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Nature and magic: rediscovering connections - a portfolio of compositions

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Yr wyf drwy hyn yn datgan mai canlyniad fy ymchwil fy hun yw'r thesis hwn, ac eithrio lle nodir yn wahanol. Caiff ffynonellau eraill eu cydnabod gan droednodiadau yn rhoi cyfeiriadau eglur. Nid yw sylwedd y gwaith hwn wedi cael ei dderbyn o'r blaen ar gyfer unrhyw radd, ac nid yw'n cael ei gyflwyno ar yr un pryd mewn ymgeisiaeth am unrhyw radd oni bai ei fod, fel y cytunwyd gan y Brifysgol, am gymwysterau deuol cymeradwy.

I hereby declare that this thesis is the results of my own investigations, except where otherwise stated. All other sources are acknowledged by bibliographic references. This work has not previously been accepted in substance for any degree and is not being concurrently submitted in candidature for any degree unless, as agreed by the University, for approved dual awards.

NATURE AND MAGIC: REDISCOVERING CONNECTIONS A PORTFOLIO OF COMPOSITIONS

By

Katherine Elizabeth Jennet Betteridge

Submitted in partial fulfillment of the requirements for the degree of DOCTOR OF PHILOSOPHY



BANGOR UNIVERSITY
School of Music and Media
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ABSTRACT

The compositions in this portfolio have been inspired by magic, nature, spirituality, boundaries, perception and the self. The themes are explored in two ways: either directly within the works, or through un-scored live performances and field recordings.

The idea of using composition as a way of identifying and understanding our deeply subjective experience of being human is developed within these pages. A suggestion is made that both composition and improvisation can be used as part of an overall holistic approach that helps bridge and integrate the physical material world of nature and everyday life with the non-physical world of dreams, alternative realities and magic. Many cultural theorists, philosophers and writers have noted that the modern age in which we live has resulted in a sense of existential dislocation and disconnection between people. Within this portfolio an attempt is made to address this disconnect.

Within the works themselves are pieces inspired by specific locations or specific spiritual traditions from around the world. Many of the pieces are also directly inspired by my own explorations of nature and how this affects and relates to the inner self. The pieces are acoustic in the main, but some have electronic elements. Many of the pieces require unconventional concert hall layouts in an attempt to experiment with audience perception and boundaries and other pieces require the performances to take place in outdoor locations at specific times of the day or year.

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¹ "As compared with man in those eras, man today has been uprooted, having become aware that he exists in what is but a historically determined and changing situation. It is as if the foundations of being had been shattered." Jaspers, K., 2014. *Man in the Modern Age (Routledge Revivals)*. Routledge. pp. 9-

For my parents, Alan and Mary,

and *The Marmaladies* – my hugely inspiring friends and sonic adventuring comrades

And for Eva, fellow intrepid explorer of the depths

And also for Meilyr

Due to confidentiality issues, the names of some individuals have been changed within this document.

ACKNOWLEDGEMENTS

This portfolio would not have been possible without the encouragement and support of many people. Thank you so much to Professor Andrew Lewis for all his encouragement, support and for helping me to develop my musical voice. He has an admirable ability to help tease one's natural compositional style out and onto the page and I also really enjoyed our philosophical supervision sessions. Thank you so much to Professor Chris Collins, head of music, and also to Bangor University for providing financial support (thus enabling me to be able to do the PhD). Thank you to Professor Pwyll ap Sion and Professor Andrew Lewis for suggesting I embarked on the PhD in the first place back in 2012; it has been a long and fruitful journey, both of selfdiscovery through music and personal musical evolution. Thank you to Dr Guto Puw for a number of musical opportunities that have really helped shape my musical style. A great thank you to Bangor School of Music for all the support, opportunities and encouragement I have received since embarking on the first leg of my musical journey back 2002 when I came to Bangor. Thank you to Sioned Eleri Roberts and Dr Sarah Brook for helping stimulate and inspire my musical ideas. We three (The Marmaladies) have been on many exciting and unusual musical and creative adventures together which have greatly affected my views about performance, also Sioned and Sarah are both very inspiring people. Thank you to Chiron Farrimond for creating the Max Patch for Marie Laveau and also to Alex Bailey and Samuel Davies for electronic support, either at performances of my pieces or in the studio. Thank you to Aled Meredith for filming and editing the mine video (*Voices from the Deep*) and for helping with the hydrophone recordings. Thank you also to Aled and Subash Arumugam for some of the video footage shot at Baron Hill. Thank you to Christian Plamenov and Subash Arumugam for filming Lie Still Sleep Becalmed and to Christian for editing it brilliantly. Thank you to Gemma Veneruso and the Marine Sciences department at Bangor University for the loan of the hydrophone in May 2017, which enabled me to explore sound in a completely different way. Thank you to Professor Robert McCauley at the Centre of Marine Science and Technology, Curtin University, Western Australia for sending me a variety of recordings of singing fish, including a fish dawn chorus! Thank you Professor Paul Downing and Dr Rebekah Kaunhoven from the Neuroscience department for their help and suggestions. Thank you to Alan Crawshaw, Aled Meredith and Meryl Heath for photographs used throughout A Day Back When Suite and in other places in my PhD. Thank you to Rachel Rosen, the metalwork scrapyard queen artist for lending me a variety of interesting-sounding metal objects to play with underwater when doing the hydrophone recordings. Thank you to the Scottish Gaelic actress Mairi Milne, for giving me translation help with the title of my final orchestral piece – Turas, and for helping with pronunciation (Turas is an abbreviation of Turas a-steach don Dhoimhneachd). Thank you to Lindsey Colborne for photographing my Suite for the Seasons scores. Thank you Luke Moore for his script which I set to music for the aria from Lost on Mars. Thank you to friends and family who helped with proof-reading or for providing advice on instruments I do not play – I will list them: My parents Mary and Alan Betteridge, Ninos Grigoriadis, Sioned Eleri Roberts, Dr Sarah Brook, Richard Craig, Hayley, Ellie Brooke, Frankie Clare, Dewi Ellis Jones, Chris Williams, Mared Emlyn and Christina Homer, thank you also to Dr Guto Puw for proof reading all my scores. Also thank you to Duncan Chapman – fellow composer – for helping answer many questions! Thank you to my good friend Eva Požar for all her emotional support and willingness to talk about anything and everything! Thank you again to my parents Alan and Mary for their all round support throughout my musical education. I could not have done any of it without them.

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The appendix comprises two folders:

Folder 1: Essential Materials for Performances of Scores

This contains electronic materials (such as max patches, click tracks etc) that are required in order to perform the compositions within the portfolio. These are an essential part of the PhD.

Folder 2: Helpful but Non-Essential Materials

This contains videos, recordings and photographs of past performances. This folder is not essential, but may be helpful.

SECTION 1: INFLUENCES

This portfolio embodies my thoughts and reflections over the course of my research on the subjects of nature and magic, outlining how I chose to express them musically.

Throughout my life the music of many composers and musicians has entered my subconscious mind and been assimilated organically, as if by some form of osmosis. Rather than studying the music of other composers as theoretical or technical models, I absorb ideas and techniques that make an impression on me, without regard to their immediate theoretical context. If I respond emotionally to something by another composer when I first hear it, it enters in. It is this immediate sense that I absorb and then store in my subconscious for later use within my own work. When writing music I follow where intuition takes me and draw on this internalized library to help express an idea when it feels right. My own music and creations make the best sense in the moment, out of the context of everything else as my methodology is intuitive and my imagination guides the way. I hope that this approach allows my music to remain personal, unique and truly authentic.

Many of the ideas of these composers I have absorbed without fully understanding how they took root, and became part of my approach to writing music. Some musical ideas can be clearly identified, however, and will be discussed in the following section. These influences will be explored thematically, with a focus on different composers within each theme, some of whom will appear within more than one theme.

Extended Techniques

Upon discovering the music of the German composer Helmut Lachenmann (born 1935), I felt inspired by his use of extended techniques, and also by his ideas regarding the literal re-creation of acoustic sounds and events, for example notes played on a cello that directly imitate his mother opening a can of coke with her long fingernails. This occurs in his *TemA* (1968) for flute, voice and cello. This literal-sound-creation made an impression on me as I had thought until that point, presumably at an unconscious level, that making sound in such a literal way was prohibited in classical art-music. I like this idea because of its simplicity and directness. An example of my own literal sound-creation can be found in movement 1

of *Elementa* mm. 19 - 26 ('Aqua') where a spoon taps a wine glass in the first violin part. This is intended to represent a boat sail tapping against a mast.

Additionally, I have directly employed some of Lachenmann's extended techniques in the third movement of *Elementa*: "L1" and "L2" are named after techniques used in the piece *Toccatina per Violino Solo* by Lachenmann. These appear in my piece between mm. 185 - 207.

Another composer whose influence I can directly trace in my work is George Crumb (born 1929). For example, I have used the word 'Gossamer' as a performance direction in *Elementa* (mm. 150 - 154) as a result of my appreciation of the delicate imagery it evokes after seeing it in the score of *Black Angels*.

In *Elementa* I have chosen to use it to convey fine embers floating in the air after a volcanic eruption, as opposed to Crumb's use of the word intending to create something slightly unearthly. Crumb also uses several percussion instruments and wine glasses in this composition, and the piece is additionally scored for electric string quartet. These features were also influences in *Elementa*.

I love the darkness, drama and feeling of ritual in *Black Angels* with its chanting, whispering and use of percussion. I feel this dramatic approach to music-making has permeated my live music-making when improvising with friends and colleagues in theatrical settings, and also in some compositions within this portfolio. *Marie Laveau* is an example, in particular the movement entitled "Ritual".

Nature

Ralph Vaughan Williams (1872 – 1958) and Björk (born 1965) have been particularly influential in the area of nature. I was raised listening to Vaughan Williams as my father played the symphonies on a regular basis whilst I was growing up, and I have been a staunch Björk fan since my early teenage years. I have always loved being outdoors, so finding composers who wove the landscape into their music opened up a world of possibilities for me. Vaughan Williams' music evokes a multitude of different landscapes and seascapes, often using geography and topography as building

blocks for the musical structure. Björk's music inevitably grew from her raw, volcanic Icelandic homeland. She expresses how her music organically evolved from nature:

Iceland probably affected a lot how I sing because I did spend a lot of time as a kid in nature. The way I sang would just form itself. It was definitely not influenced by other singers. Just walking outside to school, or maybe in blizzards, it just kind of like happened, and you would walk and there'd be no wind and you could be all quiet and whispery and you could sneak down next to the moss and maybe sing a verse, and then you would stand up and run to a hill and sing a chorus. You'd have to do that quite loudly because the weather was strong.²

It is interesting to note that both composers made it into the mainstream (be it very different mainstreams) — many of their compositions are well-known and much of their music is seen as 'accessible' to audiences. I am aware that my music is not as accessible or memorable as that of Vaughan Williams or Björk. I do however have a strong desire, particularly within the live events I create, to attract people from all walks of life and to bring them together. I have no desire to create elitist music or an environment where some people feel alienated or marginalized. I want my creations to be accessible to everyone.

Björk's refusal to fully adhere to the norms within the dance and pop movements has influenced my own general approach and attitude to music-making. She has always vehemently stood her ground and expressed music in her own unique way, despite extreme criticism and pressure to conform. Her willingness to make things intensely raw and personal, bringing her own life experiences directly into her music, influenced my attitude to my own music. Her album *Vulnicura*, which translates from the Latin "Cure for Wounds" (Vulnus + Cura) is a direct expression of the breakdown of her 13 year relationship with Matthew Barney. Several of my compositions come directly from my personal experiences and suffering, *Turas* in particular. This piece was born of the healing journey that took place following a mental breakdown in 2018.

² Dibben, N., 2009. *Björk*. Sheffield, UK: Equinox Publisher. p. 54

Development of Musical Ideas and Texture

I feel that Arvo Pärt (born 1935) and Henryk Górecki (1933 – 2010) are probably the main composers to have influenced the approach to and the development of my musical ideas. One example of something that remained with me is the first movement of Górecki's 3rd Symphony – the entrance of the double basses followed by the canonic entries of the other strings as the melody moves across the entire string section, speeding up during its ascent. I loved the simplicity of the structure – the piece develops itself without complexities and manipulations. I used a similar structure in *Turas*, but starting from the opposite end of the spectrum to Górecki by starting with the highest instruments first. Cantus in Memorium Benjamin Britten and Spiegel im Spiegel by Arvo Pärt are pieces which surprised me in their simplicity. Cantus is simply a falling repeated A minor scale played canonically across the string section and Spiegel im Spiegel a rising and descending F major scale played on violin. I use ascending and descending scales in my own work but often each note of the scale is played by a separate player. This can be seen in *Turas* in the string passage starting at m.48 and recurs within different sections of the orchestra throughout the piece.

Björk, Vaughan Williams and Arvo Pärt all employ rich textural harmonies, particularly with their use of strings, splitting and sub-dividing sections (see for example *Fantasia on a Theme by Thomas Tallis* by Vaughan Williams, *Cantus in Memorium Benjamin Britten* by Arvo Pärt or the song *Isobel* on the album 'Post' by Björk). I also use a lot of rich string textures and multiple subdivisions within sections (see for example *Turas* or *Demstek*), and I suspect that this aspect of my music has been influenced by these composers.

Spirituality and Meditation

I feel that my personal spiritual connection has lured me in the direction of composers who have a very spiritual approach to life themselves, and a spirituality which has become innately interwoven with their music. Arvo Pärt in particular was a big part of my life throughout my undergraduate and postgraduate period, and even before I came to university. By studying Pärt's compositional approach, his need for silence

and withdrawal for several years from society and from writing music, and the subsequent creation of his tintinnabuli style, I identified even more strongly to his world outlook and his music. I cannot pinpoint exactly where his sense of spirituality took root in my own music, but I know that I have always felt a strong connection to the spiritual and meditative nature of his music. For more information on Pärt's tintinnabuli style, see Paul Hillier, Arvo Pärt, Oxford Studies p. 90.³

In addition, John Cage's (1912 – 1992) philosophy of releasing the need to control all elements of sound was also of great interest to me, particularly once I began to explore mindfulness meditation.

But this fearlessness only follows if, at the parting of ways, where it is realised that sounds occur whether intended or not, one turns in the direction of those he does not intend. This turning is psychological and seems at first to be a giving up of everything that belongs to humanity – for a musician, the giving up of music. This psychological turning leads to the world of nature, where, gradually or suddenly, one sees that humanity and nature, not separate, are in this world together; that nothing was lost when everything was given away. In fact, everything is gained. In musical terms, any sounds may occur in any combination and in any continuity.⁴

Mindfulness and meditation have played a large part in my life over the past 10 years and have affected my music and ideas in many ways. Mindfulness involves relinquishing the need to control things, turning instead towards the uncontrollable with an open sense of interest and an absence of judgment. This can include turning towards sounds, feelings, sensations, thoughts or any number of things and becoming a witness to the experience.

Influenced by these ideas, I often compose by adding to a composition 'accidental' noises I hear in the environment. I know that my final piece *Turas*, incudes many accidental sounds that occurred as I was composing it. By accidental noises, I mean either sounds from the outside (a bird singing, a lawnmower, a car etc.) or sounds that I *think* I have heard in the music when listening back. My compositional method

-

³ Hillier, P., 1997. Arvo Pärt. Clarendon Press. p.90

⁴ The above statement was given as an address to the convention of the Music Teachers National Association in Chicago in the winter of 1957. It was printed in the brochure accompanying George Avakian's recording of Cage's twenty-five-year retrospective concert at Town Hall, New York, in 1958. Online at: http://ada.evergreen.edu/~arunc/texts/music/cage1/cage1.pdf

involves improvising and recording the improvisations, then transcribing the music into Sibelius notation software from the recording. However, when I listen to the recording I often hear a lot of extra music beyond what is actually there. This occurs in concerts too. This may be overtones, or very quiet sounds that an instrument has accidentally made, or sounds created by feedback, or sounds that aren't actually there at all, that I imagine I have heard. Although these are 'accidental' noises, they often seem to fit quite naturally into a piece and I find a way to include them.

SECTION 2: COMMENTARIES AND SCORES

1. *Demstek* (2012)

4 minutes long

One of the main aims of *Demstek* was to explore the possibility of integrating an

audience into a performance. I wanted the boundary between musicians and audience

to be reduced, and even the boundary between musicians and non-musicians, as some

of the wine glass parts can be performed by non-musicians (with minimal direction

from a conductor). The wine glass players are positioned at the back and on either

side of the audience in an attempt to create a feeling of immersion within the piece.

Although this is a short piece, it was thought that the unusual location of the

performers would still create less of a division. This work has not yet been performed

live so I cannot confirm that my initial intention of reducing the boundaries would

work in this short piece. From the experience of a live performance of Forest of Non-

Ordinary Reality, however, I can confirm that short pieces can have the desired effect

of allowing an audience to feel more integrated within the performance. The

technique used for including the audience in Forest of Non-Ordinary Reality is a

different one to the one used in *Demstek*. Following the performance of *Forest*,

however, there was significant positive feedback from audience members regarding

their sense of being part of the performance and the positive effect this had on them.

I tried to decide on a language in which to write the words, but realised that the

specific meaning given to words is not always necessary, as language can sometimes

become a barrier to emotion, so I instead created a language.

There is a hum throughout the piece, played on the glasses or in some sections by the

strings, so that the notes sung by the singers can rest upon this humming sea of sound.

Ideally, the piece should be performed in a dimly lit hall to further add to the

atmosphere created by the positioning of the musicians.

The recording of the piece (held in Folder 2 in the appendices) was recorded in a

studio. The performers were:

Vocals: Jamie Stroud, Ellen Mason, Katherine Betteridge

Strings: Katherine Betteridge

19

Katherine Betteridge

Demstek

For

Voices Strings Wine Glasses

Duration: ca.4 minutes

All instruments are notated at sounding pitch

Programme Note

For wine glasses, small choir and strings

The sound of wine glasses has fascinated me for years, particularly when many are played together. This was my first exploration into incorporating many wine glasses into a composition.

The language of Demstek was invented by myself.

Performance Directions

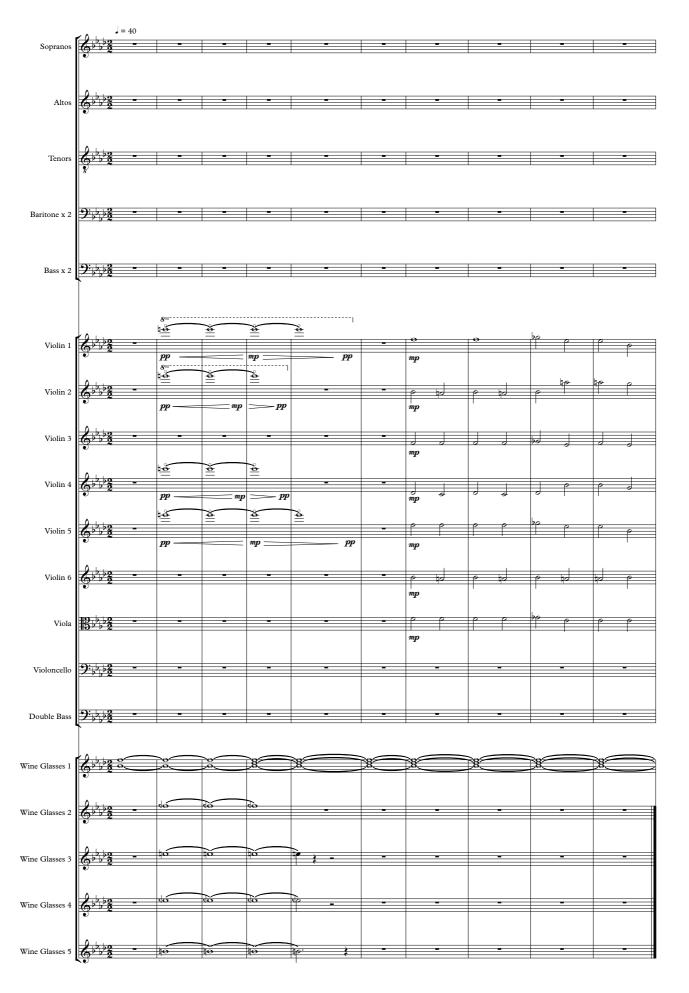
The wine glasses are to be played by two separate groups of people.

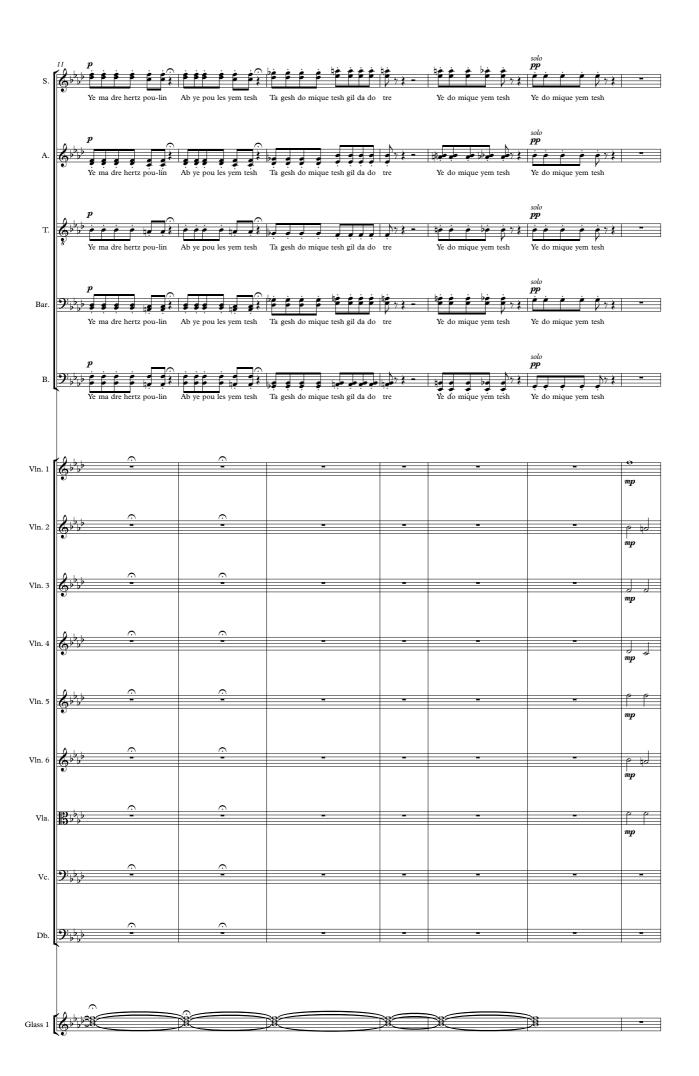
Wine glasses 1 = first group Wine glasses 2-5 = second group

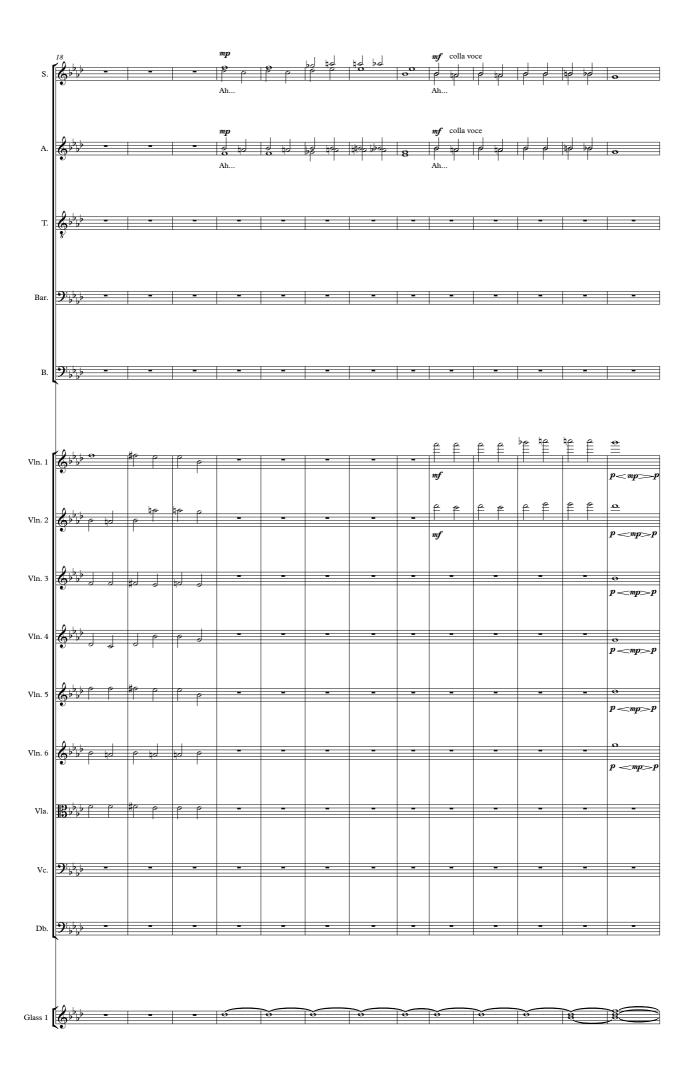
The first group play continuously throughout the entire piece. Try to have as many players as possible playing each note, ensuring a really rich, even and continuous spread of the chord. These performers stand around the back of the audience so the audience feel that they are inside the music. The people in this group playing the D flats do not play for the first 3 bars and should gradually enter one at a time after three bars have passed (maybe go around the room one by one). Work out during rehearsals how to ensure that people get a rest from playing during the piece (if necessary), but ensure that people playing the same note don't all take a rest at the same time (again, maybe going around the room, one by one). These performers will need to memorise where to stop during the piece (the end of the choir's first verse) and which people playing the D flats then start the next section and when.

The singers (do not need to move from their choir positions) play the notes in Wine glass groups 2-5. Two singers (and thus 2 wine glasses) per note. These notes are only played until bar 5 (whilst the singers have rests).

Please listen to audio track for pronunciation guidance.

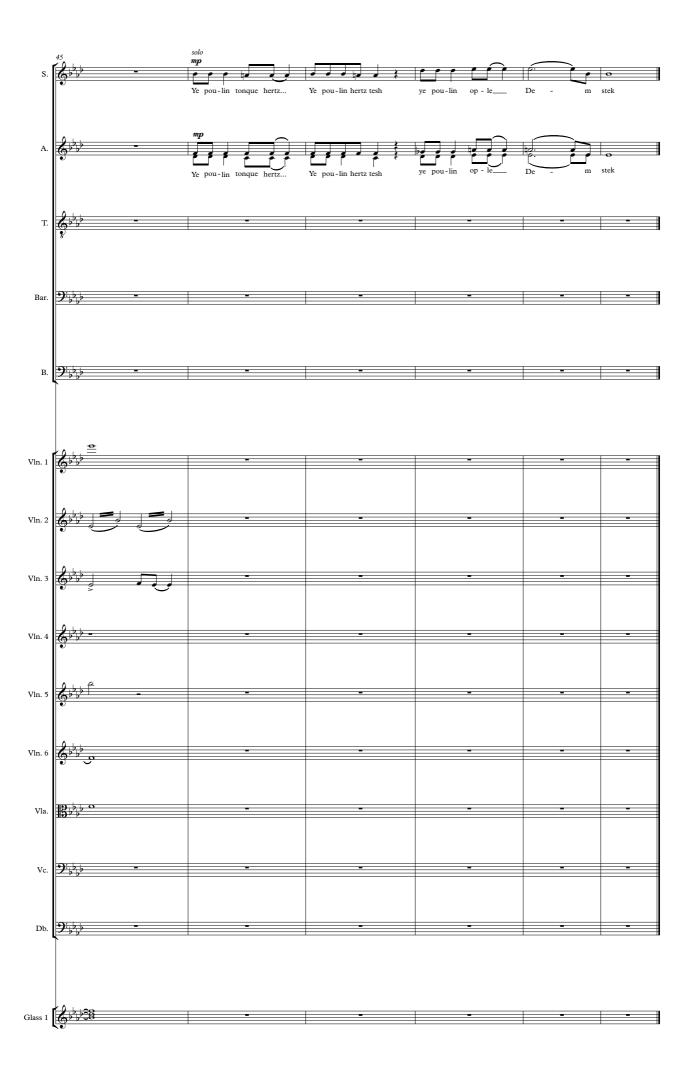












2. *Belovodia* (2013)

12 minutes long

Movements: Yohor (Circle Dance)

Gazar Eej Etugan (Mother Earth) Golompto (Daughter of Fire)

Köke Möngke (Father Heaven)

Hiimori (Wind Horse)
Yohor (Circle Dance)

The book *Entering the Circle* by Olga Kharitidi was the main inspiration for this composition. The name Belovodia comes up early on in the book when two explorers talk to Olga about their quest to find the possible location of "Belovodia", the Russian Shamballa. They explain that Belovodia is a place in the mountains where there may have lived a race of highly evolved humans, possibly as long as 300,000 years ago. These people were said to have been in total spiritual harmony with their environment and with one another. Kharitidi states that Mongolian Shamanism is believed to have originated from the wisdom of the ancient Belovodians.

The landscape, the weather and the natural environment of the plains of Mongolia were the main inspirations for the compositional material in this piece. Additionally, the importance of circles and cycles in Shamanic traditions, with things returning again and again, year after year, lifetime after lifetime was another theme from which the structure of *Belovodia* grew. In the first movement of *Belovodia* – Yohor, which is Mongolian for Circle Dance (all the movement names are Mongolian words for elements of Shamanic belief) there is a short repeated passage of notes initially played on the prepared notes of the piano. This passage reappears in movement 3 (mm. 108 & mm. 111) and again in the final movement of the piece, (also called Yohor) where the same passage is played on the vibraphone. It was my wish to generate a sense of circular continuity with the theme. The prepared piano creates a bell-like quality, and bells are often used in Shamanic traditions. I was inspired to experiment with preparing the piano in this way after hearing Arvo Pärt's Tabula Rasa (Pärt, Tabula Rasa: 1, Ludus, mm. 9.). The prepared notes have a bell-like quality in *Tabula Rasa* in keeping with Pärt's Tintinnabulation techniques. This bell-like quality seemed fitting for *Belovodia* due to the importance of bells in many Shamanic practices.

Another theme that keeps reappearing is the mother earth theme which is first introduced in an *earthy* register of the viola (starting mm. 46) and recurring between mm. 94 - 102 in a mutated form played by bowed vibraphone. The strings' col legno passage in this same section between mm. 94 and 102 also comprises notes taken from the mother earth theme. Ceremony and ritual are present in *Belovodia*, where chanting is imitated by the instruments playing in unison between mm. 68 and 73.

The third movement is called "Golomto", which means "daughter of fire". The movement starts with mobiles, which are used here to express mischievous fire spirits playing and setting things alight. They are abruptly interrupted by a clap of thunder from the heavens (imitated by the piano cluster chord at the end of mm. 80), then, from mm. 81 to 104 I attempt to evoke the landscape of bleak Mongolian plains. I have done this suggestively, with the instruments playing a variety of extended techniques, such as the rumbling sounds created by the pianist tapping the low strings inside the piano (intended to sound like thunder rumbling in the distance) or the col legno upper strings (which represent droplets of rain), whilst the vibraphone slowly bows the notes of the mother earth theme. In this passage I have included a technique for the cello which I have called "technique A". This cello effect is intended to convey the atmosphere of a vast, open, empty Mongolian plain. It does, coincidentally, also sound a little like Mongolian throat singing, although this was not intentional. I heard this technique in a workshop on youtube run by Anussi Karttunen and Kaija Saariaho⁵ and have used it in several compositions since as I feel it has a beautiful, raw, ethereal quality. It was this aforementioned passage of music in Belovodia (mm. 81 to 104), the second piece I wrote in my research, which gave me a clear picture about the direction in which I wanted my compositional style to go.

⁵ Youtube. 2019. [Online]. Available at https://www.youtube.com/watch?v=T32QIOAxrlo Accessed 2012

Belovodia was commissioned and first performed by Psappha Ensemble in March 2013 at the Bangor New Music Festival. A recording contract was not agreed, however, so the recording located within folder 2 is a studio recording. The performers were:

Clarinet: Sioned Eleri Roberts

Flute: Eleanor Lighton

Strings, Vibraphone and Piano: Katherine Betteridge

Katherine Betteridge

Belovodia

For

Flute
Clarinet in Bb and (optional) Bass Clarinet
Violin
Viola
Cello
Vibraphone
Prepared Piano

Duration: ca. 12 Minutes

All instruments are notated at sounding pitch

Programme note

For violin, viola, cello, flute, clarinet, vibraphone, prepared piano and ebow. Commissioned for Psappha Ensemble for the Bangor New Music Festival 2013

Belovodia is a mystical place in the Altai Mountains in Nprthern Mongolia where a society of people were said to have lived as long as 300,000 years ago. It is believed that the people lived in total spiritual harmony with one another and their environment.

This piece was inspired by the book Entering the Circle, a factual account by Olga Kharitidi, Siberian psychiatrist from Novosibirsk, about a journey she made into the Altai Mountains to seek the help of a shaman in order to try and find a cure for her sick friend who had a mysterious and seemingly incurable illness. The Altai Mountains are wild and desolate and it took Olga several days to reach the village in which the shaman lived. Once she reached Umai (the shaman) a series of bizarre and disconcerting events took place.

The piece explores several shamanic ideas musically, and the movements are named after either the spirit beings, or themes that have a major importance in shamanism, such as cycles within nature. There are hints of throat singing, chanting, bells, and the atmosphere of desolate Mongolian plains. Belovodia is divided into 6 movements:

Yohor – circle dance
Gazar Eej Etugan – mother earth
Golomto – daughter of fire (supposedly the daughter of mother earth and father heaven)
Köke Möngke – father heaven
Hiimori – wind horse (the being who aids the shaman on his or her journey to other worlds and dimensions)
Yohor

For Psappha March 2013

This is a piece in 6 movements:

Yohor (Circle Dance):

Instrumentation: Flute, Clarinet (or Bass), Vibraphone, Piano

ca. 1.5 minutes

Gazar Eej - Etugan (Mother Earth)

Instrumentation: Flute, Clarinet, Vibraphone, Piano, Violin, Viola, Cello

ca. 1.5 minutes

Golomto (Daughter of Fire)

Instrumentation: Flute, Clarinet and Bass, Vibraphone, Piano, Violin, Viola, Cello

ca. 2.22 minutes

Köke Möngke (Father Heaven Blue Sky)

Instrumentation: Flute, Clarinet and Bass, Vibraphone, Piano, Violin, Viola, Cello

ca. 3.25 minutes

Hiimori (Wind Horse)

Instrumentation: Flute, Clarinet and Bass, Vibraphone, Piano, Violin, Viola, Cello

ca. 2 minutes

Yohor (Circle Dance)

Instrumentation: Vibraphone, Piano, Violin, Viola

ca. 1.30 minutes

Performance Directions

There is no break between movements

Piano

Pianist will require:

- · 2 hard Guitar plectrums
- 4 x 20mm bolts in order to prepare the following strings: D4, E4, A4 and C5 (middle C being C4). Insert between strings 1 and 2
- · A Yale key on string (so there's no risk of it falling into the piano)
- 3 square white stickers to put flat across top of piano strings to be bowed (not wrapped a round the strings), so the strings can be easily found
- · Subtle amplification
- Either an Ebow used on normal setting (not harmonic) and a spare 9V battery or alternatively 3 X 1 metre long nylon bows made from fishing line wire, rubbed with rosin. The most ideal weight of fishing line is 40Lb 20Kg 0.55mm. If using fishing line wire, fold over a little kink at the end so they can be easily threaded through the strings. The strings need to be thread before the start of a performance. The notes to be thread are C4, F4 and G5. However, if using an ebow, the stickers need to be placed on A3, Bb3 and F4

*Preparing the piano:

Press sustain pedal to raise dampers, then slide a screw driver between the strings and rotate, which will part the strings. Then insert the bolt.

Vibraphone:

Will require: 1 double bass bow Cord-wrapped hard mallets

Clarinet

Play particularly low notes an octave higher on normal Bb clarinet if no Bass Clarinet is available.

Strings:

It will be necessary for violin and viola to memorise bars 141-149

Cello

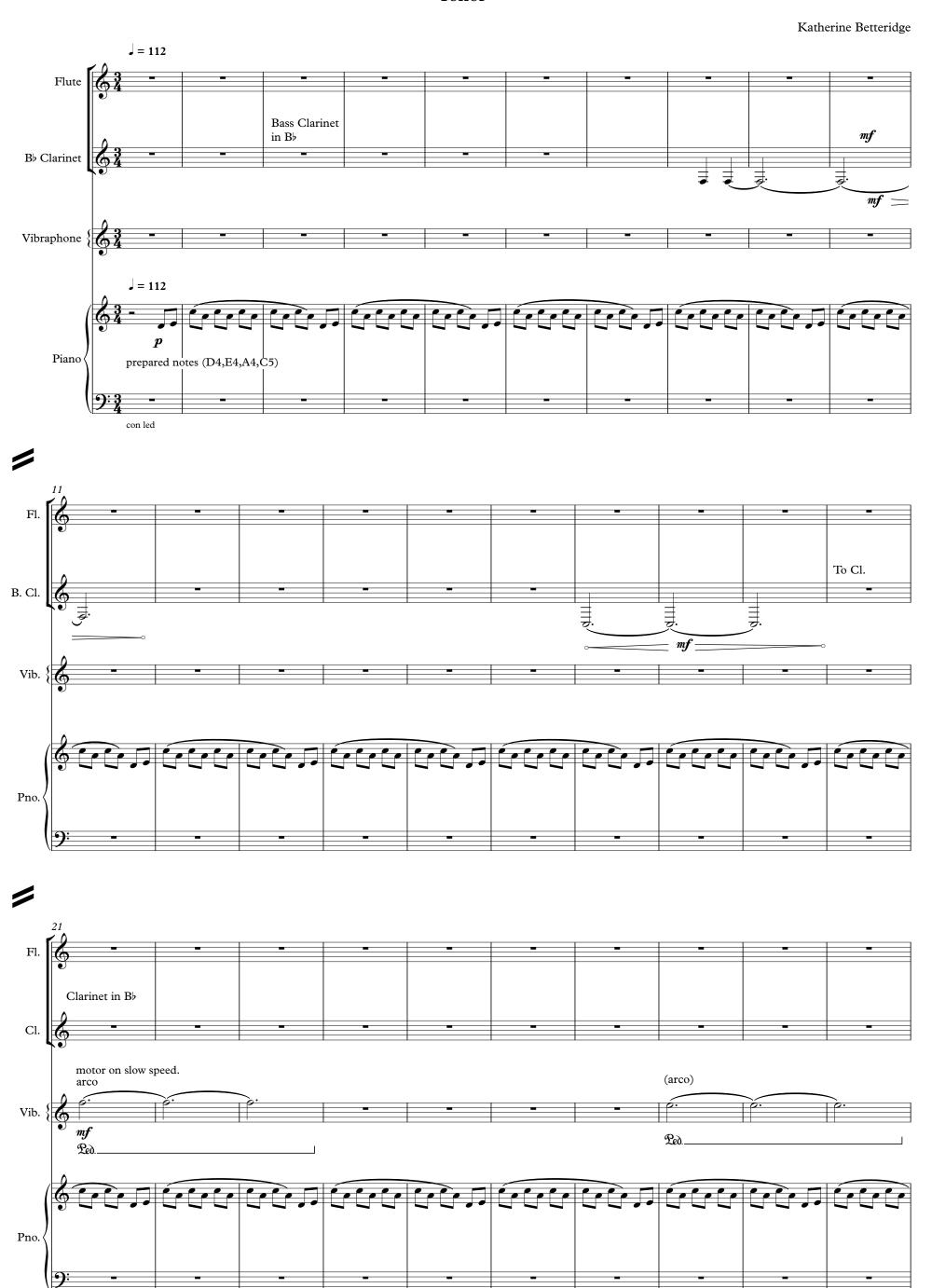
Please see the video clip provided for the technique from bar 97-102 and again at 140 (Technique A). A description of the technique is: lightly and intermittently tap the harmonic nodes, alternating between the two strings. The bow plays on the two strings as a double-stop, no tremolo, with a slow, light, airy, noisy stroke.

Yohor (Circle Dance)

Instrumentation: Flute, Clarinet (or Bass), Vibraphone, Piano ca. 1.5 minutes

Belovodia

Yohor



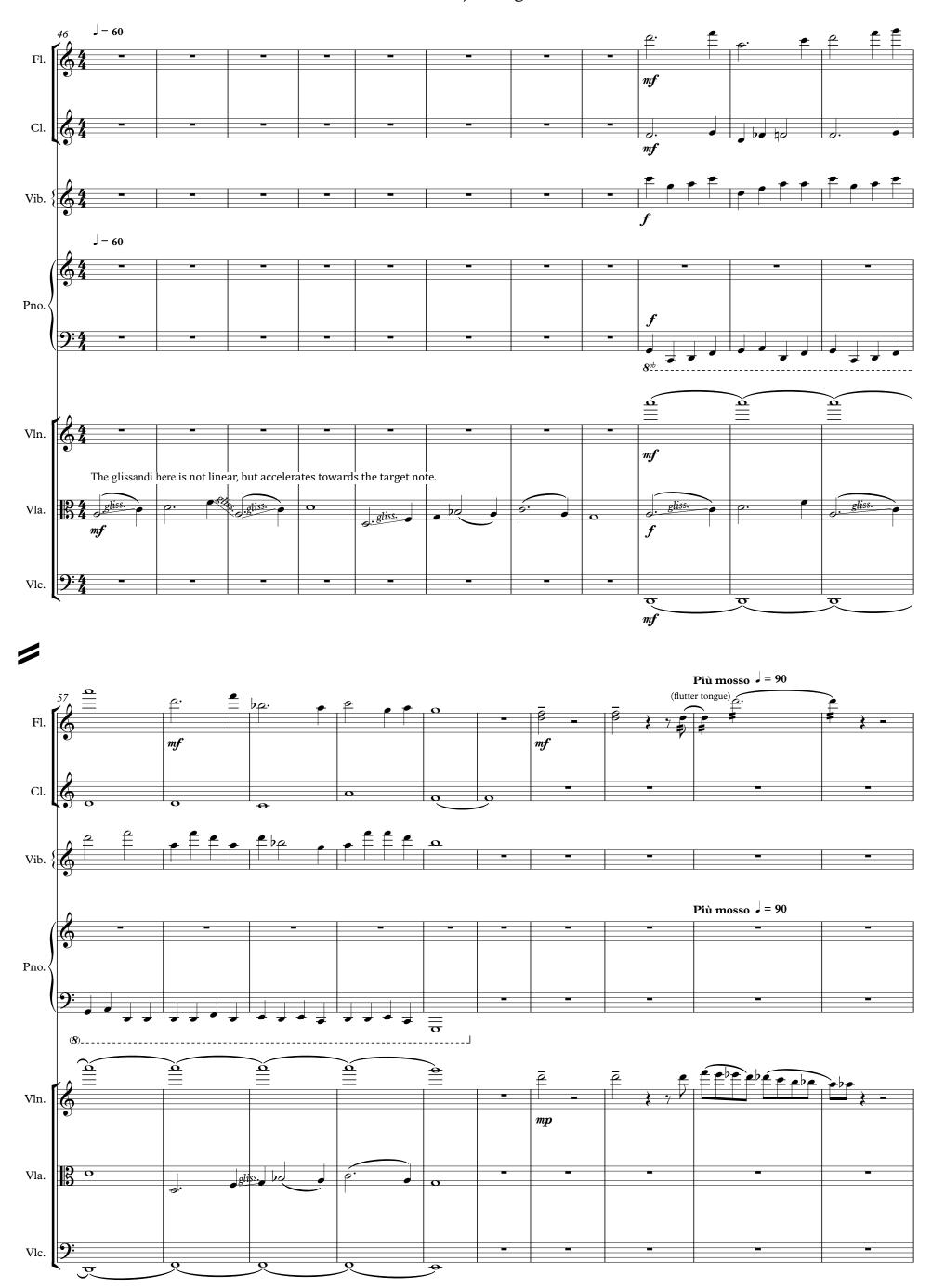


Pno.

