

Package ‘rebird’

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Title R Client for the eBird Database of Bird Observations

Description A programmatic client for the eBird database, including functions for searching for bird observations by geographic location (latitude, longitude), eBird hotspots, location identifiers, by notable sightings, by region, and by taxonomic name.

Depends R (>= 2.10)

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URL <http://github.com/ropensci/rebird>

BugReports <http://github.com/ropensci/rebird/issues>

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ebirdfreq	<i>Download historical frequencies of bird observations from eBird</i>
-----------	--

Description

Download historical frequencies of bird observations from eBird

Usage

```
ebirdfreq(loctype, loc, startyear = 1900, endyear = format(Sys.Date(),
"%Y"), startmonth = 1, endmonth = 12, long = TRUE, ...)
```

Arguments

loctype	String with location type. Either "states", "counties", or "hotspots".
loc	String with location identifier. If querying states or provinces, the two letter country code followed by the two letter state code and separated by "-" (e.g. "US-NY"). If querying counties, is as in states/provinces, but appending county identifier after a dash. For counties in the US, the county codes is a 3-digit number specific to each state (e.g. Bronx County: "US-NY-005"). For counties in Canada, county codes are two-letter identifiers (e.g. Metro Vancouver: "CA-BC-GV"). If querying hotspots then the unique identifier is a 6-digit number prepended with an "L" (e.g. "L196159"). All these codes can be found by looking at the URL in each respective location/hotspot webpage (which are accessible through the "Explore Data" tab).
startyear	Starting year for query. Defaults to 1900.
endyear	Ending year for query. Defaults to current year specified by Sys.Date().
startmonth	Starting month for query as an integer (1-12). Defaults to January.
endmonth	Ending month for query as an integer (1-12). Defaults to December.

long Logical, Should output be in long format? Defaults to TRUE. If FALSE then output will be in wide format.
 ... Curl options passed on to [GET](#)

Value

A data frame containing the collected information. If in long format:
 "monthQt": month and week (eBird data divides each month by four weeks)
 "comName": species common name
 "frequency": proportion of times the species was seen in a specified week
 "sampleSize" number of complete eBird checklists submitted for specified given week @return If in wide format, then first column is the species list and all other columns are of individual weeks (four in each month). First row contains the number of complete checklists for each week.

Author(s)

Andy Teucher <andy.teucher@gmail.com>, Sebastian Pardo <sebparado@gmail.com>

References

<http://ebird.org/>

Examples

```
## Not run:
ebirdfreq("states", "US-NY", 2014, 2014, 1, 12)
ebirdfreq("counties", "CA-BC-GV", 1900, 2015, 1, 3)
ebirdfreq("hotspots", "L196159", long=FALSE)

## End(Not run)
```

ebirdgeo

Sightings at location determined by latitude/longitude

Description

Returns the most recent sighting date and specific location for the requested species of bird reported within the number of days specified and reported in the specified area.

Usage

```
ebirdgeo(species = NULL, lat = NULL, lng = NULL, dist = NULL,
         back = NULL, max = NULL, locale = NULL, provisional = FALSE,
         hotspot = FALSE, sleep = 0, key = NULL, ...)
```

Arguments

species	Species code of the species of interest. Scientific names can be specified if wrapped around the <code>species_code</code> function. Defaults to NULL, so sightings for all species are returned. See eBird taxonomy for more information: http://ebird.org/content/ebird/about/ebird_taxonomy
lat	Decimal latitude. value between -90.00 and 90.00, up to two decimal places of precision. Defaults to latitude based on IP.
lng	Decimal longitude. value between -180.00 and 180.00, up to two decimal places of precision. Defaults to longitude based on IP.
dist	Distance defining radius of interest from given lat/lng in kilometers (between 0 and 50, defaults to 25)
back	Number of days back to look for observations (between 1 and 30, defaults to 14).
max	Maximum number of result rows to return in this request (between 1 and 10000, defaults to all).
locale	Language/locale of response (when translations are available). See http://java.sun.com/javase/6/docs/api/j (defaults to en_US).
provisional	Should flagged records that have not been reviewed be included? (defaults to FALSE).
hotspot	Should results be limited to sightings at birding hotspots? (defaults to FALSE).
sleep	Time (in seconds) before function sends API call (defaults to zero. Set to higher number if you are using this function in a loop with many API calls).
key	ebird API key. You can obtain one from https://ebird.org/api/keygen . We strongly recommend storing it in your <code>.Renviron</code> file as an environment variable called <code>EBIRD_KEY</code> .
...	Curl options passed on to GET

