For amplified Вь clarinet, live digital effects and tape

Study Score in C

Ian Percy

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Duration: 7' 56"

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2007/13

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Composed upon an accumulating ground-bass of percussive bass resonances and varied repetition, specifically for the opening of the Capstone Theatre at Liverpool Hope University (2010), from the soundworld of a clarinet using audio files recorded in 2007, this relatively short single-movement of continuous sound is based upon an East African hymn of praise the composer transcribed and part recomposed.

The hymn employs equidistant pentatonic scales (the octave split into five equal steps of 2.4 semi-tones). This electroacoustic piece takes a few tentative steps into the unstable realm of equidistant and microtonal harmony.

The Golden Ratio (a, is to b, what b, is to c) influences the internal proportions of the movement (loops, repetition and texture). The concrete audio is founded upon a ground-canvas of continual sound that works towards a central crescendo set within a mirror form, whilst a tri-part form (with proportions shaped with reference to the Golden Ratio) is laid upon this providing three further crescendos. The work was edited, remixed, rescored and part recomposed in 2013.

The concrete audio has been mixed for multiple stereo, summated mono and sub-bass speaker diffusion, but other versions are available upon request. There are also versions with pre-recorded equidistant harmony to accompany the live part.

Thanks go to Nicholas Cox (principal clarinettist with the RLPO) for recording the hymn fragments from which the concrete parts were composed.

Equidistant Harmony: To realise this piece with equidistant harmony, the musician has three options:

- 1. Select a version of the mix with pre-recorded harmony cue points (this requires strict synchronisation with tape).
- 2. Use pre-recorded harmonic accompaniment (available from the composer) or pre-record your own using an equidistant pentatonic scale (octave split into five steps of 2.4 semi-tones) and have this audio triggered live via visual cues to the technician (synchronisation is still required, but timing is more flexible).
- 3. Use a harmonizer triggered via the live sound and pre-programmed for varying layers of equidistant harmony (details below).

Amplification:

The live performer should be set to a fixed volume and spatial placement throughout (always versions of stereo). It is best if the clarinet is amplified through a two, four or six speaker front and centred half circle (either side of the central performer). It is also preferable that the live part has its own dedicated speakers. Once set, the volume (and placement) of the clarinet should remain fixed at all times. Use a high quality, close-proximity stereo condenser microphone and a contact microphone attached to the clarinet for best results. Reverb should be added throughout and multi-tap delay (settings relative to the tempo of crotchet equals 60/120 etc) can be used at times to embellish the live sound and enhance the reverb decay. The musician will require a stage monitor, a music stand and an additional time display on stage would also be helpful.

If the musician has not asked to trigger pre-recorded equidistant harmony or chosen a version of the mix with fixed harmony cue points, then a harmonizer effect should be used. This can be active in real-time during the concert and removes the need for strict synchronisation with pre-recorded tape. The harmonizer should be programmed for an equidistant pentatonic scale where the octave is split into five equal steps of 2.4 semi-tones. Four Harmonizer presets are required:

Harmonizer Setting 1: Low 7.2 semi-tones

Harmonizer Setting 2: Low 4.8 semi-tones and low 12 semi-tones (octave)

Harmonizer Setting 3: Low 12 semi-tones (octave)

Harmonizer Setting 4: Up 4.8 semi-tones, Low 4.8 semi-tones, 9.6 semi-tones and 12 semi-tones (octave)

Custom presets can be used through combinations and variations of the following options (in semi-tones): Up 4.8 (note anything above 4.8 semi-tones will sound too synthetic), Up 2.4, Low 2.4, Low 4.8, Low 7.2, Low 9.6, Low 12 (octave). Some harmonizers allow you to adjust the individual volumes of each layer in order to 'tune' the chord. The harmonizer can also sound effective when paired with subtle digital delay...