Gazar Eej - Etugan (Mother Earth)

Instrumentation: Flute, Clarinet, Vibraphone, Piano, Violin, Viola, Cello ca. 1.5 minutes

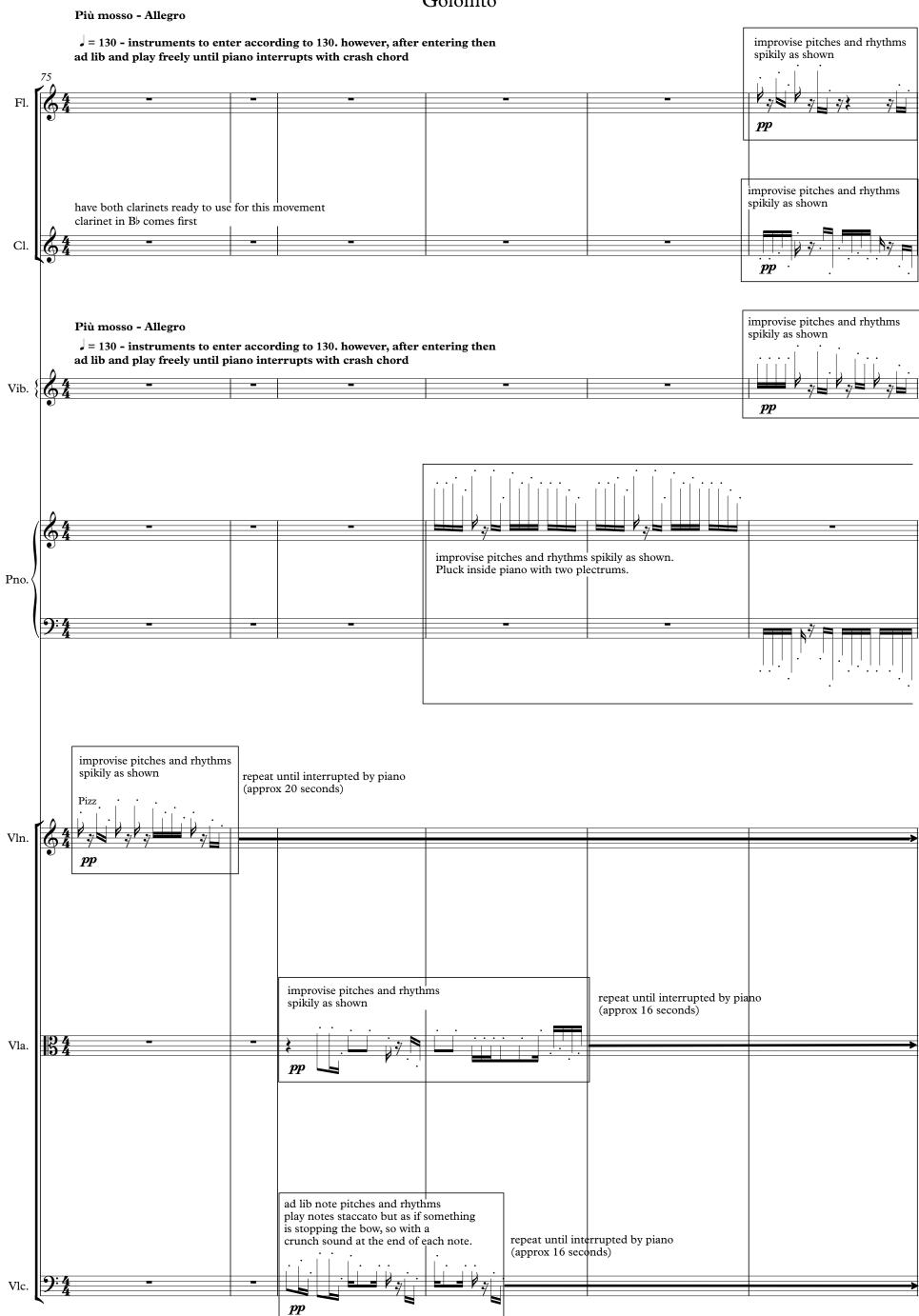
Gazar Eej - Etugan

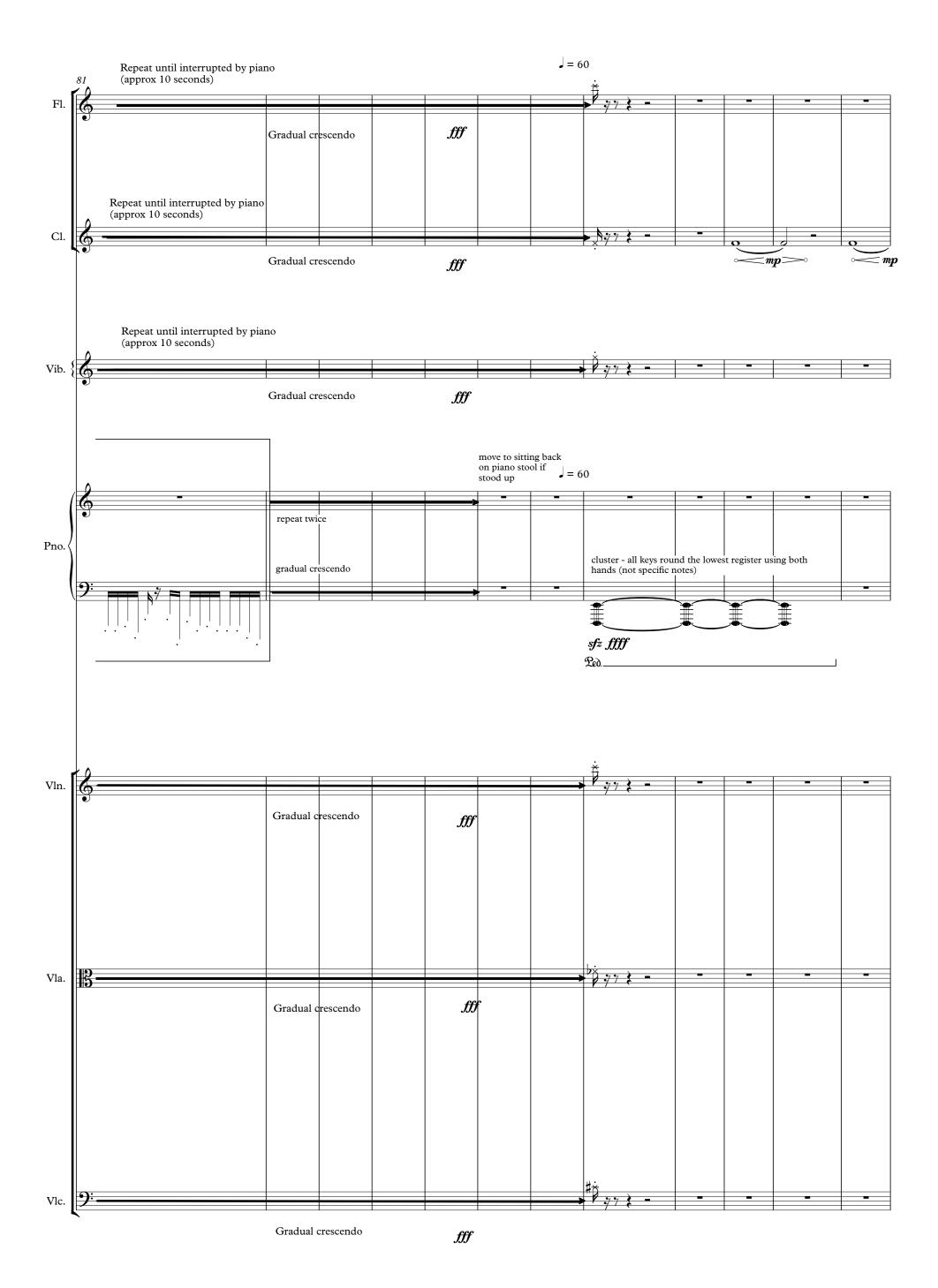


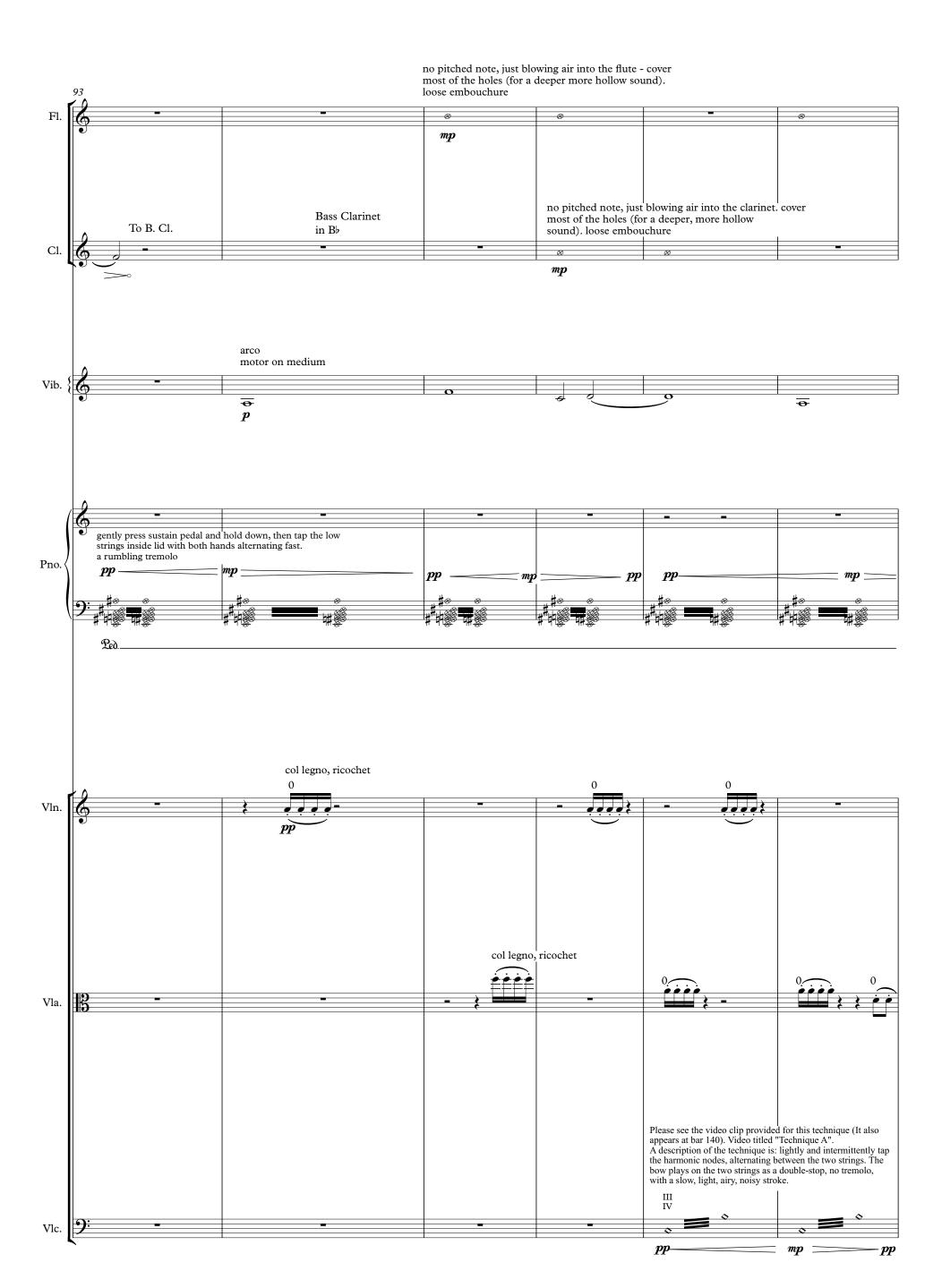


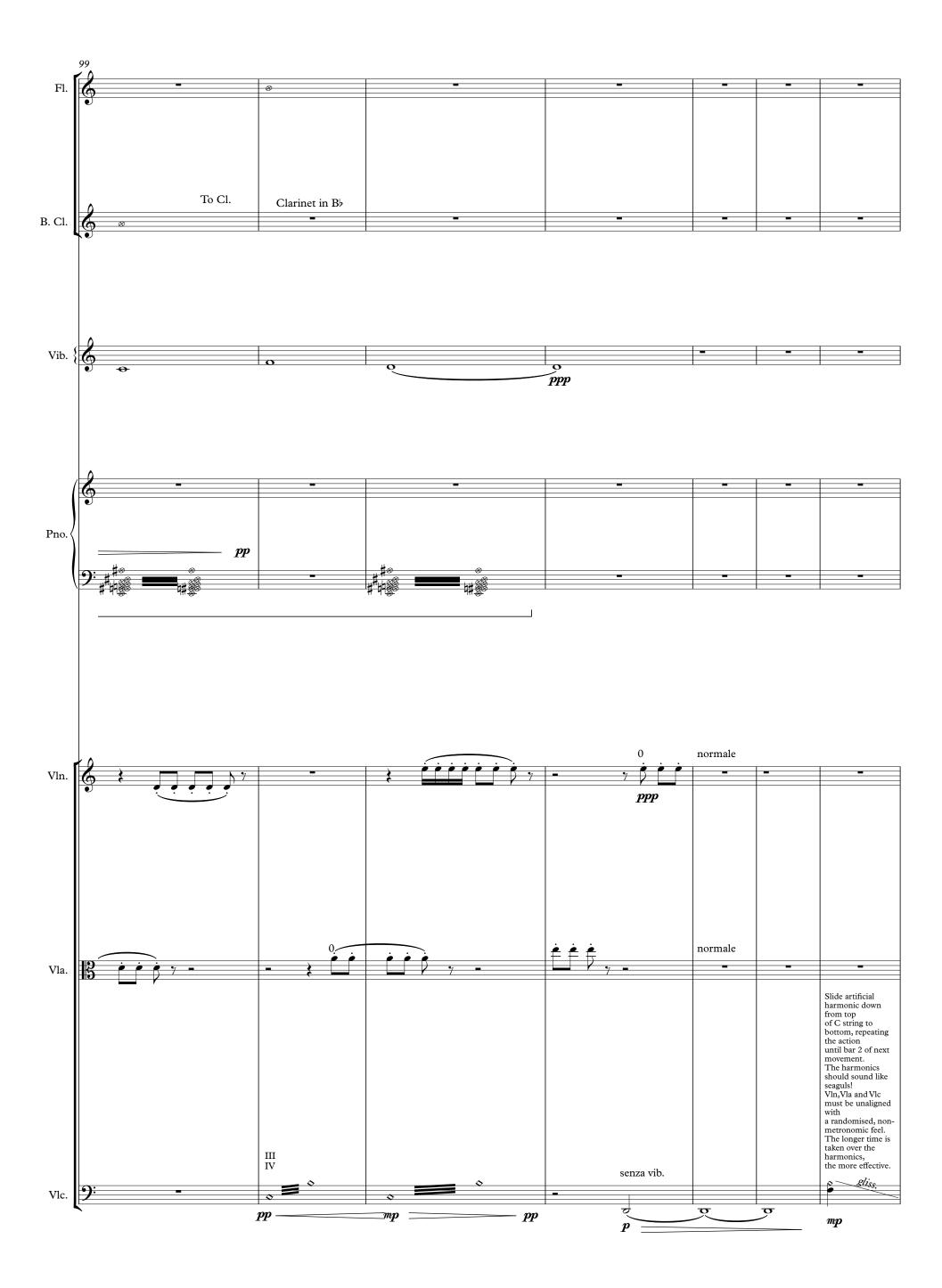
Golomto (Daughter of Fire)

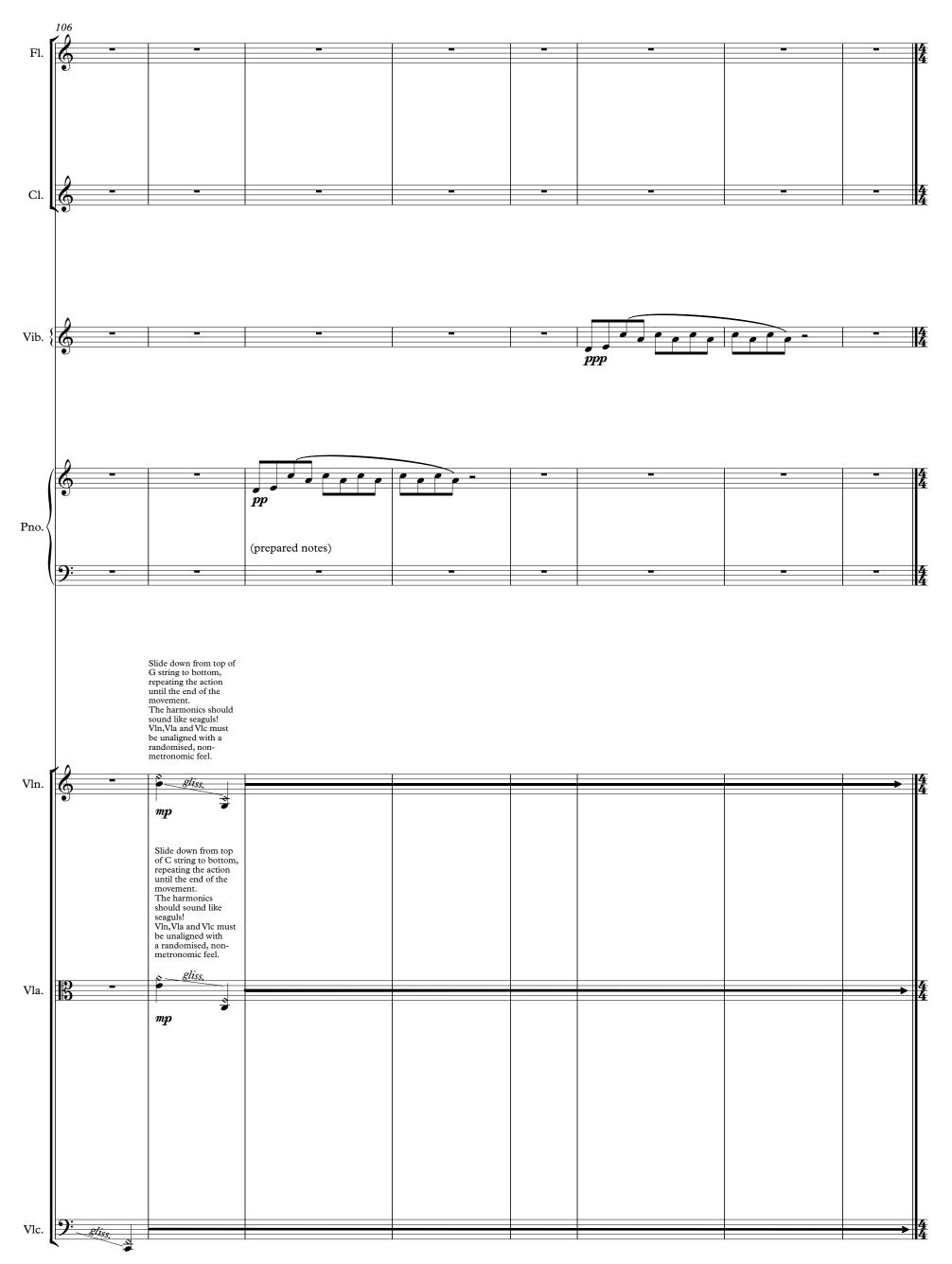
Instrumentation: Flute, Clarinet and Bass, Vibraphone, Piano, Violin, Viola, Cello ca. 2:22 minutes





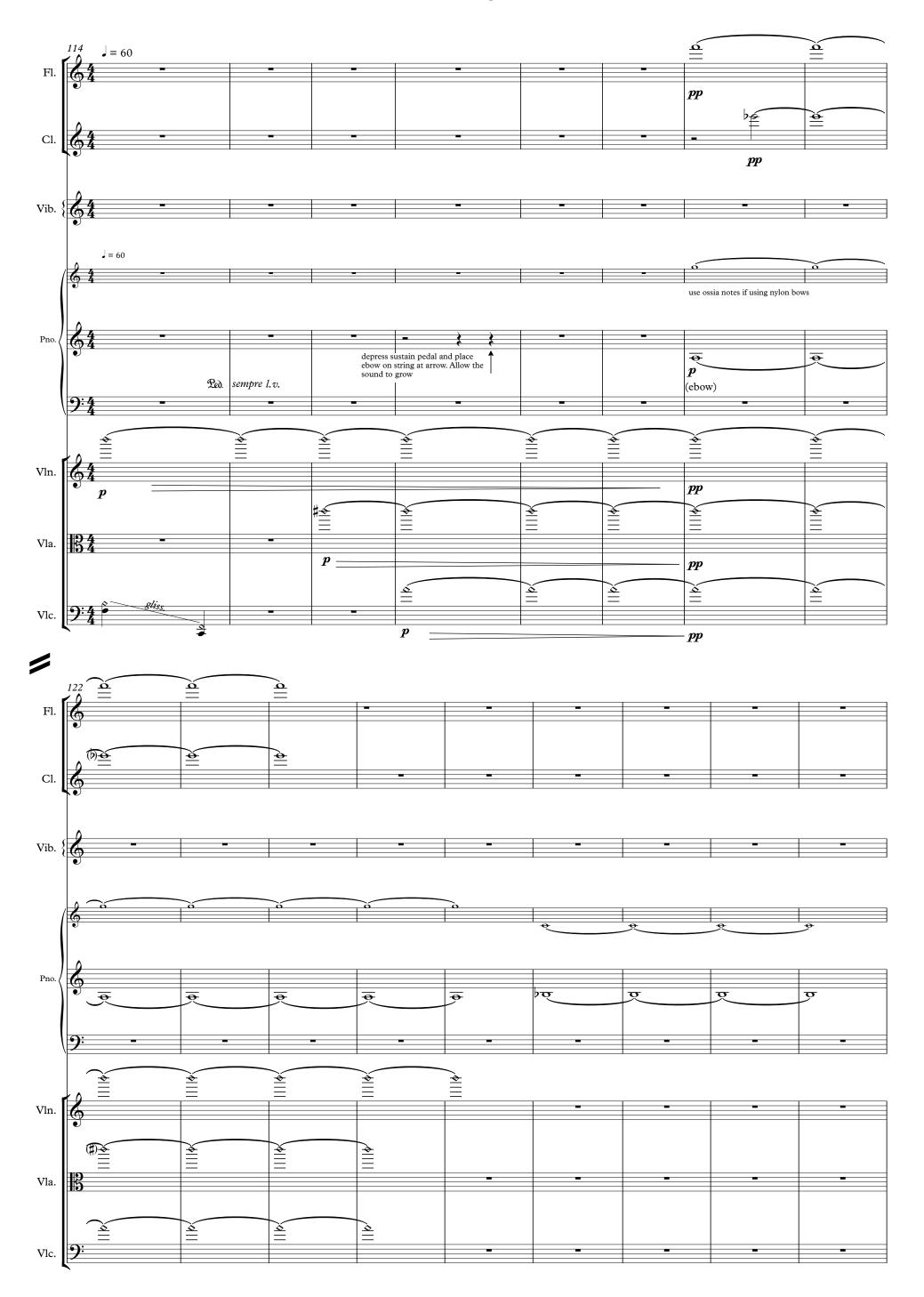


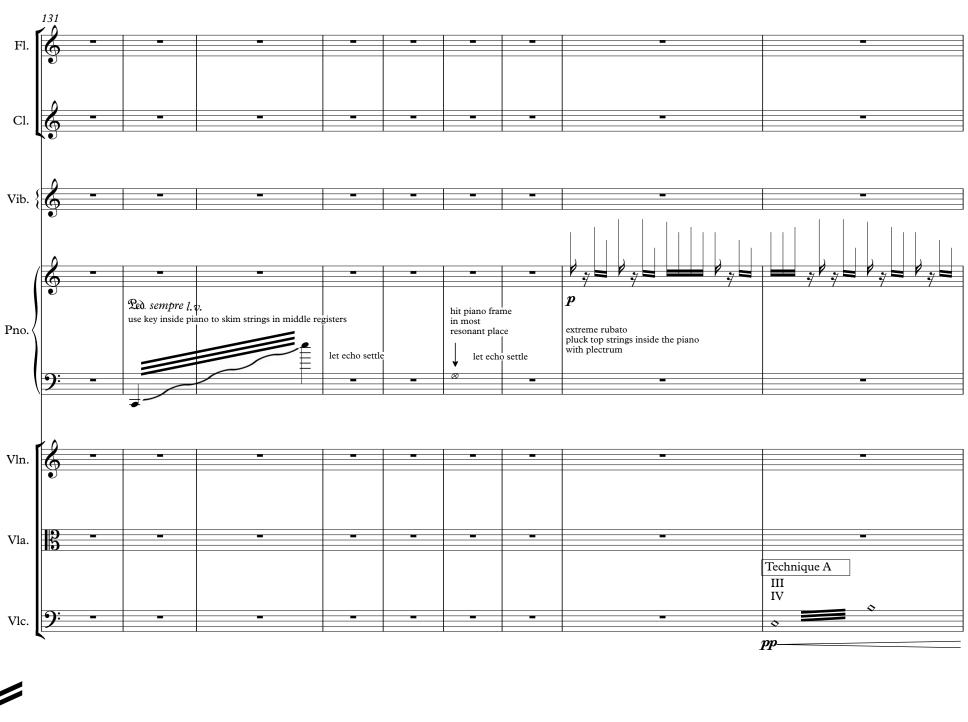


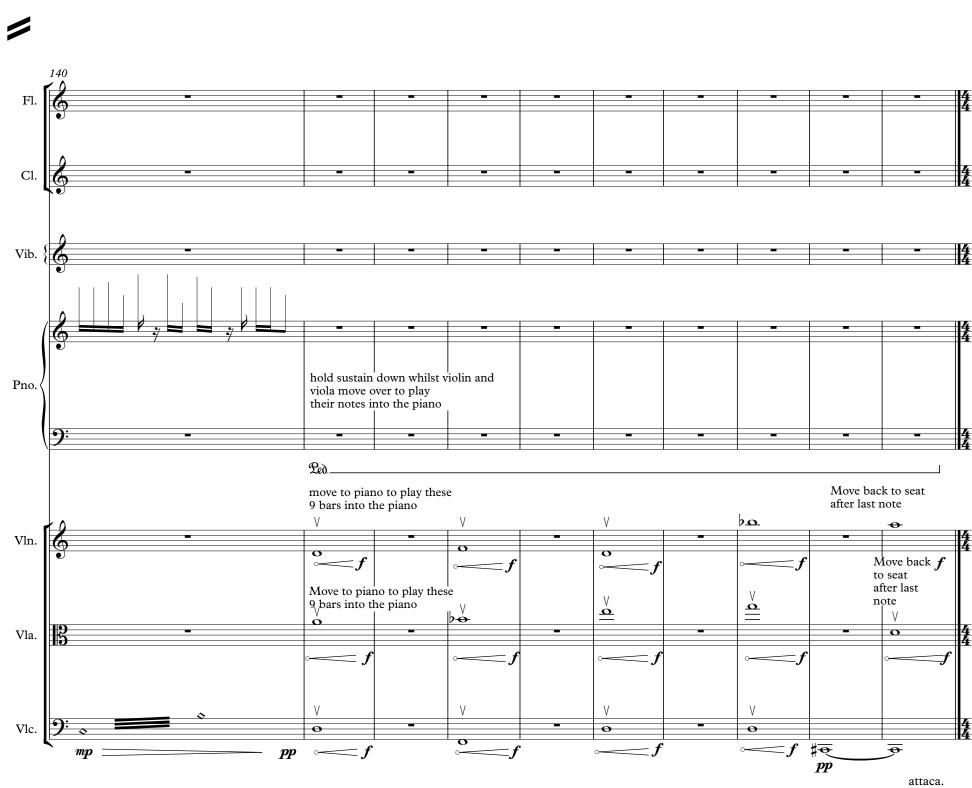


Köke Möngke (Father Heaven - Blue Sky)

Instrumentation: Flute, Clarinet and Bass, Vibraphone, Piano, Violin, Viola, Cello ca. 3:25 minutes

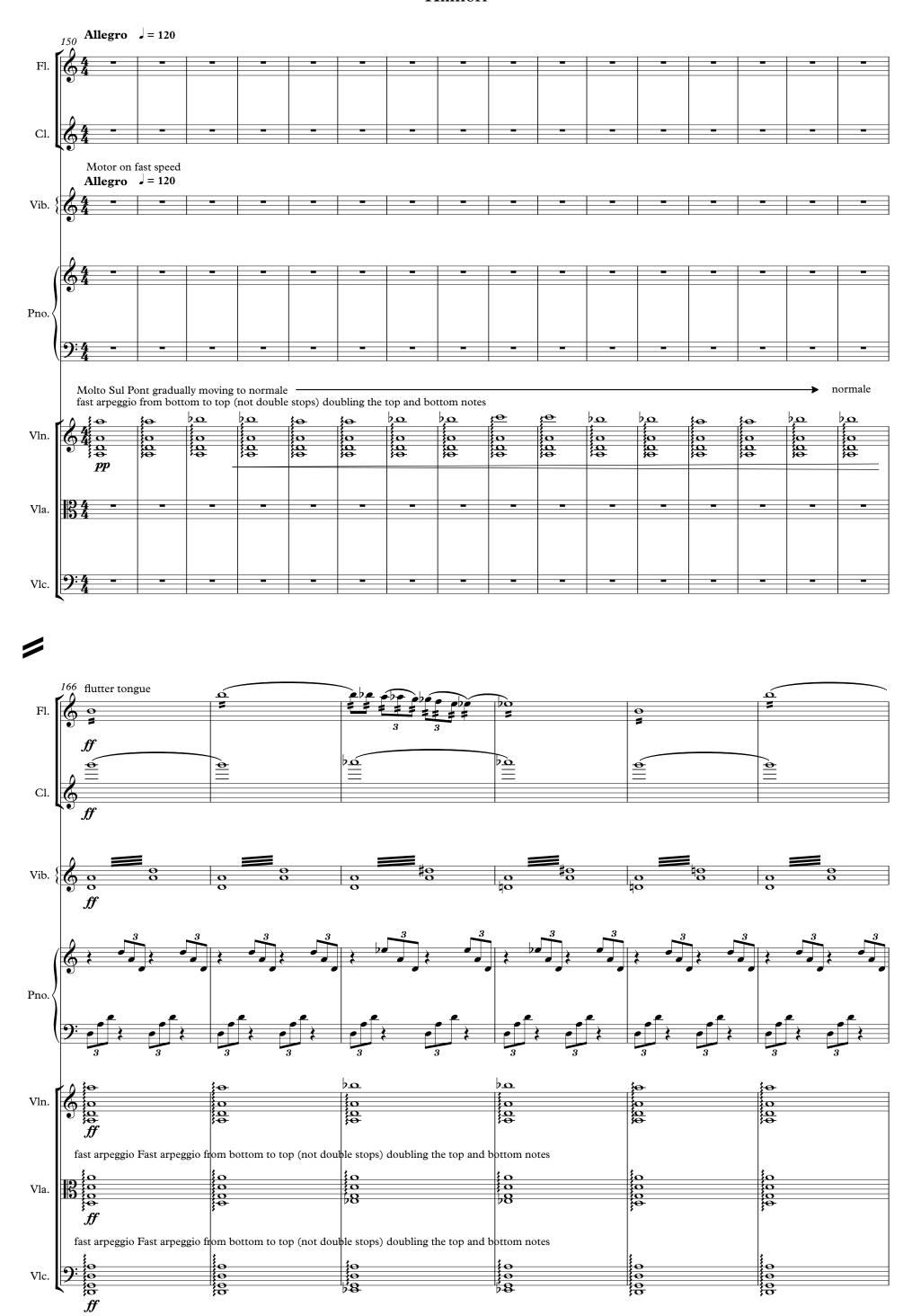




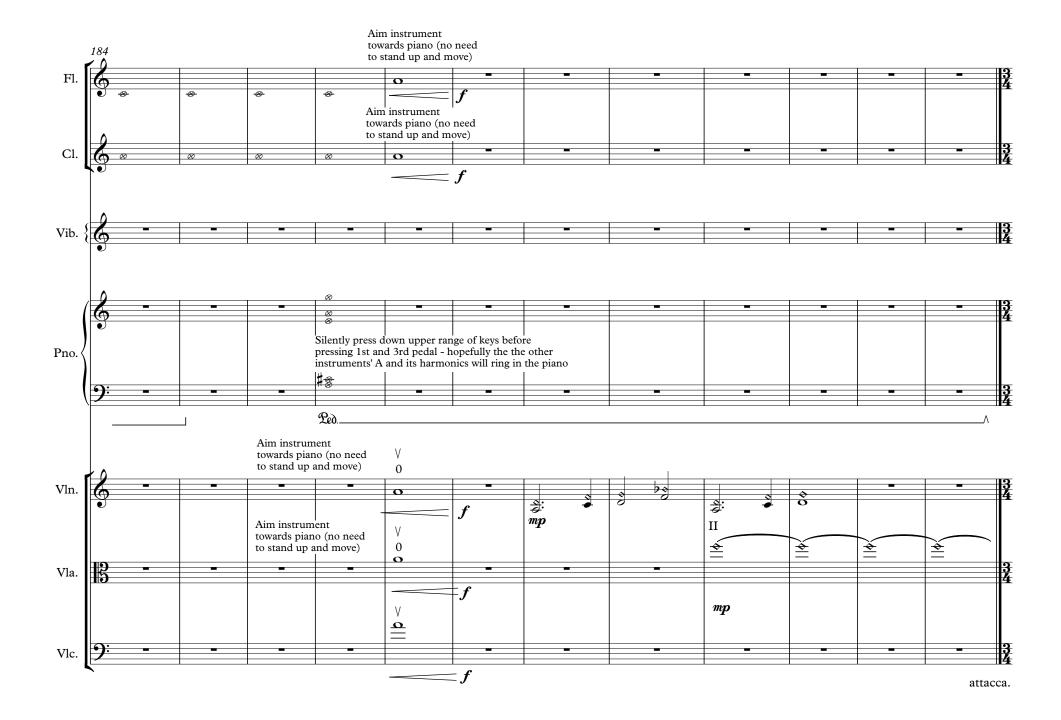


Hiimori (Wind Horse)

Instrumentation: Flute, Clarinet and Bass, Vibraphone, Piano, Violin, Viola, Cello ca. 2 minutes



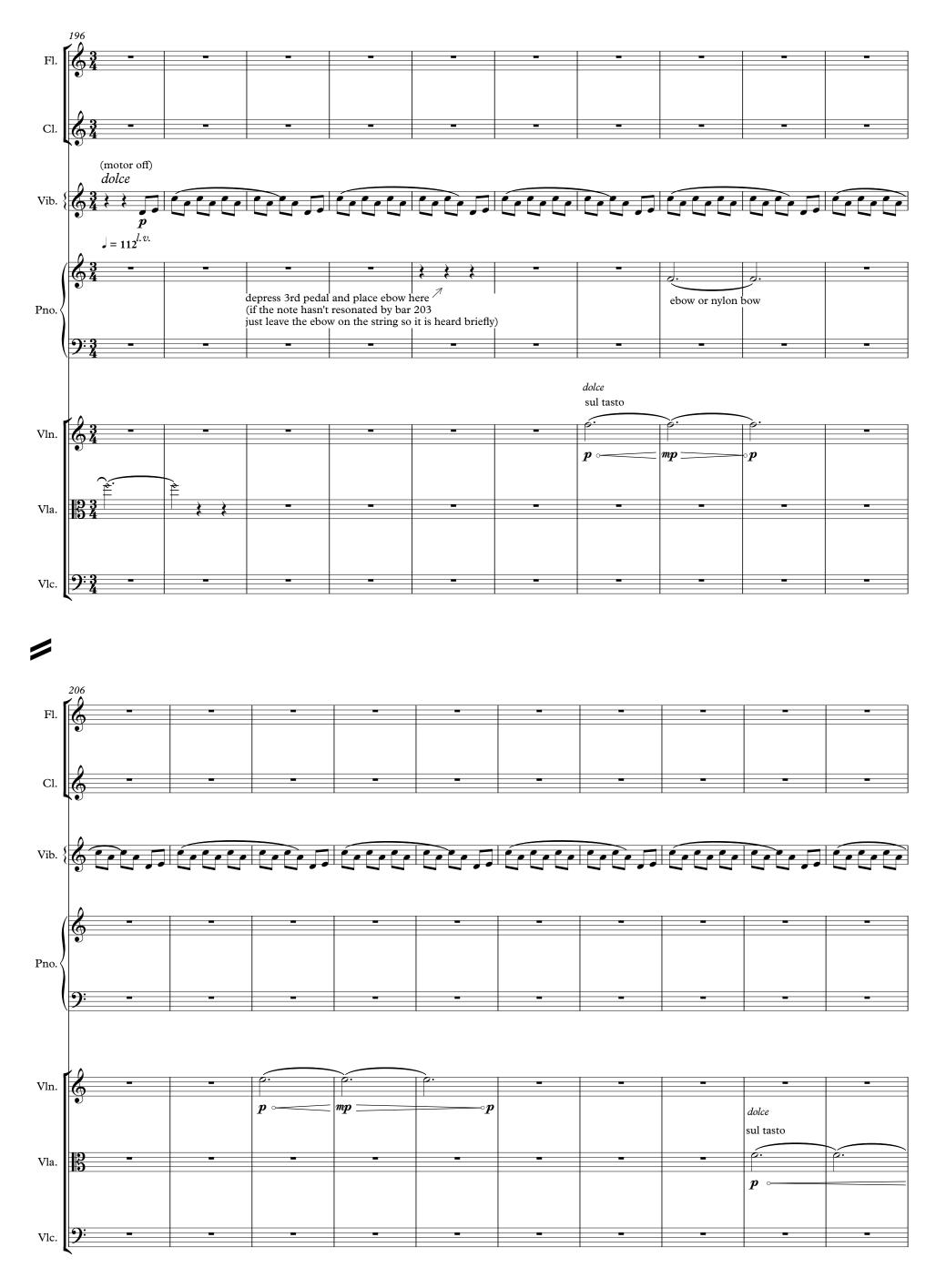


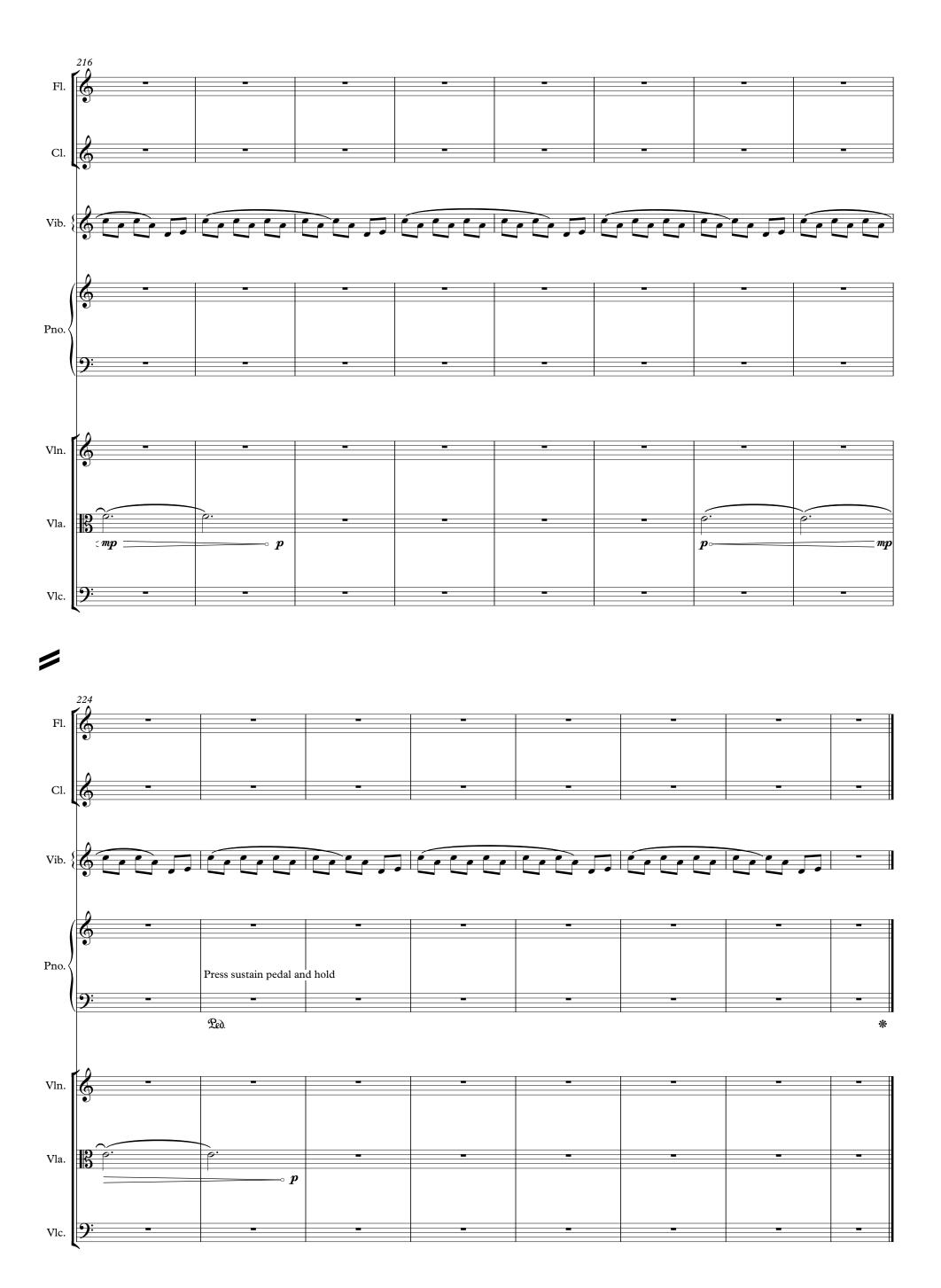


Yohor (Circle Dance)

Instrumentation: Vibraphone, Piano, Violin, Viola ca. 1.30 minutes

J = 112 Yohor





3. Forest of Non-Ordinary Reality (2016)

5 minutes long

First hand experiences of states of non-ordinary reality have influenced all my music, and I feel there is an element of this in every composition. However, *Forest of Non-Ordinary Reality* addresses the idea of crossing the boundary of realities directly. This piece was inspired by Shamanic traditions in the generic sense and does not refer to any specific localised tradition.