Value

A data.frame containing the collected information:

"comName": species common name

"howMany": number of individuals observed, NA if only presence was noted

"lat": latitude of the location

"lng": longitude of the location

"locID": unique identifier for the location

"locName": location name

"locationPrivate": TRUE if location is not a birding hotspot

"obsDt": observation date formatted according to ISO 8601 (e.g. 'YYYY-MM-DD', or 'YYYY-MM-DD hh:mm'). Hours and minutes are excluded if the observer did not report an observation time.

"obsReviewed": TRUE if observation has been reviewed, FALSE otherwise

"obsValid": TRUE if observation has been deemed valid by either the automatic filters or a regional viewer, FALSE otherwise

"sciName" species' scientific name

Author(s)

Rafael Maia <rm72@zips.uakron.edu>, Sebastian Pardo <sebparado@gmail.com>

References

<http://ebird.org/>

Examples

```
## Not run:
ebirdgeo('amegfi', 42, -76) # American Goldfinch
ebirdgeo(species_code('spinus tristis'), 42, -76) # same as above
ebirdgeo(lat=42, lng=-76, max=10, provisional=TRUE, hotspot=TRUE)
ebirdgeo(species_code('Anas platyrhynchos'), 39, -121, max=5)
library('httr')
ebirdgeo(species_code('Anas platyrhynchos'), 39, -121, max=5, config=verbose())
ebirdgeo(species_code('Anas platyrhynchos'), 39, -121, max=5, config=progress())
# ebirdgeo(species_code('Anas platyrhynchos'), 39, -121, max=5, config=timeout(0.1))

## End(Not run)
```

ebirdhotspot

Recent observations at hotspots

Description

Returns the most recent sighting information reported in a given vector of hotspots.

Usage

```
ebirdhotspot(locID, species = NULL, back = NULL, max = NULL,
  locale = NULL, provisional = FALSE, sleep = 0, key = NULL, ...)
```

Arguments

- locID (required) Vector containing code(s) for up to 10 regions of interest; here, regions are the locIDs of hotspots. Values that are not valid or are not hotspots are ignored.
- species Scientific name of the species of interest (not case sensitive). Defaults to NULL, in which case sightings for all species are returned. See eBird taxonomy for more information: <http://ebird.org/content/ebird/about/ebird-taxonomy>
- back Number of days back to look for observations (between 1 and 30, defaults to 14).

max	Maximum number of result rows to return in this request (between 1 and 10000, defaults to all)
locale	Language/locale of response (when translations are available). See http://java.sun.com/javase/6/docs/api/ (defaults to en_US)
provisional	Should flagged records that have not been reviewed be included? (defaults to FALSE)
sleep	Time (in seconds) before function sends API call (defaults to zero. Set to higher number if you are using this function in a loop with many API calls).
key	ebird API key. You can obtain one from https://ebird.org/api/keygen . We strongly recommend storing it in your <code>.Renvi ron</code> file as an environment variable called <code>EBIRD_KEY</code> .
...	Curl options passed on to GET

Value

A `data.frame` containing the collected information:

"comName": species common name

"howMany": number of individuals observed, NA if only presence was noted

"lat": latitude of the location

"lng": longitude of the location

"locID": unique identifier for the location

"locName": location name

"locationPrivate": TRUE if location is not a birding hotspot

"obsDt": observation date formatted according to ISO 8601 (e.g. 'YYYY-MM-DD', or 'YYYY-MM-DD hh:mm'). Hours and minutes are excluded if the observer did not report an observation time.

