

# Species distribution map creator

## User Manual

### 1. Prepare your data file containing the species counts and locations.

The data file should be in .xlsx format. The following columns are necessary to fill in:

Column name	Description
site.name	Site name
territory	The country/territory that the site is located
max.count	Maximum count at the site
date	The date that the maximum count is recorded, in text format. Dates in excel can be transformed into text format using this formula: <code>=TEXT(A1,"d mmm yyyy")</code>
species	Species English name
lat	Latitude (in decimal degrees)
lon	Longitude (in decimal degrees)
subsp	Subspecies. If there is no subspecies, put 'NA'.
season	Season. For the colors scheme to be consistent between all species, sites must be listed in the following order in the excel: 'Non-breeding', 'Migration', 'Breeding', 'Year-round'.

Columns which contain information on the data source are optional but recommended:

Column name	Description
ref	A code referring to the reference document of where the count record is extracted.
sitecode	Site code used in the reference document.
primary.source	The primary source of the count record listed in the reference document. The citation can be in author-date or numeric style.

The data file must contain all the columns in the order shown in the example (total: 12 columns).

### Example:

site.name	territory	max.count	date	primary.source	species	sitecode	lat	lon	subsp	season	ref
Eighty Mile Beach	Australia	110,290	17 Oct 1998	AWSG unpubl.b	Bar-tailed Godwit	FSNP-0040	-19.2333	121.4167	menzbieri	non-breeding	WWF.conklin & jaensch
Shoalwater Bay and Broad Sound	Australia	5,151	1 Dec 1995	Driscoll 1996	Bar-tailed Godwit	FSNP-0127	-22.12	150.04	baueri	non-breeding	WWF.conklin & jaensch

2. Upload the data file to the program (link: [https://knotwits.shinyapps.io/eaafp\\_map\\_app/](https://knotwits.shinyapps.io/eaafp_map_app/)). Click 'browse'.

### Interactive Species Distribution Map creator

First upload your data file containing species counts and coordinates of count locations.

**Select data File (in excel format)**

**Browse...** No file selected

Here you can adjust the size of circles shown on the map:

0 3 10

0 1 2 3 4 5 6 7 8 9 10

Create map

Here you can download the season legend for making a static map.

Download Season Legend

3. When upload is complete, click 'create map'

First upload your data file containing species counts and coordinates of count locations.

**Select data File (in excel format)**

**Browse...** d.btg.all.xlsx

Upload complete

Here you can adjust the size of circles shown on the map:

0 3 10

0 1 2 3 4 5 6 7 8 9 10

**Create map**

- Adjust the size of the circles with the slider and click 'Create map' again. When satisfied with the result, click 'Download' to get the map in html format.

## Interactive Species Distribution Map creator

First upload your data file containing species counts and coordinates of count locations.

Select data File (in excel format)

Browse... example.input.xlsx

Upload complete

Here you can adjust the size of circles shown on the map:

0 7 10

Create map

You are creating a distribution map of the example

Download

CartoDB  
CartoDB.NoLabels  
Esri Satellite

Subspecies: aaa  
Subspecies: bbb

Season

- Non-breeding
- Migration
- Breeding
- Year-round

Leaflet | © OpenStreetMap contributors © CARTO

Here you can download the season legend for making a static map.