The piece starts with only acoustic instruments playing. The idea was that the acoustic part of the piece should represent our normal day-to-day reality – standing outside a forest, hearing and feeling the elements. The shift in reality occurs halfway through, which I attempt to convey by means of mp3s sent out to the mobile phones of members of the audience. *Forest of Non-Ordinary Reality* clearly plays with the idea of boundaries between realities, but it also plays with the boundary between audience and musicians. The phones act like a mini orchestra as a variety of different tracks are relayed, so that the auditorium becomes filled with different sounds emanating from all directions, instead of all the music coming from the stage. The live musicians rest their notes upon this sea of sound and improvise around it. The sub-bass speaker needs to be effectively 'played' – faded in and out sensitively. The musicians improvise along with the phones. It is more effective as a piece when there is a larger audience playing a larger number of mp3s.

I came across the idea of using audience members' mobile phones in a similar way at an event called "Sanctuary" in Galloway Forest Park, Scotland in 2015 in a composition called *Murmurate* by Tim Shaw and Sébastien Piquemal. In this composition, the audience (a group of about 15 people) were taken away from the main camp and guided deep into the forest. The composers asked everyone who was willing to participate to log their phones into the wifi they had set up, and they then proceeded to send different clips of digitised music to everyone's phones. The effect was extremely moving and potent, partly due to the fact that everyone stood in different locations on a large rock overlooking the forest, so the sounds coming from the phones streamed from all directions. The setting was further enhanced that night

by a full blood red moon and a clear cloudless sky. The overall effect was totally magical and it prompted me to experiment with a similar idea myself.

The recording of Forest of Non-Ordinary Reality (in Folder 2) is a live concert which took place on 5th January 2016 in Powis Hall at Bangor University and was performed by Okeanos ensemble with mobile phones belonging to audience members. The subbass speaker was controlled by Katherine Betteridge.

Katherine Betteridge

Forest of Non-Ordinary Reality

For

Shakuhachi Cello Koto Hand Percussion Mobile Phones

Duration: ca.5 minutes



Painting by Katherine Betteridge

Programme Note

This piece was a commission for the ensemble Okeanos to perform at the joint British Forum for Ethnomusicology and the Royal Music Association postgraduate conference in Bangor 2016.

This composition relates to the experience of entering a forest, but within a dream or an altered state such as in shamanic journeying where aspects of normal reality become surreal and slanted.

The first two and a half minutes of music take place outside the forest looking in – in normal reality, with wind and birdsong. The drumbeat represents a shift in consciousness, and when the phones start playing, the dream reality begins. I imagine within the dream forest there to be unreal elements, such as light coming up from cracks in the ground or out of trees, and strange, dreamlike beings moving about, just out of sight.

The mp3s played through the phones are representative of the strange ethereal sounds coming from around the forest.

The piece was initially inspired by a walk during a storm. Strong winds and driving rain forced me to move towards a pine forest for shelter. Outside the forest, trees were making a lot of noise as they were battered by the elements, but as I entered the forest I experienced a calm, quiet and surreal atmosphere, with the pine needles on the floor dampening the sound and the encasing of the closely planted trees protecting me. This reminded me of a dream I once had, in which I found myself walking through a forest, with lights shining up from the soft padded mossy floor, in between the large roots of trees and sometimes shining out of the trees themselves. The entry of the phones indicates this shift in reality.

Performance Directions

This composition can be performed purely as an acoustic piece or for acoustic instruments, audience member's mobile phones and a track played through a sub-bass speaker. There are 14 mp3 tracks provided with the composition. Numbers 1 - 13 need to be sent to audience members to load onto their phones in advance of the performance – one track per audience member. If there are more than 13 people in the audience (!), send the higher numbered tracks (from Layer 8 - 13) out to more audience members (the more people have the tracks, the better). The tracks are all different in order to create an orchestra of mobile phones, so if a group of people will be sat together, try to give them all different mp3s. The idea is to have a variety of the different tracks coming from across the room. In the premiere of the piece it was possible to send out emails in advance with the track attached.

If this is also how you intend to share the tracks, please give the following instructions in the email:

- · Please download the track onto your mobile phone and check it plays before the performance.
- Turn the volume as high as it will go without distorting
- Set your phone to airplane mode so it does not go off mid performance
- Bear in mind that once you have pressed play, nothing will happen for 15 25 seconds (depending on which track you have been sent) this is correct
- Press play when you are signaled to do so by the oboist this will be about 2.5 minutes into the piece
- A visual signal will be explained and demonstrated before the start of the performance.

The improvisatory second half, from bar 19 onwards, is open for the performers to play any extra instruments they may have with them. At the point in bar 17 marked with a star, the oboist needs to give the audience a signal to press play on the mp3s on their phones. Explain to the audience before starting the piece what the signal will look like.

Sub-Bass Speaker

There will be someone required to play the sub-bass mp3 which needs to be run from a phone or laptop through a mixing desk or interface to the sub-bass speaker. Press play once the oboist signals for the audience to press play on the phones. This track is purely to create a "rumbling" sound.

Cello

Bar 15: Lightly and intermittently tap the harmonic nodes shown, alternating between the two strings with the left hand. The bow plays a straight double stop (not tremolo), with a slow, light, airy noise stroke

*See video demonstrating this technique

Bar 17: Trill between the harmonic and open string. Sometimes other partials may appear – this is fine, in fact, move the bow towards the bridge and then away from it to let other notes come through.

Shakuhachi

Bend note up, then down:



Whenever there is a glissando, try to make the run smooth with no sounding separate notes – more of a portamento with all the microtones audible.

The two types of vibrato used in this piece are Ttsuki Yuri (wobbling the bamboo) and Yoko Yuri (shaking the head side to side)

Hand Percussion Required:

G# & F# Rins Glass singing bowl (tuned to E) Antique-cymbal (tuned to F) Ocean Drum

The Oboe and Koto players will need to sit next to one another as they will both be playing the percussion instruments.

Oboe

You will need: G# & F# Rin, glass singing bowl and antique-cymbal

The G# & F# Rins, the glass singing bowl (tuned to E), and antique-cymbal (tuned to F) will all need to be within easy reach.

Run mallet around edge of bowl:

Strike most resonant part of the side of the bowl with the mallet:

llet:

Signal to audience to press play on their phones:

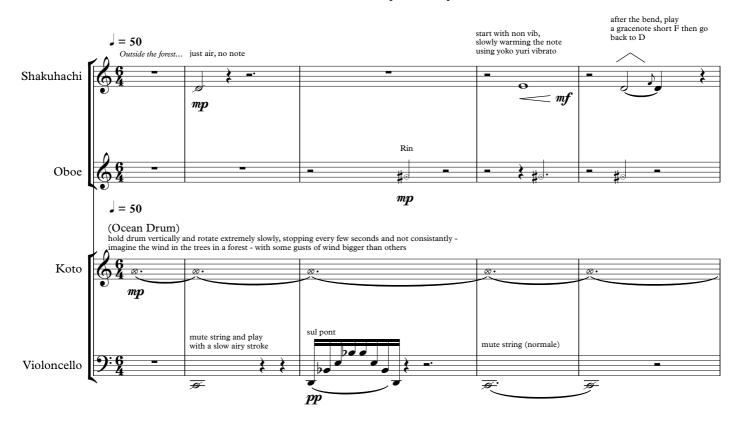


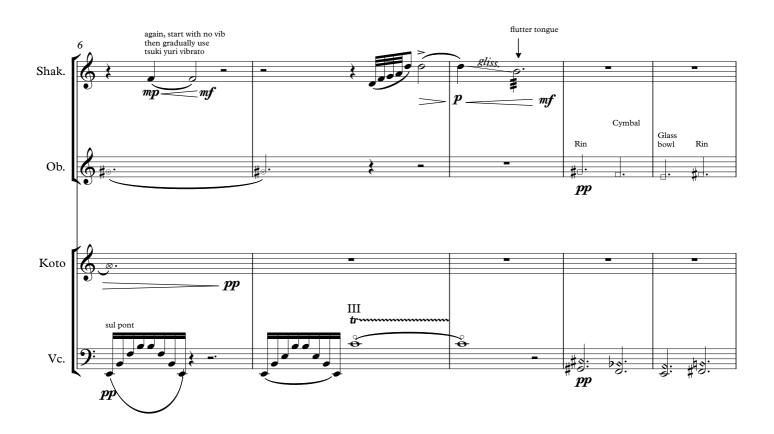
Koto

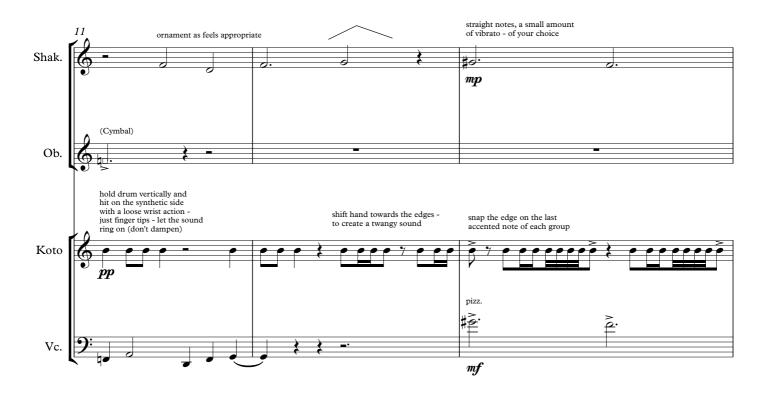
You will need: Rins, cymbal and ocean drum

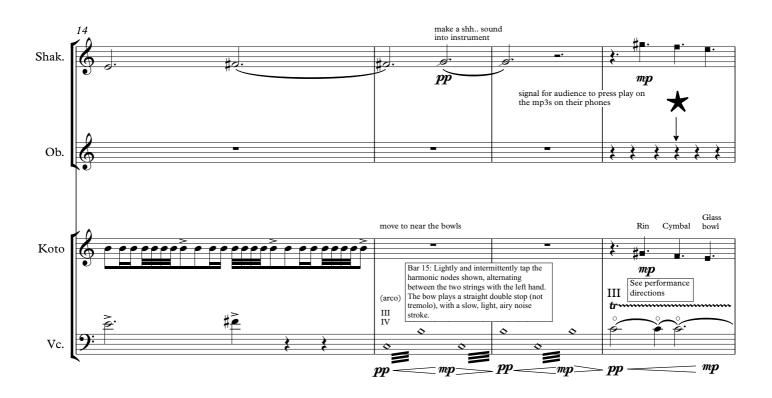
For Okeanos January 2016

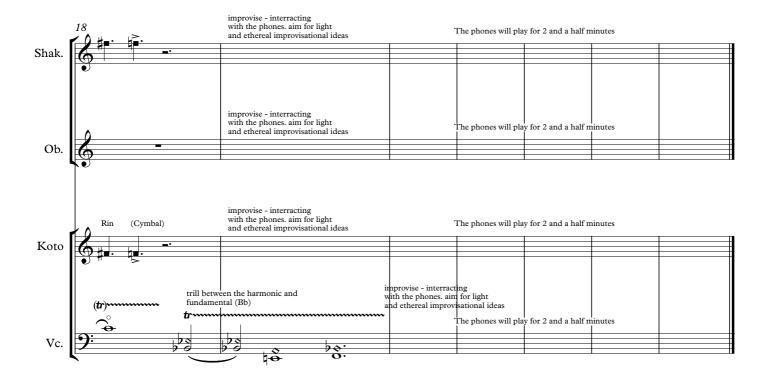
Forest of Non-Ordinary Reality











4. Elementa (realisation 2016)

25 minutes long

Movements: Aqua

Ignis

Terra

Ventus

4.1 Aqua

Aqua focuses mainly on the idea of being in a boat out at sea, on a calm, hot day, with the sunlight just catching the lapping waves. This movement uses wine glasses and amplification. I have also included a few experimental techniques, such as blowing on the strings to create a quiet shimmering effect and tapping wine glasses, to represent the literal sound of a boat sail tapping against the mast.

4.2 Ignis

Ignis is the fastest movement in the composition. This movement uses electronics, at the beginning and at the end, to create the sounds of an erupting volcano. I created these sounds with a recording of myself playing a single note on the cello, and added a combination of effects, such as overdrive and extreme distortion. The movement again employs a variety of extended techniques in order to evoke certain aspects of fire or the volcano – aspects that I felt could not be realised using conventional means. "Crackle Technique" is used here in this movement to imitate the sound of smoldering lava burning everything in its path.

Sound is used suggestively here, by means of string trills played over the top of the recording. I have indicated that they should be played with a "gossamer" quality, which was inspired by George Crumb's *Black Angels*. I love the imagery the word "gossamer" creates – delicate, fine, spider web silk. In my quartet the gossamer effect is intended to evoke fine, light embers floating into the air after the volcanic eruption.

4.3 Terra

Terra attempts to create a tonal image of the forest environment, with the ambient noises of birds, insects, trees creaking, leaves rustling, water on leaves and a mixture

of other natural noises. The techniques called "L1" and "L2" are named after techniques used in the piece *Toccatina per Violino Solo* by Helmut Lachenmann. I have used these techniques here in my quartet to represent the sound of droplets of rain falling onto leaves and the leaves shaking under the weight of the water. I borrowed this technique from Lachenmann as I feel it is a good aural representation of the appearance of droplets of water on leaves. This movement comes from the experience of walking in woodlands and forests. L1 and L2 appear between mm. 185 and 207.

4.4 Ventus

When I began composing *Ventus* I attempted to create an impression of the sounds the Northern Lights would make if they made any sounds at all. The Sami people of northern Europe have spoken for years about the sounds of the Northern Lights. Then I discovered that if the radio waves from the lights are recorded, they actually do make an amazing variety of sounds! As also do solar flares. The sounds resemble clapping noises or descending and ascending whistles (known as pops and whistlers). These sounds are recorded using a very low frequency (VLF) radio receiver. I have tried to recreate some of these in a literal way (such as the glissandi from 239 onwards) but have also used actual recordings of the radio waves as part of the composition. The sounds were recorded by the astronomer Thierry Lombry and are included with permission.⁶

There are also evocative and suggestive *visually* inspired sounds of the Lights used between mm. 253 and 299. An attempt has been made to convey the Borealis through string crossings, or, more specifically, with the different effects used whilst the string crossings take place (sul ponticello, sul tasto etc) between mm. 253 and 298. This is intended to evoke different colours, shapes and movement in the sky. The accents shifting from player to player at the beginning of the movement are intended to convey the movement of the Lights across the sky.

The electronics in movements 1, 2 and 3 were created by myself on acoustic instruments with special effects.

⁶ Luxorion. n.d. [Online]. http://www.astrosurf.com/luxorion/audiofiles-aurora.htm Accessed 2015

All strings within parts on the recording are also performed by myself

Katherine Betteridge

Elementa

For

Amplified String Quartet and Electronics

Duration: ca.25 minutes

All instruments are notated at sounding pitch apart from viola in "Ignis" which is notated at fingered pitch

Programme note

For string quartet, wine glasses and electronics

I chose to write a piece that represents specific examples of the 4 elements: water, fire, earth and air in that order. In the composition the elements are referred to by their Latin names and are represented by specific places and events. Aqua (water) is represented by the sea, Ignis (fire) by Katla – one of the largest and most ferocious volcanoes in Iceland. Terra (earth) is represented by a forest and Ventus (air) by the Aurora Borealis.

Performance directions

Throughout the score, all new or unconventional techniques which have a box around them are also boxed here with an explanation and also demonstrated in the video accompanying this document.

For performance of the piece to be effective and to create the stereo effect intended, particularly in the 4th movement (Ventus), the musicians need to position themselves in this order, stage left to right:

Violin 1 Viola Cello Violin 2

2 speakers are required for this piece and need to be placed at either side of the audience.

It is possible to perform this piece without amplification but the first movement has extremely quiet sections. Either with or without amplification, the performance space for this composition needs to be extremely quiet.

All samples are in the accompanying folder.

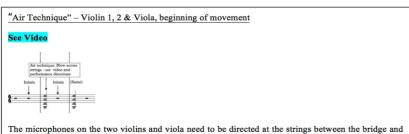
All musicians will need a microphone mounted on a microphone stand. The instrument needs to be easily moved away from the microphone, so a pickup microphone is not appropriate. A very small amount of reverb should be added.

Movement 1 – Aqua

For this movement, the microphone needs to be directed at the part of the strings between the bridge and fingerboard but with the instrument being held in a vertical, upright position on the knee (demonstrated in video). The microphone volume level shown as 0db should be set to make the sounds clearly audible but not especially loud.

Each musician will require one wine glass containing enough water to reach the desired note indicated below (middle C being C4). The 1st violin will also require a spoon or metal object.

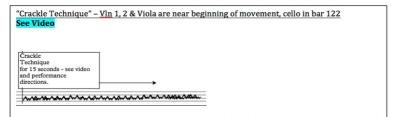
Violin 1 Glass tuned to G5
Violin 2 Glass tuned to E5
Viola Glass tuned to F♯5
Violoncello Glass tuned to F5



fingerboard and the player needs to blow across the strings up at the top (demonstrated in the video). It will be necessary to try out various methods to find the most resonant place to blow on the strings. The violin/viola will need to be held out in front of the musician. It does not matter which strings ring more than others — it is the overall shimmering effect that wants to be achieved. The blown notes generally need to overlap just enough so there aren't repeated gaps, although this does not need to be uniform and occasional gaps are fine. The technique is also demonstrated in the accompanying video.

Movement 2 - Ignis

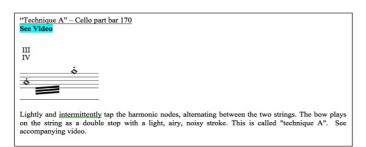
If the piece is being performed unamplified, just miss out the volcano sounds at the beginning.

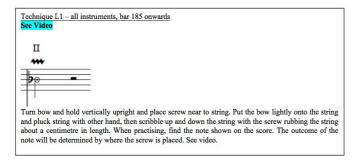


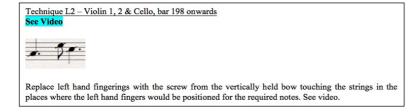
For Ignis, musicians playing the violins and viola will need to lay their instruments on their knees with the strings facing down between the legs to mute them, or alternatively they lay the instrument against their chest as shown in the video. They then hold the bow with one hand holding the frog and the other about 6 inches from the frog - down the wooden part of the bow. Gently press the hair down onto the most hollow part of the back of the instrument and press the bow into the hair, turning the bow gently, forcing the wood towards the hair and rotating the bow as doing so. As the bow turns, the wood creates tension with the hair and creates a crackling sound - like fire. This is a more gentle action than it sounds and will not cause damage to the instrument. The sounds created do not need to adhere to any kind of hythm, however, the time taken to play the passage is indicated in seconds. This technique is also demonstrated in the accompanying video.



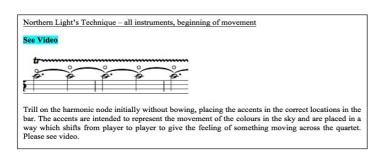
Movement 3 - Terra

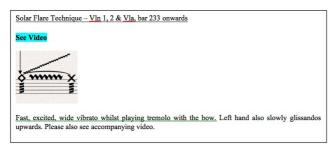






Movement 4 - Ventus





Other uncommon notations - descriptions are on the score as these are more easily explained

Blow into F hole:

Used in Movement 1 to indicate the playing of the wine glasses. There are several ways used of playing the wine glasses – all described in the score itself at different points, but this diamond note head is always used to signify that the note is to be performed on the wine glass:

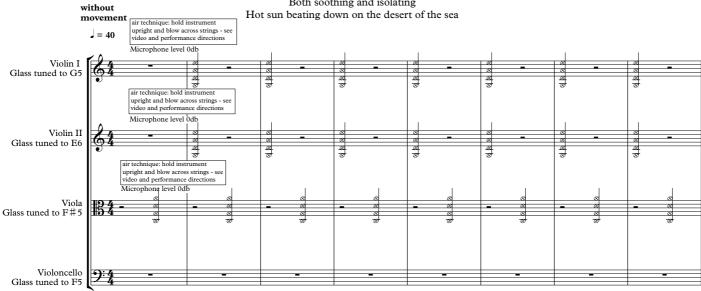
Draw the bow across the bridge:

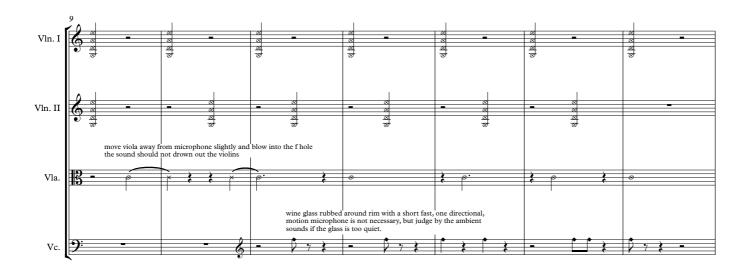
Tap the instrument (tapping either the front or the back is specified at set points, but this is the note head used):

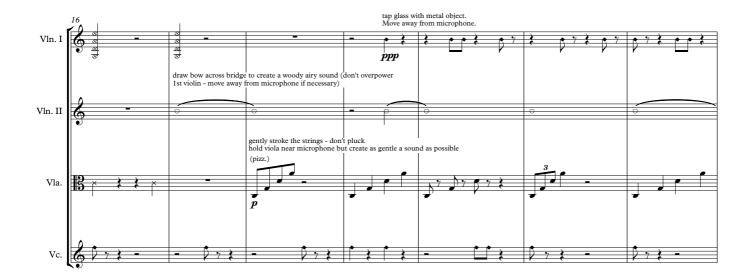
Elementa

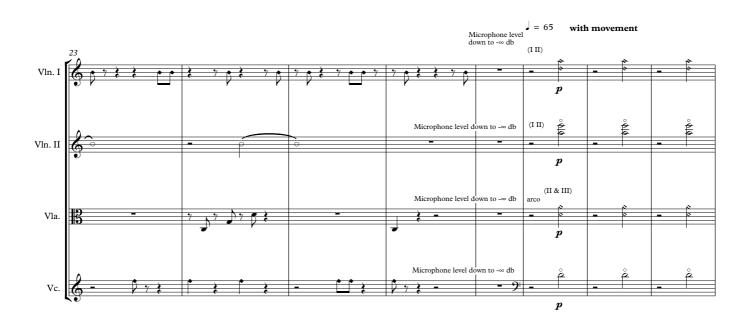
Aqua (Water)
"Far out at sea"
ca.5 minutes

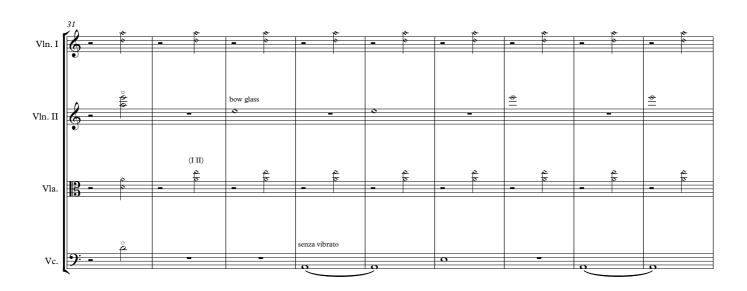
Endless horizon in every direction Light reflecting off gentle lapping waves Both soothing and isolating Hot sun beating down on the desert of the sea

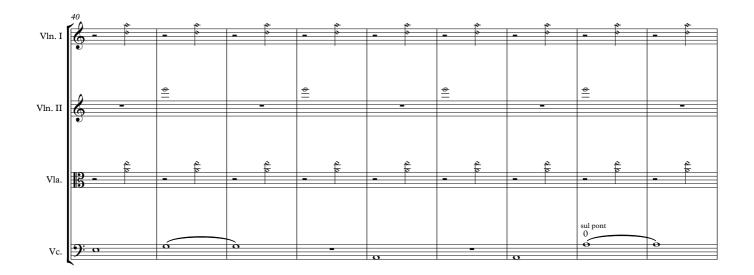


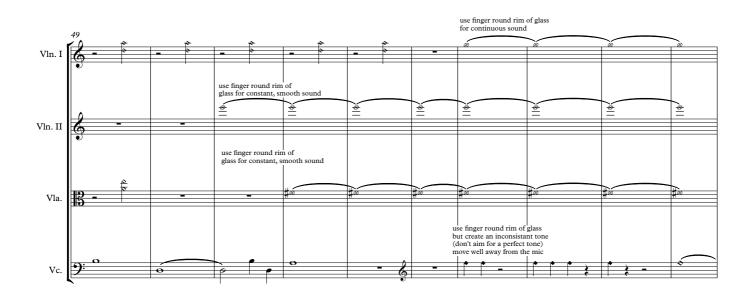


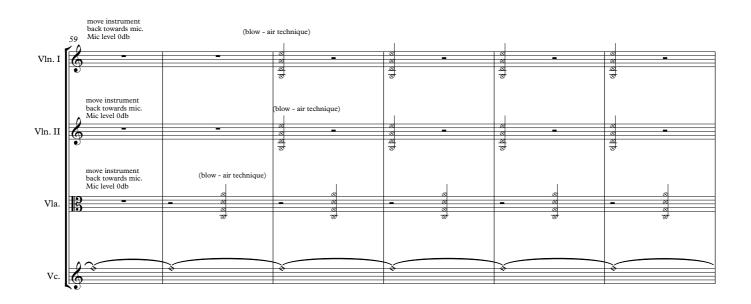


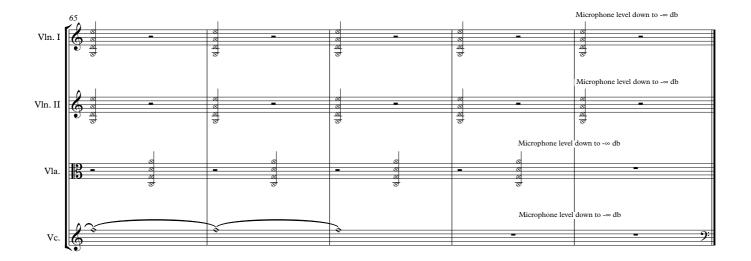












Tumultuous vomiting and spewing

Molten searing lava creeping unhurriedly and mercylessly forward

Suffocating black smoke infused with ash

Unrelenting and ferocious

The earth creating itself

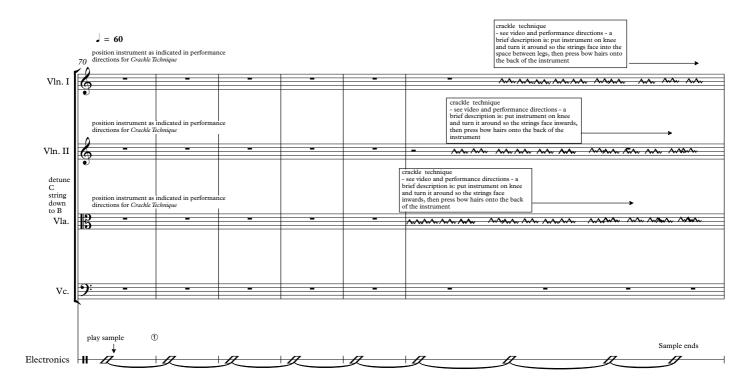


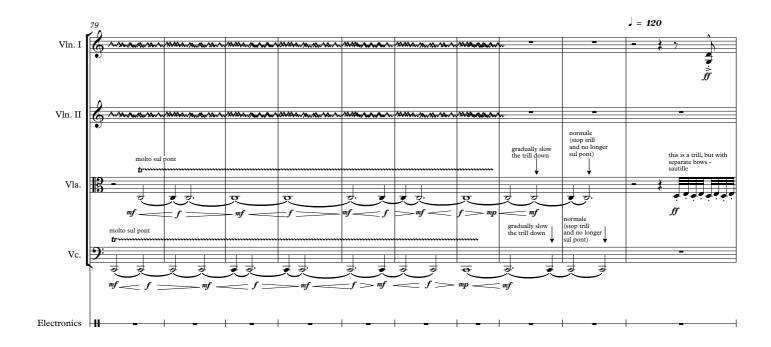
Painting and words by Katherine Betteridge

Ignis (Fire)

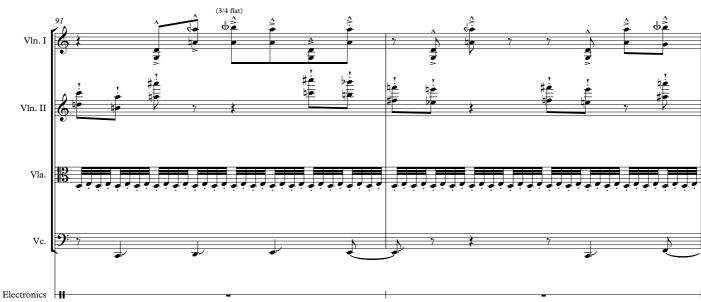
"Katla"

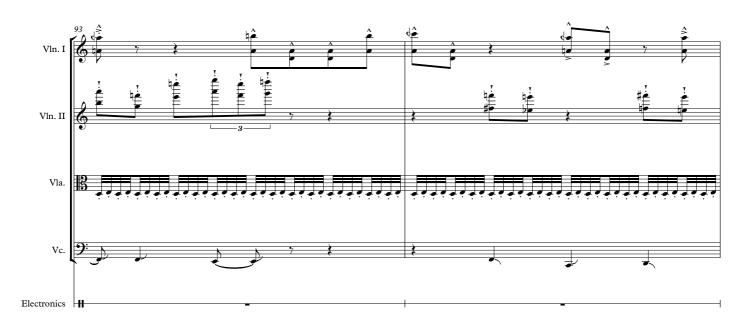
(One of the most ferocious volcanos in Iceland)
ca. 6 minutes

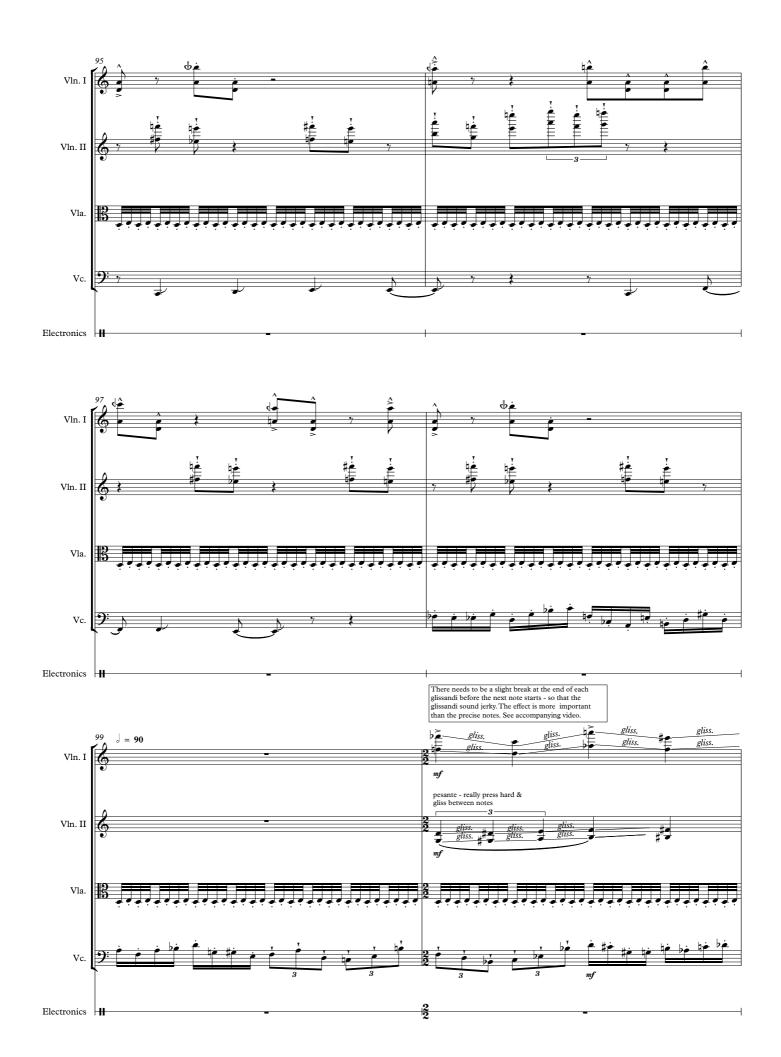


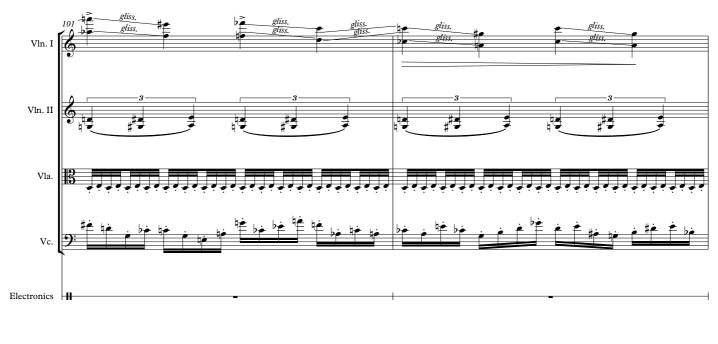




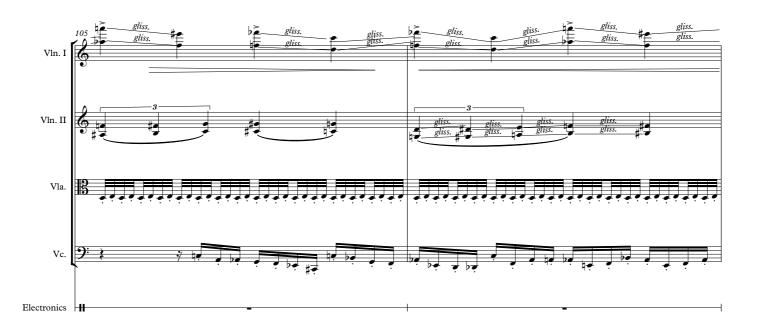


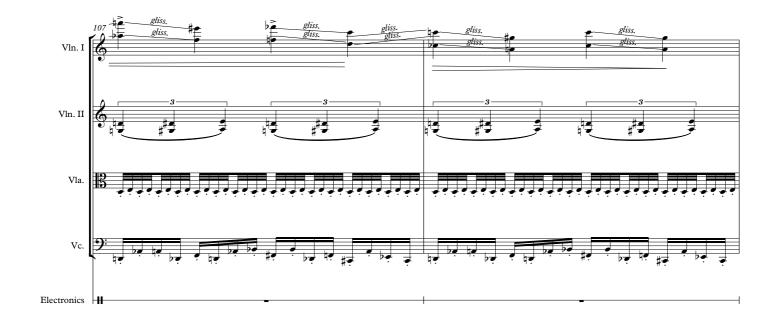


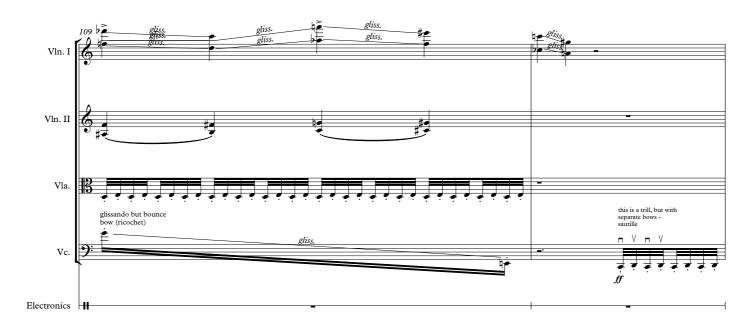


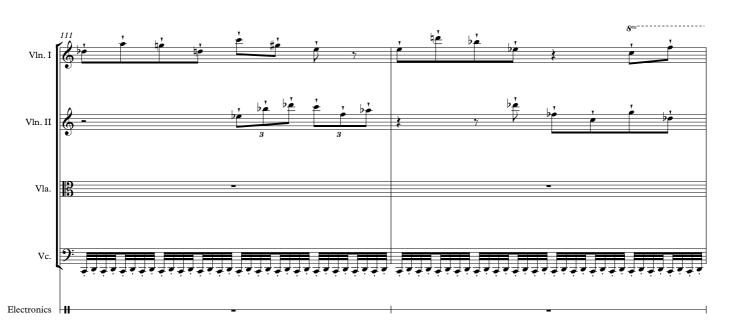


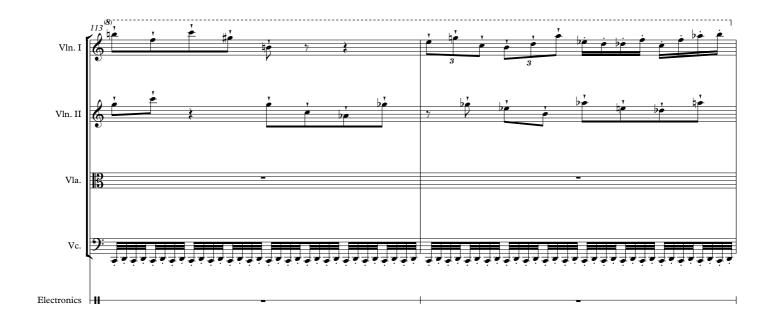


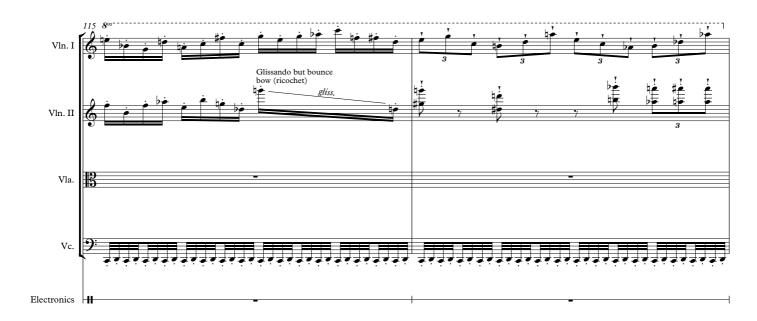


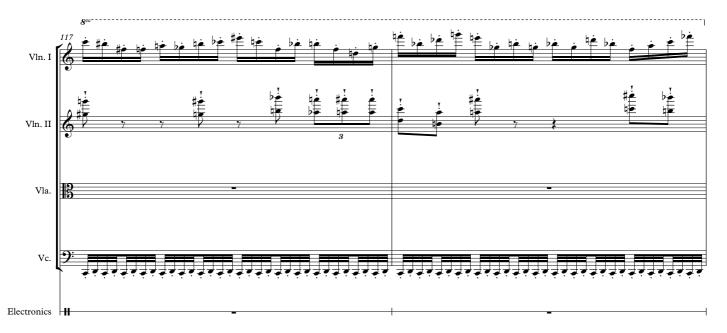


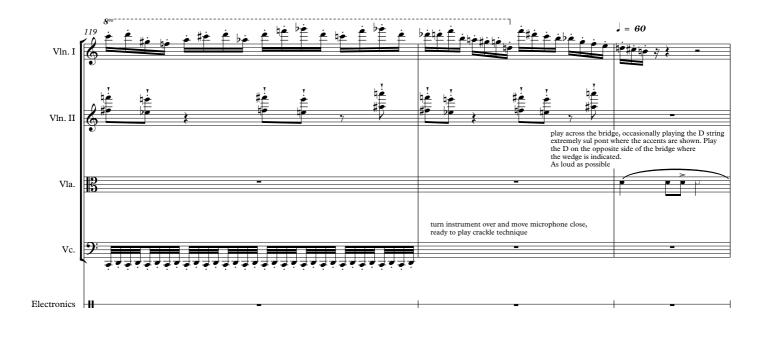


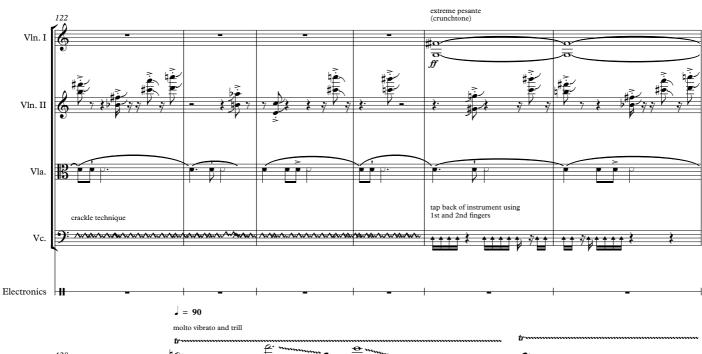




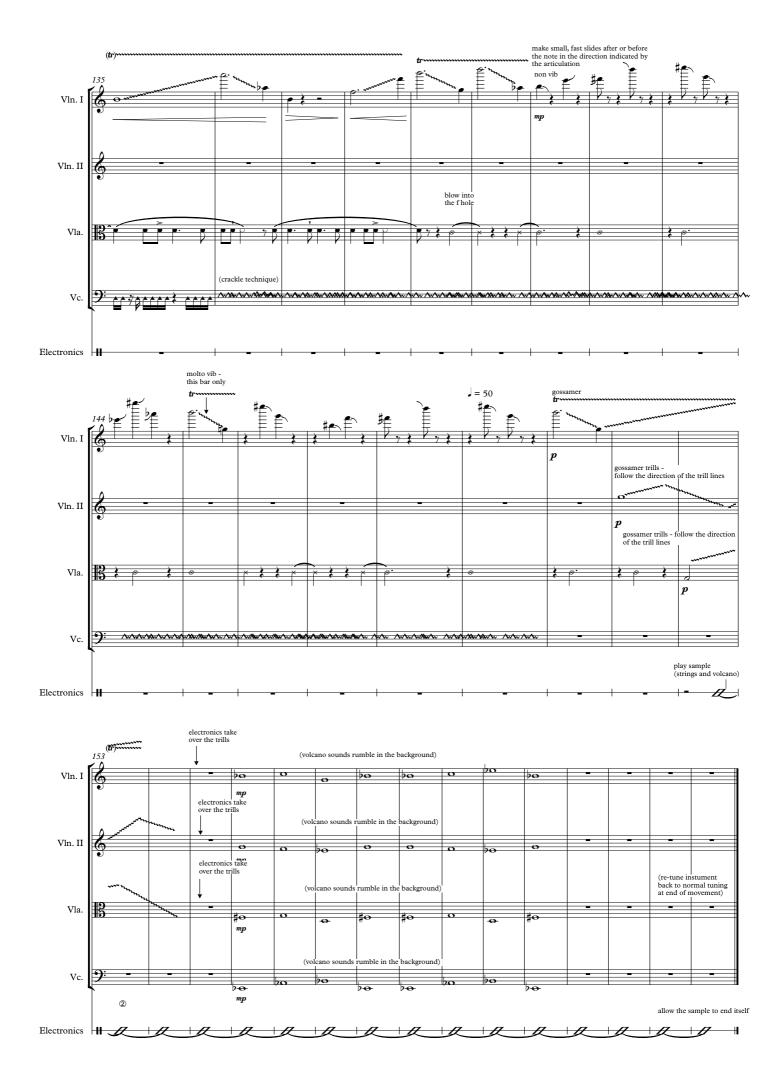








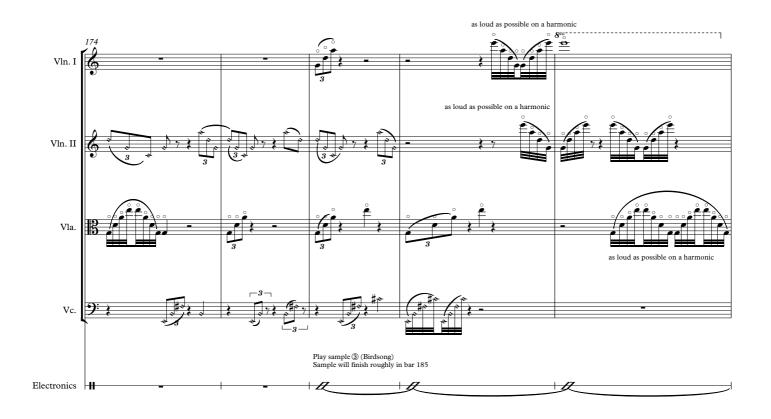




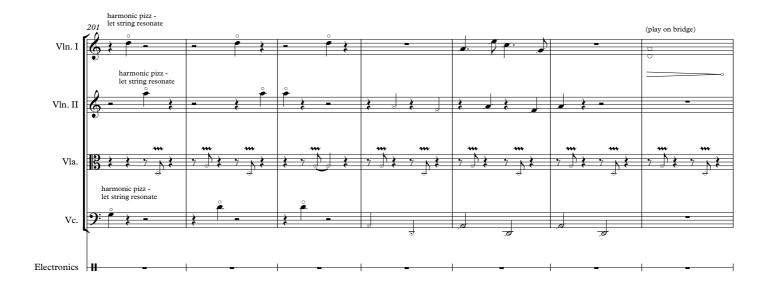
Terra (Earth) "The Forest" ca.4 minutes

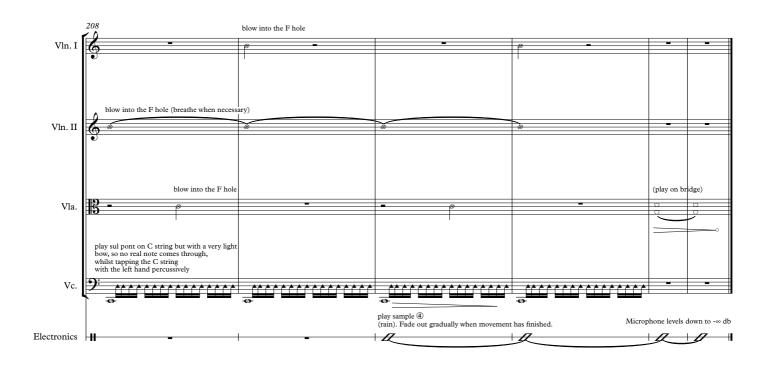
Trees creaking and moaning Birdsong and Insects calling from every direction Water tapping against leaves Wind rustling through branches









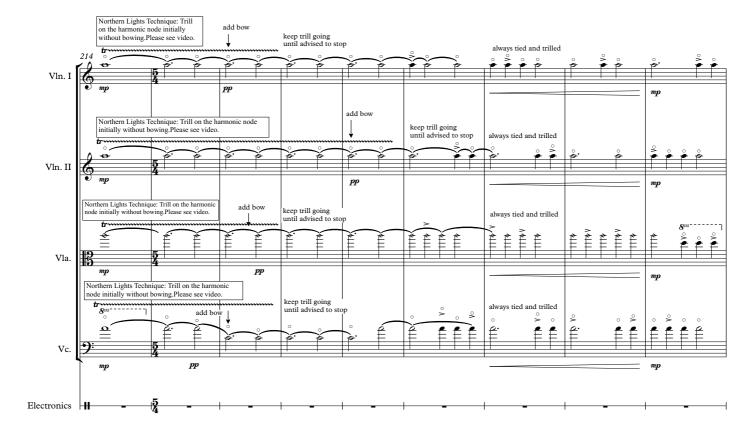


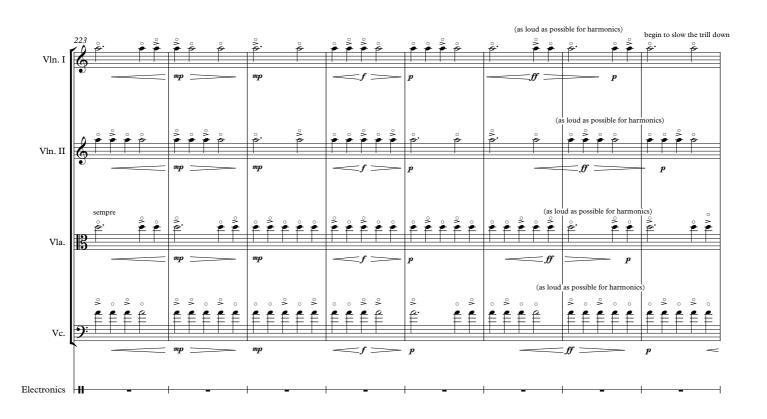
"The sight filled the northern sky; the immensity of it was scarcely conceivable. As if heaven itself, great curtains of delicate light hung and trembled. Pale green and rose-pink, and as transparent as the most fragile fabric, and at the bottom edge a profound fiery crimson like the fires of hell, they swung and shimmered loosely with more grace than the most skillful dancer."