"obsReviewed": TRUE if observation has been reviewed, FALSE otherwise

"obsValid": TRUE if observation has been deemed valid by either the automatic filters or a regional viewer, FALSE otherwise

"sciName" species' scientific name

Author(s)

Rafael Maia <rm72@zips.uakron.edu>

References

<http://ebird.org/>

Examples

```
## Not run:
ebirdhotspot(locID=c('L99381','L99382'), species='larus delawarensis')
ebirdhotspot('L99381', max=10, provisional=TRUE)

## End(Not run)
```

ebirdloc *Recent observations at a locality*

Description

Returns the most recent sighting information reported in a given vector of locations (including non-hotspots).

Usage

```
ebirdloc(locID, species = NULL, back = NULL, max = NULL,
         locale = NULL, provisional = FALSE, simple = TRUE, sleep = 0,
         key = NULL, ...)
```

Arguments

locID	(required) Vector containing code(s) for up to 10 regions of interest; here, values that are not hotspots are returned. Values that are not valid are ignored.
species	Scientific name of the species of interest (not case sensitive). Defaults to NULL, in which case sightings for all species are returned. See eBird taxonomy for more information: http://ebird.org/content/ebird/about/ebird-taxonomy
back	Number of days back to look for observations (between 1 and 30, defaults to 14).
max	Maximum number of result rows to return in this request (between 1 and 10000, defaults to all)
locale	Language/locale of response (when translations are available). See http://java.sun.com/javase/6/docs/api/j (defaults to en_US)
provisional	Should flagged records that have not been reviewed be included? (defaults to FALSE)
simple	Logical. Whether to return a simple (TRUE, default) or detailed (FALSE) set of results fields.
sleep	Time (in seconds) before function sends API call (defaults to zero. Set to higher number if you are using this function in a loop with many API calls).
key	ebird API key. You can obtain one from https://ebird.org/api/keygen . We strongly recommend storing it in your .Renvi ron file as an environment variable called EBIRD_KEY.
...	Curl options passed on to GET

Value

A data.frame containing the collected information:

"comName": species common name

"howMany": number of individuals observed, NA if only presence was noted

"lat": latitude of the location
 "lng": longitude of the location
 "locID": unique identifier for the location
 "locName": location name
 "locationPrivate": TRUE if location is not a birding hotspot
 "obsDt": observation date formatted according to ISO 8601 (e.g. 'YYYY-MM-DD', or 'YYYY-MM-DD hh:mm'). Hours and minutes are excluded if the observer did not report an observation time.
 "obsReviewed": TRUE if observation has been reviewed, FALSE otherwise
 "obsValid": TRUE if observation has been deemed valid by either the automatic filters or a regional viewer, FALSE otherwise
 "sciName" species' scientific name
 "subnational2Code": county code (returned if simple=FALSE)
 "subnational2Name": county name (returned if simple=FALSE)
 "subnational1Code": state/province ISO code (returned if simple=FALSE)
 "subnational1Name": state/province name (returned if simple=FALSE)
 "countryCode": country ISO code (returned if simple=FALSE)
 "countryName": country name (returned if simple=FALSE)
 "userDisplayName": first and last name of the observer (returned if simple=FALSE)
 "firstName": observer's first name (returned if simple=FALSE)
 "lastName": observer's last name (returned if simple=FALSE)
 "subID": submission ID (returned if simple=FALSE)
 "obsID": observation ID (returned if simple=FALSE)
 "checklistID": checklist ID (returned if simple=FALSE)
 "presenceNoted": 'true' if user marked presence but did not count the number of birds. 'false' otherwise (returned if simple=FALSE)

Author(s)

Rafael Maia <rm72@zips.uakron.edu>

References

<http://ebird.org/>

Examples

```
## Not run:
ebirdloc(locID = c('L99381', 'L99382'))
ebirdloc('L99381', 'Branta canadensis', provisional=TRUE)

## End(Not run)
```


ebirdnotable

Recent nearby notable observations

Description

Returns the most recent notable observations by either latitude/longitude, hotspot or location ID, or particular region.