Download Season Legend

Season

- Non-breeding
- Migration
- Breeding
- Year-round

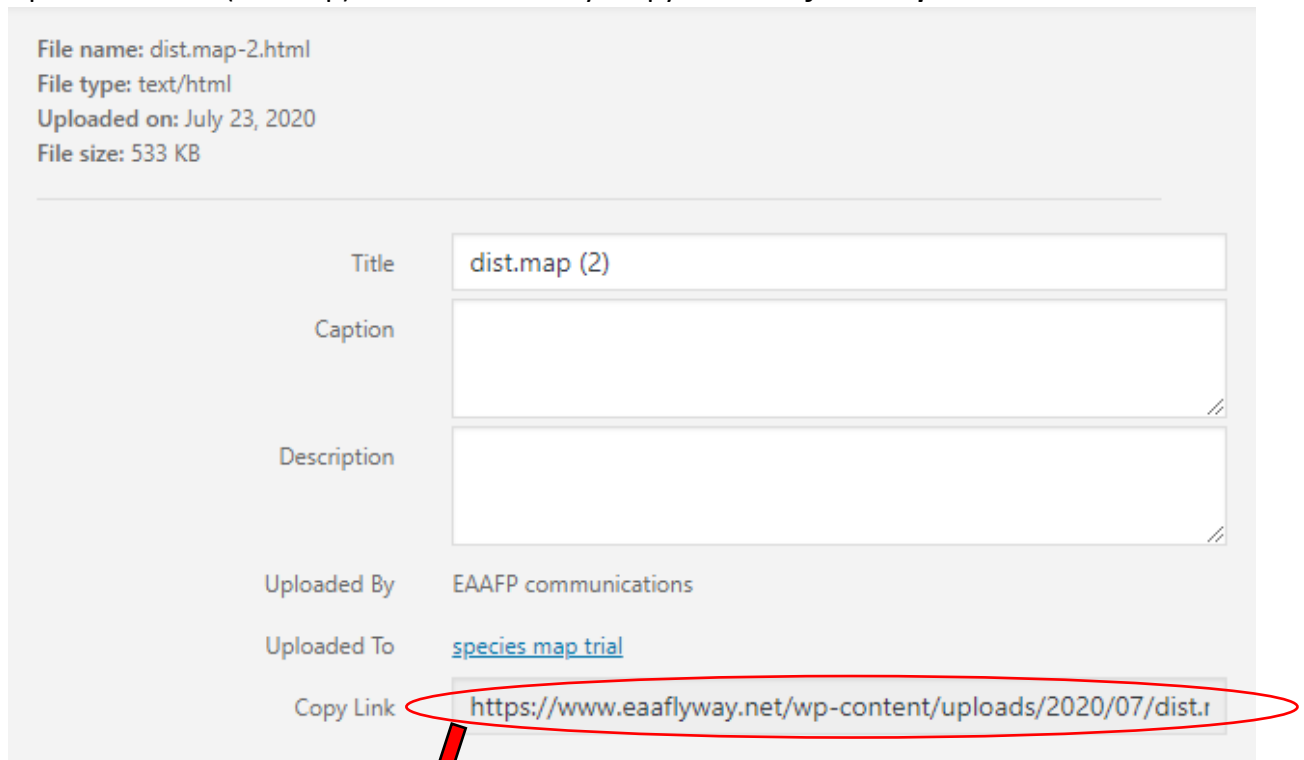
**\*To make a static map, open the html map in a browser and snip the map in your desired size. Download the subspecies legend and paste it at the desired location on your static map.**



Prepared by Ying-Chi Chan, July 2020

### Embed interactive map into wordpress.org website:

1. Install Advanced\_iframe plugin.
2. Upload html file (the map) into Media Library. Copy the ***link of the map***.



The screenshot shows the WordPress Media Library upload form. At the top, it displays file metadata: 'File name: dist.map-2.html', 'File type: text/html', 'Uploaded on: July 23, 2020', and 'File size: 533 KB'. Below this is a form with several fields: 'Title' (containing 'dist.map (2)'), 'Caption', 'Description', 'Uploaded By' (containing 'EAAFP communications'), 'Uploaded To' (containing a blue link 'species map trial'), and 'Copy Link'. The 'Copy Link' field contains the URL 'https://www.eaaflyway.net/wp-content/uploads/2020/07/dist.i', which is circled in red. A red arrow points from this URL down to the third step of the instructions.

3. In the page where the map is to be embedded, enter the following in the text editor:

[advanced\_iframe src="***link of the map***" width="600" height="600"]

Modify the width/height values to adjust the size.