Batch uploading process for BatAMP

Ted Weller - April 8, 2019

The following instructions provide a guide for uploading data from <u>dates within a single</u> <u>calendar year from multiple detectors</u> to the BatAMP data portal. Data from multiple detectors or sites can be uploaded in one batch process using the provided excel template. To do so, the data for each site will need to be aggregated by date and species/groups. Additional site-specific metadata will be required for each row of data. This process will also work for data from a single site.

1) If you have not already done so, join Databasin. Go to www.databasin.org and "Become a Member" or try the following link <u>http://databasin.org/auth/create_account</u>



- 2) Become a member of the BatAMP community <u>http://databasin.org/groups/59d81a3951fd4915909efacbe2317efb</u> or search for BatAMP within Databasin, and join the group.
- 3) Final approvals to join can take 1-48 hours depending on time of day and day of week. In the meantime, you can prepare your data for upload
- 4) Download the 'BatAMP_SpreadsheetUpload_Template.xlsx' file from <u>batamp.databasin.org</u>. The spreadsheet contains the required headings and dropdown menus to format the data for import to the BatAMP data portal.
- 5) Use the template and fill the following fields for each record. The field map can be found at the end of this document, along with a sample of a document showing multiple sites of data in a single file.
 - a. General Headings. Required for all uploads.
 - i. first_name: Data owner or representative's first name
 - ii. last_name: Data owner or representative's last name
 - iii. y_coord: Northing coordinate (decimal degree latitude or UTM N)
 - iv. x_coord: Easting coordinate (decimal degree longitude or UTM E)
 - v. det_mfg: Dropdown menu for detector manufacturer selection.
 - vi. det_model: Dropdown menu for detector model selection.
 - vii. mic_type: Dropdown menu for microphone type selection.
 - viii. refl_type: Dropdown menu for reflector type selection.
 - ix. mic_ht: Height of the microphone above the ground (m or ft).

- x. mic_ht_units: Dropdown menu for units of measure for the microphone height.
- xi. call_id_1: Dropdown menu for primary method of call identification selection.
- xii. call_id_2: Dropdown menu for secondary method of call identification selection.
- xiii. site_id: Identifying name for the detector site.
- xiv. det_id: Identifying name for the detector location within the site (should be unique)
- xv. night: The date of the night (M/D/YYYY). Note: by convention, night is the date recording started and includes recordings after midnight on the next calendar date.



- b. Columns for bat species counts:
 - i. Bat: sum of all bat passes for the night, including those identified and those unidentified. Leave blank if not tabulated in your dataset or in presence datasets.
 - ii. Species: 4-letter species codes. Some commonly encountered species are included, but modify these columns to ADD all species you may have encountered (or at least all those you did record) and DELETE columns that were not applicable in your monitoring.
 - iii. Groups: user-defined groups for bat identification. Some commonly used groups are included but modify to reflect groups used in your work. Groups can be species pairs, e.g., LACITABR or frequency groups e.g., Q25k. Add as many columns as necessary to for your dataset. Groups are used when files can't be identified to species, but do fit in a species group or a frequency group. Delete columns for pre-established groups that were not used in your work.
 - iv. If multiple sites are uploaded in a single file, the species (group) columns will comprise all species (groups) detected across all sites. But cells should be blank for species (groups) not considered at a particular site.

Р	Q	R	S	Т	U	V	W	Х	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
BAT	сото	EPFU	HiF	LABL	LACI	LACITABR	LANO	LoF	MYCA	MYCAMYYU	MYEV	MYEVMYTH	MYLU	MYTH	MYVO	MYYU	Q25k	Q40k	Q50k	TABR
3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0

- c. Populate cells with results for each species or group
 - i. When datasets in which <u>all files are assigned an ID</u>, the cell for each species/night should be populated with the number of files identified for that species. Zero should be used for species that could have been present but were not identified on a given night.
 - ii. For species presence data sets (those in which not all files are assigned an ID; only enough files to confirm a species (group) was present on a given night at a site), cells should be populated with a 1 for presence and a 0 for not detected.
 - iii. If multiple sites with different lists of potential species are uploaded in a single file, cells should be left blank for species that were not considered

possible to detect at a particular site or on a particular night (e.g., species may not be present during January).