Usage

```
ebirdnotable(lat = NULL, lng = NULL, dist = NULL, locID = NULL,
             region = NULL, back = NULL, max = NULL, provisional = FALSE,
             hotspot = FALSE, simple = TRUE, sleep = 0, key = NULL, ...)
```

Arguments

lat	Decimal latitude. value between -90.00 and 90.00, up to two decimal places of precision.
lng	Decimal longitude. value between -180.00 and 180.00, up to two decimal places of precision.
dist	Distance defining radius of interest from given lat/lng in kilometers (between 0 and 50, defaults to 25)
locID	Vector containing code(s) for up to 10 locations of interest.
region	Region code corresponding to selected region type. For supported region and coding, see https://confluence.cornell.edu/display/CLOISAPI/eBird-1.1-RegionCodeReference
back	Number of days back to look for observations (between 1 and 30, defaults to 14).
max	Maximum number of result rows to return in this request (between 1 and 10000, defaults to all).
provisional	Should flagged records that have not been reviewed be included? (defaults to FALSE)
hotspot	Should results be limited to sightings at birding hotspots? (defaults to FALSE).
simple	Logical. Whether to return a simple (TRUE, default) or detailed (FALSE) set of results fields.
sleep	Time (in seconds) before function sends API call (defaults to zero. Set to higher number if you are using this function in a loop with many API calls).
key	ebird API key. You can obtain one from https://ebird.org/api/keygen . We strongly recommend storing it in your .Renvi ron file as an environment variable called EBIRD_KEY.
...	Curl options passed on to GET

Value

A data.frame containing the collected information:

"speciesCode": species code

"comName": species common name

"sciName" species' scientific name

"locID": unique identifier for the location

"locName": location name

"obsDt": observation date formatted according to ISO 8601 (e.g. 'YYYY-MM-DD', or 'YYYY-MM-DD hh:mm'). Hours and minutes are excluded if the observer did not report an observation time.

"howMany": number of individuals observed, NA if only presence was noted

"lat": latitude of the location

"lng": longitude of the location

"obsValid": TRUE if observation has been deemed valid by either the

"obsReviewed": TRUE if observation has been reviewed, FALSE otherwise

"locationPrivate": TRUE if location is not a birding hotspot automatic filters or a regional viewer, FALSE otherwise

"subnational2Code": county code (returned if simple=FALSE)

"subnational2Name": county name (returned if simple=FALSE)

"subnational1Code": state/province ISO code (returned if simple=FALSE)

"subnational1Name": state/province name (returned if simple=FALSE)

"countryCode": country ISO code (returned if simple=FALSE)

"countryName": country name (returned if simple=FALSE)

"userDisplayName": observer's eBird username (returned if simple=FALSE)

"subID": submission ID (returned if simple=FALSE)

"obsID": observation ID (returned if simple=FALSE)

"checklistID": checklist ID (returned if simple=FALSE)

"presenceNoted": 'true' if user marked presence but did not count the number of birds. 'false' otherwise (returned if simple=FALSE)

"firstName": observer's first name (returned if simple=FALSE)

"lastName": observer's last name (returned if simple=FALSE)

Note

ebirdnotable requires that either latitude/longitude, location ID, or region be passed to the function. Multiple entries will result in the most specific being used. If none is supplied, defaults to lat/lng based on your IP.

