

Southeast Arizona Birds

A hiker with a red backpack and blue shorts stands on a dirt trail, looking at a smartphone. The background features a vast mountain valley with a winding road, under a blue sky with scattered clouds. The foreground is filled with tall grasses and shrubs.

The Missing Tracks

Southeast Arizona Birds

The idea for an audio collection of bird songs began shortly after I moved to Southeast Arizona's unique birding region of the Madrean Sky Islands. I'd try to verify a bird sound in the field, only to notice a song or call was missing from my national birding apps. I'd want to familiarize myself with a common species like Bewick's Wren, here with its very different Mexican song. Or I'd be hiking Ramsey Canyon and realize I was completely unprepared to pick out an Eared Quetzal.

So I compiled a couple dozen of my own reference audios to have offline on my iPhone. I started by supplementing my own recordings with audio from the Xeno-Canto citizen-science database of bird sounds. I then edited each using Audacity software to create clean, consistent, and compact tracks for field identification. Since I had done the work already — or so I naively believed — I figured I'd take the extra steps to add more recordings and make them publicly available for free.

And, here we are! — an album of the “missing tracks” for Southeast Arizona's Sky Islands — intended to supplement the popular national-coverage app, *Sibley eGuide to Birds*. The album currently has five “discs” with 117 audio tracks of 75 species, including regular species with missing calls, annual specialties, local subspecies, rarities, and the rare but potential dream-birds:

REGULAR SPECIES — Locally-common birds that are missing vocalizations often heard in Southeast Arizona, such as Buff-breasted Flycatcher's “pit” and Crissal Thrasher's “pjurrre-djurre” call.

ANNUAL SPECIALTIES — South-of-the-border species that are typically seen annually, such as Black-capped Gnatcatcher and Lucifer Hummingbird.

SUBSPECIES — Mexican subspecies of familiar birds, with regional songs that make them confusing to visiting birders, such as Bewick's Wren and Brown Creeper.

RARITIES — Species that don't appear annually in Southeast Arizona, such as Eared Quetzal, Sinaloa Wren, and Tufted Flycatcher.

POTENTIAL RARITIES — Eleven species not yet on the AZFO Bird Checklist, but expected given their patterns of vagrancy or their distribution in the adjacent Mexican state of Sonora. Marked with an asterisk in the audio file name, examples are Orange-billed Nightingale-Thrush* and Rusty Sparrow*.

Please do not duplicate and circulate this album. Pass on the word, and my email — but don't pass on the files! I'll gladly provide a Dropbox invitation to the latest updated and dynamically-linked collection.

Good birding!

Diana

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Version 1.0 (updated August 19, 2019)



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Discs



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Scaled Quail
Montezuma Quail**Inca Dove**
Ruddy Ground-Dove
Yellow-billed Cuckoo
Rivoli's Hummingbird**Plain-capped Starthroat**
Lucifer Hummingbird**Black-chinned Hummingbird**
Anna's Hummingbird
Costa's Hummingbird**Bumblebee Hummingbird**
Rufous Hummingbird
Broad-billed Hummingbird**Berylline Hummingbird****Cinnamon Hummingbird****Violet-crowned Hummingbird****White-eared Hummingbird****Northern Goshawk**
Short-tailed Hawk
Northern Pygmy-Owl
Elf Owl
Eared Quetzal**Elegant Trogon**