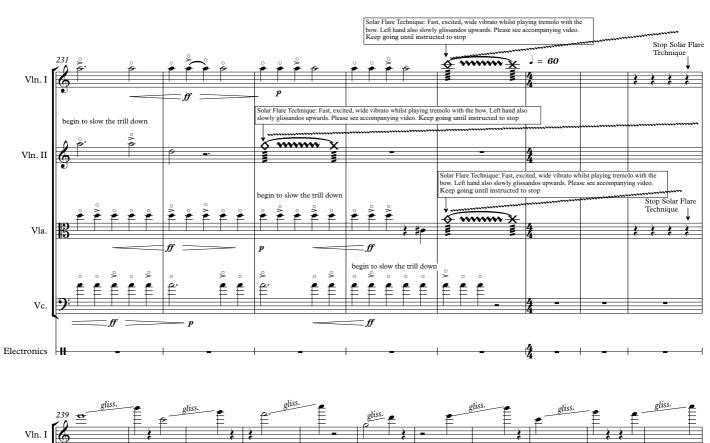
Philip Pullman, The Golden Compass



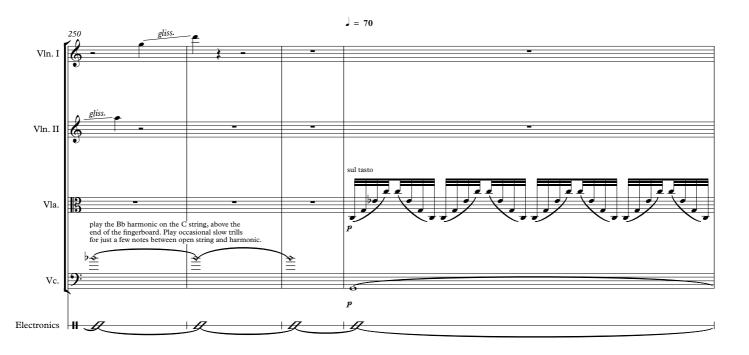
Painting by Katherine Betteridge

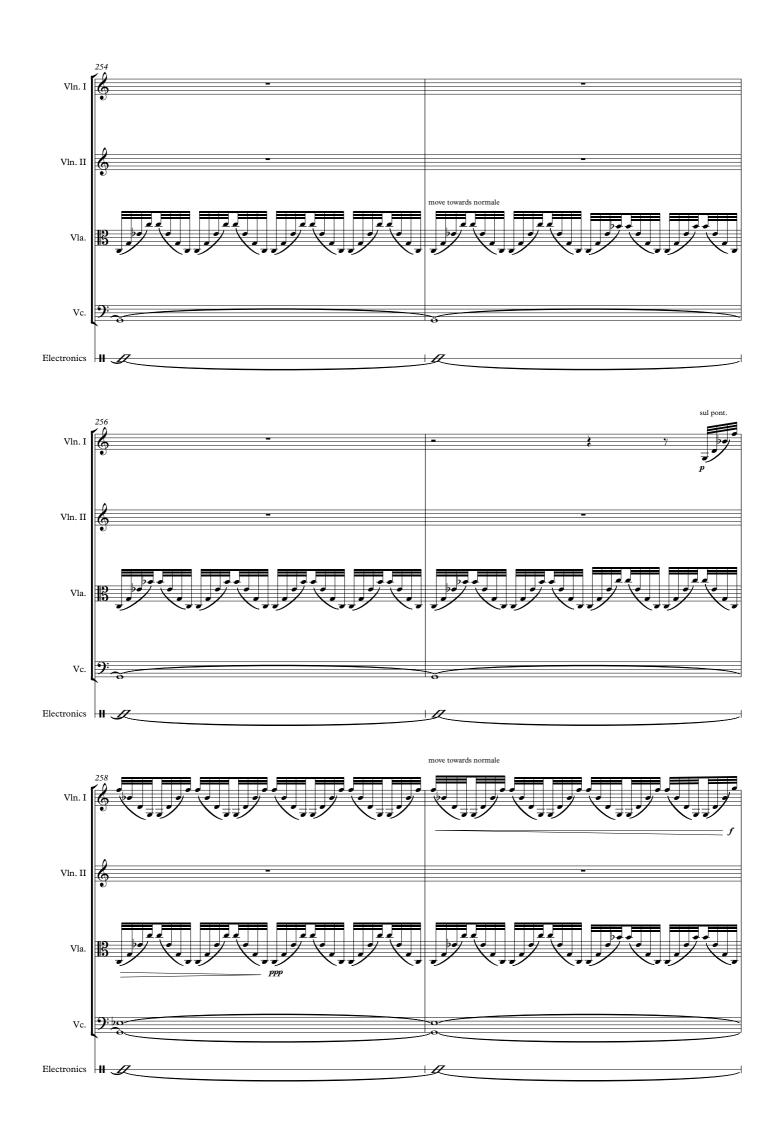


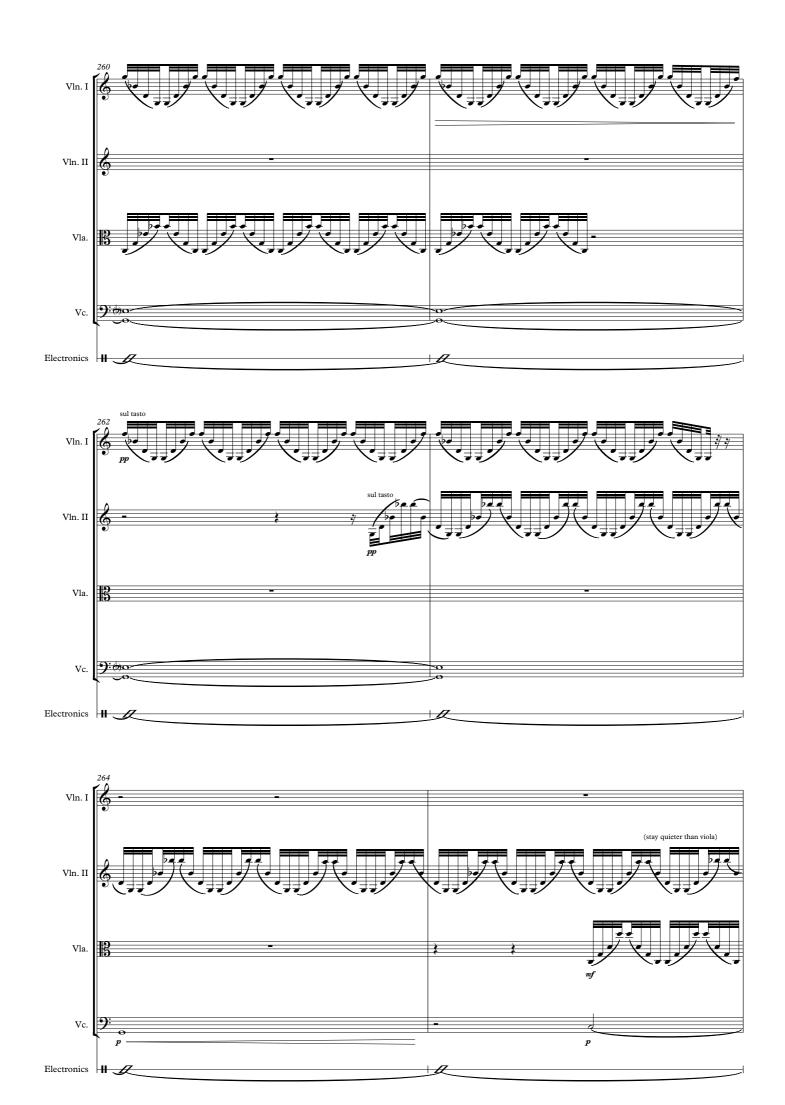


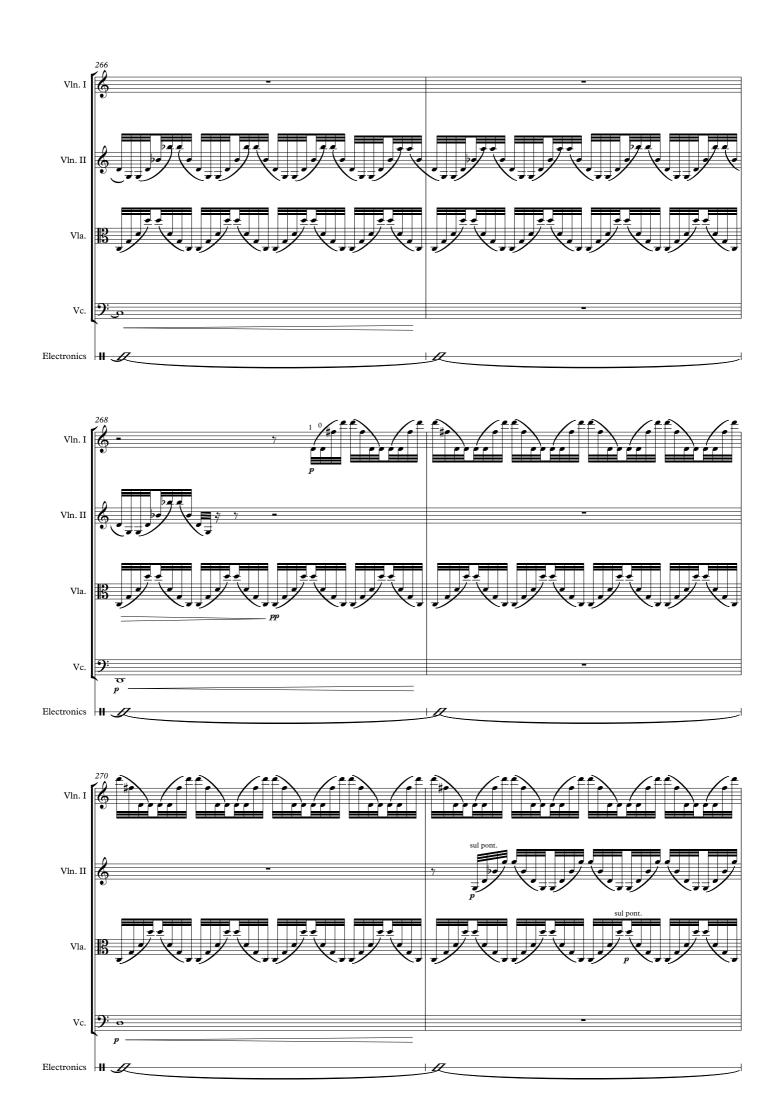


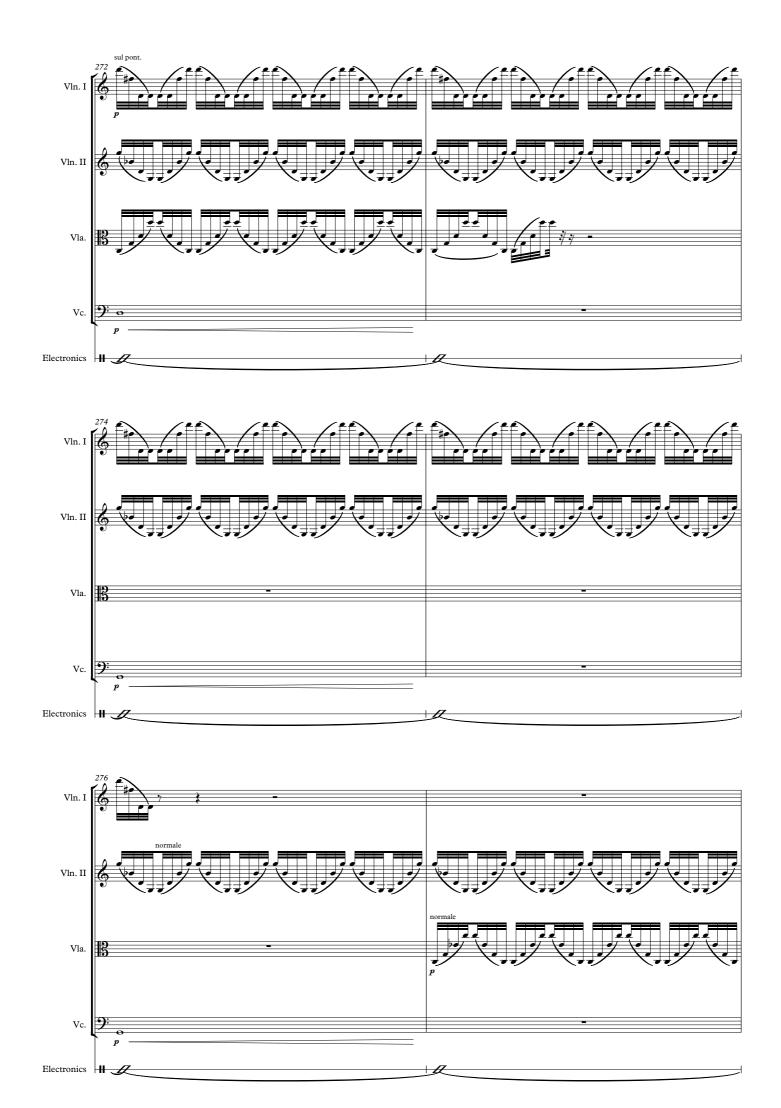


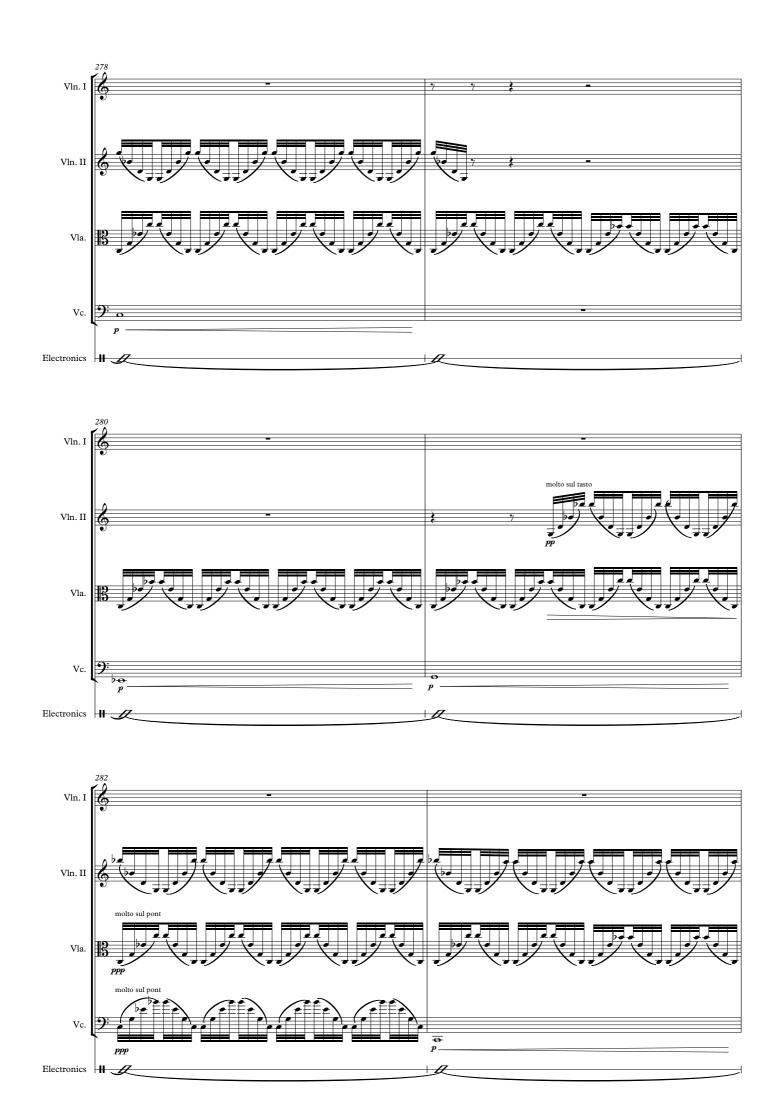


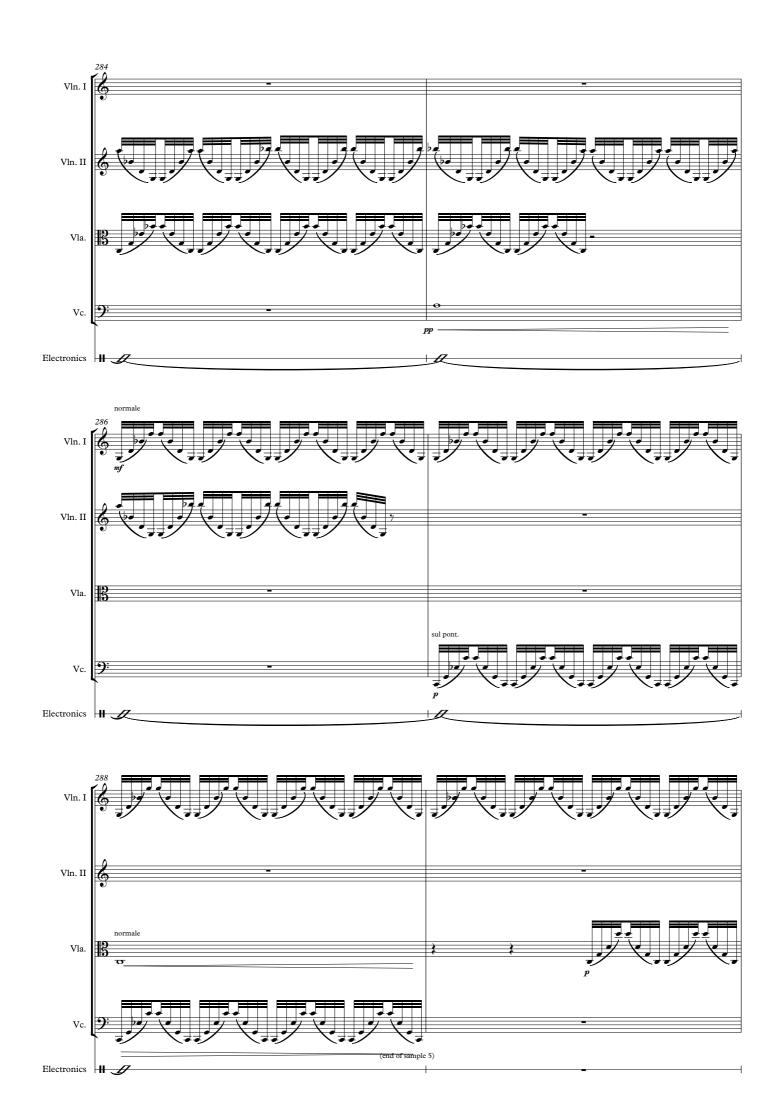


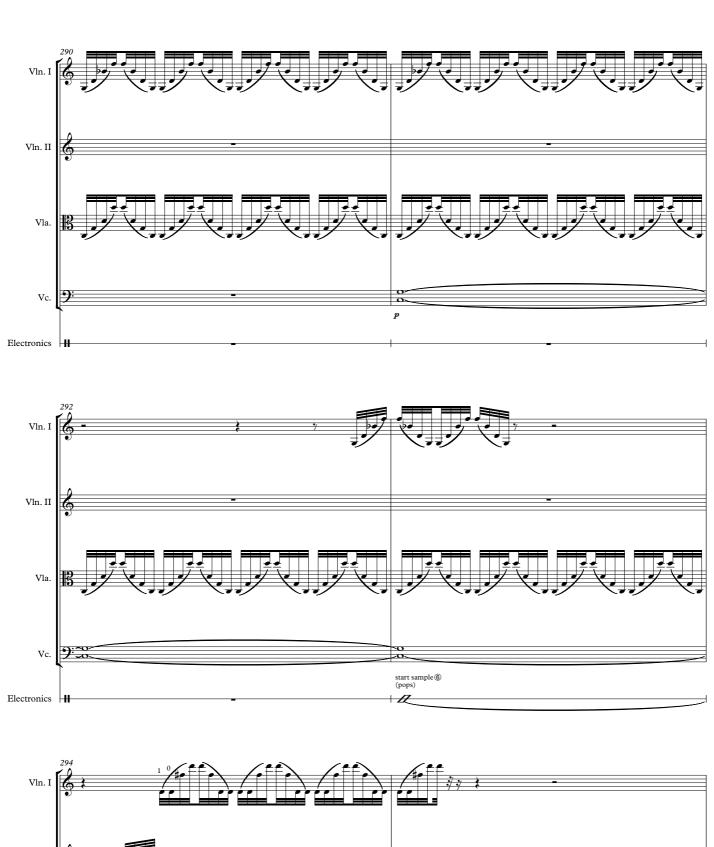


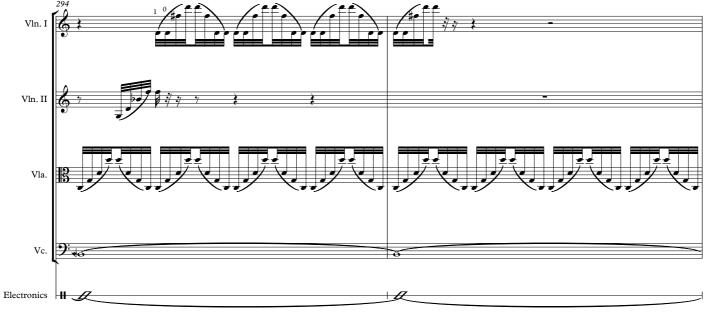


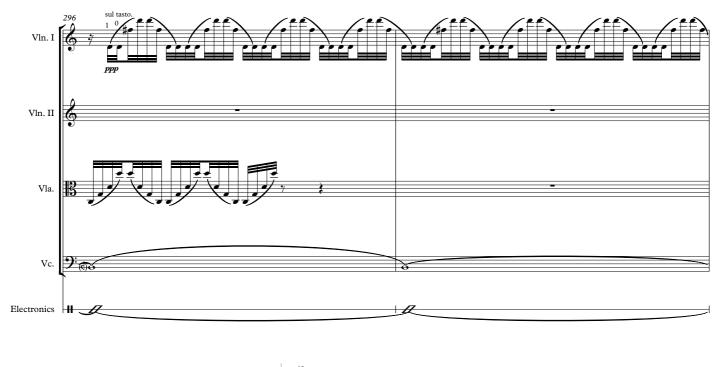




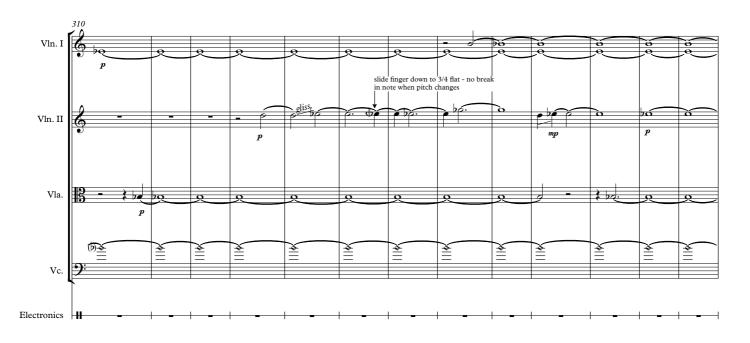


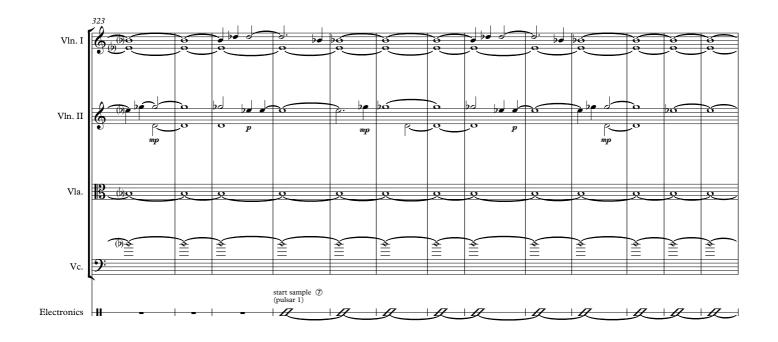


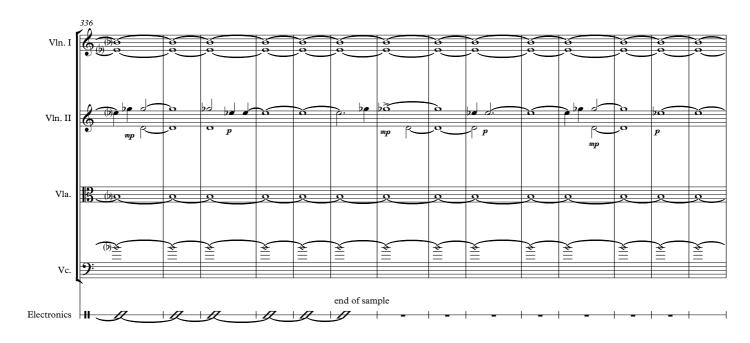


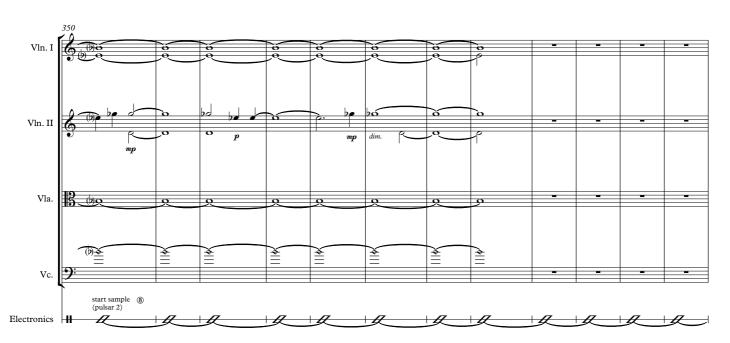














5. *Marie Laveau* (2017)

26 minutes long

Movements: Humidity

Ritual

The Bayou

Tempesta

5.1: Humidity

This movement attempts to convey the dense, humming humidity in Louisiana in summer. There is a dark menacing undertone that appears part way through played by the violas and the accordion sample. For me there is always a darkness lurking just beneath the surface. The percussive sound is the chain gang hammer sample and the female vocals that start at mm. 30 is 'Marie's theme'. This theme appears repeatedly throughout the whole composition. I wanted to include the sound of the accordion in the composition as it plays such a major role within Cajun music, but I could not find any other places beyond this movement where it seemed to fit, so I decided to include a short sample rather than have a musician play live for only a few bars in the first movement and then at no other point in the piece.

5.2: Ritual

The aspect of ceremony is very pronounced in this movement and takes the form of chanting, howling (suggesting altered states of reality and ecstasy), drumming, the pouring of water, and crackling fire sounds.

The movement starts with the ritualistic pouring of water, rattle snake samples, and voices emulating the water and snake sounds. The acoustic and electronic sounds overlap throughout, representing two things simultaneously, such as the snake and water sounds. These mixed sounds are emitted from both electronics and live vocals, blurring boundaries between the original sources of sounds and the way they are expressed. Another example are the shakers mm. 62 and 65. These are representative of the rattle snake's tail, but also the shaker itself is an instrument which might be used in a ritual.

The words spoken are passages from the Lord's Prayer, spoken in French Louisiana Creole alongside the names of Voodoo gods and goddesses. I have combined these as Catholicism and Voodoo have become closely intertwined in many places, and especially in Louisiana. The voices are often doubled by the strings and later doubled by the bongos. The manic vocal sounds are intended to represent altered or ecstatic states of consciousness and in the background are animal and bird sounds.

When I was walking near a waterfall in North Wales during strong winds and rain, I passed underneath the wires running between two pylons and was suddenly able to hear a multitude of multi-tonal microtonal notes. I loved this effect and have tried to recreate it throughout the piece with voices or strings. Mm. 122 is an example of this in the vocal parts. This is a theme which again suggests something hidden beneath the surface. I feel that it represents something unnerving and darkly magical, like the voice of the spirit of the land, reminding us of its continual living presence, watching us and remembering. This musical theme is developed until the end of the movement. "Crackle technique" was used initially in an attempt to emulate the sounds of a fire. But the sound also suggests to me of reality breaking or splitting apart, and of something taking place behind the scenes beyond our control in an alternative reality but one that nevertheless affects this reality. Again the chain gang hammers permeate the music, as if the land remembers the dark history of slavery in the area and is telling us not to forget.

5.3: The Bayou

I have tried to evoke the atmosphere of a swamp by recreating animal sounds, between mm. 203 - 230, with strings imitating frogs, insects and birds, all occupying slightly different registers (as they do in reality). It is at mm. 242 that the first proper encounter with an alligator takes place, with prehistoric sounding snarls, grunts and growls. The recording is to be diffused around the speakers to give the impression of the creature being actually inside the room.

I have made use of mobiles in this movement to try to prevent the players from falling into patterns and rhythms with each other, and for instead each instrument to sing its own autonomous insect-like, frog-like or bird-like song. This autonomy is aided by

the use of the max patch called "swamp" which electronically randomizes the sounds created by second cello and double bass, and will help eliminate the natural habit of musically trained players falling into synch with each other. The fact that cello and bass are electronically forced to play against one another should help the other players also stay out of synch. Each player is instructed, moreover, to use a metronome application on their phone (either on a silent setting or used with earphones) as each player's mobile (musical boxed mobile) is set to completely unrelated speeds to anyone else's. The clashing string chords that keep appearing at intervals from mm. 244 represent swarms of insects.

As the alligator and animal sounds fade away at 263, Marie's warm theme reappears, followed by the gradual emergence of the chain gang sounds, this time revealing the sound of the full song. It was not possible to include actual slave music as the first ethno-musicological recordings were made after slavery was abolished. My aim was to take the listener on a boat down the river, encountering all the animals and reptiles on the way and passing slaves working in the fields. The song fades out and begins to distort as if the boat is moving away from the singers and as if the singers are also moving into the past, but the hammers stay loud and get louder, as if to suggest that history may well be in the past but the echoes of it are still imprinted on the present. The microtonal chords reappear, also reminding us that the land retains elements of the past.

5.4: Tempesta

This movement aims to create an atmosphere of spirits, magic, and dark mystical forces at the onset of a storm, as if the storm itself has been summoned by the women in the choir and is thundering in reply to them. There are women's voices, whisperings and hummings in and amongst the sounds of wind and rain, both in the electronics and also scored for the live performers. It was my intention to make it difficult for the audience to discern whether what they hear are voices, strings, or wind and whether the sounds are live or coming from the electronics. I intended everything to be intertwined and indistinguishable in order to evoke a feeling of spirits, humans and nature closely intertwined, if not, inseparably linked. Within mm.

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 $^{^{7}}$ Created kindly by Chiron Farrimond, a fellow music student in the department at the time.

334 (around the 20 minute mark in the recording) I wanted to give the impression of spirits "whisping" across the room. In the recording at this point are whispers and words from the Lord's Prayer spoken backwards (possibly an influence from having listened to extremely heavy metal as a teenager and discovering satanic messages hidden in songs, only audible when the record was played backwards!).

In this movement, sound is used *literally* at points by both singers and strings. The singers make breathing sounds as the wind starts to pick up at the beginning of the storm (mm. 314), and the string players use their breath on the strings of their instruments in mm. 312, creating a shimmering effect. All of these are literal human versions of the wind. Towards the end, (from 383 onwards) authentic animal recordings can be heard. These sounds come through different speakers, intending to give the impression of the audience being surrounded by creatures. And at the very end of the movement, from mm. 388 onwards, the strings emulate rain, with the "raindrop technique" section, although this may be both suggestive and literal at one and the same time. "Raindrop technique" is a technique I developed which involves creating chords with the left hand whilst pressing the fingertips of the right hand down onto the strings so that when the finger is removed the string gently rebounds with a very gentle twang. With many string instruments doing this simultaneously, whilst shifting through chord progressions at slightly different intervals, I intended to evoke the atmosphere of rain falling with varying degrees of intensity. Over the top of this passage, recordings of real frogs, reptiles, birds and insects are played through the electronics, as are the sounds of a real storm. The harmonics played on first violin at the end are imitations of the call of creatures. At the very end of the piece, the strings are intended to create the sound or even to evoke the feel of rain, as a rainstorm finishes, with the droplets falling at a slower rate until they eventually stop.

The sounds used within the electronics of the piece have come from a variety of sources. The storm, bird, insect, frog, snake and some of the alligator sounds either came from loops in Garageband or from the freesound websites in the footnote⁸.

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⁸ Freesound. n.d. [Online]. https://freesound.org/ Accessed 2015 freetousesounds. 2019. [Online]. https://freetousesounds.com Accessed 2015 soundideas. 2019. [Online]. https://www.sound-ideas.com/Default.aspx Accessed 2015

Other alligator sounds came from a youtube channel⁹. The Chain gang song is called *Hammer Ring*. It took some time to find a copyright-free piece of chain gang music, but with the help of someone from the PRS I managed to find this song. The song a.k.a. the work, has no copyright, and the recording is out of copyright.

In the recording located in Folder 2, all parts are performed by and recorded in a studio by myself.

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⁹ https://www.youtube.com/watch?v=Jkh3sknNnkI&t=63s - (Creative Commons Attribution License – re-use allowed). Sound created by Aleksa Mrkela

Katherine Betteridge

Marie Lavaeu

For

Strings,
8-Part Female Voice Choir,
Percussion &
Electronics

Duration: ca. 26 Minutes

All instruments are notated at sounding pitch

Programme note

This piece was initially inspired by the discovery of the Creole voodoo priestess, Marie Laveau, who lived and practiced in and around New Orleans, Louisiana in the late 18th and early 19th Centuries. It is thought that she was a free black woman – unusual for a black woman at that time – and an extremely powerful healer. It is said that thousands of people would come to watch her perform legendary magical ceremonies. In addition to my interest in Laveau herself, I am also intrigued by the area in which she lived particularly the swamps. Swamps seem to be incredibly magical and otherworldly places, teeming with animal and plant life, fascinating sounds and mystery. The frogs, birds, insects and alligators fill the air with sound 24 hours a day and I imagine the atmosphere to hum in a timeless reality during the humid summer months. I am also fascinated by the cultural diversity in New Orleans and the mixture of languages, religions and musics. It seems like a melting pot of humanity.

The composition itself includes recordings of the sounds of animals in the Louisiana swamps, such as the prehistoric rumbling growls of alligators, alongside the sounds of natural phenomena such as storms. There are some early chain gang recordings, intended to be as close a reminder as possible of the slavery from Laveau's period in history. The percussive sound of the chain gang hammers striking the ground occur throughout the entire composition.

This is a composition in four parts:

Part 1: Humidity

Instrumentation: Strings, 8-Part Female Voice Choir, Percussion & Electronics

Duration: ca. 4 minutes

Part 2: Ritual

Instrumentation: Strings, 8-Part Female Voice Choir, Percussion & Electronics

Duration: ca. 9 minutes

Part 3: The Bayou

Instrumentation: Strings, 8-Part Female Voice Choir, Percussion & Electronics

Duration: ca. 6 minutes

Part 4: Tempesta

Instrumentation: Strings, 8-Part Female Voice Choir, Percussion & Electronics

Duration: ca. 7.5 minutes

Performance Directions

Amplification and Electronics

Two engineers will be needed, one per set up. Both set ups are shown on the room layout on page 6. Each engineer requires their own laptop, audio interface and mixing desk in order to be able to have separate control of diffusion for the speaker requirements in the score.

Engineer 1 connects their interface to the speakers coloured in blue in the diagram. <u>Letters</u> are used to indicate specific speakers. Engineer 1 will

also need to be able to run Max MSP. Engineer 2 connects their interface to the red ones. <u>Numbers</u> are used here instead to differentiate the two set ups.

Each engineer has their own stave on the score. If no specific speakers are indicated, leave the diffusion settings to the same setting as the previous sample required. If the instructions are not in a coloured box, then there is nothing to do at that point – the instructions are there at that point purely to clarify what should be happening in the sample.

AS stands for All Speakers – meaning, to have the sample coming equally through all the speakers available to the individual engineer.

If AS is not written, there will be numbers or letters indicated (depending on whether it is engineer 1 or 2) in the coloured boxes on the score.

This refers to the speakers that the sound needs to be diffused to.

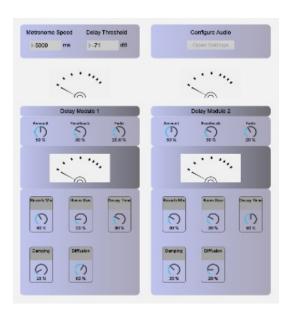
Strings need to be amplified with slight reverb. Two microphones above the strings will be enough.

Singers need to be amplified with slight reverb. Two microphones above the singers will be enough.

The Max MSP patch called Swamp used in part 3 (the Bayou) will need to be on Engineer 1's computer. Double Click on Marie Laveau - Swamp.maxpat once Max has been installed.

In Part 3,Vlc 2 and Db need to be rigged up to their own individual microphones (preferably contact mics) and connected to individual versions of Swamp.

Patch settings are shown in the diagram below:



Percussion

1 Timpanist - Timpani tuned to A

1 Percussionist:

Wind chimes Broad Cymbal Concert Bass Drum Tam Tam

The large different percussion instruments will be placed in different parts of the room, each with their own light which will only come on when

the instrument is in use.

2 different sized Bongos

Also,

Shaker (give to 1st Violin)
Rain stick (give to 1st Alto)

Wooden block (give to 2nd Soprano)

Singers

Props

A table with a plain either black or white table cloth with three large glass jugs filled with water and three empty glass bowls, each being

big enough to hold all the volume of the water from one jug.

- The voices all need to be female, but there will need to be three singers with low enough voices to sing tenor.
- The singers will need to be prepared to move physically about throughout the performance.
- The singers will need to be comfortable acting and making unconventional sounds.
- · Need to wear white clothing

Part 2.

2nd Soprano will need a wooden block 1st Alto will need a rain stick

Beginning: Sopranos 1, 2 and 3 slowly walk towards the table on which stand three jugs and bowls. Stand in this order left to right: Sop 3, Sop 2, Sop 1

Soprano one, slowly start to pour water from the jug into the bowl. When soprano 1 is almost finished, soprano 2, begin to do the same. Same for soprano 3 (once sop 2 is almost finished).