Author(s)

Rafael Maia <rm72@zips.uakron.edu>, Sebastian Pardo <sebparado@gmail.com>

References

<http://ebird.org/>

Examples

```
## Not run:
ebirdnotable(lat=42, lng=-70)
ebirdnotable(region='US', max=10)
ebirdnotable(region='US-OH')
ebirdnotable(region='CA-NS-HL')
ebirdnotable(locID = c('L275836', 'L124345'))

## End(Not run)
```

ebirdregion

Recent observations at a region or hotspot

Description

Returns the most recent sighting information reported in a given region or hotspot.

Usage

```
ebirdregion(loc, species = NULL, back = NULL, max = NULL,
  locale = NULL, provisional = FALSE, hotspot = FALSE,
  simple = TRUE, sleep = 0, key = NULL, ...)
```

Arguments

loc	(required) Region code or locID (for hotspots). Region code can be country code (e.g. "US"), subnational1 (states/provinces, e.g. "US-NV"), or subnational2 code (counties, e.g. "CA-BC-GV").
species	eBird species code. See ebirdtaxonomy for a full list of scientific names, common names, and species codes. Alternatively, you can wrap the scientific name in the species_code function which will return the eBird species code. Defaults to NULL, in which case sightings for all species are returned. See eBird taxonomy for more information: http://ebird.org/content/ebird/about/ebird-taxonomy
back	Number of days back to look for observations (between 1 and 30, defaults to 14).
max	Maximum number of result rows to return in this request (between 1 and 10000, defaults to all)
locale	Language/locale of response (when translations are available). See http://java.sun.com/javase/6/docs/api/java/util/Locale.html and https://help.ebird.org/customer/portal/articles/1596582-common-name-translations-in-ebird (defaults to en_US).

provisional	Should flagged records that have not been reviewed be included? (defaults to FALSE)
hotspot	Should results be limited to sightings at birding hotspots? (defaults to FALSE).
simple	Logical. Whether to return a simple (TRUE, default) or detailed (FALSE) set of results fields. Detailed results are only available if loc is a locID.
sleep	Time (in seconds) before function sends API call (defaults to zero. Set to higher number if you are using this function in a loop with many API calls).
key	ebird API key. You can obtain one from https://ebird.org/api/keygen . We strongly recommend storing it in your <code>.Renviron</code> file as an environment variable called <code>EBIRD_KEY</code> to avoid having to constantly supply the key, and to avoid accidentally sharing it publicly.
...	Curl options passed on to GET

Value

A data.frame containing the collected information:

"comName": species common name

"howMany": number of individuals observed, NA if only presence was noted

"lat": latitude of the location

"lng": longitude of the location

"locID": unique identifier for the location

"locName": location name

"locationPrivate": TRUE if location is not a birding hotspot

"obsDt": observation date formatted according to ISO 8601 (e.g. 'YYYY-MM-DD', or 'YYYY-MM-DD hh:mm'). Hours and minutes are excluded if the observer did not report an observation time.

"obsReviewed": TRUE if observation has been reviewed, FALSE otherwise

"obsValid": TRUE if observation has been deemed valid by either the automatic filters or a regional viewer, FALSE otherwise

"sciName" species' scientific name

Author(s)

Rafael Maia <rm72@zips.uakron.edu>

References

<http://ebird.org/>

Examples

```
## Not run:
ebirdregion(loc = 'US', species = 'btbwar')
ebirdregion(loc = 'US', species = species_code('Setophaga caerulescens')) # same as above
ebirdregion(loc = 'L196159', species = 'bkcchi', back = 30)
ebirdregion('US-OH', max = 10, provisional = TRUE, hotspot = TRUE)

## End(Not run)
```

ebirdregioncheck	<i>Check if a region type is valid</i>
------------------	--

Description

Check if a region type is valid

Usage

```
ebirdregioncheck(loc, key = NULL, ...)
```

Arguments

loc	The location code to be checked.
key	ebird API key. You can obtain one from https://ebird.org/api/keygen . We strongly recommend storing it in your <code>.Renvi</code> ron file as an environment variable called <code>EBIRD_KEY</code> .
...	Curl options passed on to GET

Value

Logical.