- 6) Save filled file with a file name of your choice.
- 7) Upload your completed file to BatAMP.
 - a. Select 'Create' near the top of the page, followed by 'Import a Dataset'.



b. Select 'Spreadsheet' as the file type. 'Browse' for, and select, the file for upload. It can be a .csv or .xls(x).

DATA BAS	SIN IMPORT A DATASET
	Import a Dataset
	Contact us if you have any questions about preparing or importing a dataset into Data Basin or check out our advanced processing and uploading support.
- Im	port ArcGIS Layer Package, NetCDF File, or Spreadsheet with Spatial Coordinates
Fil	e Type: Spreadsheet
	 You can upload a spreadsheet file (.csv, .xls, or .xlsx) with spatial coordinates.
Ch	noose File: Browse FromAccessUploadTest_1.xlsx

c. Check the box to agree to the Databasin terms of use, which can be read by clicking the link in the same location. Click 'Submit'. Databasin will take some time to import your initial dataset at this point.



- d. Select the dataset definition that corresponds to the year in which data was collected (must be within a single calendar year; for multi-year datasets please split into component years) and the type of data being uploaded:
 - i. Use **Echolocation Records YEAR** for datasets where all files are assigned an ID

- ii. Use **Species Presence -- YEAR** for datasets where cells are populated according to whether a species was identified (1) or not detected (0) on a particular night.
- e. Check the box to agree to share data (required). Click 'Next'. You will be taken to another screen.

ir dataset complies with a ition.	dataset definition, you o	an choose it from the list below;	. This will allow your data to be agg	regated with other datasets that share th	e sa
Echolocation Records - 2	013				
NOTE: By choosing t dataset may become definition. Because c dataset itself is shar The author of the dat be shared:	upload this dataset wit part of an aggregate da i this, it's possible the d d. uset definition has also	h this given definition, the data taset with other datasets that si ata will be shared in different wa added information related to ho	rom your are this ys than your w the data will		
Data are restricted shared with group	access and are only s at their discretion.	hared with the owner of this d	finition and		
 Checking this b of your dataset. 	x signifies that you und	erstand that your data may be s	hared outside		

f. Select the projection for the coordinate data entered in the spreadsheet and designate which columns contained the geographic/coordinate data. For Latitude/Longitude data select the projection 'None (WGS 84 Geographic)'. For UTM data select the correct projection to display your data. You will also be asked to input the UTM zone information. Click 'Submit'.

ename: SpreadsheetUpload_Ted2009.xisx loaded: March 8, 2016 Ceographic Setup Projection Choose the coordinate system used by the data in the file. UTM-WGS 84	Import a Dataset	ataset	
Geographic Setup Projection Choose the coordinate system used by the data in the file. UTM-WGS 84 ✓ Zone: 10 ✓ Hemisphere: North ✓ Geographic Columns K Column Specify the column that indicates the x coordinate (e.g., longitude). x_coord ✓ Y Column Specify the column that indicates the y coordinate (e.g., latitude).	ename: SpreadsheetUpload loaded: March 8, 2016 	_Ted2009.xlsx	
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	X Column Specify the column that indic x_coord ▼ Y Column Specify the column that indic	ates the x coordinate (e.g., longitude). ates the y coordinate (e.g., latitude).	
	CANCEL		SI

g. Configure the style for map display of the data. If desired the user can customize the appearance (or styling) of her dataset. This is an option not a necessity. The selected style will depend on the needs of the data owner.



Import a Dataset - Configure Style

Configure the default style for the dataset.