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Performance Symbols

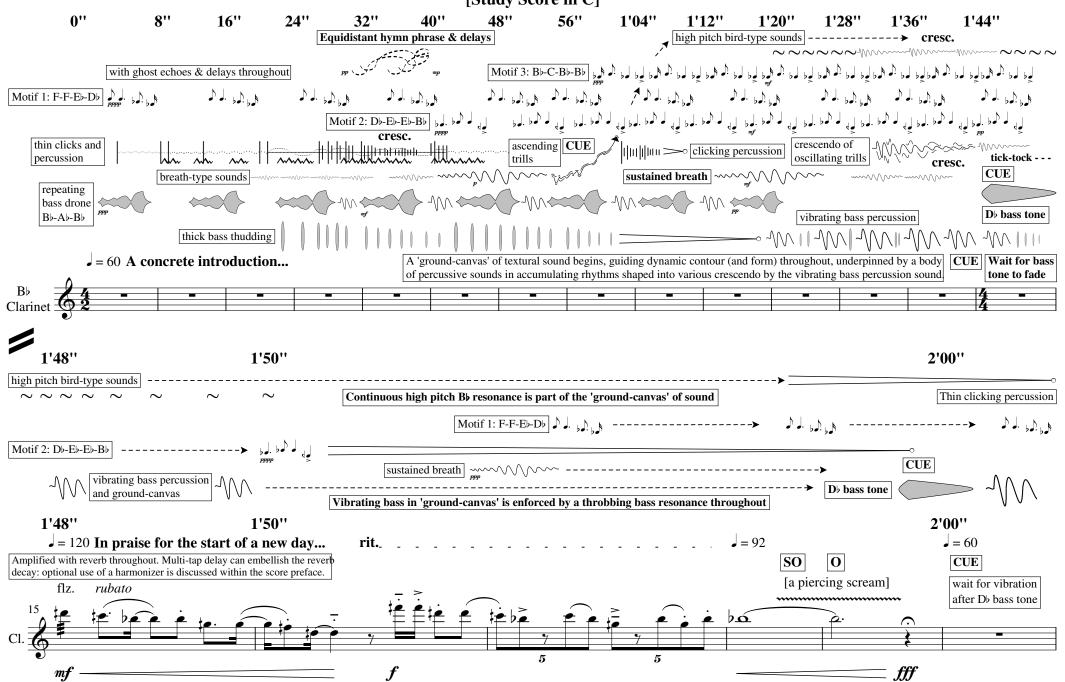
- **BT** Beating Tone [micro-tonal minor 9th/semi-tone]
- **EF** Elements of Fundamentals
- **EM** Elements of Multiphonic
- **F** Fundamental
- **FP** Subtle Fluctuation of Pitch
- **M** Multiphonic
- MC Multiphonic Cluster
- MT Multiphonic Trill [usually microtonal]