Author(s)

Sebastian Pardo <sebpardo@gmail.com>, Andy Teucher <andy.teucher@gmail.com>

References

<http://ebird.org/>

Examples

```
## Not run:
ebirdregioncheck("US")
ebirdregioncheck("CA-BC")
ebirdregioncheck("CA-BC-GV")

## End(Not run)
```

ebirdregioninfo *Region info*

Description

Region info

Usage

```
ebirdregioninfo(loc, format = "full", key = NULL, ...)
```

Arguments

loc	The location code to be checked. A single location only.
format	Different options for displaying hierarchy of the region's name: [nameonly nameequal detailed detailednoq] defaults to full.
key	ebird API key. You can obtain one from https://ebird.org/api/keygen . We strongly recommend storing it in your .Renvi ron file as an environment variable called EBIRD_KEY.
...	Curl options passed on to GET

Value

A data frame containing:

"region": name of the region, varies depending on value of "format" provided

"minX", "maxX", "minY", "minY": lat/long bounds of the region

Author(s)

Sebastian Pardo <sebpardo@gmail.com>, Andy Teucher <andy.teucher@gmail.com>

References

<http://ebird.org/>

Examples

```
## Not run:
ebirdregioninfo("US")
ebirdregioninfo("CA-BC-GV")

## End(Not run)
```

ebirdtaxonomy

eBird Taxonomy

Description

Returns a data.frame of all species in the eBird taxonomy for the given combination of categories. The default category is "species". Any taxon with the category of 'species' may be used as a parameter in service calls that take a scientific name. Any taxon not in this category will be rejected by these services at this time.

Usage

```
ebirdtaxonomy(cat = NULL, locale = NULL, key = NULL, ...)
```

Arguments

cat	Species category. String or character vector with one of more of: "domestic", "form", "hybrid", "intergrade", "issf", "slash", "species", "spuh". For more info about the meaning of species categories, see https://help.ebird.org/customer/en/portal/articles/1006825-the-ebird-taxonomy .
locale	Language/locale of response (when translations are available). See http://java.sun.com/javase/6/docs/api/java/util/Locale.html and https://help.ebird.org/customer/portal/articles/1596582-common-name-translations-in-ebird (defaults to en_US).
key	ebird API key. You can obtain one from https://ebird.org/api/keygen . We strongly recommend storing it in your .Renvi ron file as an environment variable called EBIRD_KEY to avoid having to constantly supply the key, and to avoid accidentally sharing it publicly.
...	Curl options passed on to GET

Value

A data.frame containing the collected information:

"comName": species' common name

"sciName": species' scientific name

"taxonID": Taxonomic Concept identifier, note this is currently in test

Author(s)

Andy Teucher <andy.teucher@gmail.com>

References

<http://ebird.org/>

Examples

```
## Not run:  
ebirdtaxonomy()  
ebirdtaxonomy(cat=c("spuh", "slash"))  
  
## End(Not run)
```

getlatlng	<i>get latitude and longitude from ip address</i>
-----------	---

Description

Returns the most recent and nearest reported sighting information with observations of a species.

Usage

```
getlatlng()
```

Value

a vector of length 2 with lat, lng in that order

Author(s)

Andy Teucher <andy.teucher@gmail.com>

References

<http://ipinfo.io>

Examples

```
## Not run:  
getlatlng()  
  
## End(Not run)
```

nearestobs *Recent nearby observations of a species*

Description

Returns the most recent and nearest reported sighting information with observations of a species.

