

Text Most explanatory text was taken verbatim from the great Cornell site <https://academy.allaboutbirds.org/birdsong/> and its companion site <https://www.allaboutbirds.org/news/how-to-learn-bird-songs-and-calls/> (no registration is required).

Sound Most of the sound files are from the California Bird Songs digital recordings (Cornell/Macaulay Laboratory). A few were recorded directly off the Cornell website. The White-crowned Sparrow Nuttall's subspecies was recorded by Patricia Bacchetti in Oakland and taken from her Xeno-Canto page.

References

Denise Wight's Xeno-canto sound recordings are here: <https://www.xeno-canto.org/contributor/UVAHIPJUXZ> (In case you don't know her, Denise is a long-time ear-birding teacher for GGAS and a wonderful person.)

For a deep dive into bird vocalizations we recommend Nathan Pieplow's *Peterson Field Guide to Bird Sounds of Western North America* (Houghton Mifflin Harcourt).

All of the sound files referred to in the Pieplow book may be found here: <https://academy.allaboutbirds.org/peterson-field-guide-to-bird-sounds/> (no registration required):

Need to I.D. a Bird Song? Try BirdNET from the Cornell Lab: <https://birdnet.cornell.edu/api/>. It seems to be quite accurate, but requires uploading the sound file to their website, which is a little cumbersome.

Sound Software I'm using Raven Lite (free from Cornell) or Audacity (also free) to manipulate and play the sound files:
<http://ravensoundsoftware.com/software/raven-lite/>
<http://audacityteam.org/>

Audubon Climate Status The Audubon climate status for the individual species as shown on the PowerPoint slides comes from the California summary prepared as part of Audubon's "Survival By Degrees" climate change study: https://nas-national-prod.s3.amazonaws.com/briefs_ca_final.pdf

GGAS has a strategic initiative to mitigate climate-change, hence my inclusion of the Climate Status here.

Hearing Resources Many of us have some hearing loss. If you do, but aren't ready for hearing aids, you might consider some lower-priced (\$50–\$400) alternatives:

Bose Hearphones: From my personal experience, quite useful, but somewhat annoying to use in the field.

Nuheara IQ Buds: I have no personal experience with these.

Reizen Mighty Loud Ear: Helpful, basic, and cheap, from my personal experience.