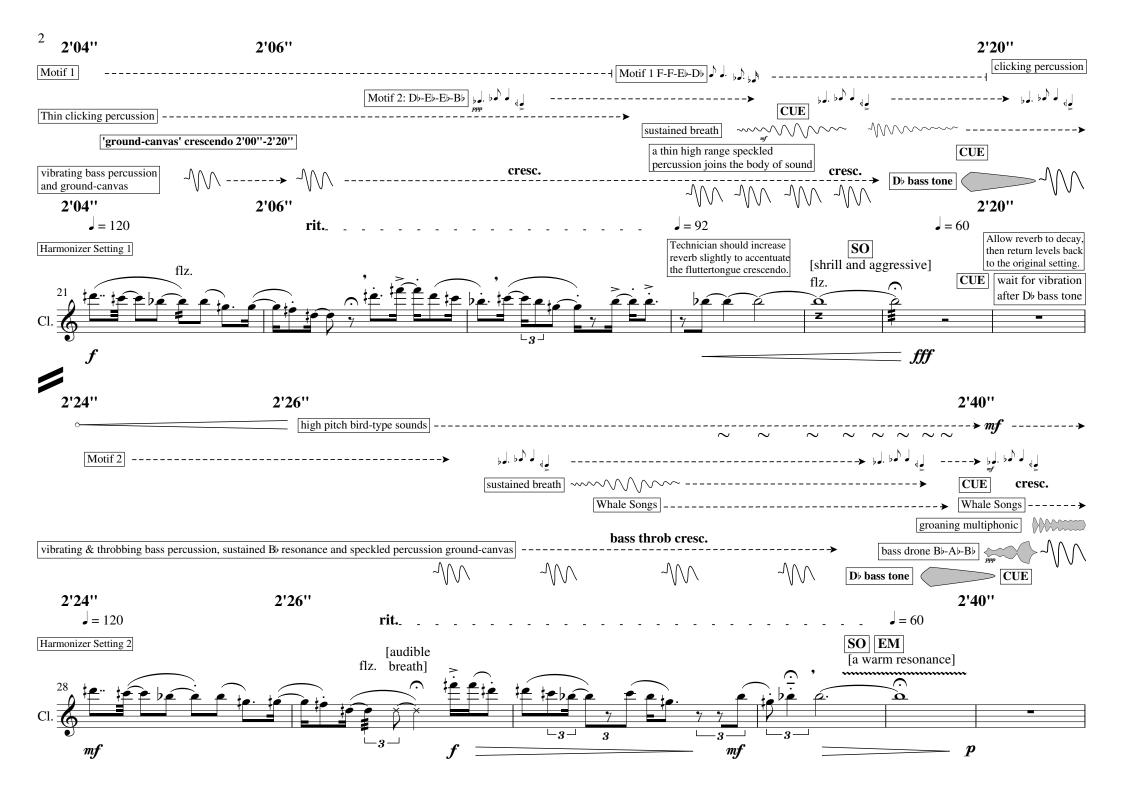
- Normal: Cancels all symbols
- **O** Overblow
- R Roll [a form of slur]
- **RF** Roll to Fundamentals
- **RT** Rolling Tone [octave]
- **SM** Strong Presence of Multiphonic
- **SO** Slight Overblow
- **VE** Varying Embouchure