Usage

```
nearestobs(speciesCode, lat = NULL, lng = NULL, dist = NULL,
           back = NULL, max = NULL, locale = NULL, provisional = FALSE,
           hotspot = FALSE, sleep = 0, key = NULL, ...)
```

Arguments

speciesCode	(required) Species code of the species of interest. Scientific names can be specified if wrapped around the species_code function. Defaults to NULL, so sightings for all species are returned. See eBird taxonomy for more information: http://ebird.org/content/ebird/about/ebird-taxonomy
lat	Decimal latitude. value between -90.00 and 90.00, up to two decimal places of precision. Defaults to latitude based on IP.
lng	Decimal longitude. value between -180.00 and 180.00, up to two decimal places of precision. Defaults to longitude based on IP.
dist	Distance defining radius of interest from given lat/lng in kilometers (between 0 and 50, defaults to 25)
back	Number of days back to look for observations (between 1 and 30, defaults to 14).
max	Maximum number of result rows to return in this request (between 1 and 10000, defaults to all).
locale	Language/locale of response (when translations are available). See http://java.sun.com/javase/6/docs/api/ (defaults to en_US).
provisional	Should flagged records that have not been reviewed be included? (defaults to FALSE).
hotspot	Should results be limited to sightings at birding hotspots? (defaults to FALSE).
sleep	Time (in seconds) before function sends API call (defaults to zero. Set to higher number if you are using this function in a loop with many API calls).
key	ebird API key. You can obtain one from https://ebird.org/api/keygen . We strongly recommend storing it in your <code>.Renvi ron</code> file as an environment variable called <code>EBIRD_KEY</code> .
...	Curl options passed on to GET

Value

A data.frame containing the collected information:

"comName": species common name

"howMany": number of individuals observed, NA if only presence was noted

"lat": latitude of the location.

"lng": longitude of the location.

"locID": unique identifier for the location

"locName": location name

"locationPrivate": TRUE if location is not a birding hotspot

"obsDt": observation date formatted according to ISO 8601 (e.g. 'YYYY-MM-DD', or 'YYYY-MM-DD hh:mm'). Hours and minutes are excluded if the observer did not report an observation time.

"obsReviewed": TRUE if observation has been reviewed, FALSE otherwise

"obsValid": TRUE if observation has been deemed valid by either the automatic filters or a regional viewer, FALSE otherwise

"sciName" species' scientific name

Author(s)

Rafael Maia <rm72@zips.uakron.edu>, Sebastian Pardo <sebpardo@gmail.com>

References

<http://ebird.org/>

Examples

```
## Not run:
nearestobs('cangoo', 42, -76) # Canada Goose
nearestobs(species_code('branta canadensis'), 42, -76) # Same as above
nearestobs(species_code('branta canadensis'), 42, -76, max=10, provisional=TRUE, hotspot=TRUE)

## End(Not run)
```

rebird-deprecated

Deprecated functions in rebird

Description

These functions still work but will be removed (defunct) in the next version.

Details

- **ebirdregioncheck**: Deprecated: 'ebirdregioncheck' will be removed in the next version of rebird. Use 'ebirdregioninfo' instead.
- **ebirdloc**: Deprecated: 'ebirdloc' will be removed in the next version of rebird as it might not be supported in the new eBird API. Use 'ebirdregion' instead.
- **ebirdhotspot**: Deprecated: 'ebirdhotspot' will be removed in the next version of rebird as it might not be supported in the new eBird API. Use 'ebirdregion' instead.

species_code	<i>Return species code</i>
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Description

Returns the species code for a given scientific name. Uses an internally-stored version of the taxonomy. Also provides a message with the common name, scientific name, and species code of the species.

Usage

```
species_code(sciname = NULL)
```

Arguments

sciname	(required) Character string of length 1 with the scientific name to look for. Case insensitive.
---------	---

Value

A character string with the eBird species code.

Author(s)

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References

<http://ebird.org/>

Examples

```
species_code("Anhinga anhinga")
```

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