Micah Riegner - XC162294	WILLCOX, AZ
Richard E. Webster - XC254985	DAVIS MOUNTAINS STATE PARK, TX
Paul Marvin - XC147369	CHIRICAHUA MOUNTAINS, AZ
Dan Lane - XC368476	EDINBURG, TX
Ross Gallardy - XC353900	REINTA CIELO AZUL PROAVES, COLUMBIA
Jarrold Swackhamer - XC254694	GILA, NM
Diana Doyle	RAMSEY CANYON, AZ
Diana Doyle	RAMSEY CANYON, AZ
Dan Lane - XC193256	MADERA CANYON, AZ
Ross Gallardy - XC297549	TERLINGUA, TX
Diana Doyle	3CANYONS RANCH, AZ
Diana Doyle	3CANYONS RANCH, AZ
Bow Tyler - XC473411	OLYMPIA, WA
Paul Driver - XC138145	HENDERSON BIRD VIEWING PRESERVE, NV
Paul Marvin - XC452498	VETERAN'S OASIS PARK, GILBERT, AZ
Nick Athanas - XC31948	LA ESPERANZA, OAXACA MX
Richard E. Webster - XC133575	PORTAL, AZ
Richard E. Webster - XC132689	PORTAL, AZ
Diana Doyle	3CANYONS RANCH, AZ
Manuel Grosselet - XC382221	LOMAS DE BEZARES, MEXICO CITY
Manuel Grosselet - XC290040	XOCHIMILCO, MEXICO CITY DF
Ross Gallardy - XC332792	RESTAURANT CHIQUILA, YUCATAN MX
Albert Lastukhin - XC371371	PROVINCIA DE GUANACASTE, COSTA RICA
Micah Riegner - XC133184	NAVOJOA, SONORA MX
Richard E. Webster - XC400851	ALAMOS, SONORA MX
John van Dort - XC195825	MONTANA DE IZOPO, HONDURAS
Manuel Grosselet - XC289821	DESERTO DE LOS LEONES, MEXICO CITY DF
Nathan Pieplow - XC3974	BARRANCA RANCHO LIEBRE, SINALOA MX

Piotr Szczypinski - XC358781	MAZOWIECKIE, POLAND
Daniel de Jesus Garcia - XC407410	TRUJILLO, VENEZUELA
Tim Bray - XC443987	ALBION, CA
Scott Olmstead - XC363559	DRAGON MOUNTAINS, AZ
Richard E Webster - XC337905	CERRO CINCO MILLAS, CHIHUAHUA MX
Richard E. Webster - XC337900	CERRO CINCO MILLAS, CHIHUAHUA MX
Karina Avila - XC197459	CIUDAD MADERA MX
Diana Doyle	HUACHUCA CANYON, AZ

Mountain Trogon*
Ringed Kingfisher**White-striped Woodcreeper*****Tufted Flycatcher****Hammond's Flycatcher**
Gray Flycatcher**Pine Flycatcher****Cordilleran Flycatcher**
Buff-breasted Flycatcher
Nutting's Flycatcher
Gray-collared Becard**Hutton's Vireo**
Yellow-green Vireo
Brown Creeper (albescens/alticola)
Crissal Thrasher
Rock Wren
Bewick's Wren (mexicanus)
Sinaloa Wren**Black-capped Gnatcatcher****Brown-backed Solitaire****Orange-billed Nightingale-Thrush*****Russet Nightingale-Thrush*****Aztec Thrush**

Micah Riegner - XC158395	RESERVA MONTE MOJINO, SONORA MX
Juan Carlos Pérez Magaña - XC365395	URUAPAN, MICHOACAN MX
Paul Marvin - XC359122	SALINENO, TX
Paul Marvin - XC453017	SALINENO, TX
Richard E. Webster - XC451269	MESA DEL CAMPANERO, SONORA MX
Manuel Grosselet - XC350779	LOS MAZOS, JALISCO MX
Diana Doyle	REEF TOWNSITE, AZ
Steve Hampton - XC317334	UPPER RAMSEY CANYON, AZ
Diana Doyle	GARDEN CANYON, AZ
Matthias Feuersenger - XC253326	DESERET LAND AND LIVESTOCK RANCH, UT
Bobby Wilcox - XC377800	WINNEMUCCA, NV
Andrew Spencer - XC234591	SAN JOSE DEL PACIFICO, OAXACA MX
Scott Olmstead - XC319583	ALISO SPRING, AZ
Diana Doyle	SPEARFISH CANYON, SD
Diana Doyle	REEF TOWNSITE, AZ
David Vander Pluym - XC302599	CANYON CIENEGUILLA, SONORA MX
Andrew Spencer - XC190789	SIERRA MADRE DEL SUR, OAXACA MX