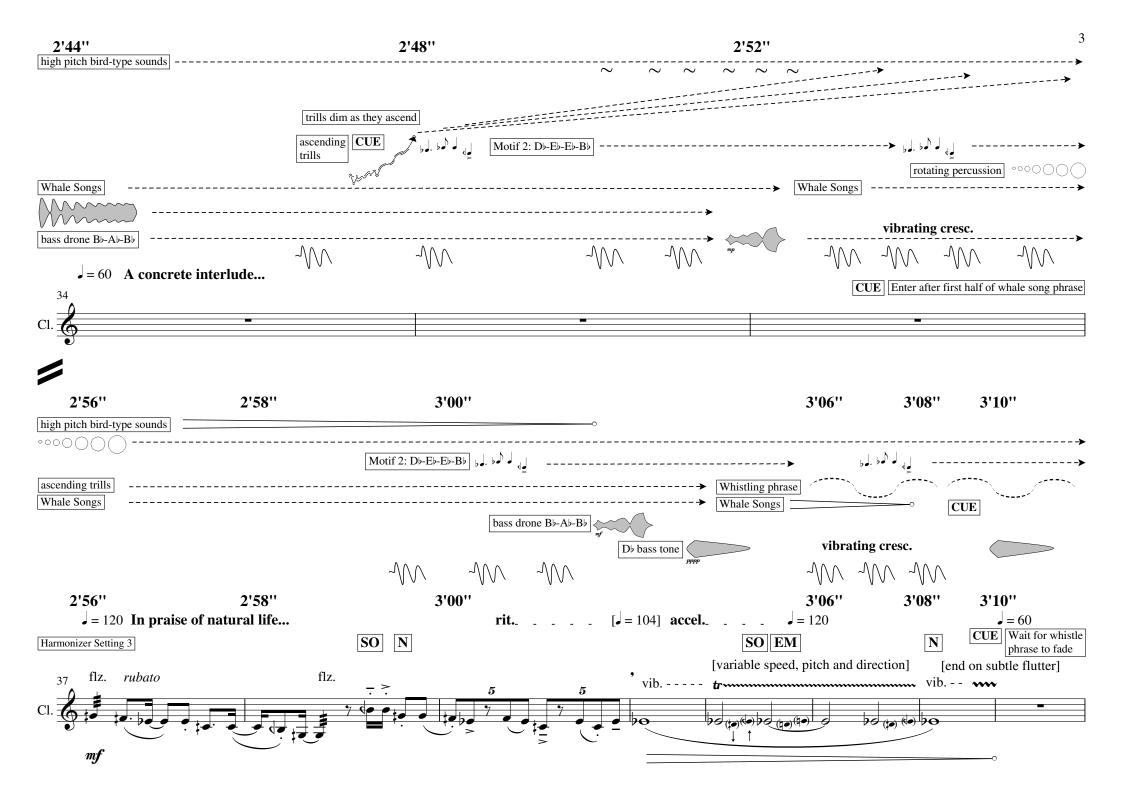
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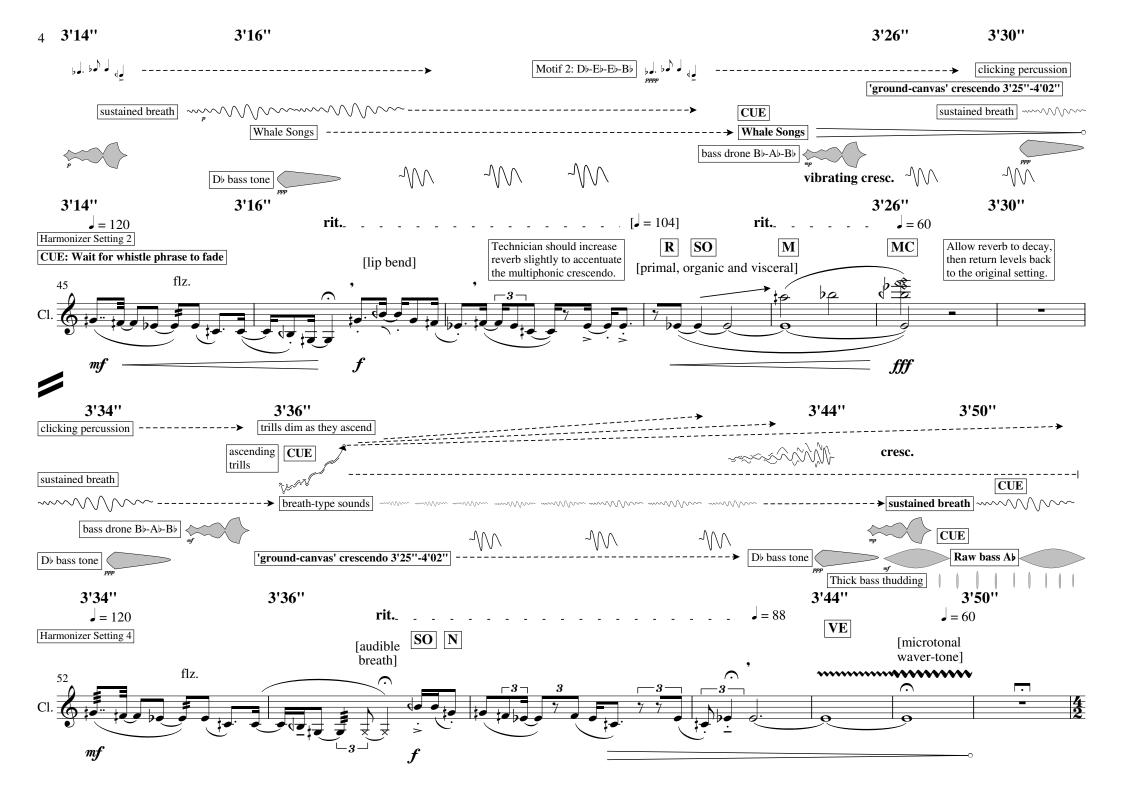
[Study Score in C]