*see notes explanation:

If the notes are too low or too high in places like the recurring theme which is first heard at bar 143, liaise with the other singers to all sing roughly in the range indicated but with only microtonal intervals between voices.

Always keep the sound as dissonant as possible with small intervals between notes where marked to do so. Breathe as and when necessary but make sure breathing is as staggered as possible between one another to ensure continuity of sound.

Conductor

You may find it helpful to have two metronomic devices as the timinigs need to be specific in order to co-ordinate with the electronics and jumping from one speed to another would be easier with the second metronome already set, so an immediate and accurate switch is possible.

In part 2, start beating as soon as the first singer starts pouring the water

In part 3, please conduct in crotchet = 60

Part 3, The Bayou, involves everyone working autonomously, with intermittent moments of coming in or off together. I have created a line for you to follow to bring people off and on, irrespective of where they are in their score. Due to every instrument playing at a different metronome speed, it will be necessary to bring people in at many of their entries in this movement (as they wont be able to concentrate on two metronome speeds at once).

Strings

The double Bass needs to be a 5 string bass

Part 1

Strings do not need to be amplified for Part 1.

Part 2

All strings need to be amplified for Part 2

Violin 1 will need a shaker

Bar 136: Crackle Technique See video

This involves turning the instrument over and pressing the hairs of the bow onto the back of the instrument. Press hard enough that the wood of the bow *pops* across each hair it comes into contact with. This will not damage the instrument.

Part 3

Vlc 2 and Db need to be rigged up to their own individual microphones (preferably contact mics) which are individually connected to the max patch called *Swamp*.

Every string player will need to download a metronome app onto their phone if they do not already have one.

It needs to be set to a silent setting.

If the silent setting is too difficult to follow as it will be going against everyone else, then the use of earphones plugged into the phone might be helpful. The idea with the first part of this movement is a swamp full of animals.

The animals/birds/reptiles/insects should sound totally a-rhythmical and not at all related to one another

(hence everyone being in different metronome speeds). The timing does not need to be rigidly adhered to – it is just to help make the instruments sound like they are imitating animals (each instrument is imitating a specific real actual animal call in this section).

Please play in a free, non-rigid, loose way – this is important for the feel of the movement.

The conductor will keep things together and bring individuals or everyone on or off when necessary.

This section is intended to give the impression of animals in a swamp – birds, reptiles and insects, all singing their autonomous songs, but with occasional moments of coming together and joining in silence.

The max patch called *swamp* provides varying and randomized degrees of delay – evoking a feeling of echoes in the forest and an autonomous cacophony.

Part 4

Bar 312: Air Technique

See vide

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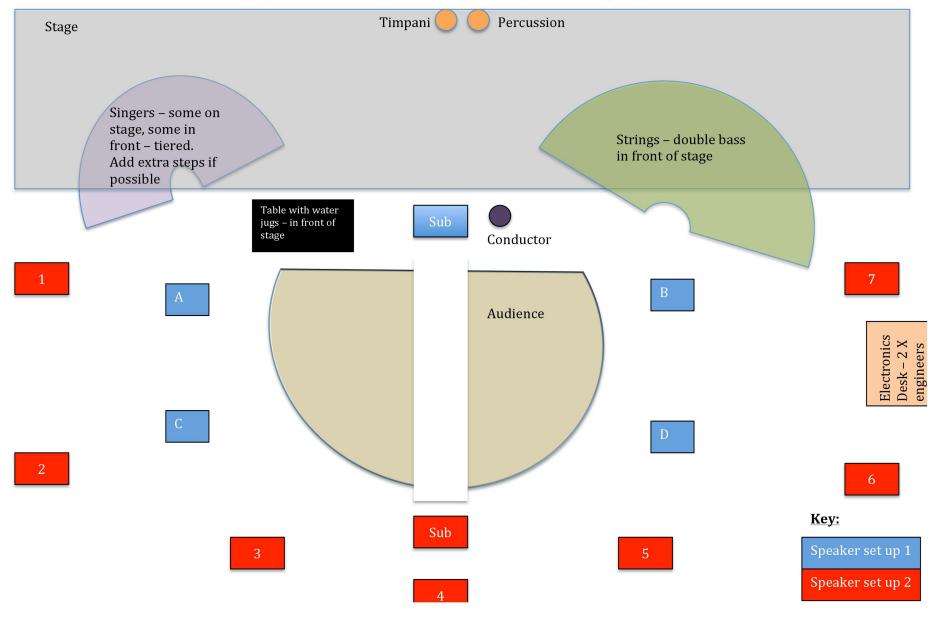
This involves holding the section of instrument between the fingerboard and bridge on the Violin or Viola as near to the microphone as possible – holding it upside down might be easiest as the microphone will be overhead – and blowing horizontally across the strings in the area where you play in 1st position. A slight shimmering sound from the open strings can be heard if you hold it at a certain angle.

Bar 387 onwards: Raindrop Technique

See video

Create the chord with left hand, and with right hand <u>use</u> several fingers to just apply pressure to both strings and then release in order to create the sound. The sound is created from the *unsticking* of the fingers as they come away from the string. Do this with very fast repeated notes, swapping between the notes in the chord randomly (the same sound will be happening in the electronics as well).

Layout of Strings, Voices, Speakers and Room (Dependent on the shape and size of the room, but use as a guide)

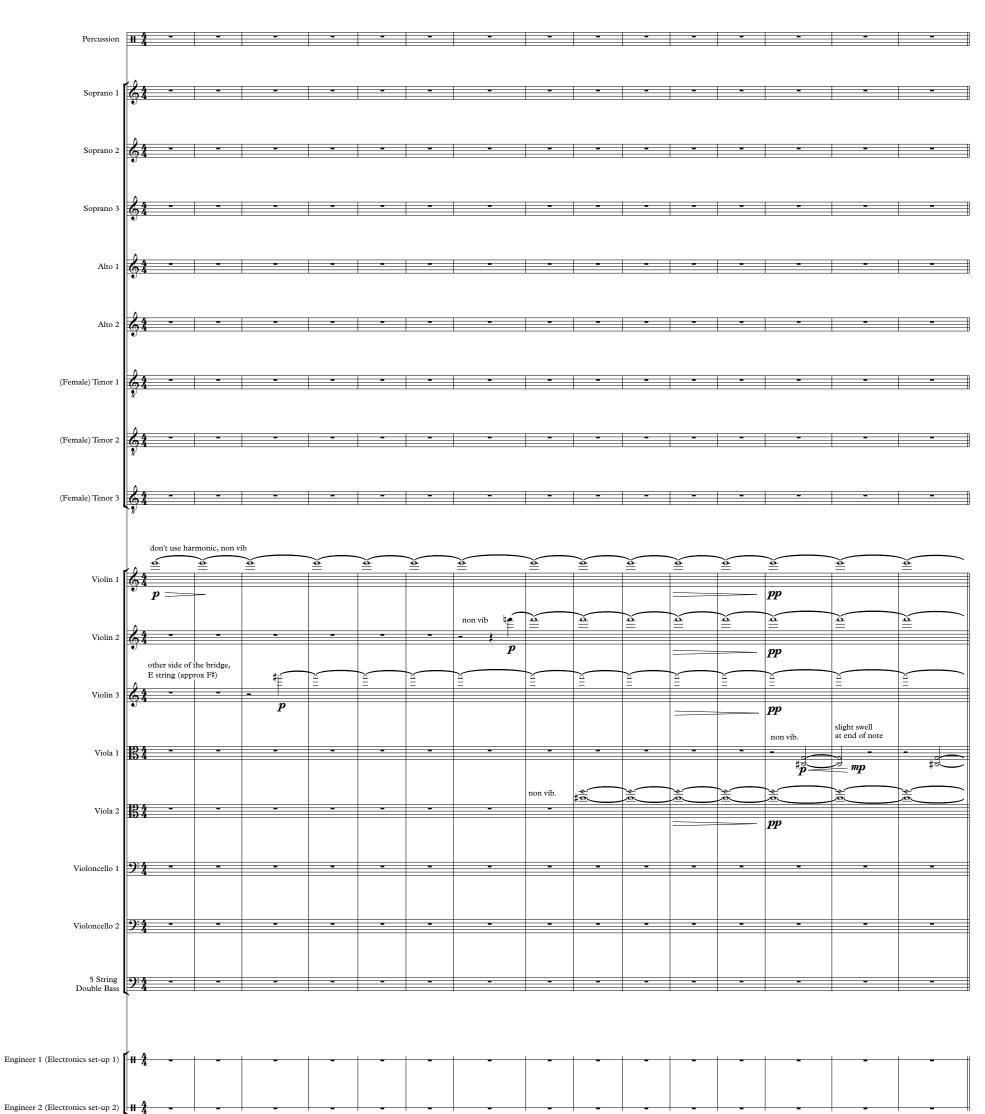


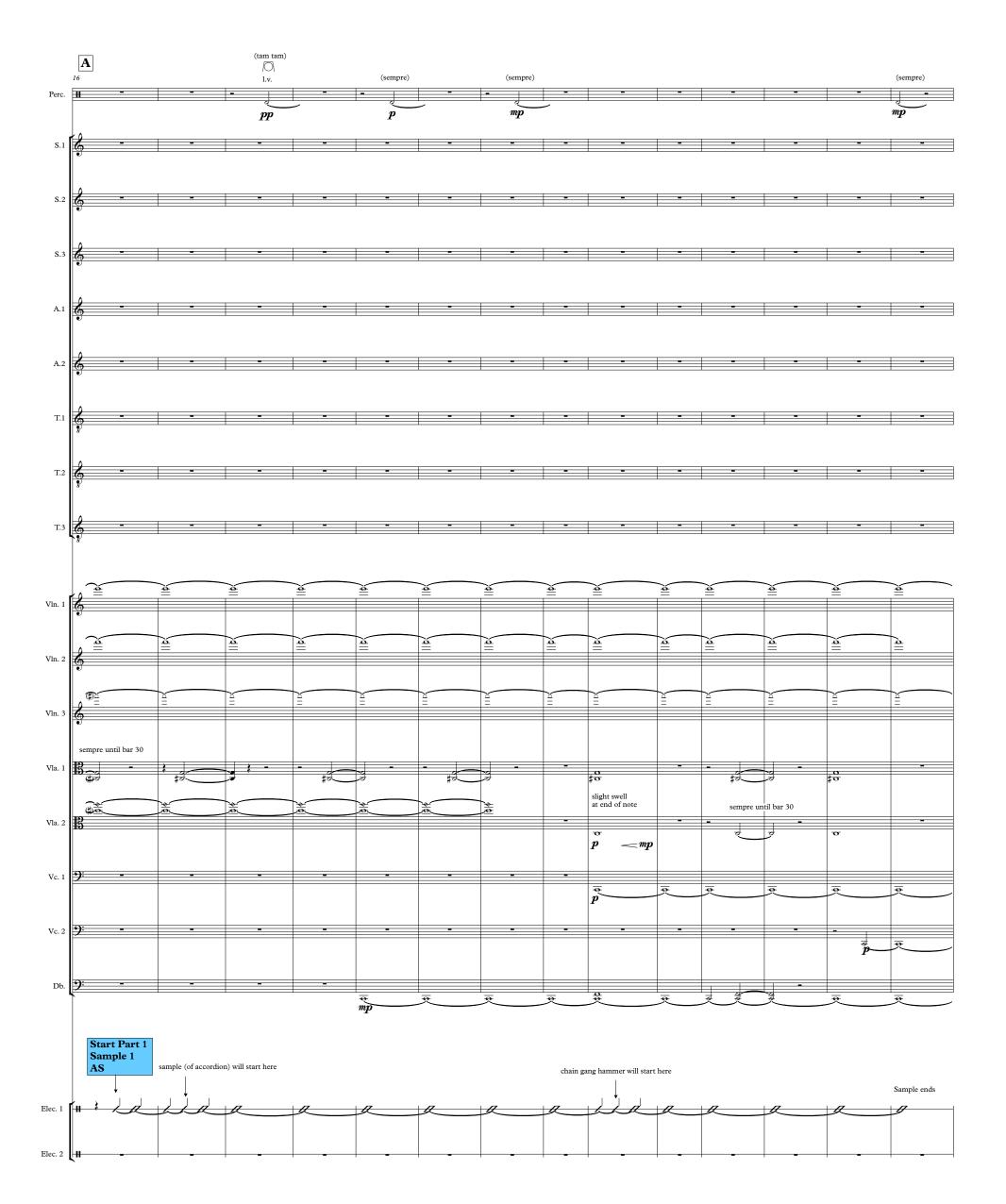
Part 1: Humidity

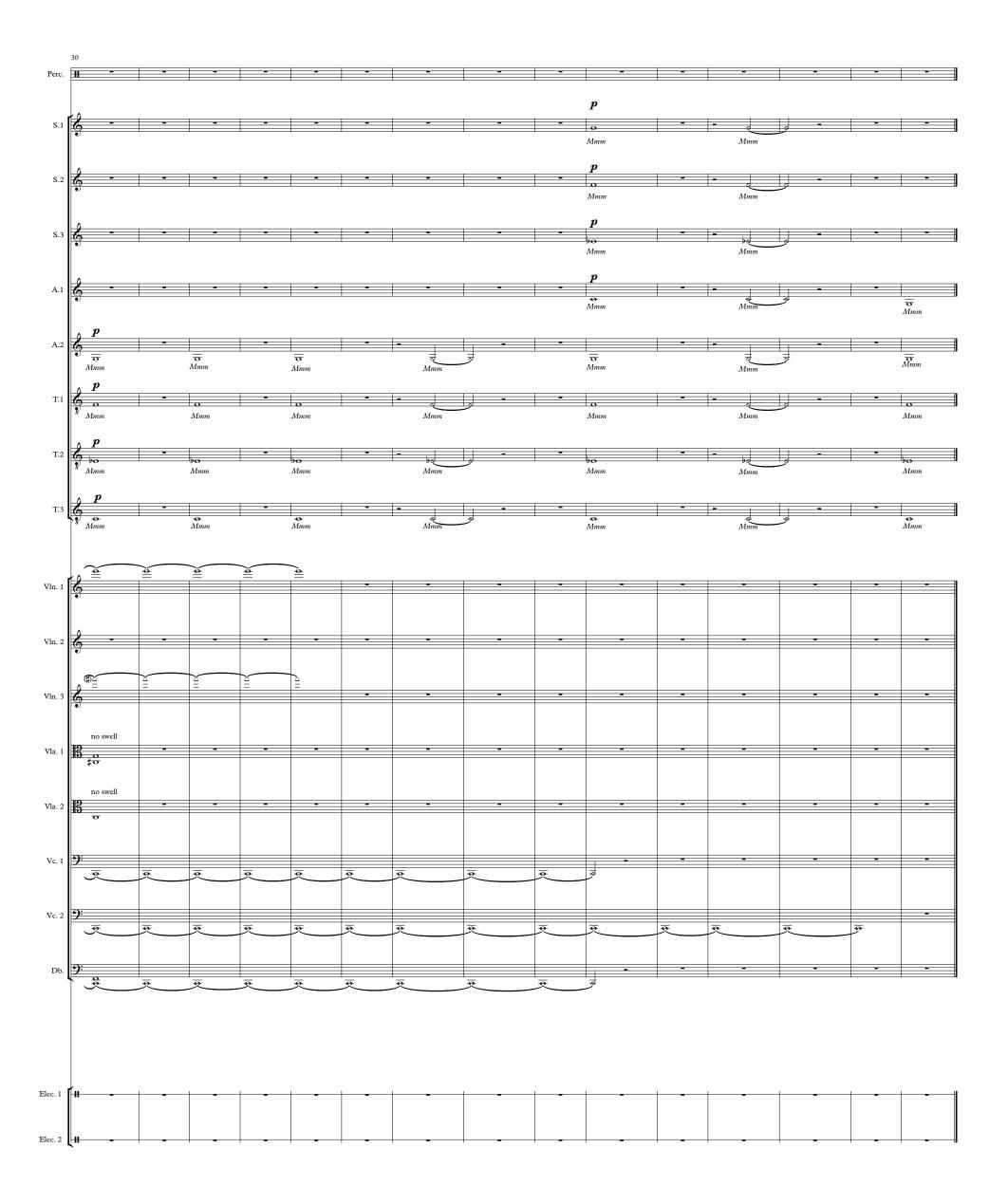
Instrumentation: Strings, 8-Part Female Voice Choir, Percussion & Electronics Duration: ca. 4 minutes

J = 50

Part 1: Humidity

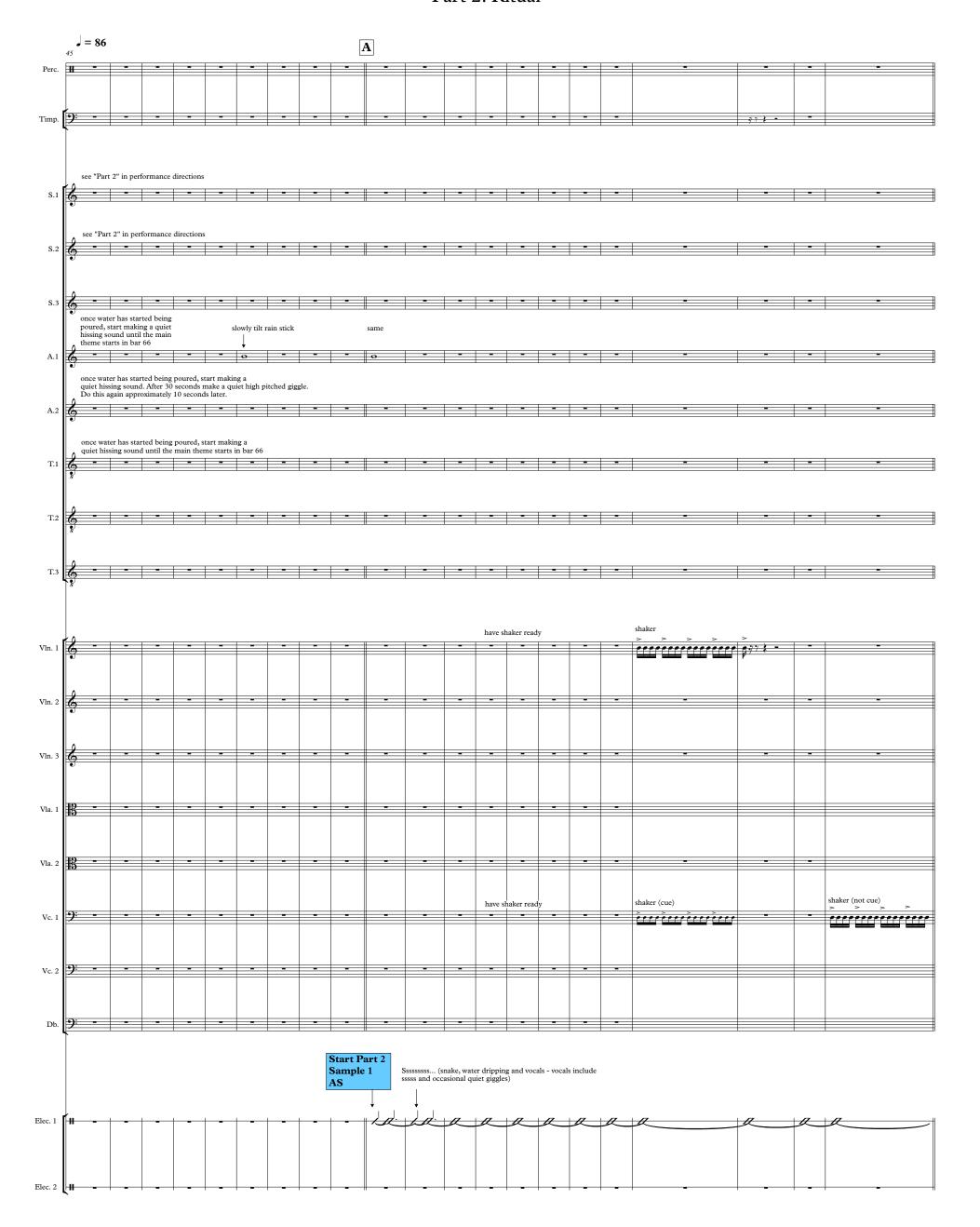


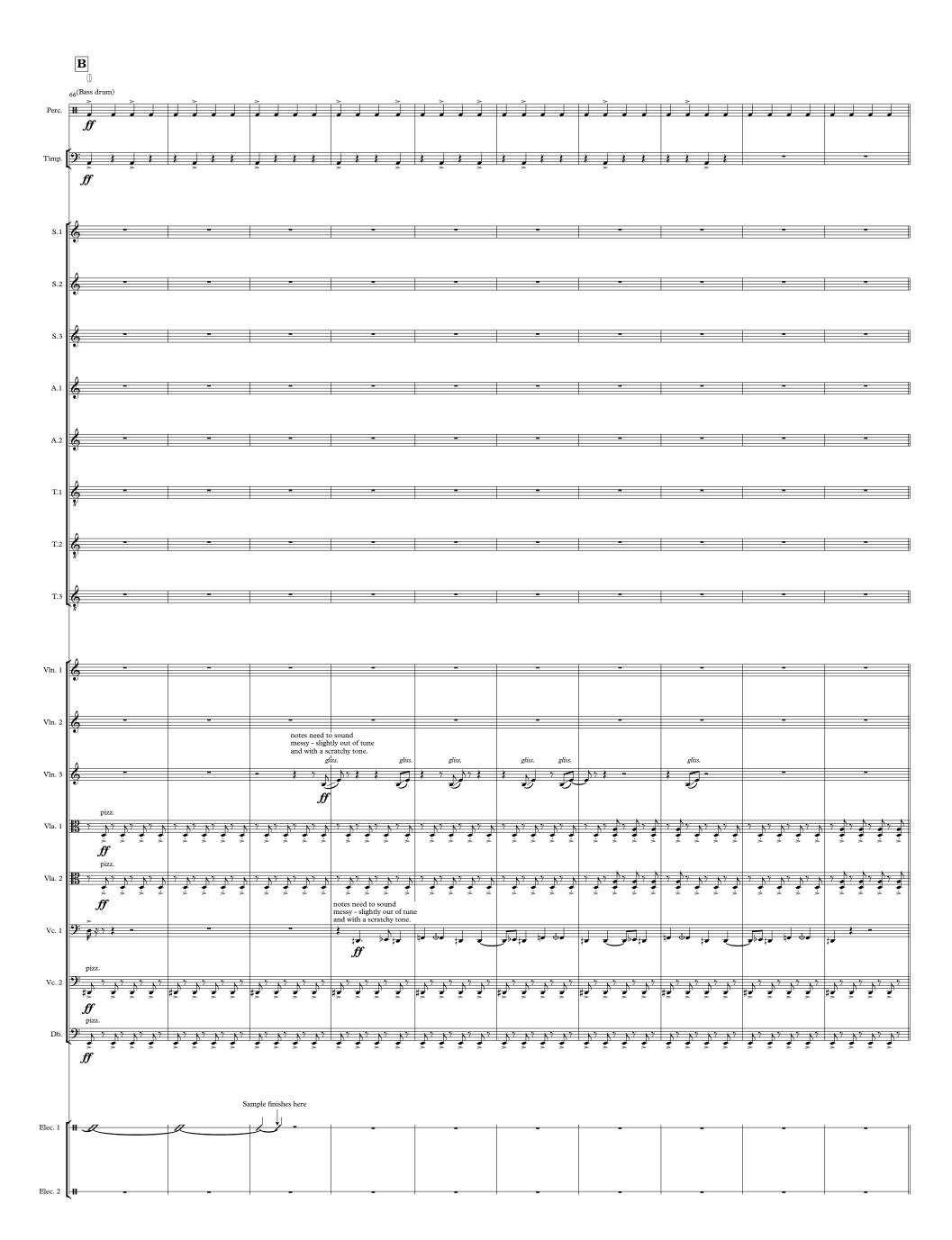


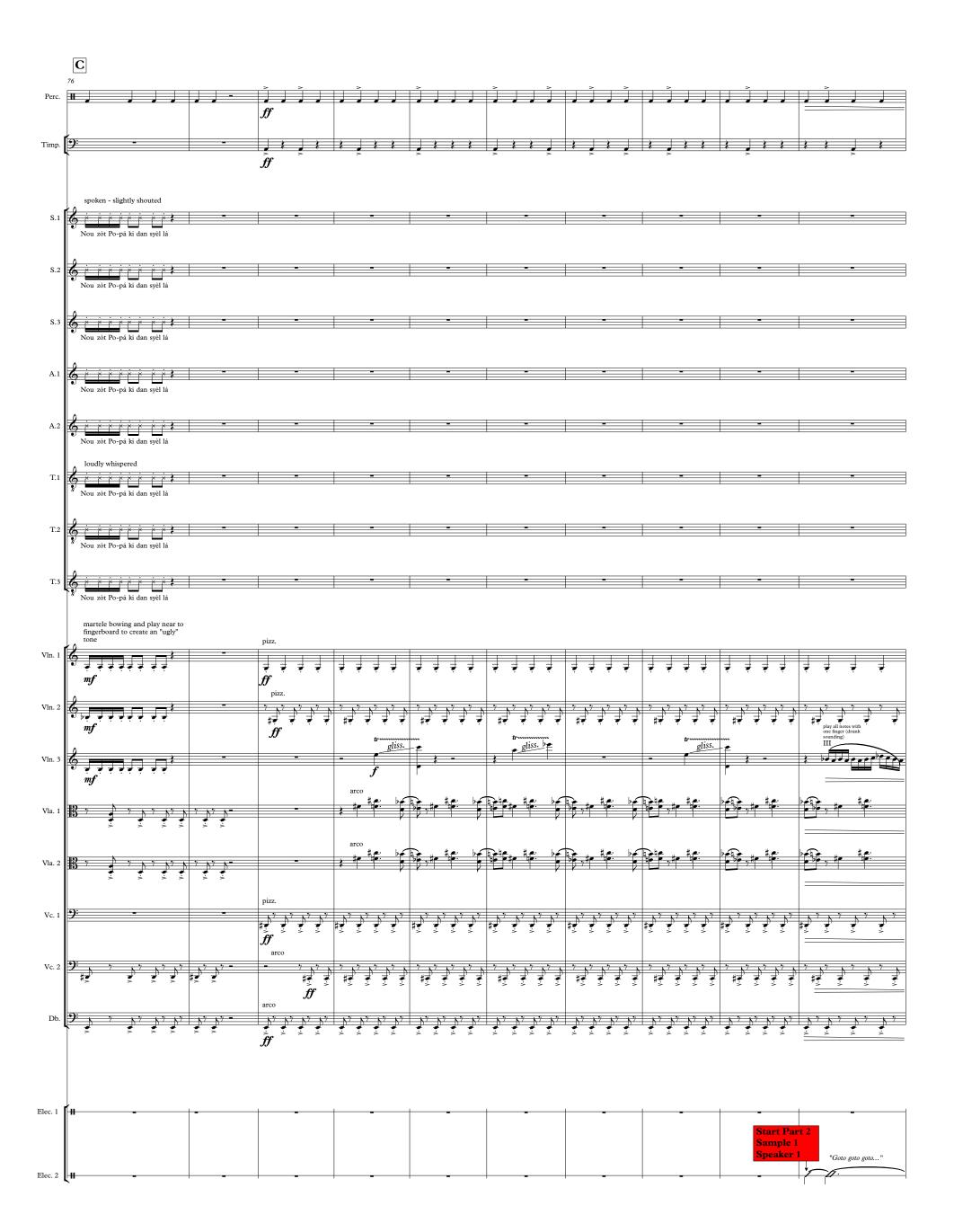


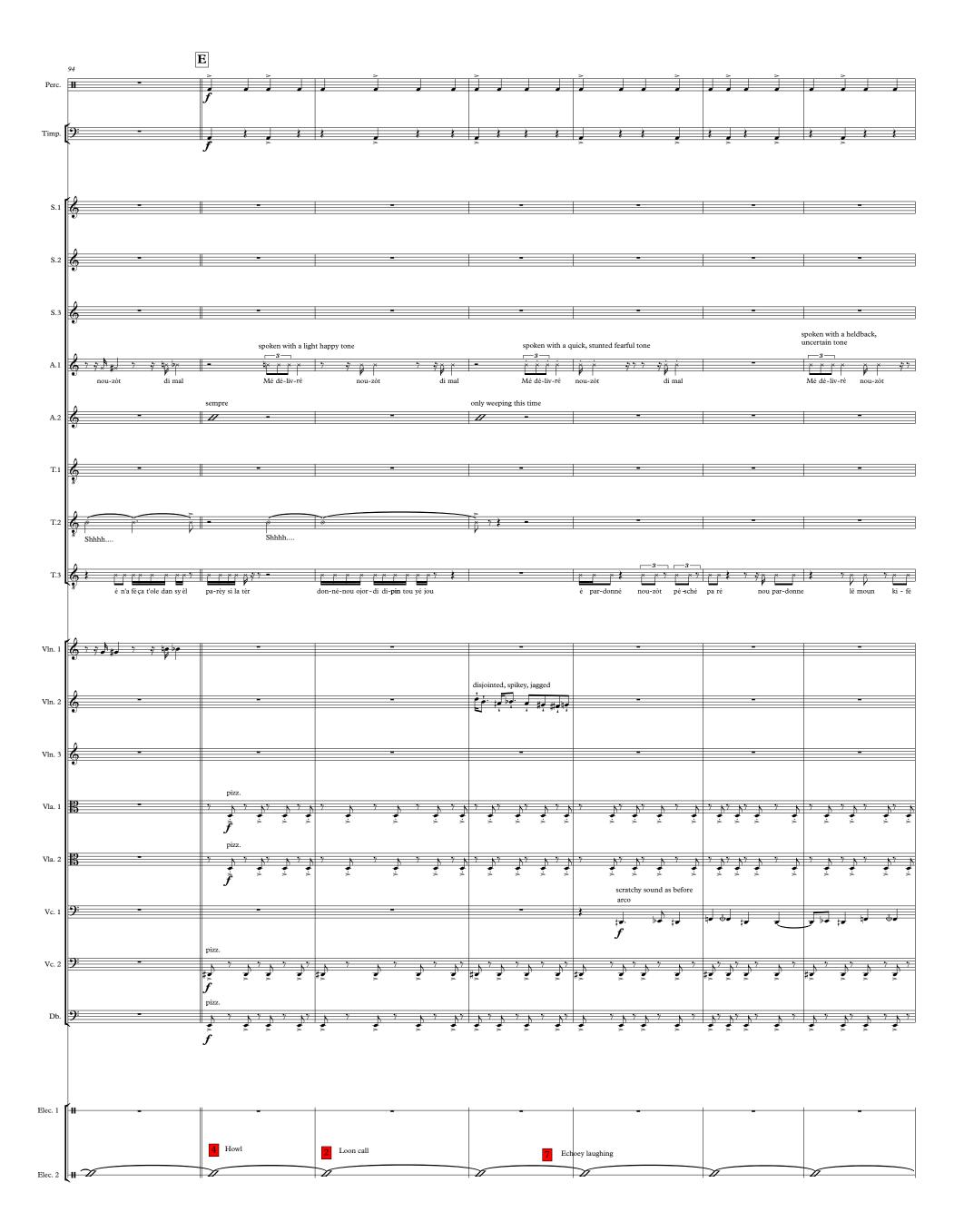
Part 2: Ritual

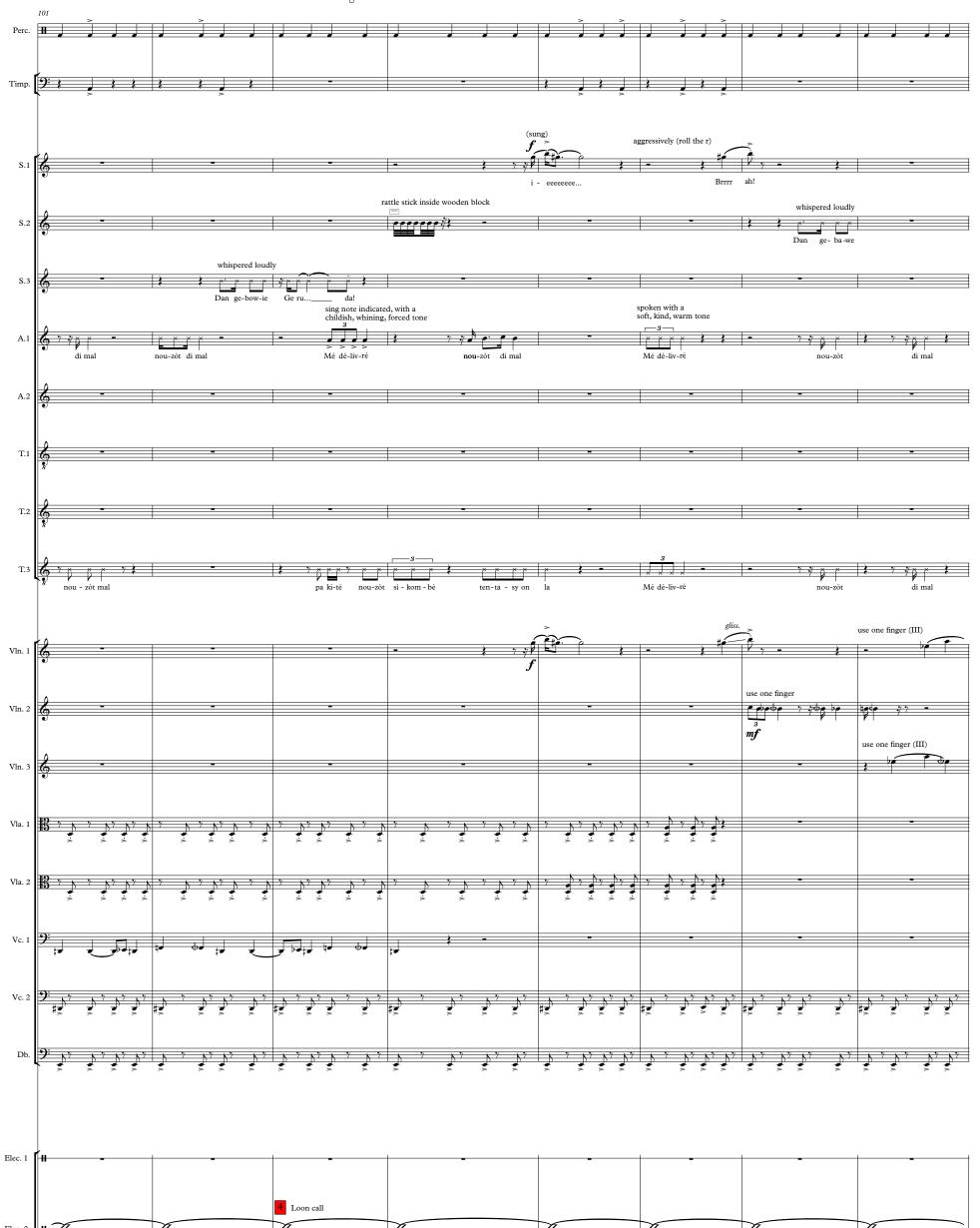
Instrumentation: Strings, 8-Part Female Voice Choir, Percussion & Electronics Duration: ca. 9 minutes