Paul Marvin - XC297120	TJUANA RIVER VALLEY REGIONAL PARK, CA
Diana Doyle	ANZA TRAIL, AZ
Diana Doyle	HUACHUCA CANYON, AZ
Diana Doyle	3CANYONS RANCH, AZ
Guy Kirwan - XC390120	RANCHO PALOS VERDES, CA
Diana Doyle	HUNTER CANYON, AZ
Lauren Harter - XC387734	RIO CUCHUJAQUI, SONORA MX
Lauren Harter - XC388478	RIO CUCHUJAQUI, SONORA MX
Richard E. Webster - XC451634	CANYON CIENEGUILLA, SONORA MX
Andrew Spencer - XC27389	CHINO CANYON, AZ
Diana Doyle	GUINDANI CANYON, AZ
Michael Lester - XC299970	SANTA BARBARA, SONORA MX
Michael Lester - XC347887	RANCHO SANTA BARBARA, SONORA MX
David Vander Pluym - XC289186	YECORA, SONORA MX
Nancy Hetrick - XC27476	NUTRIA CANYON, NM
Manuel Grosselet - XC329093	DESERTO DE LOS LEONES, MEXICO CITY DF
Richard E. Webster - XC337697	CERRO CINCO MILLAS, CHIHUAHUA MX
Manuel Grosselet - XC344524	SAN ISIDRO LLANO GRANDE, OAXACA MX
Manuel Grosselet - XC63089	VOLCANO DE COLIMA, JALISCO MX



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White-throated Thrush

Guillermo Funes - XC308107	PARQUE EL BOQUERON, EL SALVADOR
Manuel Grosselet - XC252817	DESERTO DE LOS LEONES, MEXICO CITY DF
Elvis Herrera Rodríguez - XC198174	PARQUE CERRO DEL PUNHUATO, MICHOACAN MX
Manuel Grosselet - XC419033	ALVARO OBREGON, MEXICO CITY
Manuel Grosselet - XC459055	LOMAS DE BEZARES, MEXICO CITY DF
Andrew Spencer - XC190549	OAXACA TO TUXTEPEC, OAXACA MX

Rufous-backed Robin**Blue Mockingbird****Gray Silky-Flycatcher*****Scrub Euphonia***

Lauren Harter - XC393488	CANYON CIENEGUILLA, SONORA MX
Richard C. Hoyer - XC5918	MICROONDAS EL INDIO, SINALOA MX
Nathan Pieplow - XC5074	AGUA ZARCA, SAN LUIS POTOSI MX
Manuel Grosselet - XC457215	PARQUE LAS MARAVILLAS, MEXICO CITY DF
Oscar Campbell - XC433790	ANTIGUA, GUATEMALA
Andrew Spencer - XC176992	CADDOA, CO

Elegant Euphonia***Black-headed Siskin*****Cassin's Sparrow****Five-striped Sparrow**

Diana Doyle	BOX CANYON, AZ
Diana Doyle	BOX CANYON, AZ
Diana Doyle	CARR PEAK, AZ
Diana Doyle	CARR PEAK, AZ

Yellow-eyed Junco**Rusty Sparrow***

Alfonso Auerbach - XC372855	FRANCISCO MORAZAN, HONDURAS
Manuel Grosselet - XC378074	MECAYAPAN, VERACRUZ MX
Richard E. Webster - XC449225	ARROYO HONDO, SONORA MX
Juan Carlos Pérez Magaña - XC245854	TACAMBARO, MICHOACAN MX
Diana Doyle	CORDONADO NATIONAL MEMORIAL, AZ
Diana Doyle	COMFORT SPRINGS TRAIL, AZ
David Vander Pluym - XC289333	ONAVAS, SONORA MX
Andrew Spencer - XC190410	OAXACA CITY, OAXACA MX
Diana Doyle	3CANYONS RANCH, AZ