- 8) **Defining the style/symbology for the dataset**. The following instructions describe one method for formatting the symbology of a dataset according to the number of 'bat' files recorded. However, the attribute upon which to base the style is up to the data owner and will likely depend on the goals or focal species of the study (i.e., one can create a style using any of the attributes).
 - a. Select Classes from the top row of the style dialogue. Classes will allow the user to quickly interpret the level of bat activity on the night shown on the map when the data is used in the map viewer.
 - b. Select 'BAT' as the attribute. Selecting BAT will allow the user to view the total bat activity on any given night. By changing the attribute to a species or species-group the user can tailor the initial data view more specifically to the goals of their project.
 - c. Initially select 'Natural Breaks' as the Method, with 5 classes. This will give the user an idea of the range of values present for a particular attribute in their dataset. The user can then decide on the number of classes and the value ranges that best fits their data. After deciding the number of classes, we suggest changing the Method to 'Manual' to self-define the classes. The system is designed so that the class values are greater than or equal to the lowest value in the class and less than the highest value in the class, e.g. a range of 1-26 in the values corresponds to 1-25 'bat' files.
 - d. When defining the classes and class style, we recommend the first class only contain 0. A black 'X' works well as the symbol. To change the symbol just click on the symbol next to the '0' class, and select the chosen symbol, in this case an

'X'. It is recommended that the first class contain only 0, since 0 signifies no activity and all other values signify that nightly activity occurred.

e. Continue styling each of the other classes in your dataset using different color, size, and style of markers.

style	values		Laber	
	>=	<		
	Minimum			
×	1		0	

- **f.** The time slider on the right can be used to set the 'Current Time', which will be the date of the data displayed in the initial extent when the data is viewed in the map viewer. To use 'Current Time' display make sure to check the box below the time slider.
- g. Click 'Submit' to be taken to the next page.
- 9) Input additional metadata for the upload.
 - a. On the Overview tab:
 - i. Required Inputs.
 - 1. Credits: List those who contributed to this data.
 - 2. Descriptions: A detailed, relevant, description of how the data was collected, e.g. the equipment used, notes on data processing, and goals of the study.
 - 3. Tags: Some tags to recognize the data in the system, e.g. bats, echolocation, etc.
 - ii. Optional inputs:
 - 1. Download link: an internet address to link to the data if available and desired.
 - 2. Citation: A citation for the data if it is published or to be used in publications that reference the data.
 - 3. Review level: Only needed if the data has been peer-reviewed.
 - 4. Contact Organization and Person: contact information for the owner/uploader of the data. This will allow contact with you to request use of your data beyond display in BatAMP.
 - 5. Spatial resolution: Not generally needed with bat echolocation data since it is most often point data.
 - iii. Select the use constraints: Information on the licenses can be found here <u>https://creativecommons.org/licenses/</u> (Mar. 2016).

Select use constraints: Creative Commons Attribution License 💌	
This work is licensed under a Creative Commons Attribution 3.0 License.	

Title: Please use a descriptive title. Note that in show the first 100 characters. Examples Humboldt County 2009 Filename: SpreadsheetUpload_Ted200 Lavers Tab	the case of long titles, some screens will only Enable download 9.xisx
Dverview Layers Required Fields	Optional Fields
Credits List those who contributed to this dataset. ■ I Ø • Ø Ted Weller	Download Link You can provide a link to where the user can download the data for the map service. This will enable the download button on the dataset page, and take the user to this link when they click on the button. http://example.url/download Citation Citation for this dataset, or for any peer-reviewed publications. Examples B I Ø I
Description Please provide as much information about this dataset as possible in the description. B I ∃	Review level (pick the topmost one that applies): Data Basin promotes peer-reviewed datasets. To qualify, you must submit at least one peer-reviewed publication. You must add a citation for the publication in order to mark this dataset as peer reviewed. Dataset was scientifically peer reviewed Dataset was scientifically peer reviewed Dataset was used in a nother manner Dataset was used in a scientifically peer-reviewed publication Dataset was used in other reviewed publication Dataset not reviewed Dataset not reviewed
Tags Use tags to make it easier to find this dataset in a search. BatAMP, accustic monitoring, anabat, bat, bat accustic monitoring, bat detector; My Tags All Tags Select use constraints: Creative Commons Attribution License This work is licensed under a Creative Commons Attribution 3.0 License.	Contact Person(s): List the contacts for the dataset here. Use the 'Add Contact' link to add new contacts, either from Data Basin users or free-form using a name and e-mail address. Ted Weller (tedweller) V Spatial Resolution: Detail the spatial resolution of this dataset. Time:

- b. On the Layers tab:
 - i. Fill in any field descriptions that are missing from the 'Attributes'. As an example, Q35k is an undefined attribute, BatAMP displays a warning message and the user will need to provide a brief description for it to complete the download. Descriptions for all 44 extant species in the U.S. are included in the dataset definition as are definitions for HiF (>35kHz), LoF(<35kHz), Q40k, Q50k, Q25k, LACITABR, and MYCAMYYU.
 - ii. As an option, users can choose to provide additional information in the Other Information section of the 'Layers tab'. Available fields are:
 - 1. Purpose: The purpose of the data.
 - 2. Methods: Any additional information about collection and processing methods. Particularly information about how aggregated field were calculated, i.e. are files identified to species included in any other groups as well, or not.
 - 3. References: Any referenced data as required.
 - 4. Other information: Additional information that doesn't fit in any of the other categories.
 - 5. Time Period: The year in which the data was collected. For BatAMP there should only be one calendar year of data per upload.
 - 6. Layer Accuracy
 - 7. Attribute Accuracy

e followin	g attributes are mi	ssing required fields: q35)	k
ype: Feat	ure Layer		
ributes			
tribute D	etalis: vizibility, ellez, end de	scription of stimbutes below. Alles	s and description are required for visible layers. Please provide a meeningful description for each attribute that will ever
Hide?	Attribute	et values, including units of meas	Description (Required)
	first_name	First Name	First name of person who collected the data
	last_name	Last Name	Last Name of person who collected the data
	y_coord	Y Coordinate	Latitude (decimal degrees) or UTM Northing where data was collected
	x_coord	X Coordinate	Longitude (decimal degrees) or UTM Easting where data was collected
	det_mfg	Detector Manufacturer	The manufacturer of the detector
	det_model	Detector Model	Model of detector used to collect data
	mic_type	Microphone Type	Type of microphone used to collect data
	refl_type	Reflector Type	Type of reflector used (e.g. for weather-proofing)
	mic_ht	Microphone Height	Height, above ground surface, microphone was placed during data collection
	mic_ht_units	Microphone Height Units	Units used to report microphone height
	call_ld_1	Primary Call ID	Primary method used to identify echolocation calls to species
	call_ld_2	Secondary Call ID	What additional methods were used to confirm call identifications?
	site_id	Site ID	The name (or other identifier) of the site where data was collected.
	det_ld	Detector ID	The name, number, or other identifier of the detector used to collect data (req'd)
	night	Night	The date for the night on which data was collected (date night started)
	bat	BAT	Total number of flies in which bats were recorded on a given night
	eptu	EPFU	Number of Eptesious fuscus files recorded on a given night
	labo	LABO	Number of Lasiurus borealls files recorded on a given night
	laci	LACI	Number of Laslurus cinereus files recorded on a given night
	lano	LANO	Number of Lasionycteris noctivagans files recorded on a given night

- c. Legend: this information can be left alone as it was set in an earlier step.
- d. Click Submit, to submit the final dataset.

10) Verify the submitted information on the dataset's page. This will open as soon as the upload is finalized.

