This is based on:

[Acoustic Communication and Sound Degradation: How Do the Individual Signatures of Male and Female Zebra Finch Calls Transmit over Distance](https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0102842)?

Solveig C. Mouterde , Frédéric E. Theunissen, Julie E. Elie, Clémentine Vignal, Nicolas Mathevon

Key Details:

* The volume of the speaker was set such as to match the intensity typical of zebra finch calls, around 70 dB at 1 m
* The microphone was held at 1 m above the ground. We recorded the calls sequences 2 m, 5 m, 10 m, 20 m, 50 m and 100 m away from the speaker.n (pilot)
* We recorded the calls 2 m, 16 m, 64 m, 128 m and 256 m away from the source, twice for each distance. (256m is far enough that it stop

Recording plan:

* In NHP backyard (less consistent back ground noise than campus – the buildings are noisy). Some traffic noise
* Microphones are 2 ft off the ground
* Record at distances:
  + 1m
  + 5m
  + 10m
  + 20m
  + 50m
  + Check recordings and record at 100m or longer …

Recording Notes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date/Time | Distance | Notes |  |  |  |
|  |  |  |  |  |  |
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