Rufous-crowned Sparrow**Spotted Towhee (ssp montanus)****Black-vented Oriole****Streak-backed Oriole****Scott's Oriole****Crescent-chested Warbler**

Jarrod Swackhamer - XC474995	SENGUIO, MICHOACAN MX
Diana Doyle	RAMSEY CANYON, AZ
Diana Doyle	HUACHUCA CANYON, AZ
Eric Hough - XC461271	RESERVA MONTE MOJINO, SONORA MX
Richard E. Webster - XC451054	RANCHO SANTA BARBARA, SONORA MX
Diana Doyle	MILLER CANYON, AZ
Diana Doyle	HUNTER CANYON, AZ
Andrew Spencer - XC265589	RESERVA CHARA PINTA, SINALOA MX
Esau Toaki Villarreal - XC332630	MAGDALENA CONTRERAS, MEXICO CITY DF
Diana Doyle	RAMSEY CANYON, AZ

Tropical Parula**Hermit Warbler****Fan-tailed Warbler****Rufous-capped Warbler****Red Warbler*****Painted Redstart****Slate-throated Redstart**

Bernabe Lopez-Lanus - XC55401	RESERVA LA SERRANA, COLUMBIA
Micah Riegner - XC133186	NAVOJOA, SONORA MX
Richard E. Webster - XC334974	CAMPAMENTO EL TRUINFO, CHIAPAS MX
Michael Lester - XC253646	RAMSEY CANYON, AZ
Andrew Spencer - XC265131	CERRO LA BUFA, JALISCO MX
Richard E. Webster - XC445828	CANYON CIENEGUILLA, SONORA MX
Richard E. Webster - XC445818	PARQUE LA COLORADA, SONORA MX
Richard E. Webster - XC445818	PARQUE LA COLORADA, SONORA MX
Paul Marvin - XC449547	DAIRYMART PONDS, CA
Manuel Grosselet - XC317561	RANCHO LA FELICIDAD CUAUHTEMOC, COLIMA MX

Flame-colored Tanager**Red-headed Tanager*****Yellow Grosbeak****Cinnamon-rumped Seed-eater****Credits**

Audio tracks compiled and edited by Diana Doyle
Design, layout, and cover photography by Mark Doyle

White-eared Hummingbird ©Dominic Sherony
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Please use these recordings responsibly, with minimal disruption to birds.



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Getting Started with Dropbox This collection of five “discs” can be thought of as a dynamic, Cloud-based album offering offline options. By using the *free* Dropbox application, the audio files, cover art, and PDFs can be used on any smartphone, tablet, laptop, or desktop operating system, online or offline.

On a laptop or desktop:

1. Create a *free* Dropbox account at www.dropbox.com and sign in.
2. Click on the link in the email invitation to the Disc. (After first use, just open the Dropbox “drive” in Finder (Apple) or Explorer (Windows).)
3. Create a column display:
In Apple Finder, choose View > as Columns.
In Windows Explorer, choose the View tab and select the Details Pane icon (upper left).
4. Adjust your column widths to show the full audio track names and widen the window size to display all of the audio metadata in the far-right column.
5. Click on an audio file name to play. Easiest is to use play-and-pause:
On Apple, Space-Bar to play, then Arrow-Down key to automatically display and play the next track.
On Windows, Ctrl+Alt+Home to play-and-pause, and Ctrl+Alt+Right for next track.
6. To see the metadata on each recording, including Xeno-Canto reference number, recordist, location, year recorded:
On Apple, with an audio file highlighted, Get Info by shortcut Command-I.
On Windows, with an audio file highlighted, right-click to Show Properties.