Uploaded by Christopher Domschke	Dec 1, 2015 (Last modified Dec 12, 2015)
✿ Manage • Ø Add to •	Open in Map
Annals Annals	Description: Langhere Site: Long-term detector site established at the Langhere Dunes Unit of Humbolat Bay National Wildlife Refuge near Arcata, California, Unit places on sand dunes at the edge of coastal conferous forest. The goal of the unit is to monitor bat activity and species presence at all times of year. Wildlife Acoustics SN2 unit powered by solar panels. Microphone + 1.3 m above the ground surface, oriented parallel to the ground surface and tacing approximately southno reflector Albee Site: Detector run by USFB-PSW. Mic is 3 meters above ground level.
Detalls Data Layers (1) Attachments (0) Comments (0)	This dataset is visible to everyone
Details Data Layers (1) Attachments (o) Comments (o) Data Provided By: Ted Weller Contact Organization: not specified Details Details	This dataset is visible to everyone Dataset Type: One Location-Aware Epreadsheet Conforms to Echologation Records - 2014 Dataset Definition By Ted Weller (Wer 18, 2014) Capabilities: One Time Enabled
Details Data Layers (1) Attachments (0) Comments (0) Data Provided By: Ted Weller Contact Organization: not specified Contact Person(s): not specified Contact Person(s): not specified Use Constraints:	This dataset is visible to everyone This dataset is visible to everyone Dataset Type: Occation-Aware Spreadsheet Contorms to Echolocation Records - 2014 Datase Definition By Ted Weller (Mar 18, 2014 Capabilities: Time Enabled Tags: anabat, bat, echolocation

Field Map:

- 1. first_name: Owner or representative's first name
- 2. last_name: Owner or representative's last name
- 3. y_coord: Northing coordinate
- 4. x_coord: Easting coordinate
- 5. det_mfg: Dropdown menu for detector manufacturer selection.
 - a. Anabat
 - b. Binary Acoustics Technology
 - c. Pettersson
 - d. Wildlife Acoustics
- 6. det_model: Dropdown menu for detector model selection.
 - a. Anabat II
 - b. Anabat Express
 - c. Anabat Swift
 - d. Anabat Walkabout
 - e. FR125
 - f. D240X
 - g. D500X
 - h. EM3
 - i. EMT1
 - j. EMT2
 - k. iFR-IV
 - 1. IFR-V-SBS
 - m. SD1
 - n. SD2
 - o. SM2Bat
 - p. SM3Bat
 - q. SM4Bat
 - r. SM4Bat-FS
 - s. SM4Bat-TE
 - t. SMZC
- 7. mic_type: Dropdown menu for microphone type selection.
 - a. AR125
 - b. AR150
 - c. Directional
 - d. Extended Mic
 - e. Hi-Mic
 - f. Internal
 - g. miniMIC
 - h. Omni-directional
 - i. Regular
 - j. SM3-U1
 - k. SMM-U1
 - 1. SMM-U2
 - m. SMX-U1
 - n. SMX-US
 - o. SMX-UT
- 8. refl_type: Dropdown menu for reflector type selection.
 - a. None
 - b. Tube

- c. Plate
- 9. mic_ht: Height of the microphone above the ground (m or ft).
- 10. mic_ht_units: Dropdown menu for units of measure for the microphone height.
 - a. Meters
 - b. feet
- 11. call_id_1: Dropdown menu for primary method of call identification selection.
 - a. BCID
 - b. EchoClass
 - c. Kaleidoscope
 - d. Sonobat 3
 - e. Sonobat 4
 - f. Custom Analook Filters
 - g. Custom Discriminant Function Analysis
 - h. Other Custom Quantitative Method
 - i. Visual Comparison to Call Library
 - j. Personal Experience
- 12. call_id_2: Dropdown menu for secondary method of call identification selection.
 - a. None
 - b. BCID
 - c. EchoClass
 - d. Kaleidoscope
 - e. Sonobat 3
 - f. Sonobat 4
 - g. Custom Analook Filters
 - h. Custom Discriminant Function Analysis
 - i. Other Custom Quantitative Method
 - j. Visual comparison to call library
 - k. Additional quantitative methods
 - 1. Previous experience
- 13. site_id: Identifying name for the detector site.
- 14. det_id: Identifying name for the detector location within the site (should be unique)
- 15. night: The date of the night (M/D/YYYY).

