**README on *chinch* code (for experimenters, not subjects)**

**[Subjects: see *README\_chinchSubjects.docx]***

*Basic instructions on using code*

* *chinch.m* is code to run
  + *chinch.fig* is the GUI (don’t edit this)
* *CHINCH.DAT* is the listing of chins in the drop down,
  + *Has their free-feed weight*
  + Also lists set of conditions to include in the drop down
* *Chinch.rco/rcx/rpx* are TDT circuit files for use in LSA.
* *\*.STM* files are the listings of stimuli to make up a block (set of 55 conditions: 22 catch and 33 signal trials
  + *Format is <std file name> <interstimulus interval in msec> <sig\_filename>, where the program plays a random (2 to 9 sec) series of times (500msec on, 500 msec off) of the standard, followed by a BABA sequence, where B=sigfile, A =stdfile*
* *\*.NP* files are the “stimulus code (number)” for this condition
* EGs
  + *CMR1\_REF* is a training condition the CMR reference condition (tone in one NB noise band), where all 22 catch trials are standard then standard and all 33 signal trials are standard then signal, where signal is always the same (an easy stimulus)
  + SAM64\_9dBAM\_6040\_4kHz\_SNR65filt2 is a testing condition for SAM detection in background noise task, where
    - all 22 catch trials are standard then standard with varying SNRs (2 reps per SNR)
    - all 33 signal trials are standard then signal, where signal varies in SNR (3 reps per SNR) ranging from easy (8 dB SNR to hard -12 dB SNR).
    - Standard = pure tone at 4 kHz
    - Signal is SAM tone centered at 4 kHz, with 64 Hz modulation, and 9dB mod-depth, with varying SNRs (8dB:-2:-12dB)
* Stimuli (wav files) are stored in /stim folder
* Each chin has a data directory (eg Q334data)
* TO RUN chinch code
  + Run chinch
  + OK welcome
  + In GUI
    - Pick chin in “ID”
    - Type in weight (eg 500)
    - Pick condition from drop down: Run name (NP)
    - Specify output file name (e.g. test\_Mike)
    - Press “Accept”
    - Press “Run”
      * Yes/No pellet test.
    - 55 trials will run, and if you wait til the end – it will create 2 output files
      * Test\_Mike.mat
      * Test\_Mike.DAT (text file – read this to understand what all it reports)
        + Trial by trial results
        + Summary stats (off TDT, it is set right now to always release the bar in the response window, so you get perfect HITS (33) and all False Alarm (FA) (22).
    - “Exit” to end, or run new condition.