On a smartphone or tablet:

1. Install the *free* Dropbox App and sign in.
2. Click on the link in the email invitation to the Disc. (After first use, just open the Dropbox App directly.)
3. Click on the stacked-gray-line icon to show the files in List mode rather than Icon mode. (Initial numbers sort birds by taxonomy using each species’ Clements Checklist code.)
4. Turn the device sideways (landscape) to view the species name and a description of the vocalization.
5. Touch on an audio file to play. (Android users may have two Android OS window prompts.)
6. Depending on your signal, it may take a couple seconds to load and play. Wait for the spinning loading icon.
7. For offline use (optional), click on the “...” next to an audio and select “Make Available Offline”. A green circle down-arrow means the track is now stored on your phone for use without internet or cellular signal.
8. Any updates to the Discs will be available on Dropbox automatically. (Offline files will drop the green circle, meaning that audio has been updated and needs to be re-downloaded.)

Important Note: *Although the audio files can be “side-loaded” into players such as iTunes or Windows Media Player, this is **not** recommended. Side-loading breaks the Dropbox dynamic connection to album updates or corrections. Staying within Dropbox, even if opting to download audio tracks to “Make Available Offline”, assures important album updates and notifications.*

DROPBOX

Some Getting Started Tips As you can imagine, Mark, the initial testers, and I all made a lot of mistakes getting this project completed. We learned more about MP3s, Audacity, Dropbox, operating systems, and smart devices than is likely useful in anyone's everyday life. But with that comes learning and below are a handful of tips to share, which hopefully will help get you up and running without some of the frustrations we experienced. Got a tip not mentioned below or an audio suggestion? Send it along to diana@birdingaboard.org!

On a laptop or desktop:

- Initially familiarize yourself with this album on your computer. The added screen “real estate” makes it easier to explore the features and functions of Dropbox and the album. You'll be grateful when you're birding offline, up in a canyon with no reception, looking at the tiny smartphone screen in the sunlight!
- Display the files using column format, and expand the columns to show each audio's complete title and metadata. For example, in Apple Finder, choose View > as Columns.
- You can learn more about each audio within its metadata:
 - On Apple, with an audio file highlighted, Get Info by shortcut Command+I.
 - On Windows, with an audio file highlighted, right-click to Show Properties.
- Dropbox will play audios directly, without opening a separate media player (like iTunes or Google Play). For example, on Apple, hit Space-Bar to play an audio, then Arrow-Down or -Up to play another track.
- Get a weekly email alert from Dropbox if the album has been updated. Log in to your Dropbox account, go to Settings > Notifications, and check “Activity in shared folders (weekly digest)”.

On a smartphone or tablet:

- Turn your smartphone sideways (landscape) to see the full species name and description of the sound.
- Display the files in list mode, rather than icon mode, so you can read each audio's complete title.
- Have patience! Tap play once and watch for your device's tiny still-loading icon. Depending on your signal, it will take a couple seconds to load and an additional second of pause before the bird sings.
- If you download an audio to your mobile device (using “Make Available Offline”), then it will play instantly thereafter. We recommend liberally downloading — the files are tiny!
- If a downloaded audio no longer shows the green downloaded icon, then there is an updated file. Re-download for the latest version.
- Search for a species using the magnifying glass icon, typing about three letters of the bird's name. Be sure to click to search on “Semi-Local” (entire shared account), not just “Current Folder”.

Support Note: *Apologies come right up front as it pertains to technical support. Collecting, recording, editing, and sharing these audio tracks is a part-time, freebie citizen-science effort. We've purposely made these tracks available cross-platform and available for online and offline use (via Dropbox) and thus also able to play without the use of third-party applications or software. Frankly, we're technically incapable of offering any assistance for the myriad devices, operating systems, and players the world has to offer. Dropbox has a very good support page, as do Apple, Google, and any other companies and products that you might choose to employ to use and enjoy these recordings. Speed bumps or questions? Luckily there's Google!*

SOME TIPS