Multi-site upload example: Both figures are the same data set.

																																-
1	A B	C	DE	F	G	н	I J	K	L	M	N	0	P	QR	S	T	U	V	W	X	Y Z	AA	AB	AC	AD	AE	AF	AG	AH /	AI AJ	A	K
1 first	name last_name	y_coord	x_coord det_mfg	det_mode	I mic_type	refl_type	mic_ht mic_ht_units	call_id_1	call_id_2	site_ID	det_id	night	BAT E	EPFU MYE	V MYT	H LAN	O LACI	MYCA	ABL N	AYLU M	YYU COT	D TABR	UNBAT	HIF	LACITABR	LoF	MYCAMYYU Q	(25k (Q40k Q5	Ok MYVC	MYEV	MYTH
304 Ted	Weller	4528185	403920 Wildlife Acoustics	SM2	SMX-US	None	1.3 meters	Sonobat 3	Previous experience	HBNWR	Lanpher	12/27/2015																				
305 Ted	Weller	4528185	403920 Wildlife Acoustics	SM2	SMX-US	None	1.3 meters	Sonobat 3	Previous experience	HBNWR	Lanpher	12/28/2015																				
306 Ted	Weller	4528185	403920 Wildlife Acoustics	SM2	SMX-US	None	1.3 meters	Sonobat 3	Previous experience	HBNWR	Lanpher	12/29/2015																				
307 Ted	Weller	4528185	403920 Wildlife Acoustics	SM2	SMX-US	None	1.3 meters	Sonobat 3	Previous experience	HBNWR	Lanpher	12/30/2015	1	0	0	0	0	1 0	0	0	0	0 0	0	0	0	0	0	0	0	0		
308 Ted	Weller	4528185	403920 Wildlife Acoustics	SM2	SMX-US	None	1.3 meters	Sonobat 3	Previous experience	HBNWR	Lanpher	12/31/2015																				
309 Ted	Weller	4467711	414628 Binary Acoustic Tec	I IFR-IV	Regular	None	3 meters	Sonobat 3	Previous experience	Albee	Albee	1/2/2015	1	0	0	0	0	0 1	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0
310 Ted	Weller	4467711	414628 Binary Acoustic Tec	I IFR-IV	Regular	None	3 meters	Sonobat 3	Previous experience	Albee	Albee	1/3/2015	8	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	2	2	2	0	0	2
311 Ted	Weller	4467711	414628 Binary Acoustic Teo	I IFR-IV	Regular	None	3 meters	Sonobat 3	Previous experience	Albee	Albee	1/4/2015	5	0	0	0	0	0 0	0	0	0	0 0	0	2	0	0	2	0	0	0	0	0
312 Ted	Weller	4467711	414628 Binary Acoustic Tec	IFR-IV	Regular	None	3 meters	Sonobat 3	Previous experience	Albee	Albee	1/5/2015	3	0	0	0	0	0 1	0	0	0	0 0	0) (0	0	0	0	1	0	0	0
313 Ted	Weller	4467711	414628 Binary Acoustic Teo	I IFR-IV	Regular	None	3 meters	Sonobat 3	Previous experience	Albee	Albee	1/6/2015	6	0	0	0	0	0 1	0	0	0	0 0	0	2	0	0	1	0	1	0	0	0
314 Ted	Weller	4467711	414628 Binary Acoustic Tec	I IFR-IV	Regular	None	3 meters	Sonobat 3	Previous experience	Albee	Albee	1/7/2015	2	0	0	0	0	0 0	0	0	0	0 0	0	0	1	0	1	0	0	0	0	0
315 Ted	Weller	4467711	414628 Binary Acoustic Teo	I IFR-IV	Regular	None	3 meters	Sonobat 3	Previous experience	Albee	Albee	1/8/2015	2	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	2	0	0	0	0	0
316 Ted	Weller	4467711	414628 Binary Acoustic Teo	I IFR-IV	Regular	None	3 meters	Sonobat 3	Previous experience	Albee	Albee	1/9/2015	4	0	0	0	0	0 0	0	0	0	0 0	0	1	1	0	1	0	1	0	0	0
317 Ted	Weller	4467711	414628 Binary Acoustic Tec	IFR-IV	Regular	None	3 meters	Sonobat 3	Previous experience	Albee	Albee	1/10/2015	11	0	0	0	0	0 1	0	0	0	0 0	0	9 5	0	0	1	0	0	0	0	0