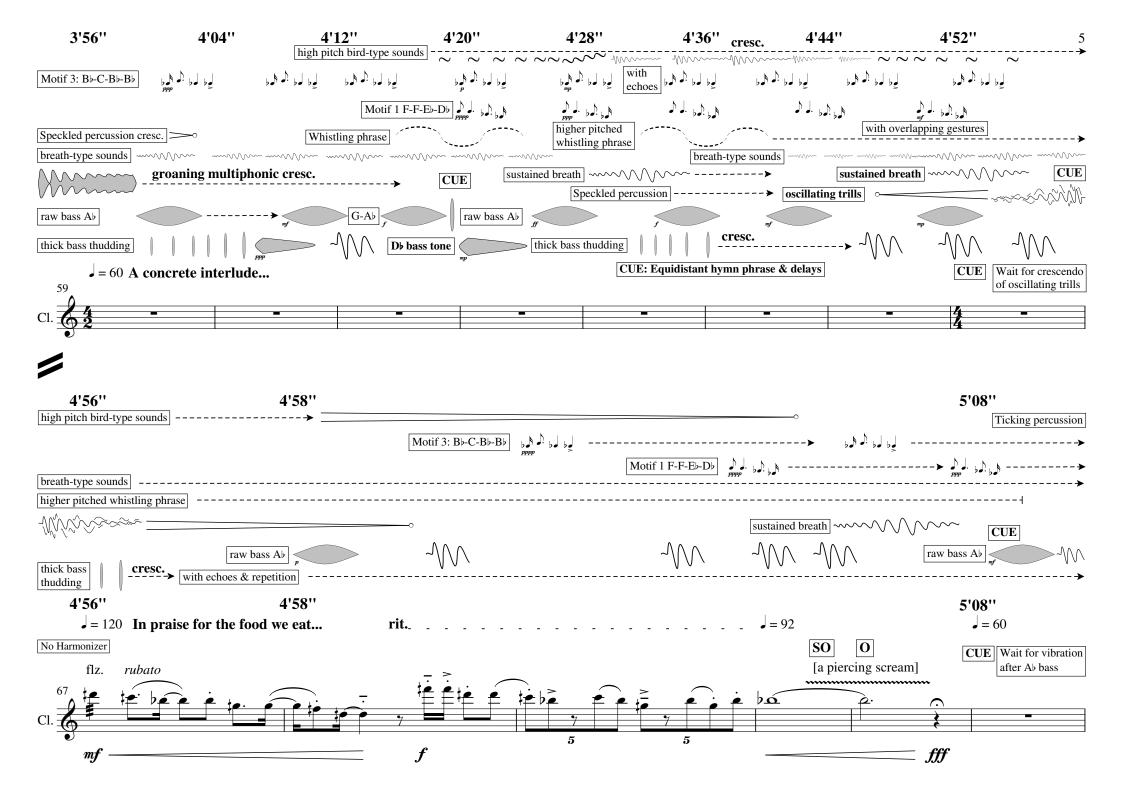
Traditional - Ian Percy

