Data

**Human Song #3**

[Click here to hear human sound #3](http://docs.google.com/sounds/bob1.AIFF)

**(Reggae) "Jamming'" by Bob Marley**

**x axis**: time (milliseconds) - 7400

**y axis:** frequency (Hz) - 10800.00

**Preferred Frequency:** The music seems to be loudest at 900 Hz. Bob's voice is strongest at 900 Hz and 1800 Hz; perhaps resembling the harmonious voice in the whale songs.

**Patterns:** Between 700 and 1400 ms. a pattern repeats itself five times. Between 1700 ms and 5000 ms a different sequence repeats itself five times. At 6200 ms a sequence repeats itself five times (the last two are on the next sonogram).

**Observations:** This song allows you to see clearly the difference between the music and the voice-they are very distinctive.

**Human Song #4**

[Click here to hear human sound #4](http://docs.google.com/sounds/bob2.AIFF)

**(Reggae) "Jamming'" by Bob Marley**

**x axis**: time (milliseconds) - 7400

**y axis:** frequency (Hz) - 10800.00

**Preferred Frequency:** 400 to 1800 Hz

Also strong and short at 5400 Hz and 8100 Hz.

**Observations**: At this point in the song there are only a few overtones, in general each second covers a broader amount of frequencies. There are many vertical lines (clicks) which may be representative of the instruments in Reggae's repertoire. There seems to be a beat. Around every 150 ms. there is high frequency that drops to a lower one.

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