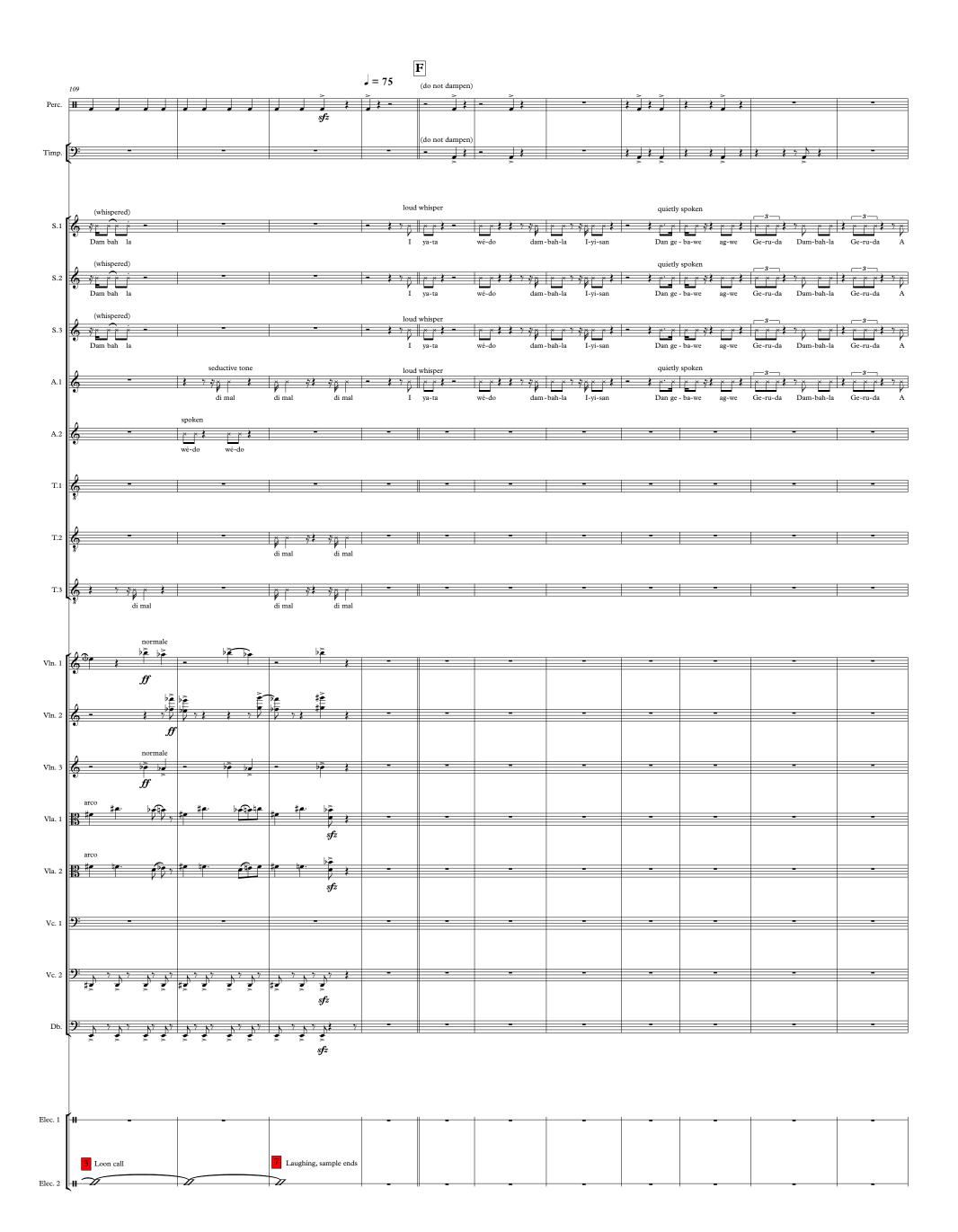


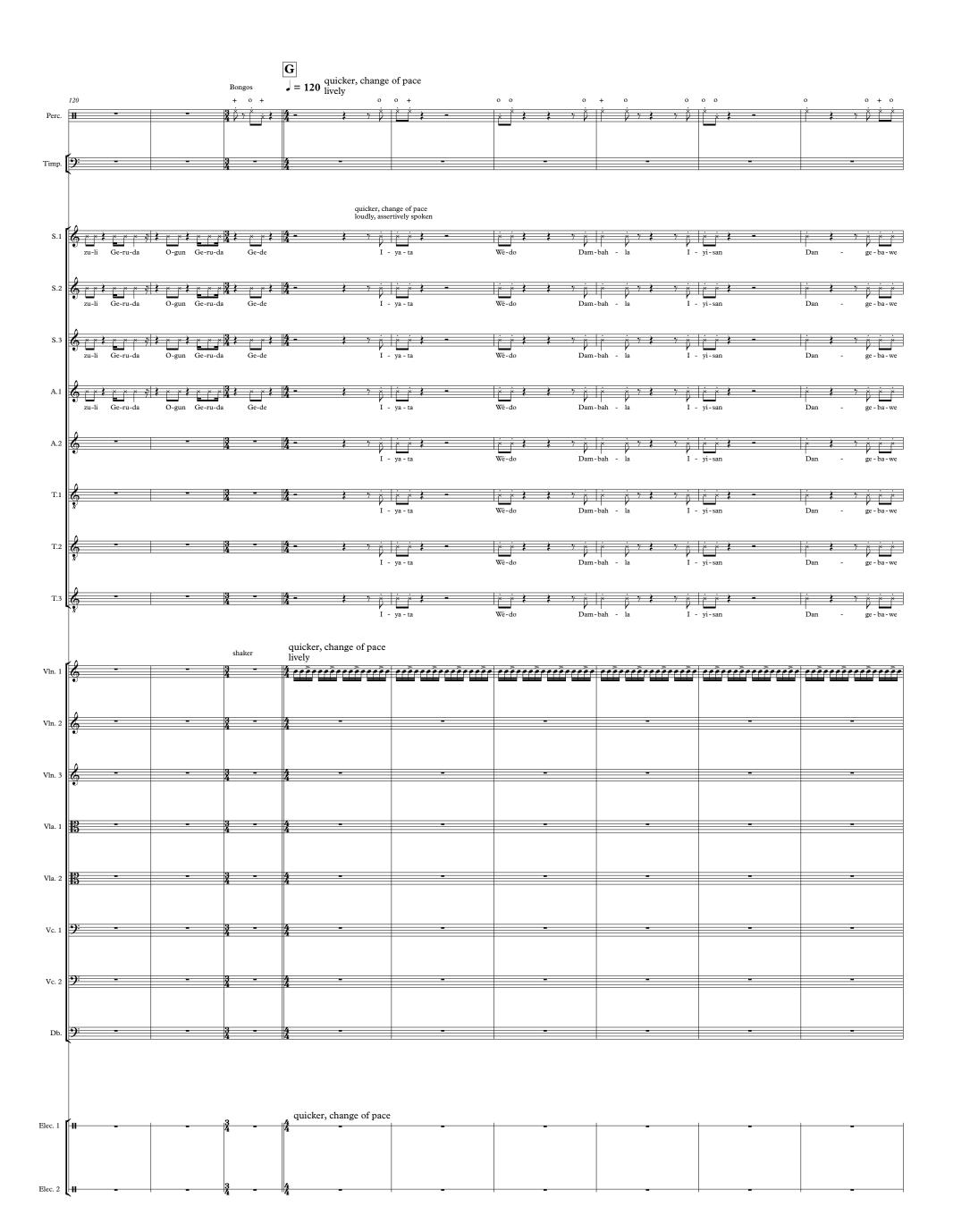


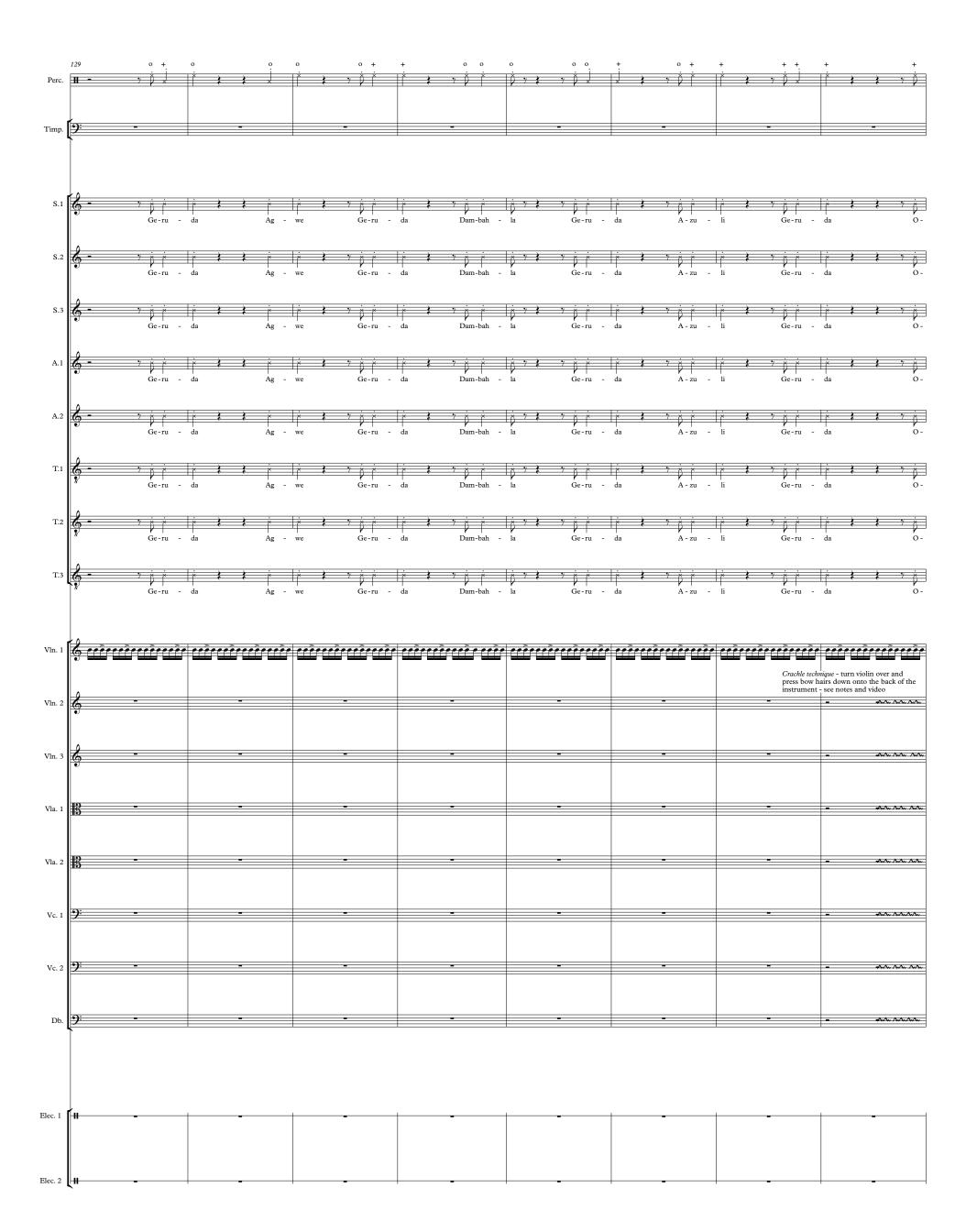


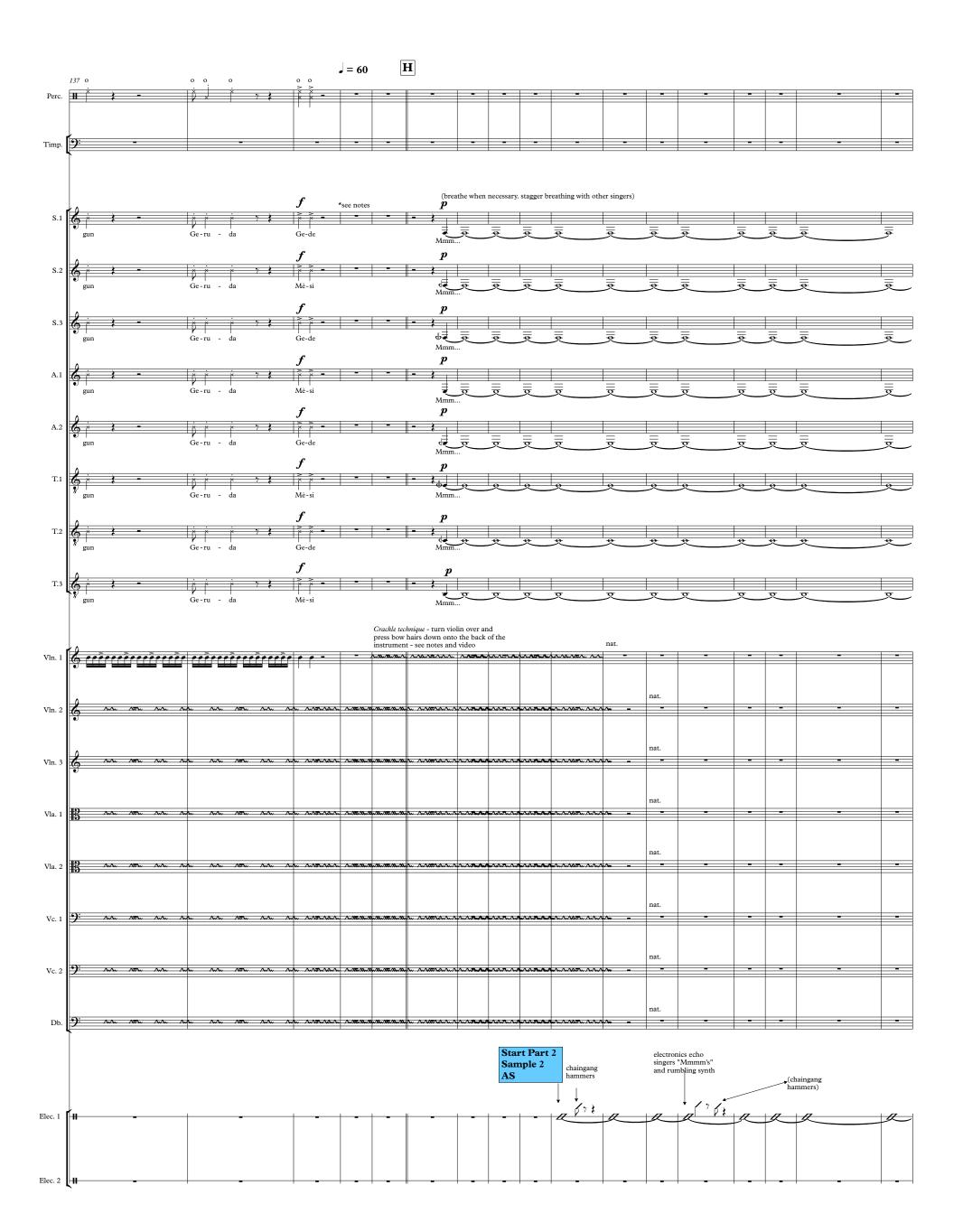


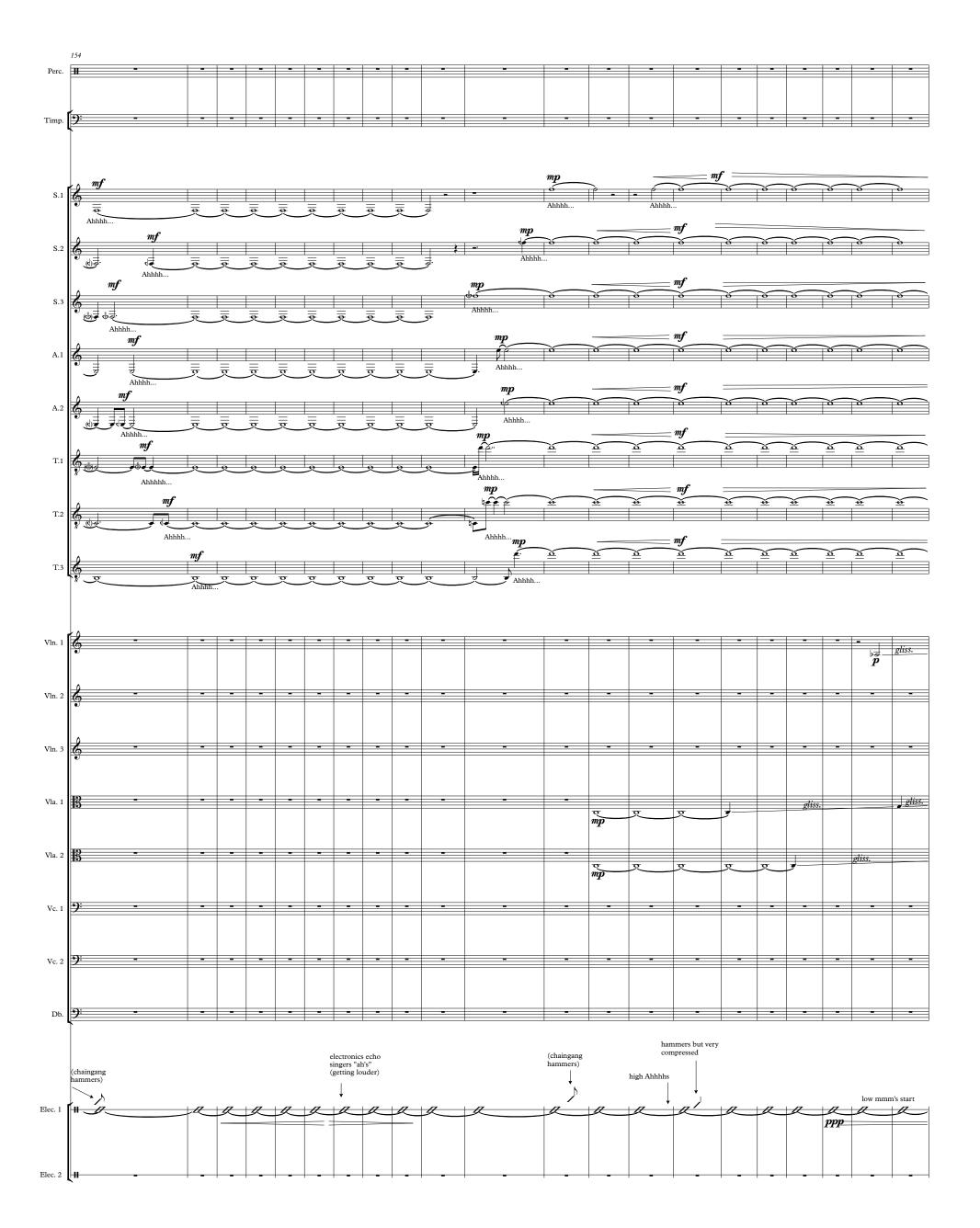


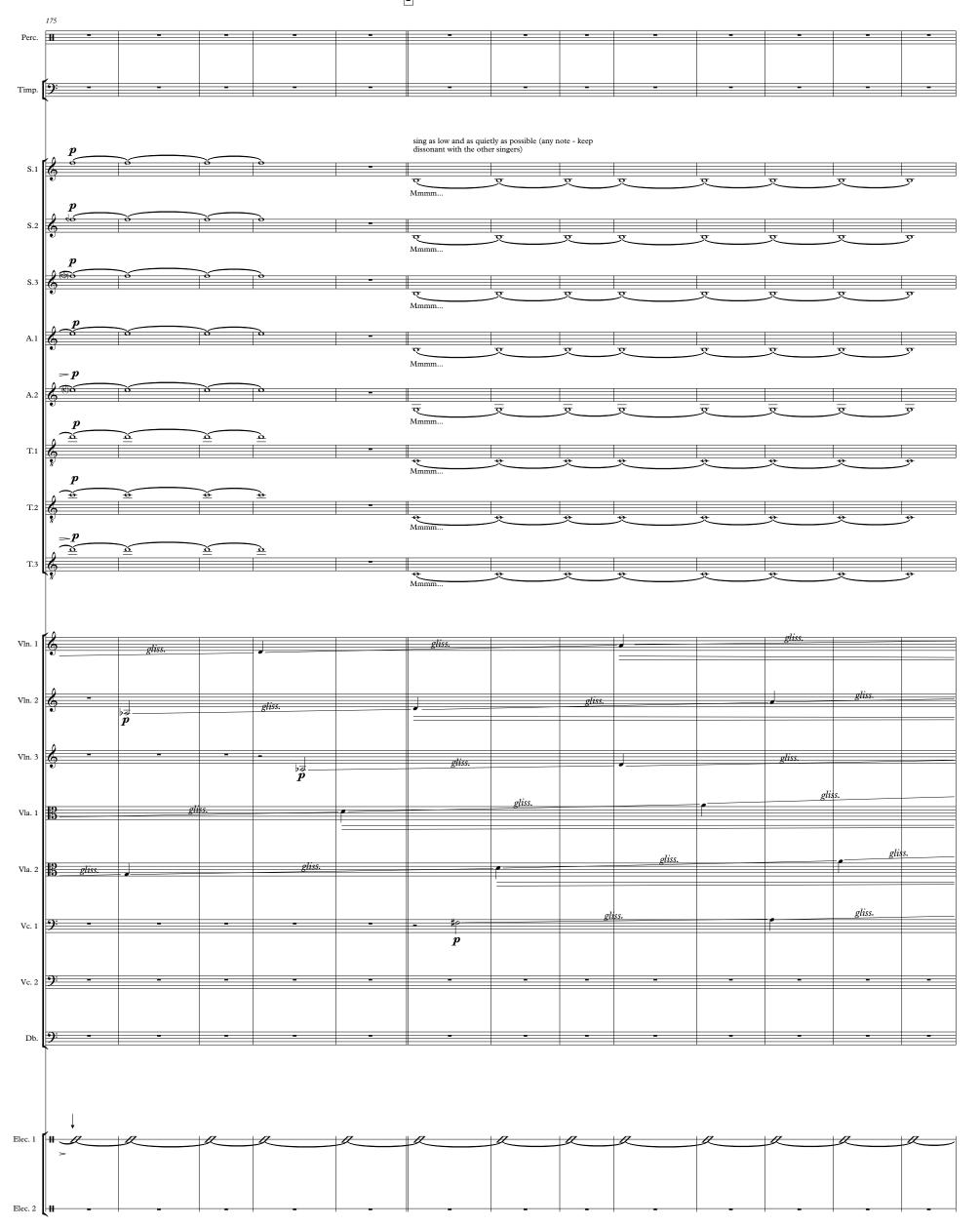


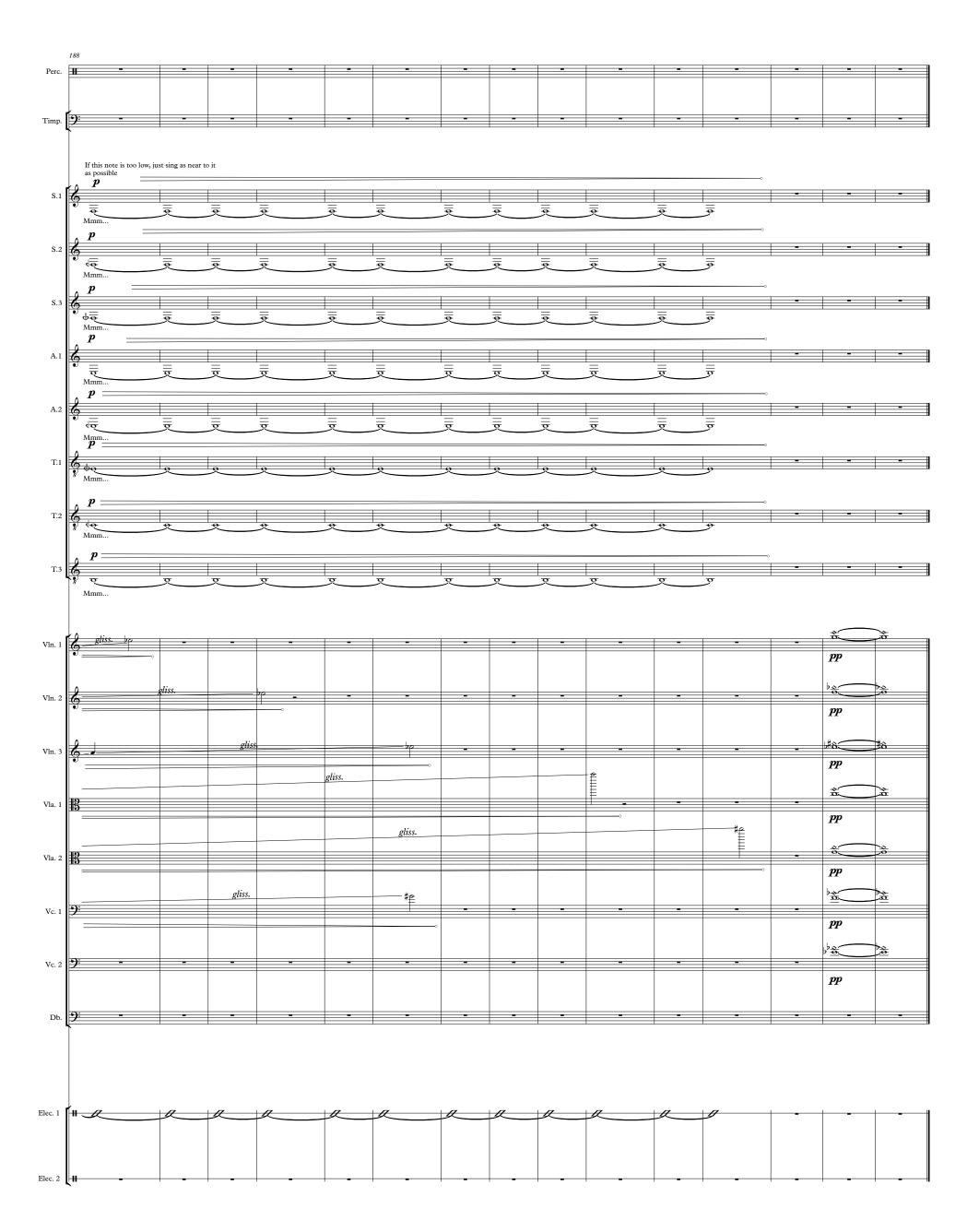






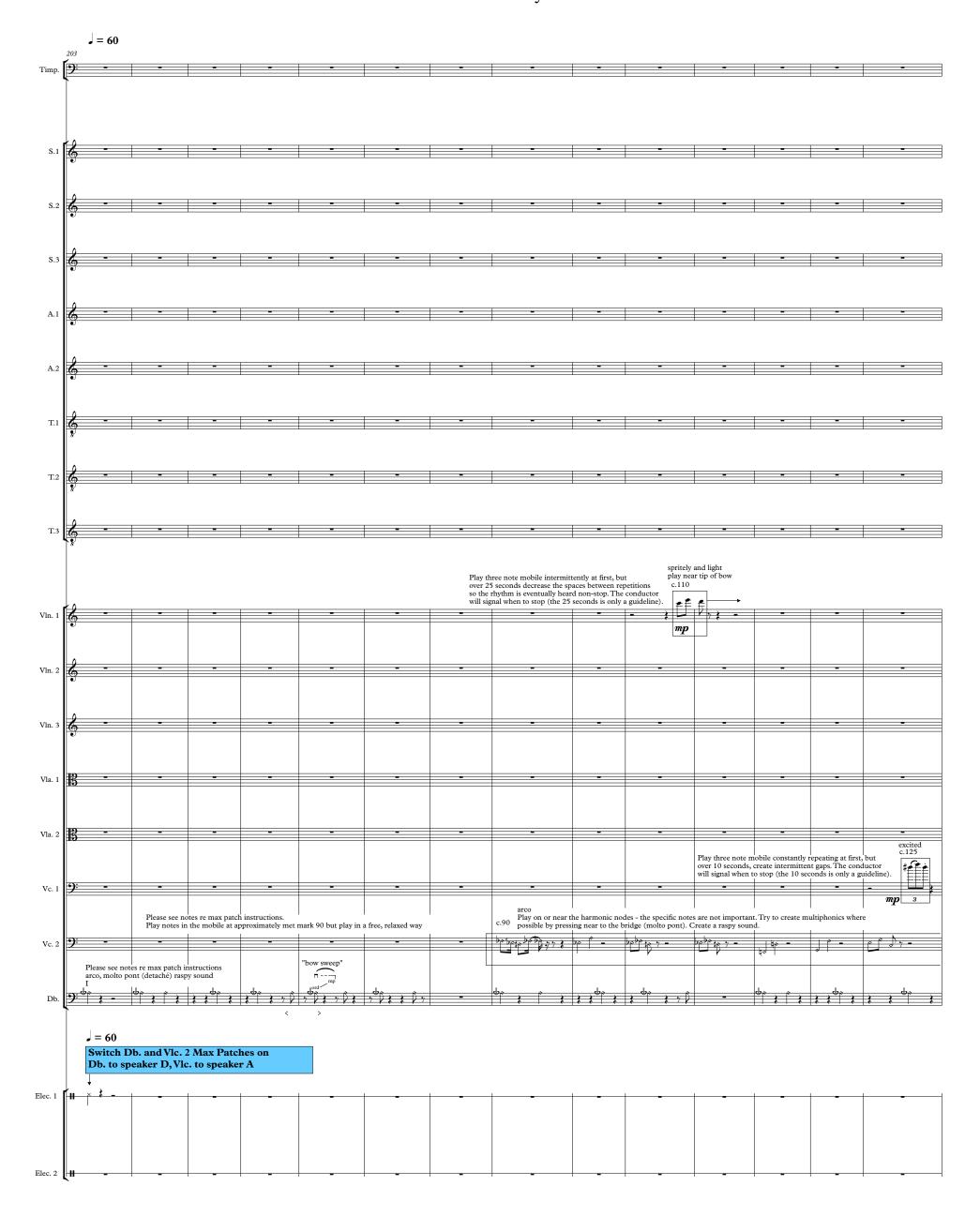


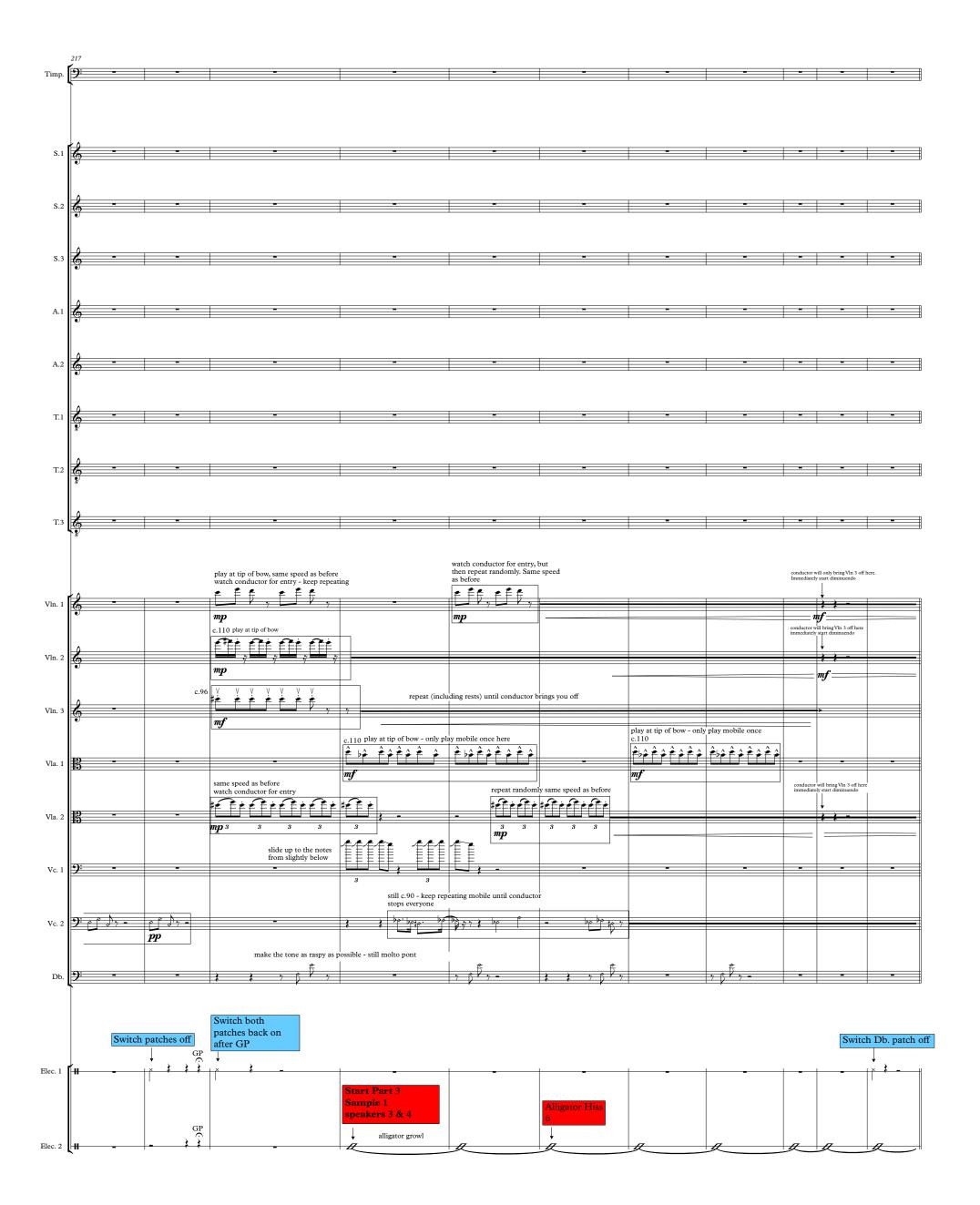


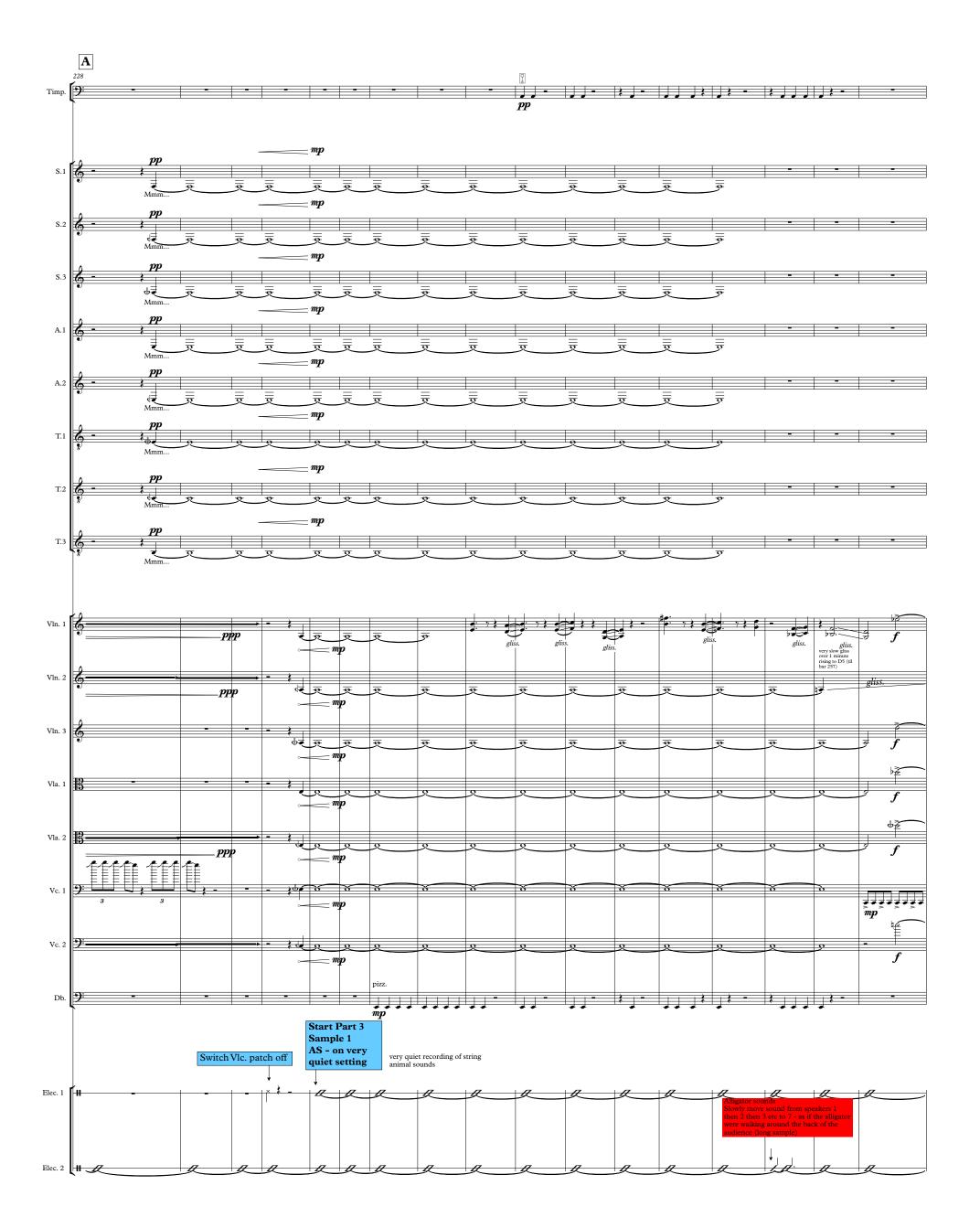


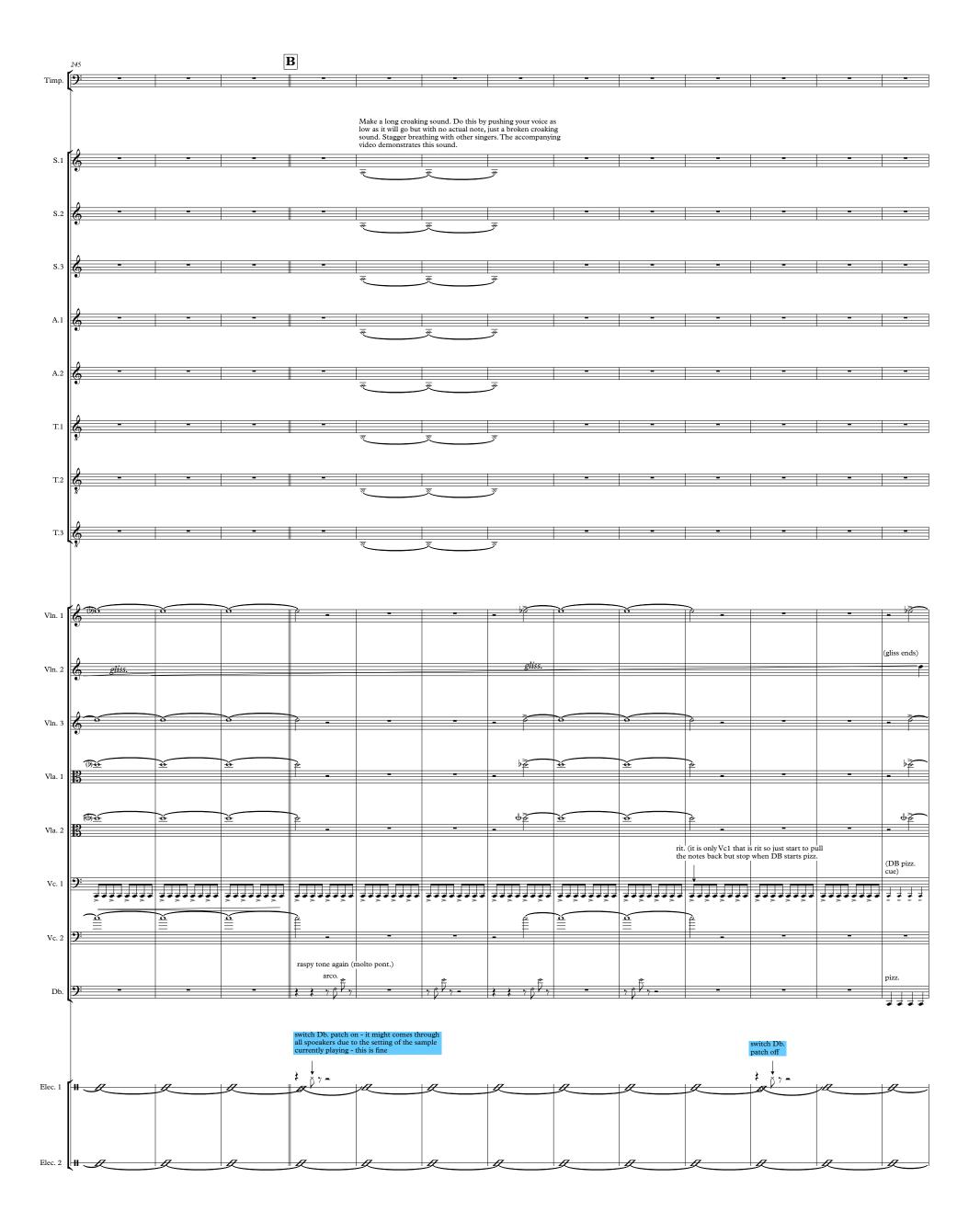
Part 3: The Bayou

Instrumentation: Strings, 8-Part Female Voice Choir, Percussion & Electronics Duration: ca. 6 minutes

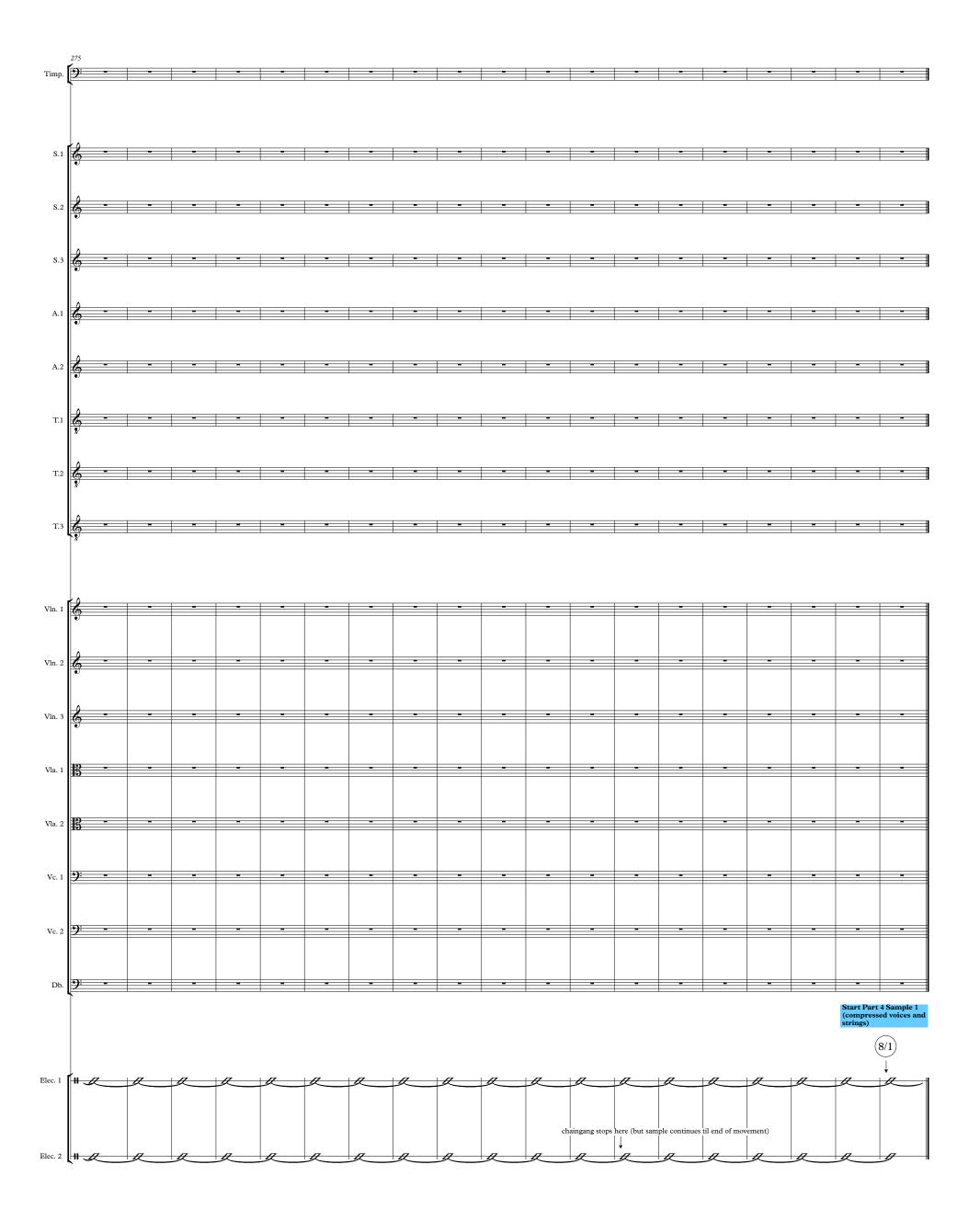






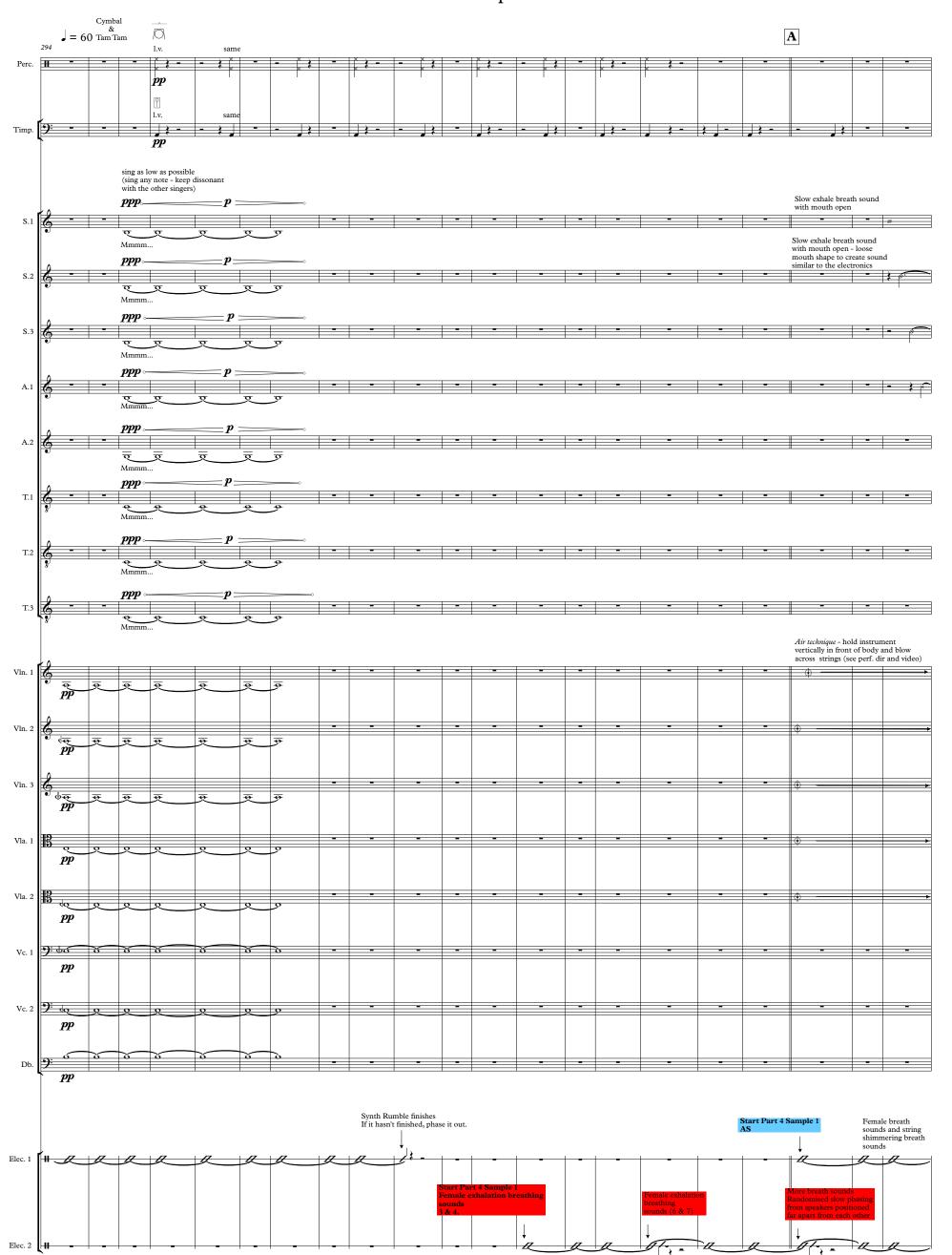


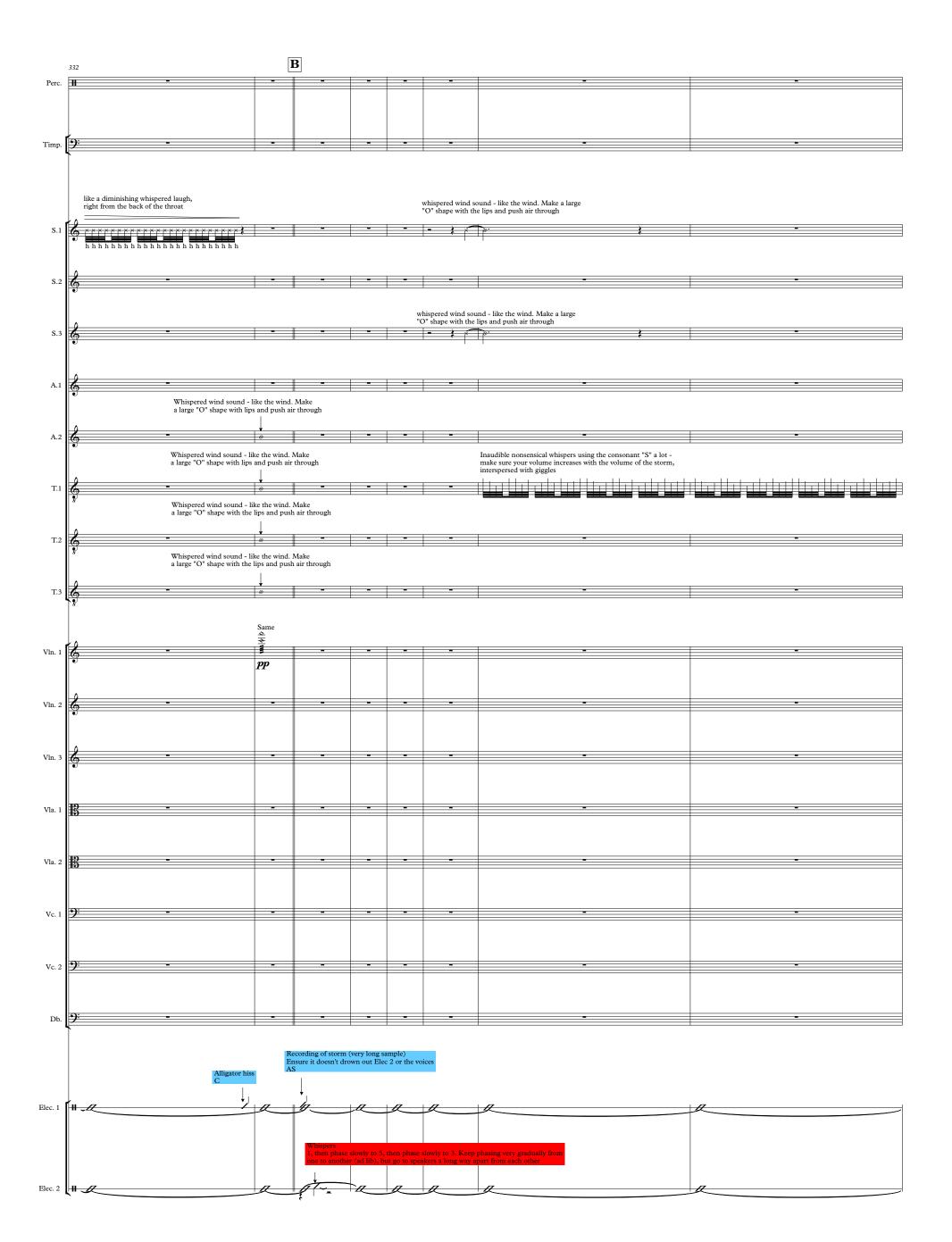
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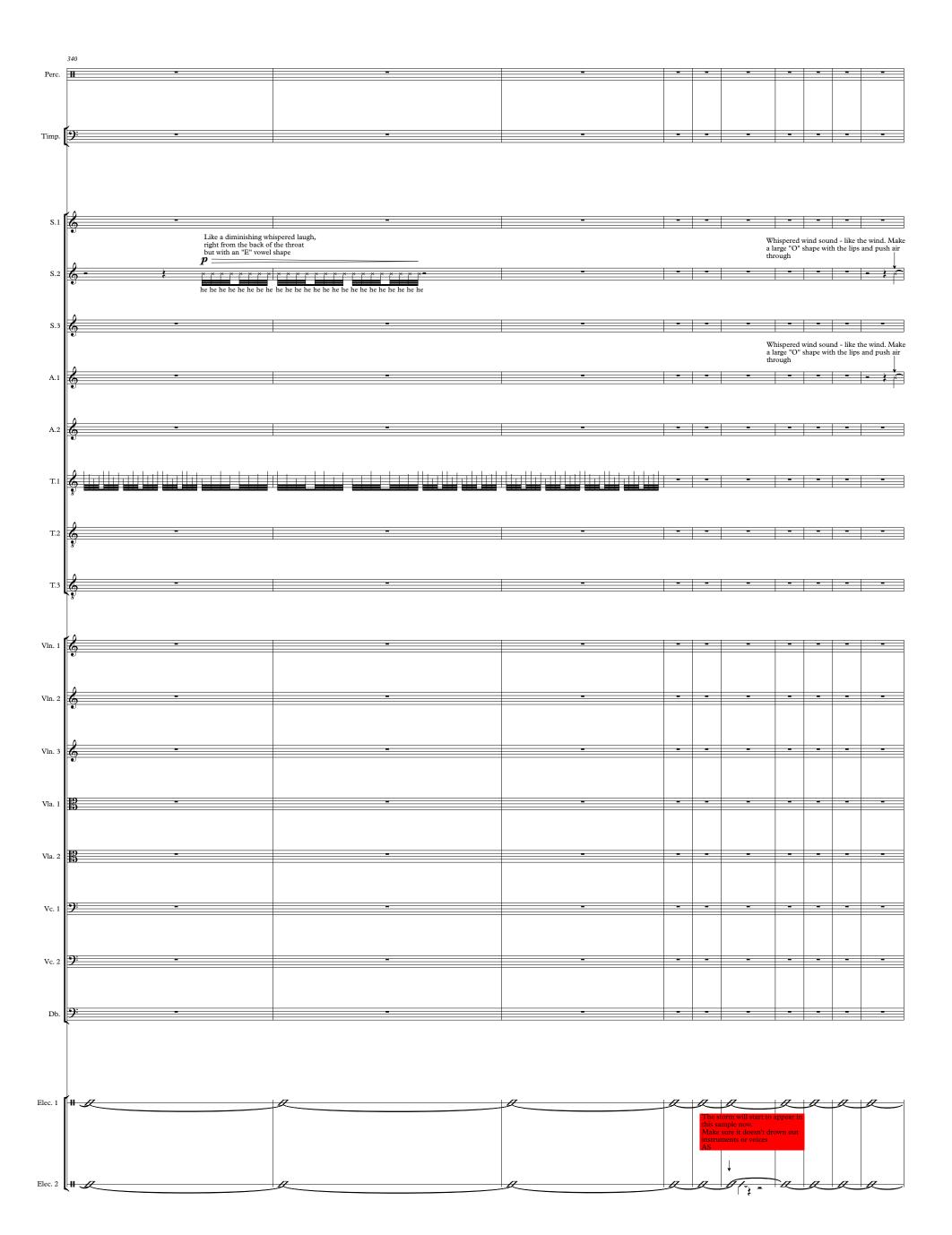