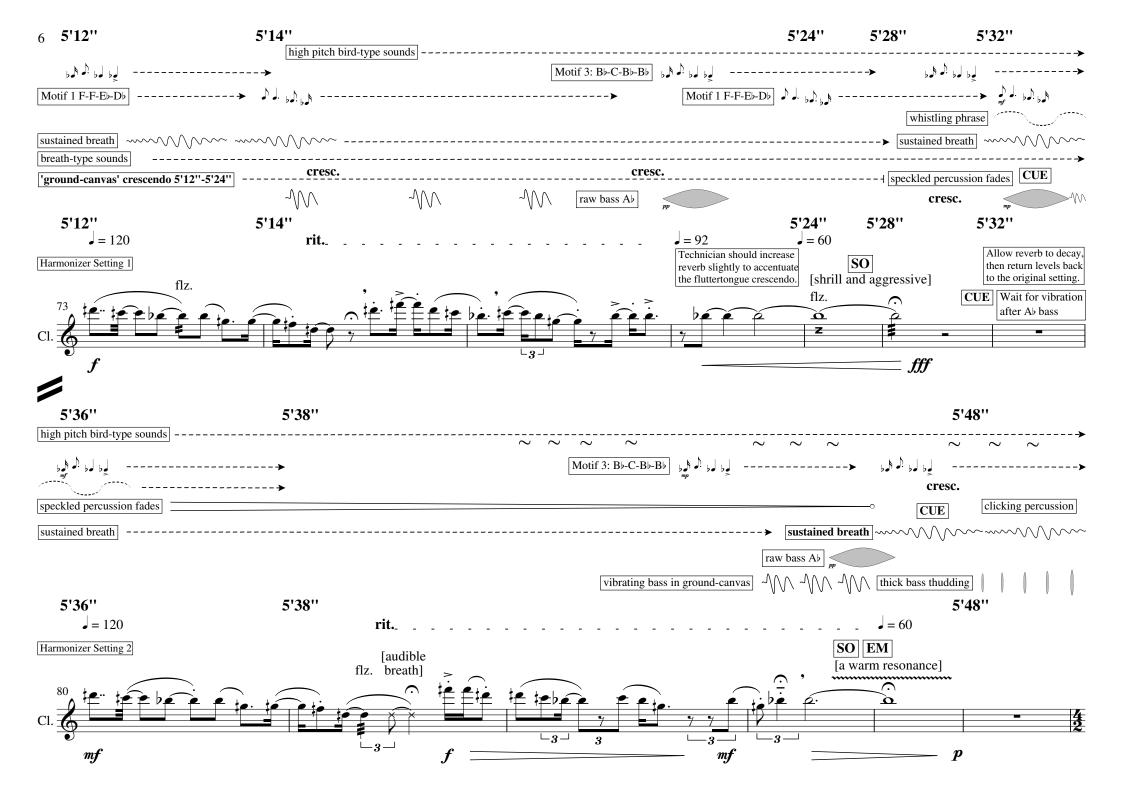


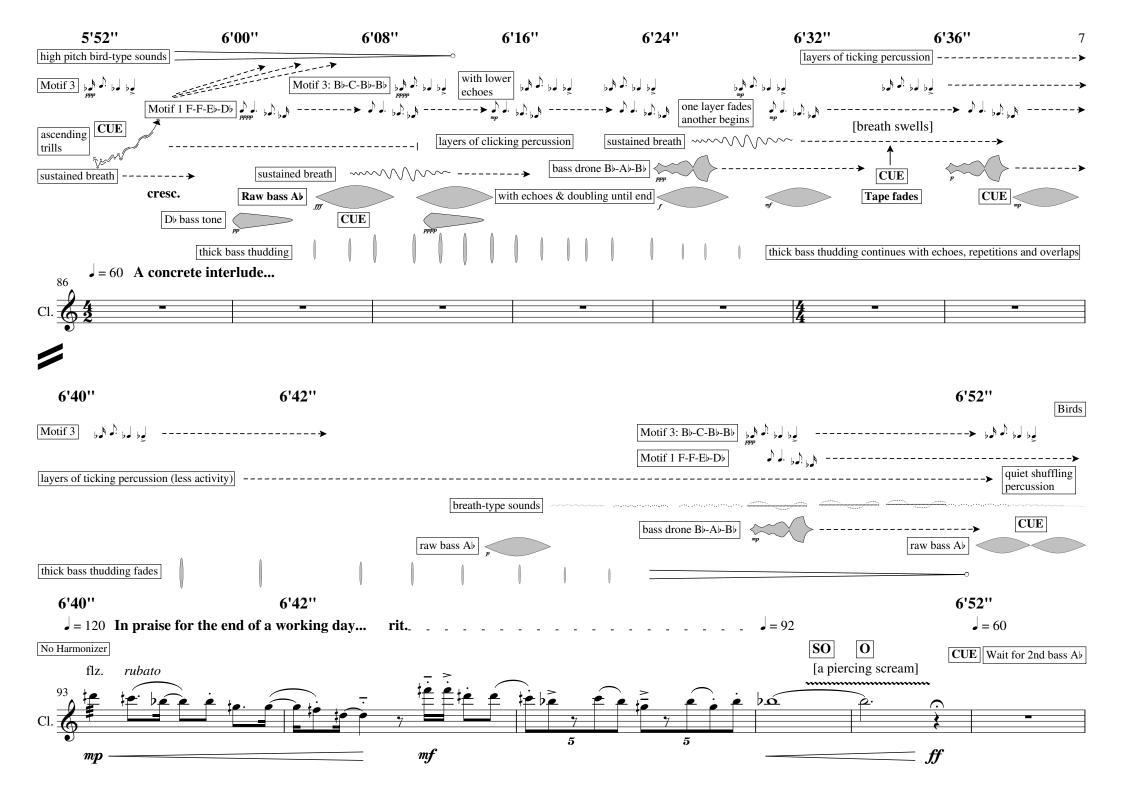