Figure 1: Example data with all bat species columns. Note the change of site and equipment associated with that site. Note too blank cells in species (group) columns for nights in which the detector was not operational.

	Α	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	Q	R	S	
1	first_name	last_name	y_coord	x_coord	det_mfg	det_model	mic_type	refl_type	mic_ht	mic_ht_units	call_id_1	call_id_2	site_ID	det_id	night	BAT	EPFU	MYEV	MYTH	LA
304	Ted	Weller	4528185	403920	Wildlife Acoustics	SM2	SMX-US	None	1.3	meters	Sonobat 3	Previous experience	HBNWR	Lanpher	12/27/2015					
305	Ted	Weller	4528185	403920	Wildlife Acoustics	SM2	SMX-US	None	1.3	meters	Sonobat 3	Previous experience	HBNWR	Lanpher	12/28/2015					
306	Ted	Weller	4528185	403920	Wildlife Acoustics	SM2	SMX-US	None	1.3	meters	Sonobat 3	Previous experience	HBNWR	Lanpher	12/29/2015					
307	Ted	Weller	4528185	403920	Wildlife Acoustics	SM2	SMX-US	None	1.3	meters	Sonobat 3	Previous experience	HBNWR	Lanpher	12/30/2015	1	0	0) O	
308	Ted	Weller	4528185	403920	Wildlife Acoustics	SM2	SMX-US	None	1.3	meters	Sonobat 3	Previous experience	HBNWR	Lanpher	12/31/2015					
309	Ted	Weller	4467711	414628	Binary Acoustic Tec	I IFR-IV	Regular	None	3	meters	Sonobat 3	Previous experience	Albee	Albee	1/2/2015	1	0	0	0	
310	Ted	Weller	4467711	414628	Binary Acoustic Tec	I IFR-IV	Regular	None	3	meters	Sonobat 3	Previous experience	Albee	Albee	1/3/2015	8	0	0	0	
311	Ted	Weller	4467711	414628	Binary Acoustic Tec	I IFR-IV	Regular	None	3	meters	Sonobat 3	Previous experience	Albee	Albee	1/4/2015	5	0	0	i 0	
312	Ted	Weller	4467711	414628	Binary Acoustic Tec	I IFR-IV	Regular	None	3	meters	Sonobat 3	Previous experience	Albee	Albee	1/5/2015	3	0	0	0	
313	Ted	Weller	4467711	414628	Binary Acoustic Tec	I IFR-IV	Regular	None	3	meters	Sonobat 3	Previous experience	Albee	Albee	1/6/2015	6	0	0	0	
314	Ted	Weller	4467711	414628	Binary Acoustic Tec	I IFR-IV	Regular	None	3	meters	Sonobat 3	Previous experience	Albee	Albee	1/7/2015	2	0	0	0	
315	Ted	Weller	4467711	414628	Binary Acoustic Tec	I IFR-IV	Regular	None	3	meters	Sonobat 3	Previous experience	Albee	Albee	1/8/2015	2	0	0	0	
316	Ted	Weller	4467711	414628	Binary Acoustic Tec	I IFR-IV	Regular	None	3	meters	Sonobat 3	Previous experience	Albee	Albee	1/9/2015	4	0	0	0	
317	Ted	Weller	4467711	414628	Binary Acoustic Tec	IFR-IV	Regular	None	3	meters	Sonobat 3	Previous experience	Albee	Albee	1/10/2015	11	0	0	i 0	

Figure 2: Close-up of example data without all bat species columns.