/blog_multimedia/precision-conservation.xml.

CWC Point Count – Caribbean Waterbird Census observations made from a specific location censusing a defined area. Recommended duration is 6, 9 or 12 minutes though longer durations (add increments of 3 minutes) may be necessary for certain counts. Note that this protocol is also used in Central America.

CWC Area Search – Caribbean Waterbird Census observations made while traveling and censusing within a defined area. Examples include walking along existing boardwalk or shoreline and counting birds in the entire wetland. Recommended duration is 5-20 minutes though longer durations may be necessary for certain searches. Note that this protocol is also used in Central America.

Rusty Blackbird Spring Migration Blitz – Same as 'Traveling Count' above, but conducted by observers specifically searching for Rusty Blackbirds. Required Date/Effort fields: Date, Start Time, Duration, and Distance Covered.

California Brown Pelican Survey – To be used specifically for data entry for the California Brown Pelican Survey, a targeted biannual survey of Brown Pelicans on the Pacific Coast. Details about the survey methodology can be found here: <http://ca.audubon.org/brownpelicansurvey>.

PROALAS – Stationary Count used for the Latin American Landbird Program (Programa de América Latina para Aves Silvestres: PROALAS). Stationary Count of at least 10 min duration where all species are recorded and counted both inside (< 30m) and outside (> 30m) of the radius around the count location. Location selection is up to the observer, or as specified by partner organizations. Required Date/Effort fields: Date, Start Time, and Duration.

Audubon Coastal Bird Survey – Observations made as part of the official Audubon Coastal Bird Survey. See <http://www.audubon.org/content/audubon-coastal-bird-survey>. For more information. Required Date/Effort fields: Date, Start Time, Duration, and Distance.

International Shorebird Survey (ISS) – This protocol is specifically to be used for the International Shorebird Survey, coordinated by Manomet (<https://www.manomet.org/>). If you want to learn how to become a part of the ISS, or more about the project, visit the ISS website: <https://www.manomet.org/program/shorebird-recovery/international-shorebird-survey-iss>. Date, Start Time, Duration, and Area (note: prior to November 2017, Distance was required, instead of Area).

Tricolored Blackbird Winter Survey – This Stationary Count protocol is specifically to be used for the Tricolored Blackbird Winter Survey, within the range of Tricolored Blackbird (primarily in California), and coordinated by Audubon California. Read about the survey protocols here: <http://ca.audubon.org/conservation/protocol-tricolored-blackbird-winter-survey>. Required Date/Effort fields: Date, Start Time, and Duration.

Appendix 3. Additional Protocol Types and Definitions

The below protocols are utilized in species eBird portals or are protocols that are no longer used for active eBird data entry. These are relatively rare compared to the above protocols. Asterisked protocols are no longer available for new data entry, but may apply to some older data.

BirdLife Australia 20min-2ha survey – eBird Australia only. The 20min-2ha survey is BirdLife Australia's preferred method for general [Atlassing](#) and involves searching a two hectare area for 20 minutes. Ideally the area represents one habitat type only. The two hectare survey area could be any shape such as a rectangle of 100m x 200m, a circle with a radius of 80m, or a strip 400m long and 50 wide. If possible, count all individuals of all species heard or seen within the two hectare survey area including birds flying over the area, but not individuals heard or seen outside the survey area. If possible the survey site should be revisited regularly. See full description of protocol [here](#).

BirdLife Australia 5 km radius search – eBird Australia only. The 5km radius area search is similar to the 500m radius area search, but covers a larger area. The area searched should extend beyond 500m, but is within 5km from a central point. The survey area can be any shape and surveys can take from 20 minutes to many hours, as required. If

possible, count all individuals of all species heard or seen within the survey area including birds flying over the area, but not individuals heard or seen outside the survey area. See full description of protocol [here](#).

BirdLife Australia 500m radius search – eBird Australia only. The 500m radius search is designed to offer an observer more flexibility than the 2ha search. The survey area can be any shape and size within a 500m radius from a central point and surveys can take from a minimum of 20 minutes to many hours, as required. If possible, count all individuals of all species heard or seen within the survey area including birds flying over the area, but not individuals heard or seen outside the survey area. See full description of protocol [here](#).

Birds 'n' Bogs Survey – eBird Alaska only. Use this protocol to report Birds 'n' Bogs surveys between May 15 and June 1. Select your location from the Hot Spots list, and include behavior information when possible (Flyover, Singing Male, Courtship/Copulation, or Agitated Behavior). Enter any sightings of band combinations or geolocators in the 'species comments' section. For more information about the project, visit: <http://ak.audubon.org/birds-n-bogs-citizen-science-project>.

Breeding Bird Atlas – PortugalAves eBird only. Systematic 30 minutes counts in tetrads (2x2km sub-squares), distributed in a given 10x10km square, with recording of breeding code.

CAC--Common Bird Survey – PortugalAves eBird only. Survey at least 20 point counts of five minutes each, distributed in a given 10x10km square. The points should be located at least 1km distant from each other and represent the main habitats of the square. Each square must be visited twice per year. The first visit is to take place in April and the second in May (in the Azores, the season runs 15 days later), with a minimum of 30 days between them. Each visit to the total set of 20 points must be made within four hours of sunrise. The duration of each point count is 5 minutes. During these five minutes counts, record the total number of each species, detected by sight or by call, in each distance band to the observer (0-25m band and band> 25m).