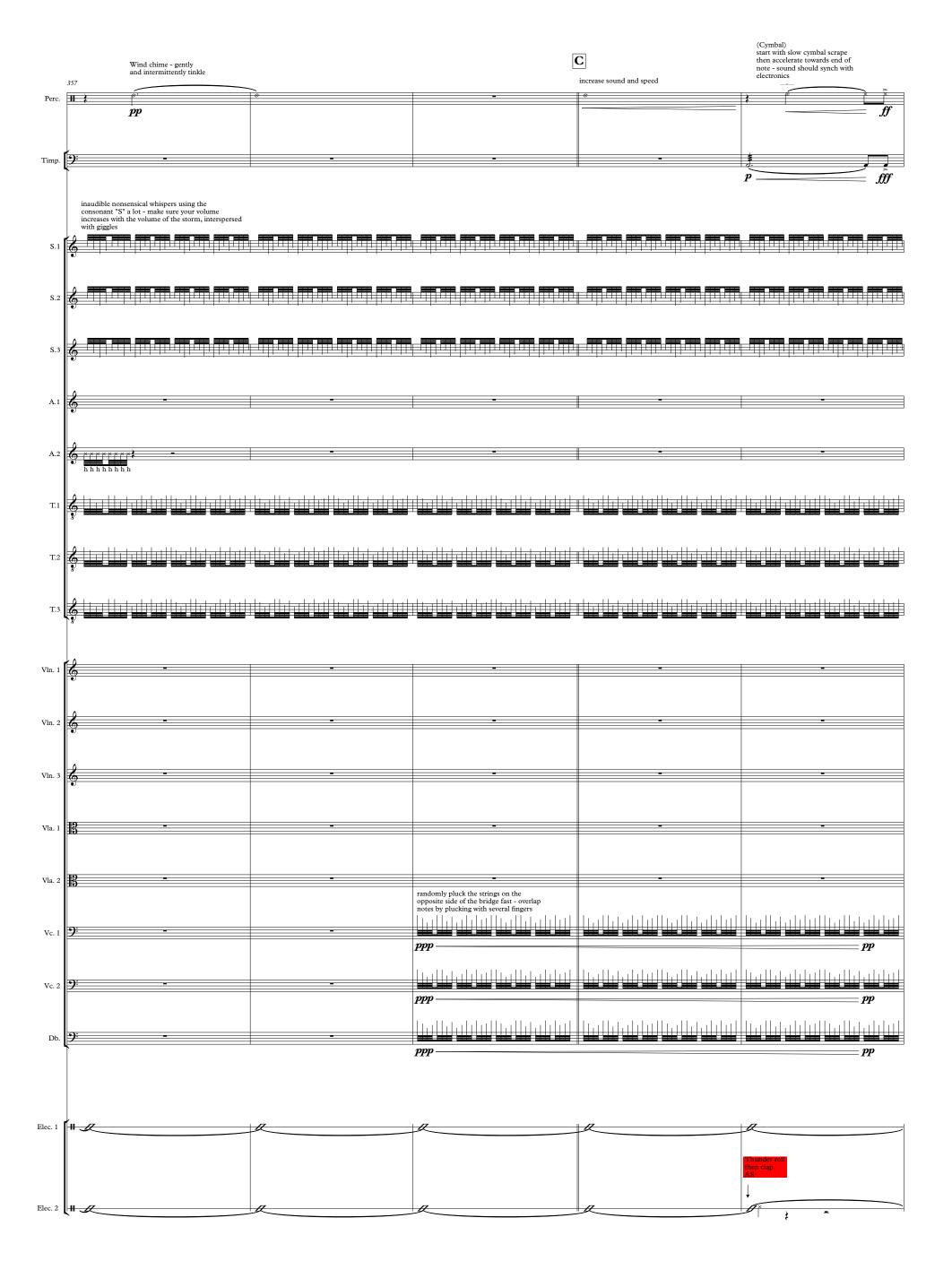
Part 4: Tempesta

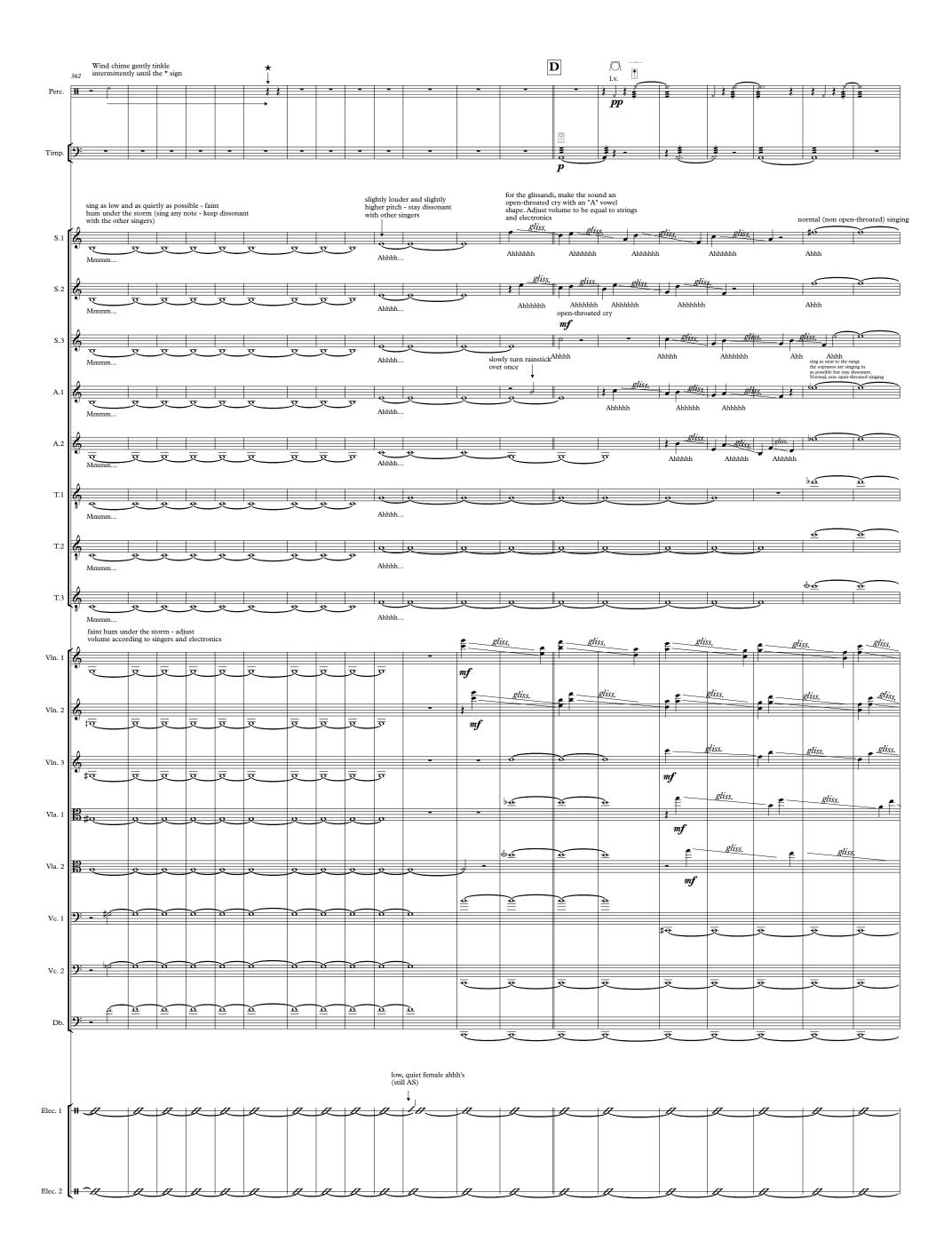
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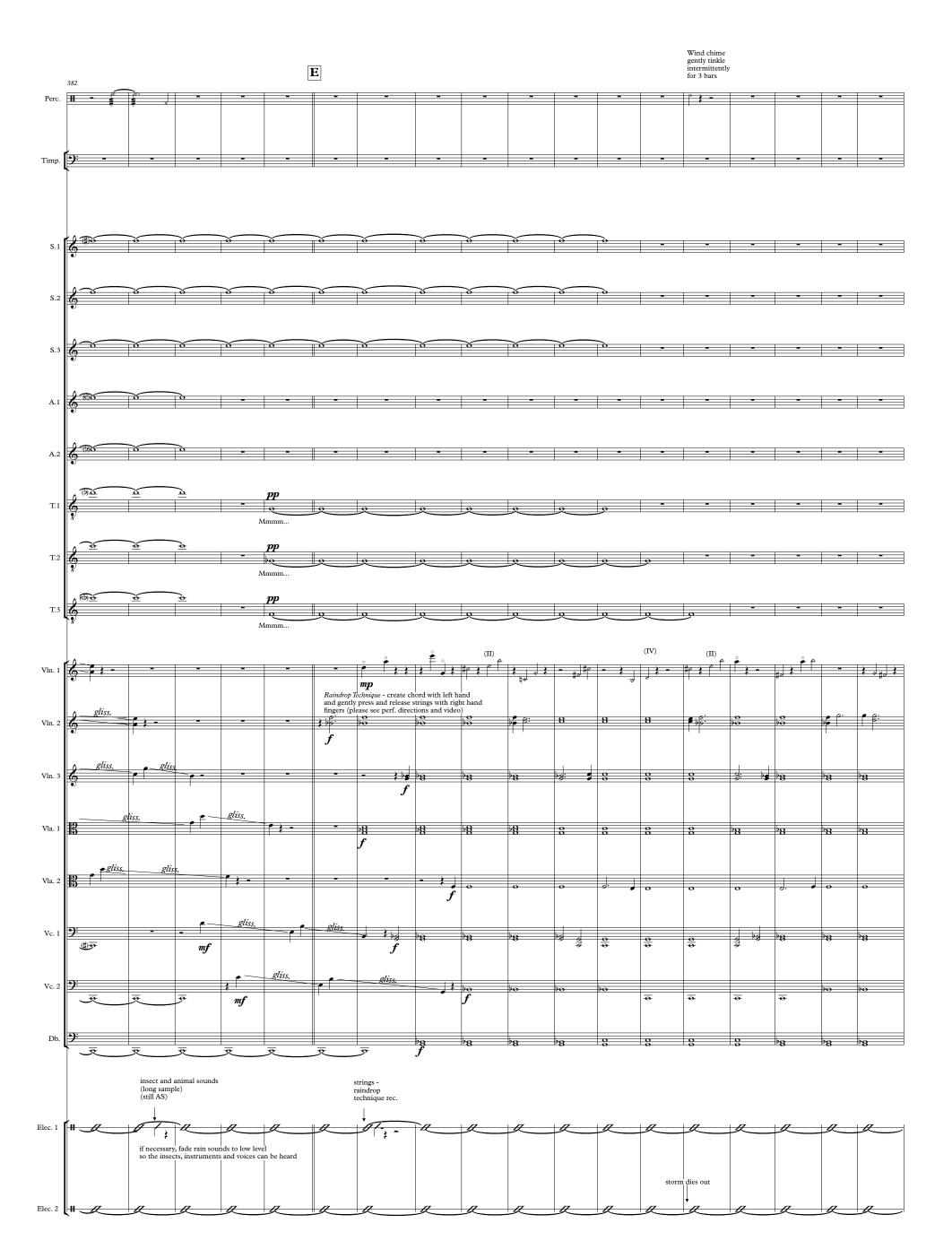


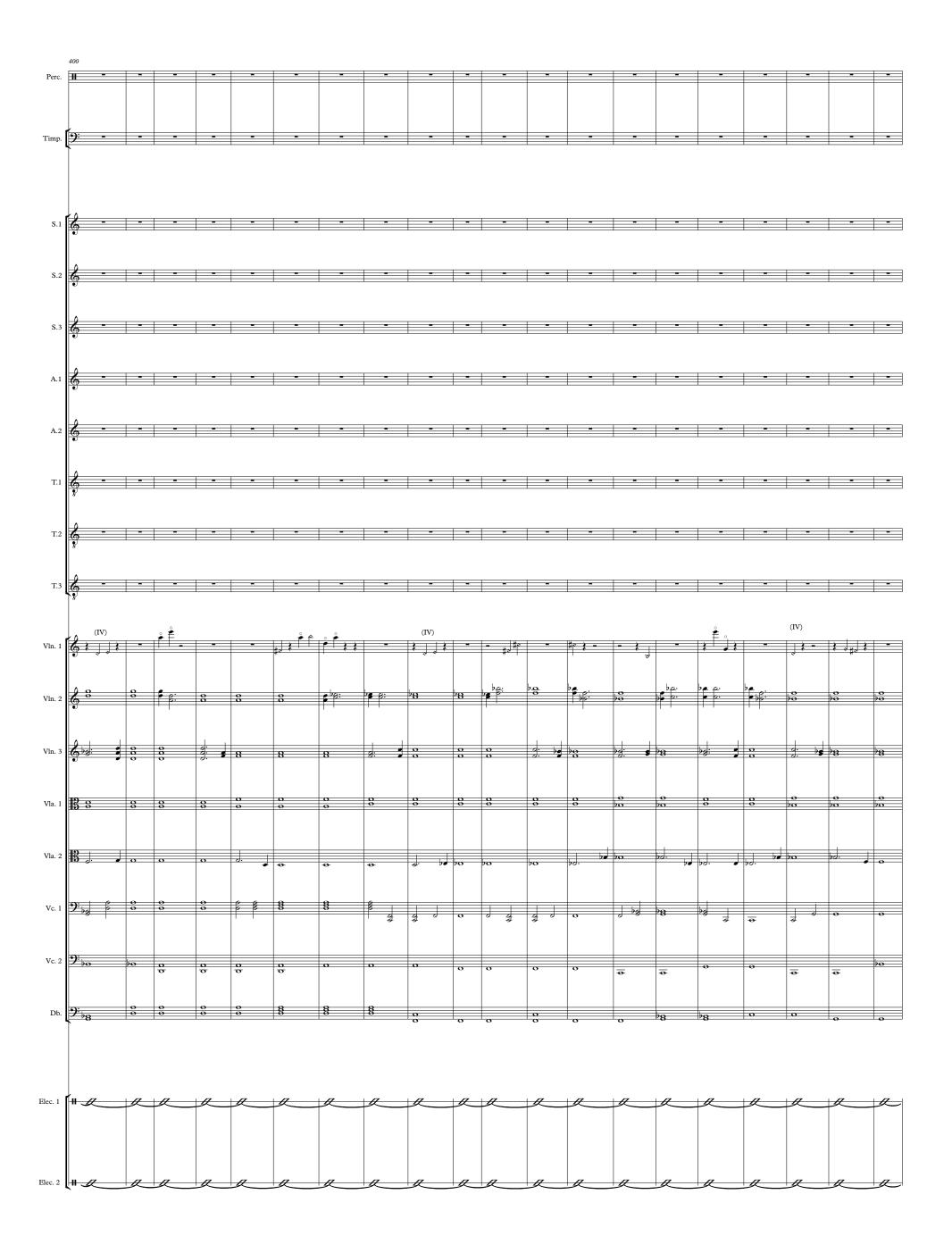


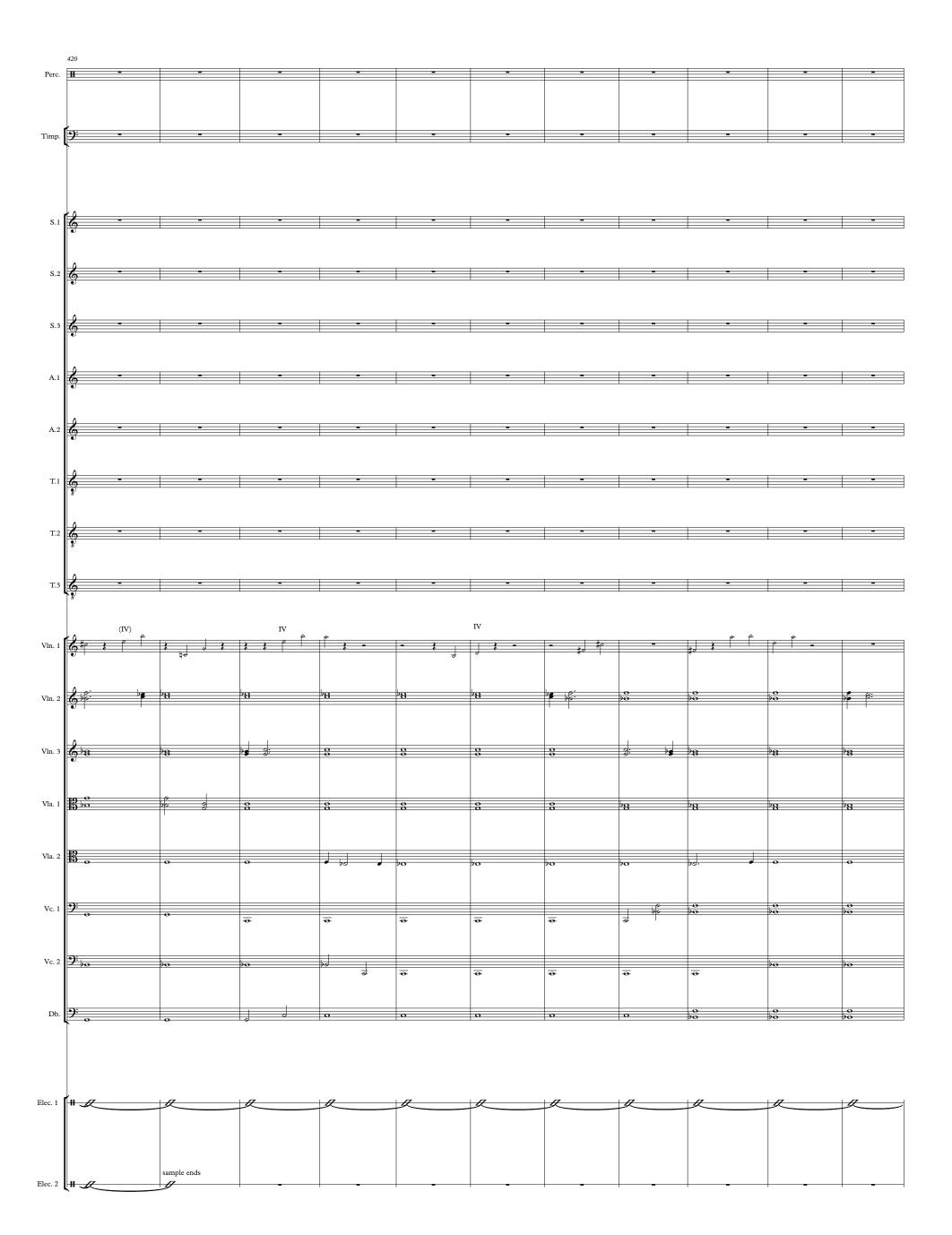


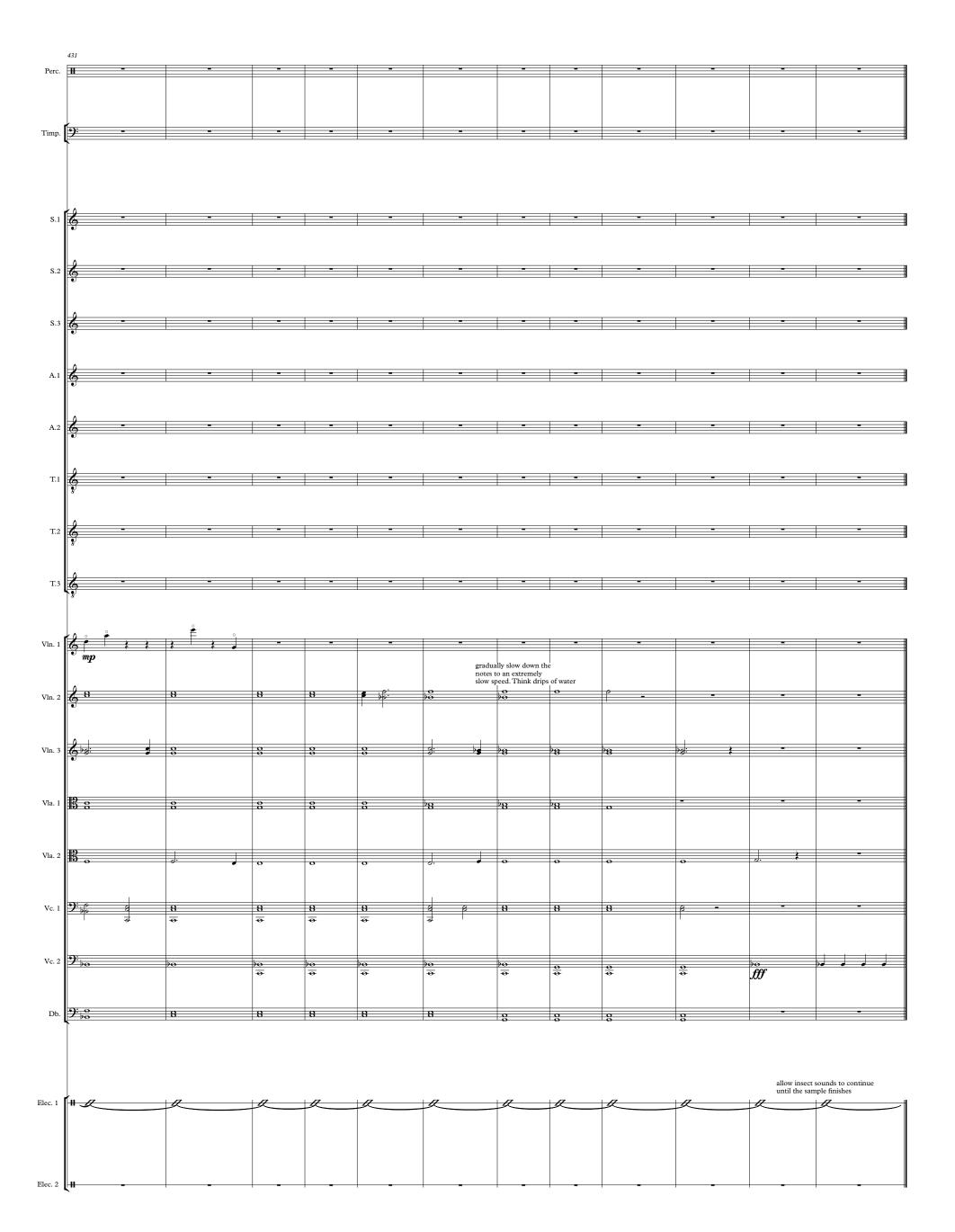












6. Suite for the Seasons (2017)

Undefined performance length time, although a typical performance would probably last from between 20 to 30 minutes.

Programme Note

Suite for the Seasons explores the journey a plant makes throughout its yearly lifespan. The composition is in 4 parts – Spring, Summer, Autumn and Winter, with different musicians playing each season.

The performers are required to enter meditative states before playing.

I created this composition during the summer of 2017, whilst living on a farm in rural North Wales. I started writing *Suite for the Seasons* outdoors during a sunny spring day, whilst sitting in a field. The direct experience of noticing the crops pushing through the soil and feeling the first flush of warmth in the air after winter, triggered in me an awareness of my own inner spring awakening. It made me realize how similar was my response to the seasons and to the crops. I noticed that I had been 'closing up' and going inward, retreating into a state of hibernation and introspection during the winter months, and that I became more extroverted with outward moving energy during spring and summer. I was very involved with meditation and Shamanism at this time, which heightened my sense of self-awareness and nature-awareness.

The effect of the cycle of the seasons on me personally, alongside lunar and menstrual cycles, was a focus of a large part of the Shamanic work I was doing. This all tied in with my desire to explore musically nature's connection to our spirit. I have attempted this by suggesting that, before starting to play, the performers meditate on particular themes suggested in the score. All the music is improvised and spontaneous. The piece requires a deep level of connection between the performer and his or her inner world.

The scores for *Suite for the Seasons* are 3D graphic scores, and in some ways are organic due to the use of real plant seeds, the stems of plants and also dried leaves. I wanted to connect the performer to something more visceral than paper and ink as the piece depends very much on stimulating the performer's internal world. I enjoy painting, and feel that the visual impact of a picture/painting/photograph or the texture of something can influence a performer's interpretation of how they play a piece of music. For the purposes of this portfolio, photographs of the original scores have been used.



Suite for the Seasons Winter OD

Before performing, meditate on these concepts:
Introspection, withdrawing into the shadows,
self evaluation, reflection, peace, gestation,
taking root, clarkness, quiet, stillness, calm,
hibernation

Play each note thought fully and slowly, leaving enough space for each sound to take root. Consider after each note, was it planted in a way that it can and has the potential to grow? Was it planted deep enough?









Suite for the Seasons Spring

Before performing, meditate on these concepts:
The impermanence of darkness, resurrection, the
Certainty of nature's cycles, creation, the expression
after a period of geotation of an idea, growth,
renewal, quietness, gentleness, the beginnings,
transition

Choose one of the seeds planted in Winter. Consider your choice. Nurture it and begin to develop it. Only develop it in its beginning stages. It is not yet ready for full expression.









Svite for the Seasons

Before performing, meditate on these concepts:

High energy, full expression, flourishing inwards and outwards, abundance, colour, textures, height, occupying all the space required for full expression, bursting forth, radiating.

Take the seed which was at its beginnings in spring and develop it to its full capacity. Use your own inner nature as a guide as to what "full capacity" means for you. Occupy as much physical and environmental space as you need.







Suite for the Seasons Autumn



Before performing, meditate on these concepts:

The inevitability of cleath, the beauty involved

In letting go, release, closing down, resting,

transition, the approach of clarkness,

impermanence, withdrawing into the self,

nature's cycles, balancing light and dark

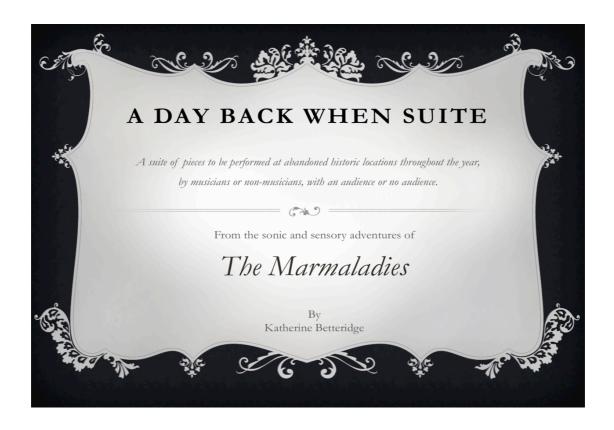
Take the musical expressions from summer and begin to aurow it to disintegrate, close the ideas down and let them fall away, slowly and gradually. Watch your inner responses to these ideas.





7. A Day Back When Suite (2017)

Undefined performance length time, although a typical performance would last around 2 hours. This excludes the time taken to explore and vet the buildings and also excludes the gaps between pieces (as they all happen at different locations and some need to take place at different times of year).



This composition is the outcome of a variety of adventures undertaken by The Marmaladies (Sarah Brook, Sioned Eleri Roberts and myself). The score was created retrospectively after our adventures in order to provide opportunities for others to recreate similar sonic and sensory events themselves. The intended audience can be either academic or non-academic – it does not matter. This score, along with *Suite for the Seasons*, was developed with a much freer approach to music-making in mind, inspired by the adventures with the Marmaladies. Although this score appears to be quite different to the majority of scores within the portfolio, it still has the same essence, focusing on the themes of nature and magic, the nature we encountered that had taken over the derelict buildings, and the magic we felt when stepping into these forgotten places. In the other works in this portfolio I used my imagination to create in my mind the realities I wanted to create musically on the page, whereas with *A Day*

Back When Suite I sought direct contact with the natural world, allowing the experience to guide the shaping of the improvised music. If someone were to play the music in this portfolio, it is hoped that A Day Back When Suite would encourage them to explore the nature and magic within themselves whilst out in nature, a necessary pre-requisite for any authentic performance of the works within the suite.

The experiences we had during our adventures, our performances in non-conventional settings and our direct engagement with nature and history opened our eyes to their potential impact on our personal and social wellbeing. An element of meditative guidance is included in the text of each piece, to enable the musicians or non-musicians involved to tune into their inner being and to the environment before starting to perform. For a definition of non-musician please see the score.

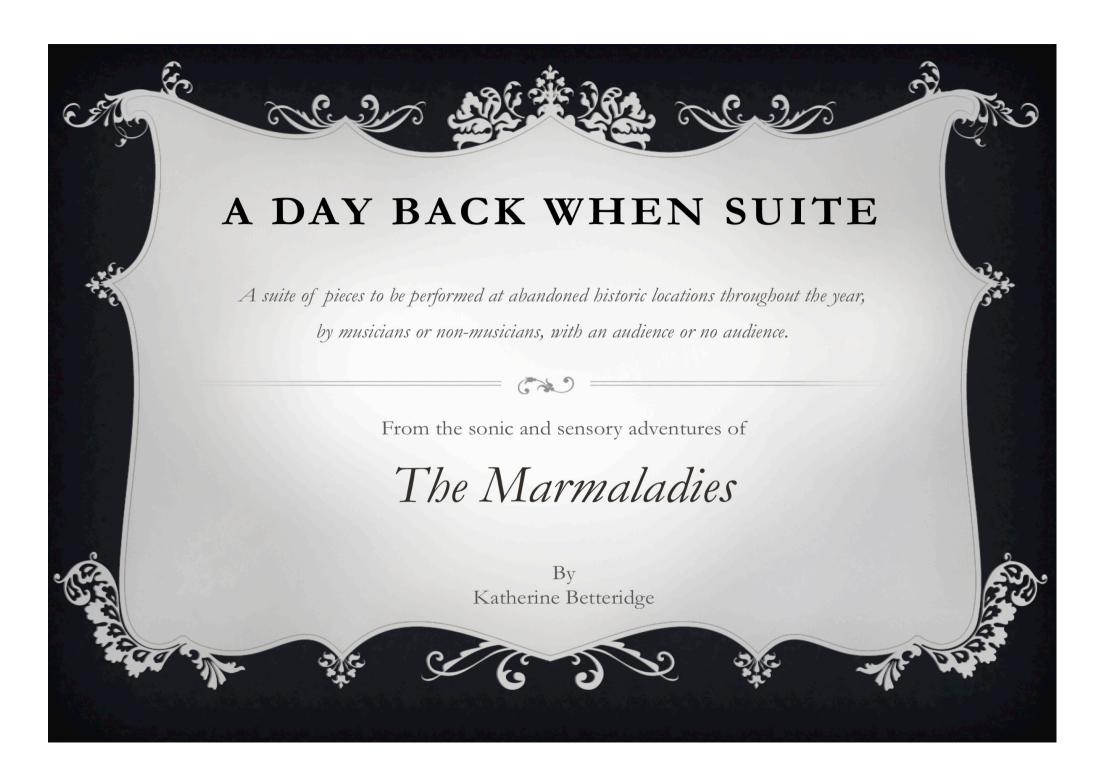
There are prompts in each of the pieces which remind the player to tune into the feelings in the body. It is important to stay with the feelings, the sensations and emotions within the body without it becoming too cerebral. If the mind is allowed to take over, the music may just become more of an intellectual and superficial exercise. In fact, if fear is the main emotion being experienced and if the mind is allowed to completely take hold, the music might actually become impossible to perform at all.

All of the pieces in the suite are to be performed at specific times of the day, or even specific times of the year. They are all intended to be performed in interesting locations, and the important element of *intention* needs to be very present in order to make the performances worthwhile experiences. Intention changes the entire way we experience something, and could also be said to be one of the main components to make a ritual a ritual.

Within the pieces in this suite, it is important to allow random sounds in the environment to become a part of the experience rather than trying to avoid or control these aspects of the sonic environment.

There are video and audio versions of this score in the appendices but some are under different names:

- *Voices from the Deep* is the same in the suite and the video
- Artillery Chamber Music is also the same for both
- *Tunnel Vision* is the same for both, but there is only an audio version of this piece (there is no video)
- Seeking an Asylum is the same for the suite and video
- Anarchic Aristocratics: Night Music in the suite is called Baron Hill Night in the video
- Anarchic Aristocratics: Dawn Music in the suite is called Baron Hill Dawn in the video



*The composer accepts no liability for any accidents caused as a result of participation or performances of any of the compositions within this suite. All decisions taken therein are the responsibility of the participants.

A Day Back When Suite

INTERPRETATION AND PERFORMANCE

Performance of this work should be rooted in a joint exploration and interpretation of the guidelines set out at the beginning of each piece. Each performer should read through these guidelines, discuss them with other performers and plan a performance based on a collective response. The aim should be to use the words as inspiration for musical improvisation, rather than reducing them to strict notation. They should not be perceived as a formulaic recipe or template. Each player should attempt to create an authentic individual performance whilst responding intuitively and sensitively to other players. The aim should be to create music that is grounded in a meaningful and enriching interpersonal dynamic that opens the door to unpredictable and surprising outcomes.

These pieces are designed as a musical and sensory experience, as much for the performers as for an audience. The presence of an audience is not essential and the performance has been a 'success' if the performers (and audience if present) have enjoyed the experience and/or gained something from it.

DEFINITION OF TERMS

"Non-musician" refers to a person who (a) has never learned to play an instrument or to sing and/or (b) self-identifies as non-musical.

"Interact musically" refers to the act of listening and responding in a sensitive manner to other musicians, for example, copying or replying to a phrase, or choosing to play a different phrase or sound. The main aim is to tune into other players in a sensitive manner.

"When it feels right" refers to using one's own personal sense, judgement and intuition as a barometer of how, when and what to play.

"Cacophony" in this context refers to sounds becoming so confusing due to the immensity of the echoes in a chamber, that individual sounds lose their individuality and the entire array of sounds becomes one large, loud, indefinable sonic entity.

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Voices from the Deep

Go to a rural location and find an abandoned mine with an underground lake. This performance should take place on the midwinter solstice.

Requirements

- Musical instruments (baring in mind that mines are damp places, so non-precious or plastic instruments might be most suitable). Each person can experiment with more than one instrument to find out what suits the player and also the spaces
- 2 Performers (musicians or non-musicians)
- Victorian costumes
- An inflatable boat and black or dark material to cover the boat if it is a bright colour + rope to tether the boat
- 20 or more tea lights or free-standing candles
- Torches and head torches enough for everyone to make their way safely through the mine
- Portable chargeable bright lights (ready charged) to illuminate the players whilst performing (in addition to tea lights)
- Wellies for everyone (disused mineshafts often have pools of water that must be waded through in order to go deeper into the mine)
- Warm clothing for everyone (thermals will be especially effective and can be worn under the Victorian costumes)
- Waterproof clothing (mines are usually very wet places with a lot of water in the air)
- Some pieces of veil-like, semi-opaque material
- Several lighters
- An audience or no audience

Once a suitable area has been found, inflate the boat and cover it with the black material if necessary then put it on the lake and tether it to something. Set up three varied performance spaces, one of which should be next to the lake (near where the boat is tethered) the others could be in different chambers and cavers and/or on different tiers. Distribute tea lights to add ambience and pieces of material to create an interesting-looking environment – do this by draping the material from pieces of rock above head height to create curtain-like veils. Set up the bright lights in such a way that the physical lights are concealed but that the light from them illuminates where the performers intend to stand.

The performance

The performance will have three movements each one taking place in a different location, the final location for the final movement being the boat. The locations should be chosen in accordance to the way that they make you feel in relationship to their corresponding movement. The movements should be as follows and in this order:

- 1. Slow
- 2. Fast moving to frenetic
- 3. Dream-like

Move to the first chosen performance location and listen to the space, focusing on the experience of the space, smelling the air, feeling the edges of the darkness beyond the lights, then, when you feel ready, begin to improvise, actively responding to the space, tuning into the self to find out how the space is reflected within, then reflecting this back out through your music. Do not think too hard about this though; it should be a feeling process, not a thinking one; simply set the intention. Allow the music to be shaped by how the space makes you feel and how the acoustic affects the sound.

Interweave and interact musically and theatrically with the other performer but in a way that is sensitive and respectful of the space. After the first movement, whilst moving to the second space, mindfully sink into the self to fully engage and be present with the experience of changing environment. Do the same active response to the space in the second and third movements that you did with the first. When each of the first two movements feel to have come to a natural end, both performers board the boat and be seated and improvise the third movement whilst floating around the lake, responding to how the experience makes you feel. The performance will finish naturally once the performers feel that they have fully explored and expressed their inner response to the environment.

Find an abandoned WWII artillery chamber. It is preferable that the building has impressive and exceptionally echoey acoustics and interesting graffiti throughout, both from the modern day and also from the 1940s. This adds to the atmosphere of the building environment. This performance can take place at any time of year. If the chamber has places where daylight can get in, the performance should take place at night.

Requirements

- Minimum of two performers (musicians or non-musicians) (no maximum)
- Non-precious musical instruments (voices can also be used). Each person can experiment with more than one instrument to find out what suits the player and also the space
- Enough head torches for torches for everyone
- Portable chargeable bright lights (ready charged) to illuminate the players whilst performing
- Dark hoodies and dark clothing
- Warm clothing and thermals
- Wellies (in case of pools of water which need to be passed through)
- 20 or more tea lights or free-standing candles
- Several lighters
- An audience or no audience

Scan around the building and look for a suitable area to perform in. Once found, set up a performance space, distributing tea lights around to add ambience. Set up the bright lights in discreet positions, so that the physical lights are concealed but the light from them illuminates where the performers intend to stand.

The performance

All players begin to improvise, actively responding to the space, tuning into the self to find out how the space is reflected within, then reflecting this back out through your music, however, do not think too hard about this; it should be a feeling process, not a thinking one; simply set the intention.

If the space is particularly echoic, allow sound to very slowly develop and evaporate, unless you intentionally would like moments of cacophony, which can also be interesting. Allow the music to be shaped by how the space makes you feel, and by how the acoustic affects the sound. Interweave and interact musically with the other performer/s but in a way that is sensitive to and respectful of the space. Play one long movement in one mood that feels right, but moving organically through different moods if that also feels right. Perform for however long it takes to sonically explore the potential of the space. The performance will finish naturally once the performers feel that they have fully explored and expressed their inner response to the environment.



Tunnel Vision

Find an abandoned, long railway tunnel in a secluded location. Preferably one used for the transportation of slate or coal to the coast so that the memory of some sort of mining history is stored within its walls.