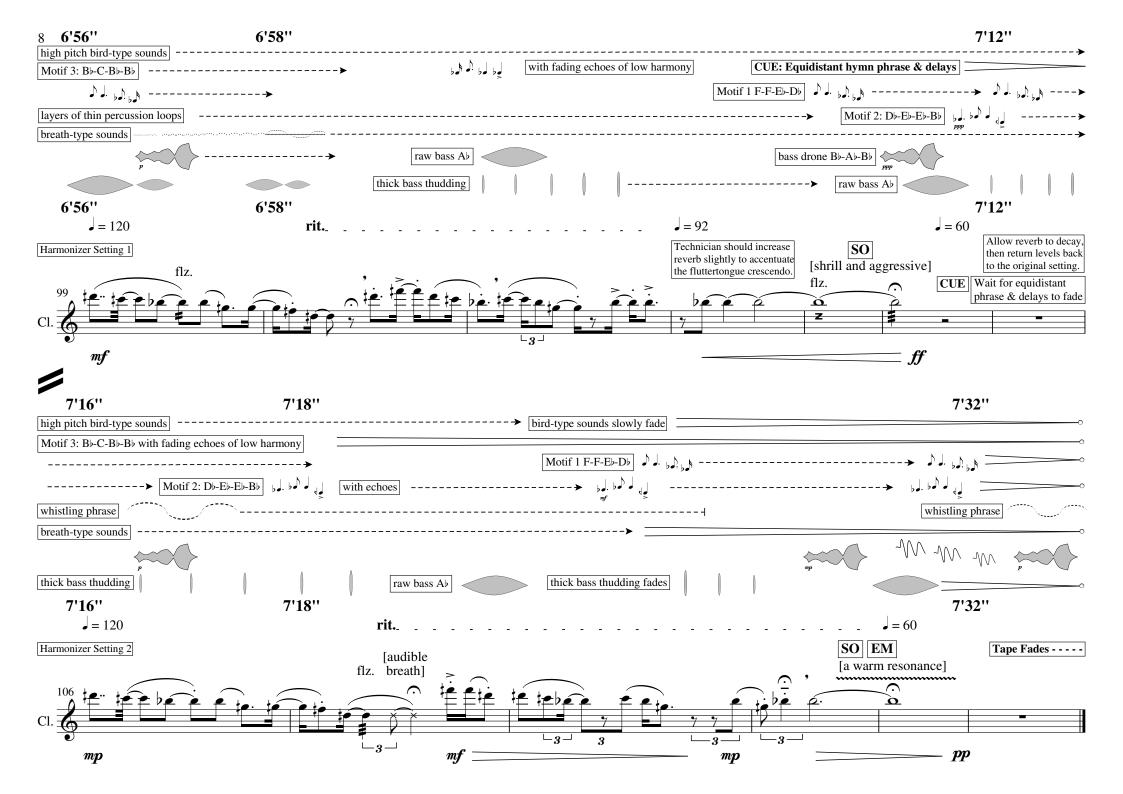












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