Caribbean Martin Survey – eBird Caribbean only. Observations of Caribbean Martin at a roost site around sunset when the birds are flying into the roost or during the night when the birds are sleeping. Recommended dates: 15-18 September, duration 30-60+ minutes. Protocol and data spreadsheet are available [here](#).

Coastal Shorebird Survey – eBird Peru only. This protocol should be used only by those following the Peru Coastal Shorebird Survey Protocol. Depending on habitat type, this is a Traveling Count or Area Count. For species seen outside of the Area, please enter a separate checklist from this area.

Great Texas Birding Classic – Texas eBird only. Observations made as part of the Great

Texas Birding Classic big day.

Greater Gulf Refuge Waterbird Count – Specialized protocol to monitor specific management areas in National Wildlife Refuges that have been managed to provide additional habitat for migratory species.

Heron Area Count* – Same as 'Area Count' above, but observers focused on counting herons. Required Date/Effort fields: Date, Start Time, Duration, and Area Covered. [note: this protocol is not longer active and no longer available for new submissions as of 2017]

Heron Stationary Count* – Same as 'Stationary Count' above, but observers focused on counting herons. Required Date/Effort fields: Date, Start Time, and Duration. [note: this protocol is not longer active and no longer available for new submissions as of 2017]

IBA Canada (protocol) – eBird Canada only. Observations made entirely within a single Canadian Important Bird Area (<http://www.ibacanada.org>). Here is a complete protocol description: http://www.ibacanada.org/documents/eBird_IBA_protocol.pdf.

LoonWatch – Vermont eBird only. Common Loon observations made for a specific lake area. Examples include a thorough survey of an entire lake or a portion of a lake during the breeding season.

My Yard Count*—My yard counts was a project run by the Cornell Lab of Ornithology that gathered observation around residences in rural, suburban and urban settings. All observations were conducted for 20 minutes and included birds seen in an area of approximately 0.5 acres or less. The most significant difference from most eBird protocols is that the count is the maximum number of individuals seen *at any one time*. [note: this protocol is not longer active and no longer available for new submissions as of 2017. Formerly available for entry in My Yard eBird only.]

RAM--Iberian Seawatch Network – PortugalAves eBird only. Monthly seabird counts from coastal points over the first three hours of the day with no interruption. RAM points are visited on the first Saturday of each month. Seabird counts are performed from coastal points or capes over 3 hours, with no interruption (7:00 to 10:00 a.m. from May to September; 8:00 to 11:00 a.m. from October to April). A 20x60 telescope is fixed and pointed toward the sea, perpendicular to the coastline. A second observer uses binoculars to count birds that pass outside of the telescope field of view. Counts are divided in 5 minutes blocks, and start time for each block, seabird species, number and behavior code must be recorded. Other bird species should also be recorded, such as waders, ducks, and birds of prey. Other marine groups such as marine mammals, turtles, sunfish, sharks, tunas, can be recorded in the 'checklist comments'.

Standardized Yard Count* –The highest number of each species seen within a half acre

around your residence during a 20 minute count, with the count repeated at the same time and place on three consecutive days. [note: this protocol is not longer active and no longer available for new submissions as of 2017. Formerly available for entry in My Yard eBird only.]

Trail Tracker – eBird entries collected via the eBird Trail Tracker <http://trailtracker.org/>. At participating parks and refuges, Trail Tracker kiosks can be found at Visitors' Centers and other public spaces. Birders can enter in eBird via these kiosks, although they are not linked to personal accounts. Formerly referred to as "Kiosk" protocol.

Traveling - Property Specific – Wisconsin Breeding Bird Atlas only. Observations made while birding over a specified distance (preferably <5 mi) and duration and according to WBBA II guidelines on locational precision (<http://wsobirds.org/images/atlas/Locationprecision.pdf>). Examples include walking around a state natural area, driving a refuge loop, and biking roads entirely through private lands. For routes that return along the same pathway, either submit a different checklist for the return trip or enter the one-way distance. Duration should cover the entire time spent birding, regardless of whether you needed to backtrack.

Waterbird Count* – Also known as the "RMBO Early Winter Waterbird Count" (RMBO = Rocky Mountain Bird Observatory). A focused survey of waterfowl on bodies of water in Colorado, with a particular focus on any waterbody where Barrow's Goldeneye was likely to occur. For more information see: <http://www.rmbo.org/v3/Portals/0/Documents/Science/2002/MCBfinalreport2002.pdf> [note: this protocol is not longer active and no longer available for new submissions as of 2017]

Yellow-billed Magpie Survey - General Observations* – Same as 'Incidental Observation' above, but observers were specifically searching for Yellow-billed Magpies. Required Date/Effort fields: Date. [note: this protocol is not longer active and no longer available for new submissions as of 2017]

Yellow-billed Magpie Survey - Traveling Count* – Same as 'Traveling Count' above, but conducted by observers specifically searching for Yellow-billed Magpies. Required Date/Effort fields: Date, Start Time, Duration, and Distance Covered. [note: this protocol is not longer active and no longer available for new submissions as of 2017]