Requirements

- Minimum of two performers (no maximum), one of whom should be a clarinetist or saxophonist capable of circular breathing. For this piece it is also particularly important to include non-musicians as well as musicians
- Non-precious musical instruments (voices and percussion instruments should be included). Each person can experiment with more than one instrument to find out what suits the player and also the space
- Long flexible piping from a DIY store, the correct width to fit a clarinet or saxophone mouthpiece in one end (also bring the mouthpiece)
- Enough head torches or torches for everyone
- Warm clothing and thermals no particular costumes are necessary for this composition
- Wellies (in case of pools of water which need to be passed through)
- 20 or more tea lights or free-standing candles
- Tissue paper or very thin paper
- Several lighters
- An audience or no audience

Walk along the tunnel, repeatedly testing the acoustic (by singing) until you find the area around about halfway through where overtones can be heard along with the notes you are singing. This will be your performance location. If unable to find this place in the tunnel, just estimate a point halfway along. Set up the candles, if there are alcoves (as most railway tunnels have), distribute most of the candles in these as through draughts will blow the candles out. The performers do not need to be well lit for this piece. The performer who will be working with the tissue paper needs to stand down wind of the other players and audience members. The saxophonist/clarinetist will be playing the piping. Depending on the length of pipe this will create a drone-like tone.

The performance

tuning into the self to find out how the space is reflected within then reflecting this back out through your music. However, do not think too hard about this; it should be a feeling process, not a thinking one; simply set the intention. Allow the music to be shaped by how the space makes you feel and how the acoustic affects the sound. Experiment in particular with the overtones and harmonics created by the tunnel. Interweave and interact musically with the other performer/s in a way that is sensitive and respectful of the space. When the moment feels right, the person with the tissue paper should light one sheet at a time of the paper and allow the wind to carry the lit paper down the tunnel. The performance will finish naturally once the performers feel that they have fully explored and expressed their inner response to the environment.

All players begin to improvise, actively responding to the space,

Find an abandoned, derelict "mental asylum" in a remote location. Visit in mid to late autumn, when the leaves have already begun to fall from the trees and the days are shorter. Visit before daybreak, but aim to be playing by the time light has begun to creep through the building.

Requirements

- Minimum of two musicians or non-musicians (no maximum)
- Non-precious musical instruments. Each person can experiment with more than one instrument to find out what suits the player and also the different spaces.
- A battery-controlled transistor radio
- Enough head torches or torches for everyone
- Warm clothing/thermals underneath if necessary
- Wellies (in case of pools of water and boggy areas)
- No audience unless you can gather a few people who you can trust to behave with deep respect and who will adhere to being in a state of quiet calm and non-sensationalising at all times whilst on the property.

Whilst walking around the building and the grounds, it is important to hold the correct intention. This is a sensitive venture and should be done with a very respectful attitude and state of mind. Walking around the building may at times be disturbing as many atrocities against particularly vulnerable people are likely to have taken place there. Keep tuning into the body and not the mind as the mind may try to sensationalise the experience. Some areas in the building may feel particularly dark and oppressive, and some areas will be dangerous to walk in (due to collapsing ceilings and floors). Have an agreement with the other performers to all be tuned into what feels right and what does not feel right, and to keep quietly consulting with one another as to whether everyone feels ok about entering rooms and to not cross any personal boundaries that feel might make one physically unsafe or potentially damaging to the psyche. Also, whilst on the property, have an agreement to speak in low voices or whispers at all times.

Seeking an Asylum

Find an area or room that feels like it contains enough space for your being and for your music to be able to breathe through the atmosphere. Set up the space ready for performance.

The Performance

After a few moments have passed and the time feels right, all players begin to improvise, actively responding to the space, tuning into the self to find out how the space is reflected within, then reflect this back out through your music. Do not think too hard about this; it should be a feeling process, not a thinking one; simply set the intention. Use the radio as an instrument, performing the white noise and vaguely tuning in and out of stations. After playing one piece, if it feels right, move to another location in the building and play another piece. Play as many times as feels accepted by the building. You will know when it is time to leave.

Find an abandoned, derelict mansion in a secluded place. The mansion should be so derelict that nature has taken over completely, filling the insides of the building with trees and plants. Visit at nighttime.

Requirements

- Minimum of two musicians (no maximum)
- Non-precious musical instruments. Each person can experiment with more than one instrument to find out what suits the player and also the spaces.
- Enough head torches or torches for everyone
- 2 portable chargeable bright lights (ready charged) to illuminate the players whilst performing
- A variety of Masks preferably venetian harlequin -like masks and dark cloaks for all performers
- Warm clothing/thermals underneath if necessary
- Wellies (in case of pools of water and boggy areas)
- An audience or no audience. If an audience is invited, an usher will be required someone who can guide the audience to the correct starting position and who knows when the performance has ended and can guide them away, whilst maintaining and holding the somber atmosphere.

For this piece, the performers will need to adopt a character according to the way that the mask they choose affects them, in addition to how the building affects them. They should move in a slow, solemn, ceremonial way with no talking and every gesture be made with intention. Even though the music itself will be improvised, the physical movement around the building needs to be agreed upon beforehand so that the musicians can stay in character whilst progressing from room to room during the actual performance. This means that the performers should decide which rooms are to be used before the performance takes place (it will be necessary to arrive earlier than the audience if an audience is expected). Assuming there will be many rooms and possibly even many floors to choose from, find rooms that feel most interesting and attractive to the players and which vary enough to evoke a variety of musical moods. There needs to be a minimum of 3 movements, each one performed in a different room. The movements need to be very consciously mood-driven by the feel of the room in which the movement takes place. Once the rooms have been decided upon, practice setting up the performance space in each one, placing the lights in discreet positions and working out where each performer will stand. This is again to avoid breaking out of character during the actual performance.

Anarchic Aristocratics: Night Music

The performance

Once the performers have decided upon the locations to be used, they should place on the masks and cloaks (if an audience is expected, the costumes should already be on and players in character by the time the audience arrive). For this performance there should be no interaction by the performers with the audience it is as if the performers are ghosts of the house, unaware of the passing of time. A solemn attitude should be undertaken, and the performers should allow the masks to affect every movement they make and every note they play. All players begin to improvise, actively responding to the space, to the other players and to the masks, tuning into the self and allowing the music to flow. Interweave and interact musically and theatrically with the other performer/s in a way that is sensitive to and respectful of the building. At the end of each movement, walk solemnly, with slow ceremonial movements and no talking to the next room, staying in character and not removing the masks. Each movement should be allowed to finish naturally. When the full performance is finished, the usher needs to silently gesture for the audience to follow them away from the performance site.

During the spring months, find an abandoned, derelict mansion in a secluded place. The mansion should be so derelict that nature has taken over completely and the insides of the building are filled with trees and plants. Visit the mansion in time to set up and be performing just as it is getting light and the bird dawn chorus at its loudest.

Requirements

- Minimum of two musicians or non-musicians (no maximum)
- Non-precious musical instruments. Each person can experiment with more than one instrument to find out what suits the player and also the different spaces.
- Enough head torches or torches for everyone
- Warm clothing/thermals underneath if necessary
- Wellies (in case of pools of water and boggy areas)
- An audience or no audience

This piece is much lighter in character than Night Music, even if it is being performed at the same location. Once the performers arrive, find a room that is particularly dilapidated so that the sounds of birdsong, either from outside or inside, fill the space.

The Performance

Once set up and instrumentation is chosen, meditate for a few moments, accepting the birdsong to be a soundscape for you to sensitively rest your notes within. These plants and animals have made this building their home now, they have adapted it to become theirs, and you, as a musician, are momentarily, respectfully joining them in their environment.

Anarchic Aristocratics: Dawn Music

After a few moments have passed and the time feels right, all players begin to improvise, actively responding to the space and birdsong, tuning into the self to find out how these external influences are reflected within, then reflecting this back out through your music. Do not think too hard about this; it should be a feeling process, not a thinking one; simply set the intention. After playing in one area, if it feels right, move to another location in the building and play another piece. Gauge how many movements and how many spaces are performed within by the length of the dawn chorus. When it calms and becomes quieter, follow it musically and do the same. When it feels like the right time to do so, stop playing.



8. Aria from Lost on Mars (2018)

5.5 minutes long

This Aria was written as a commission for a workshop with Music Theatre Wales in June 2018. The piece was written in collaboration with Luke Moore, a creative writing PhD student who specialises in screen writing. The opera: *Lost on Mars*, is an imagined opera, the story of which tells of a young girl displaced from her homeland and people due to the modern day refugee crises. Mars is a metaphor for the isolation the young girl feels in her new environment.

The Aria contains elements of both nature and indigenous life. Within the Libretto (included in the appendices) Luke gave very vivid descriptions of the landscape and the feelings of the girl, so I had to think quite specifically about how one environment could be represented in different ways. For example, the bleak desert at the beginning remains the same setting at the end, but at the end there is hope attached to what the girl is experiencing. I represented this by using different chords, chords that for me, initially, sound unforgiving and barren, and represent the alien planet of Mars. But at the end, in the same location, the chord has a warmth.

I have also included elements of magic and ritual quite literally by incorporating drumming between mm. 28 and 74, and also in mm. 41 a viola plays a little motif which is intended to suggest the call of an elder (which is written into the Libretto where the girl has a flashback).

The Aria also attempts to convey aspects of war, in particular between mm. 36 and 41, with the glissandi Celli and Violas representing war planes, whilst the section of repeated violently clashing string chords evokes the unbearable heat of the sun.

There are two recordings within folder 2. In the full version, I am playing all the instruments and the mezzo-soprano is replaced with a viola. In the piano-reduction version, the piece is performed by members of Music Theatre Wales.

Katherine Betteridge

Lost on Mars

For

Mezzo Soprano
Timpani
Percussion (bass drum, sus cymbal)
2 Djembe
Gourd Maracas
3 Horn in F
Trombone
Bass Trombone
Strings (4.4.3.3.1)

Duration: ca. 5 minutes

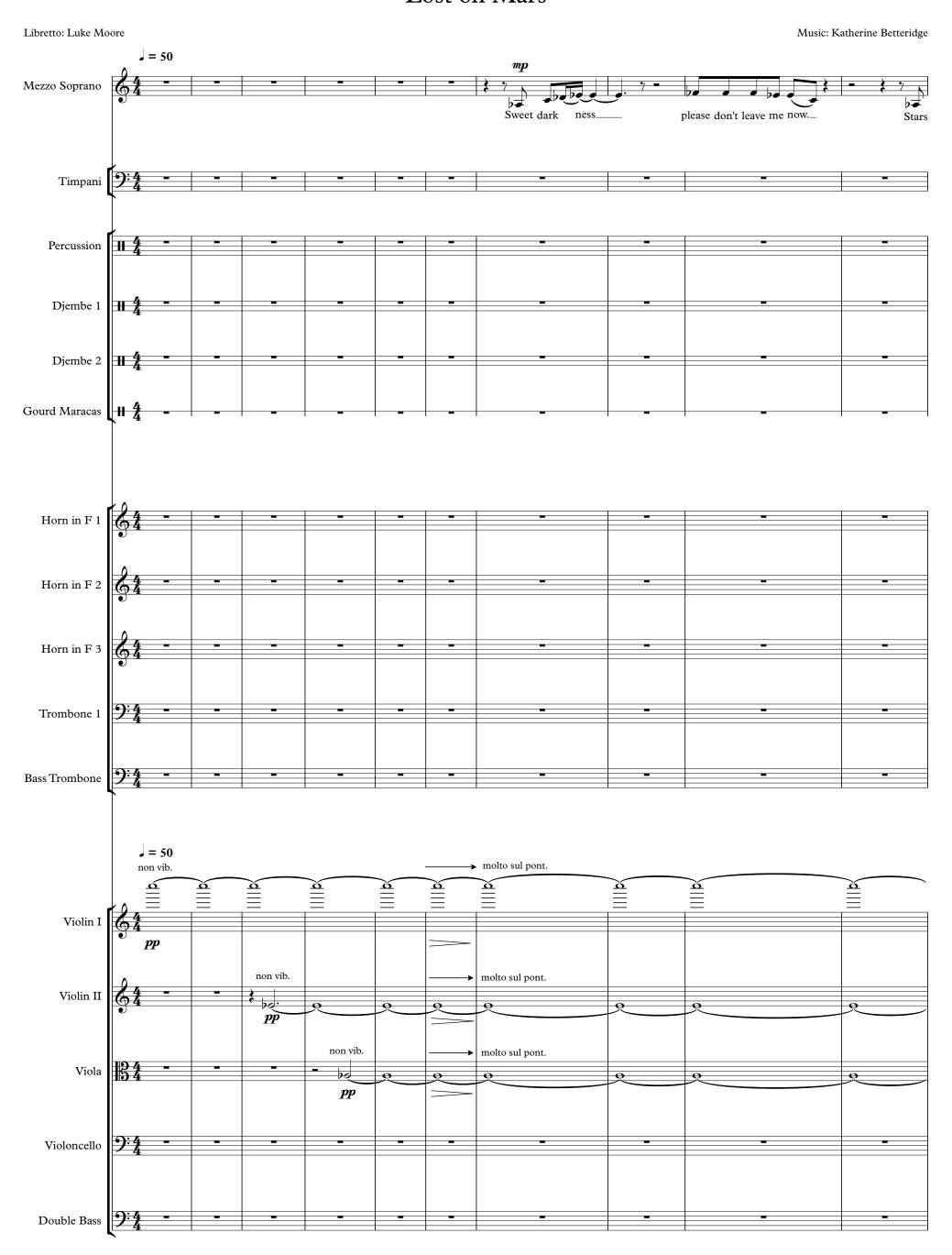
All instruments are notated at sounding pitch

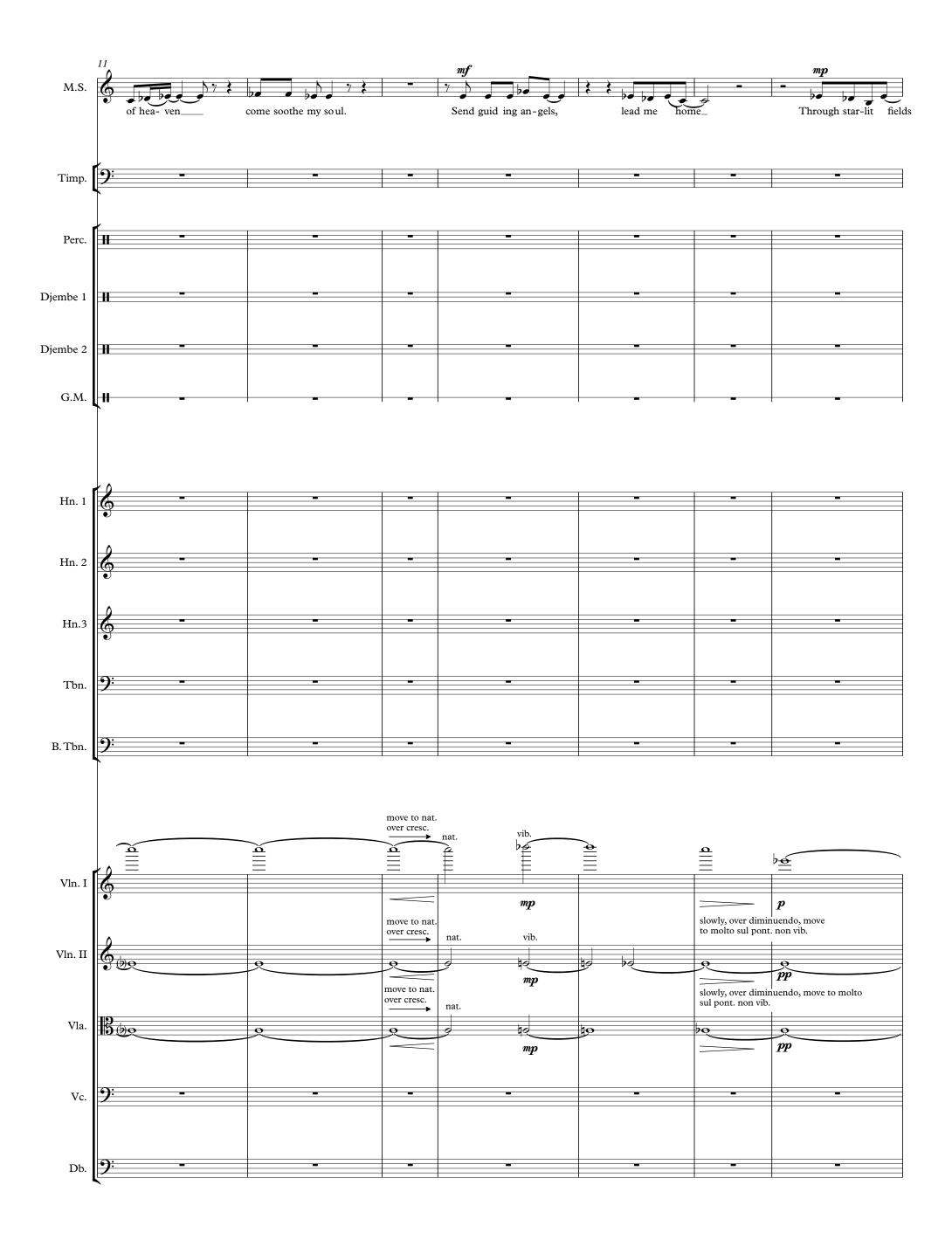
Libretto: Luke Moore

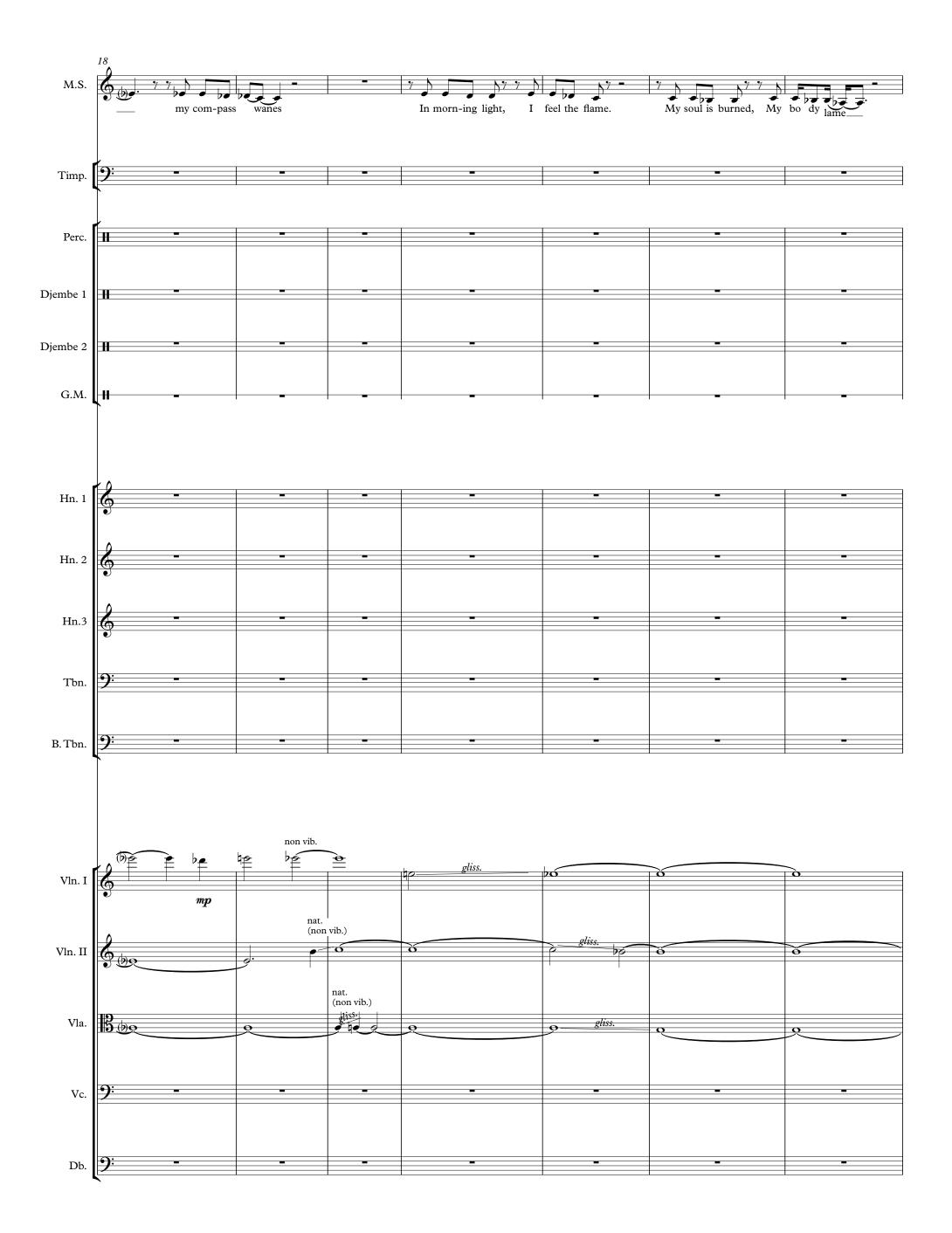
Programme Note

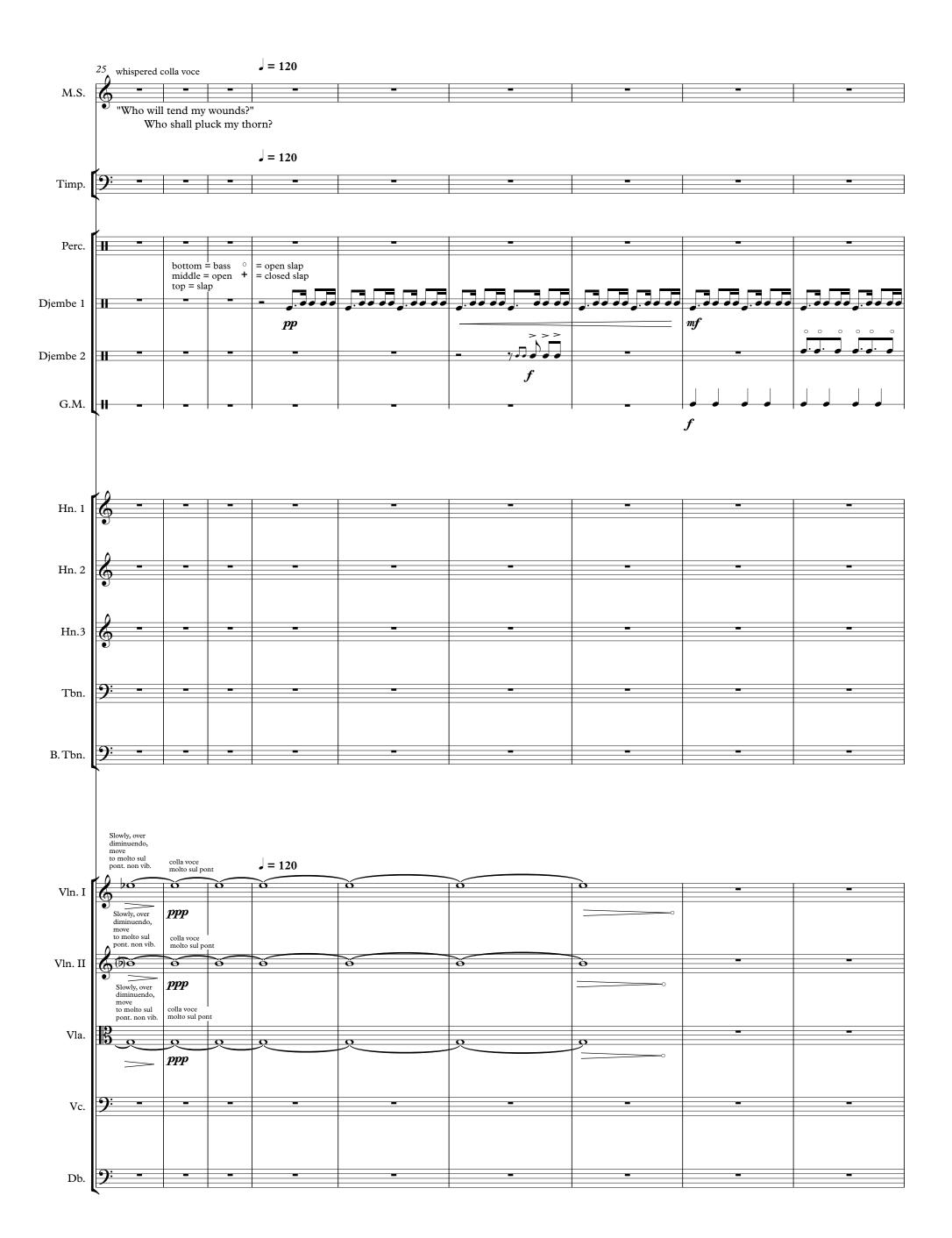
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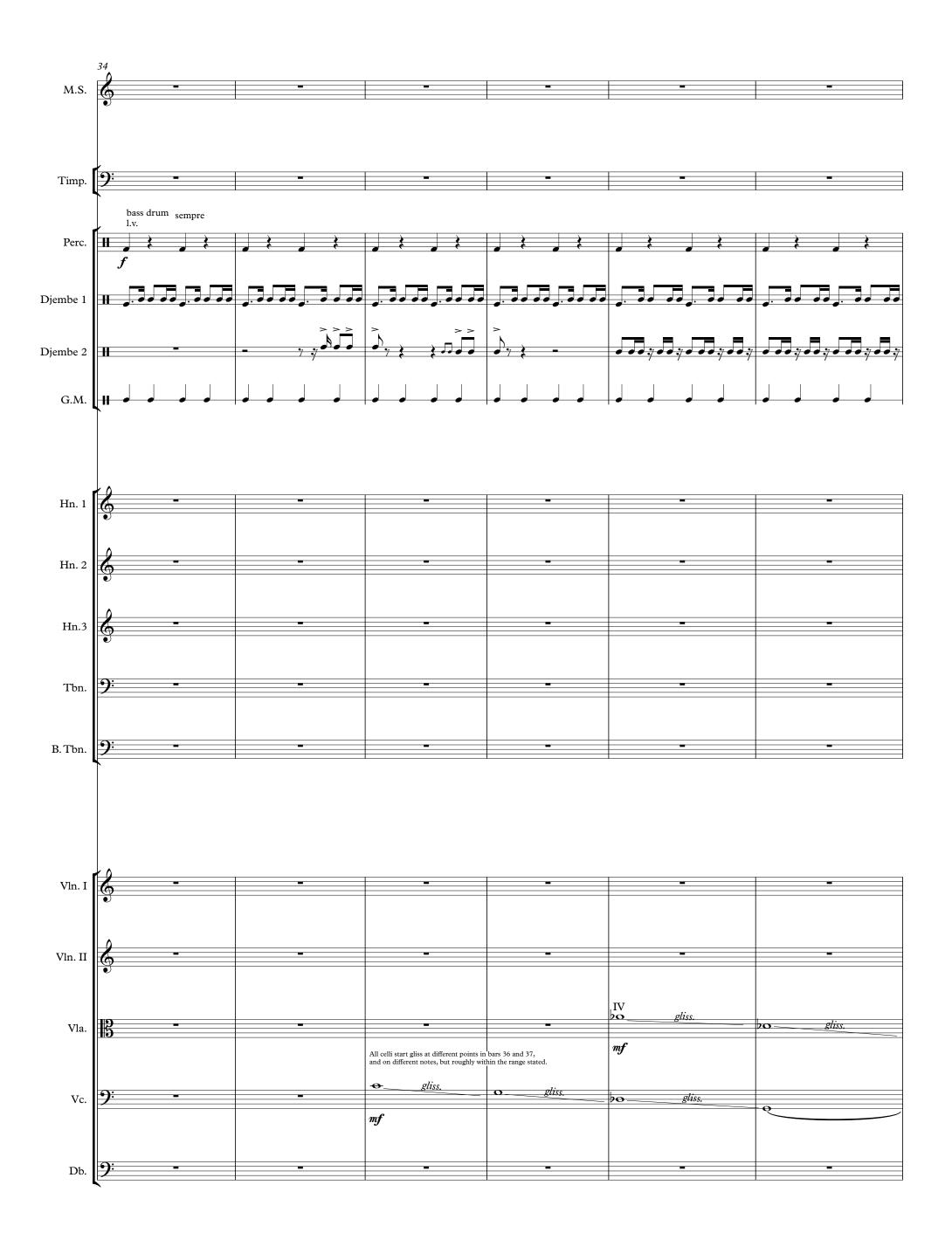
Lost on Mars

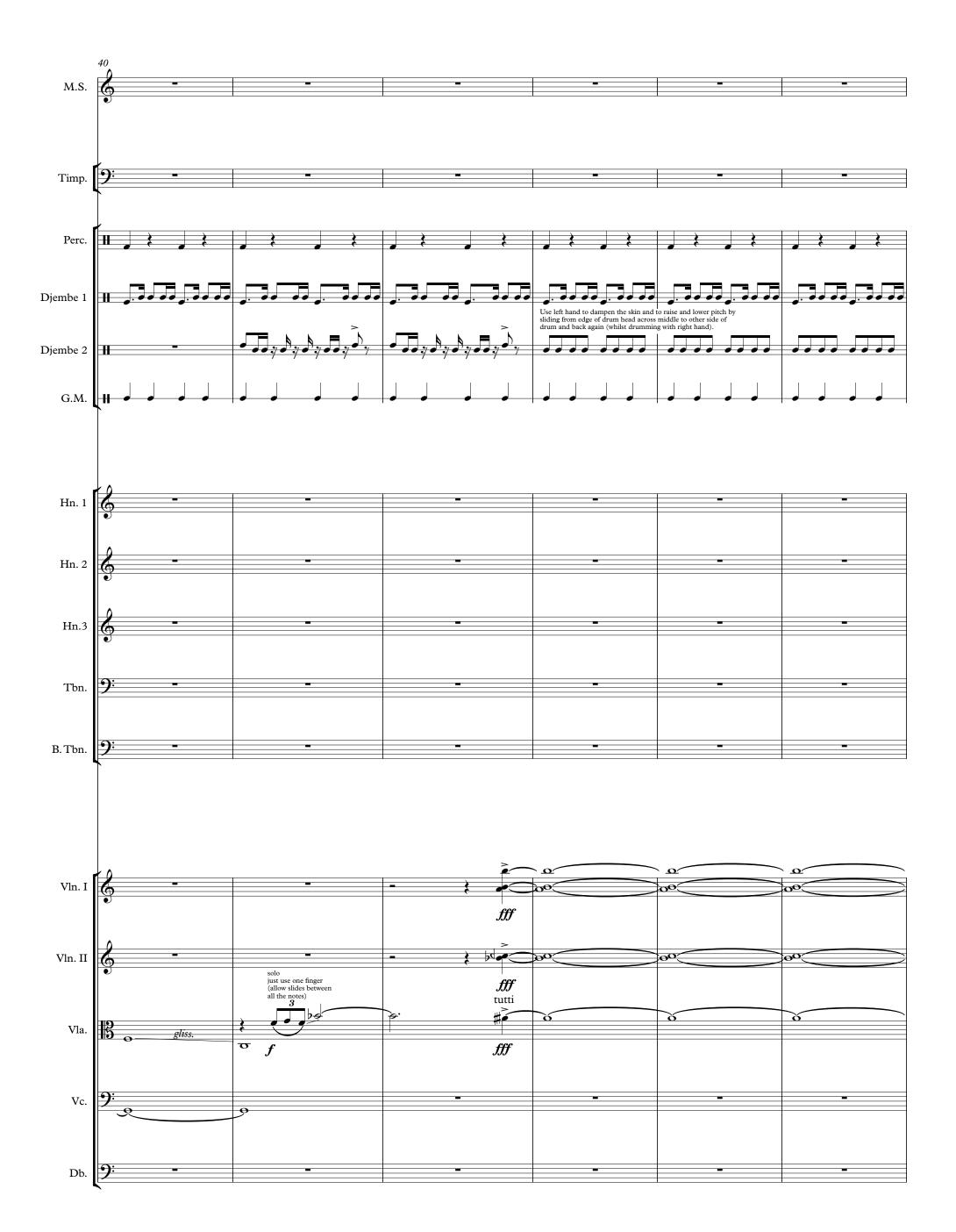


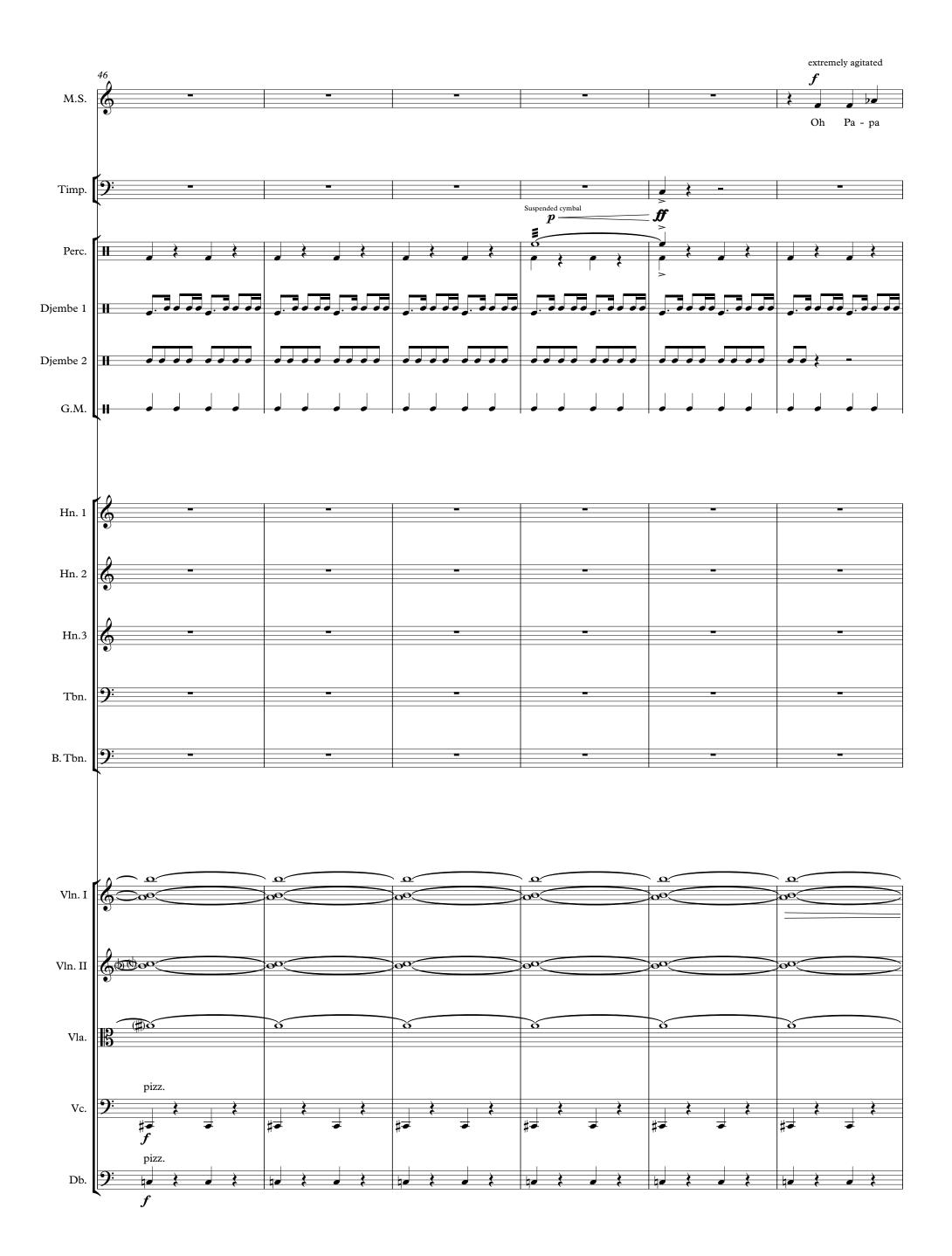


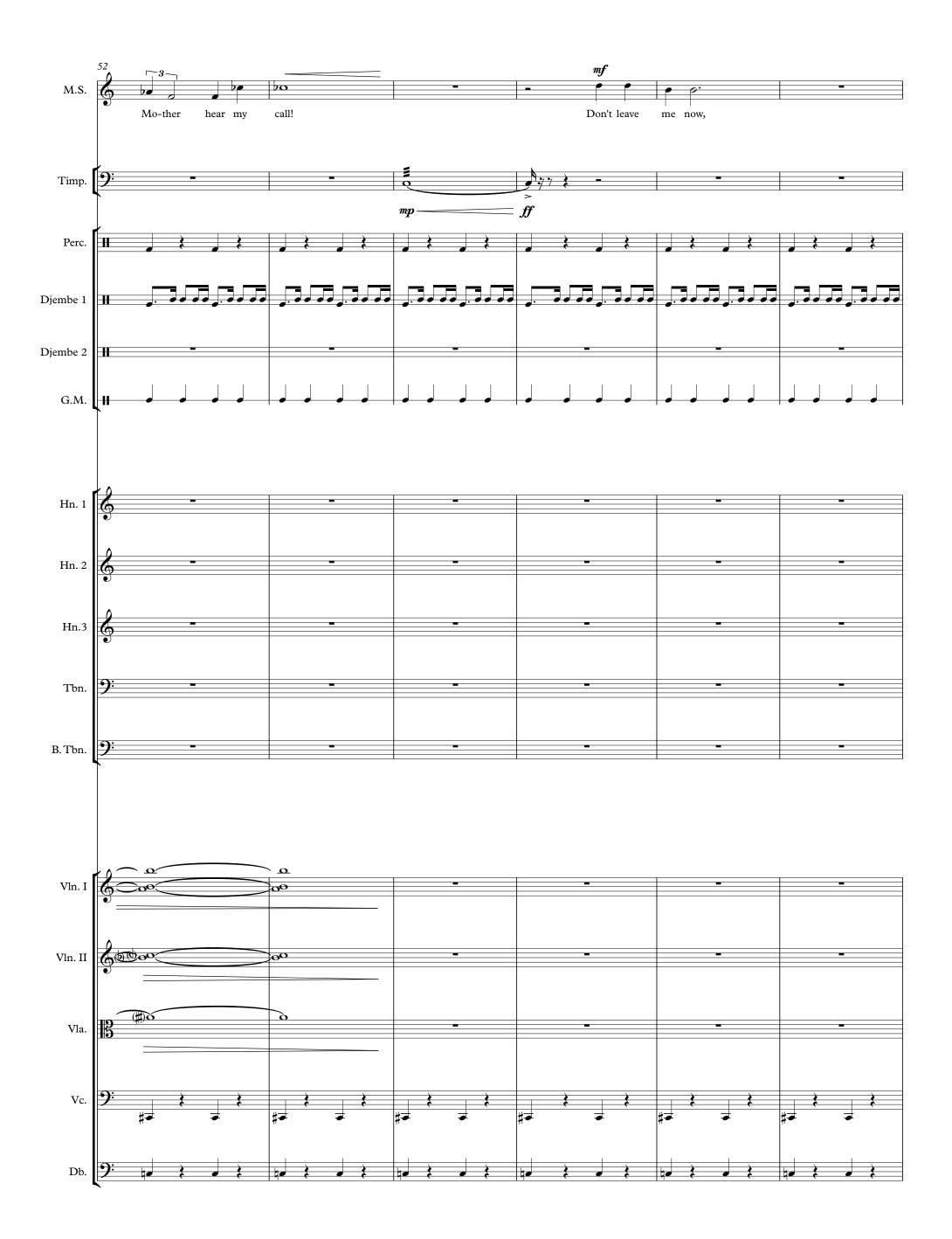


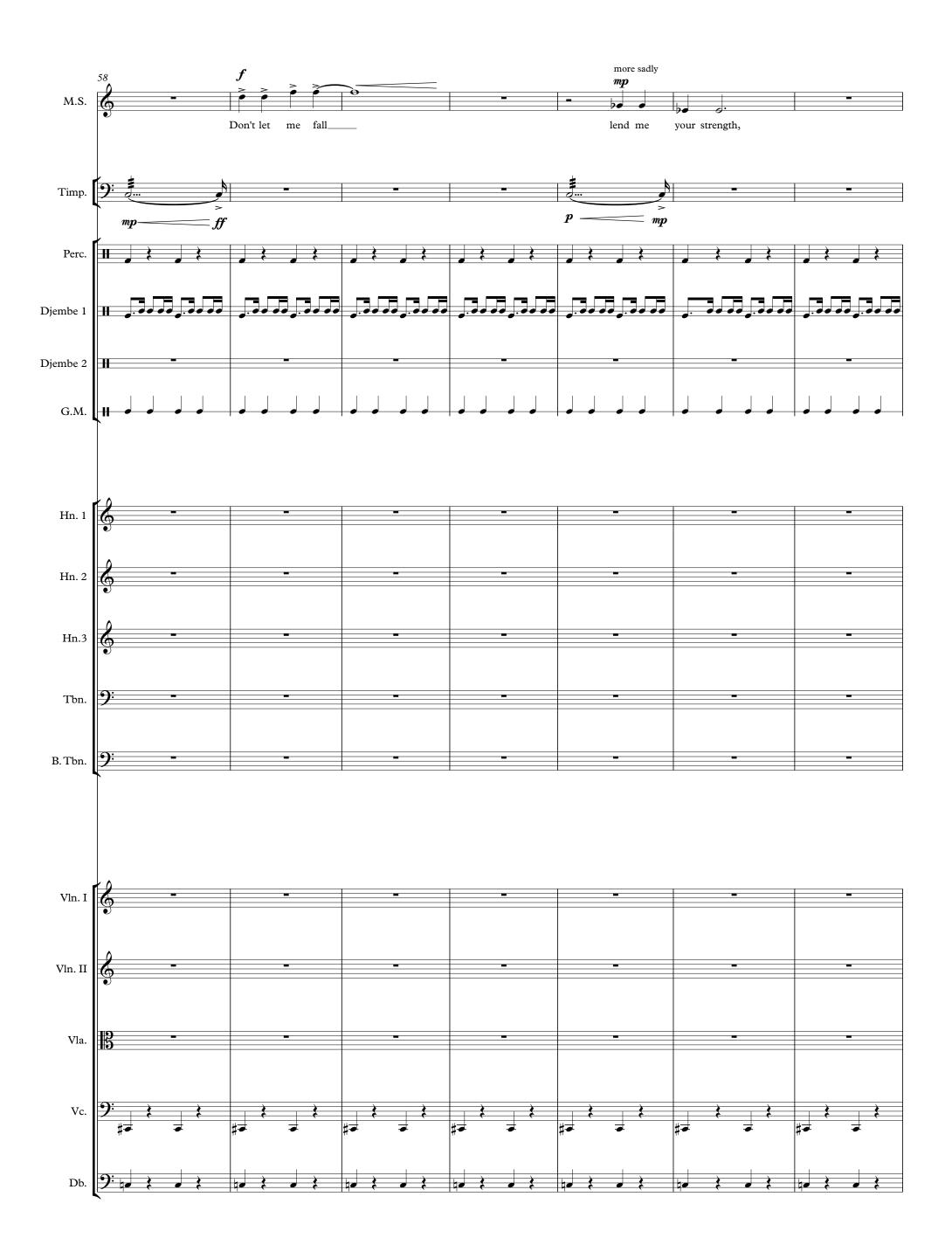




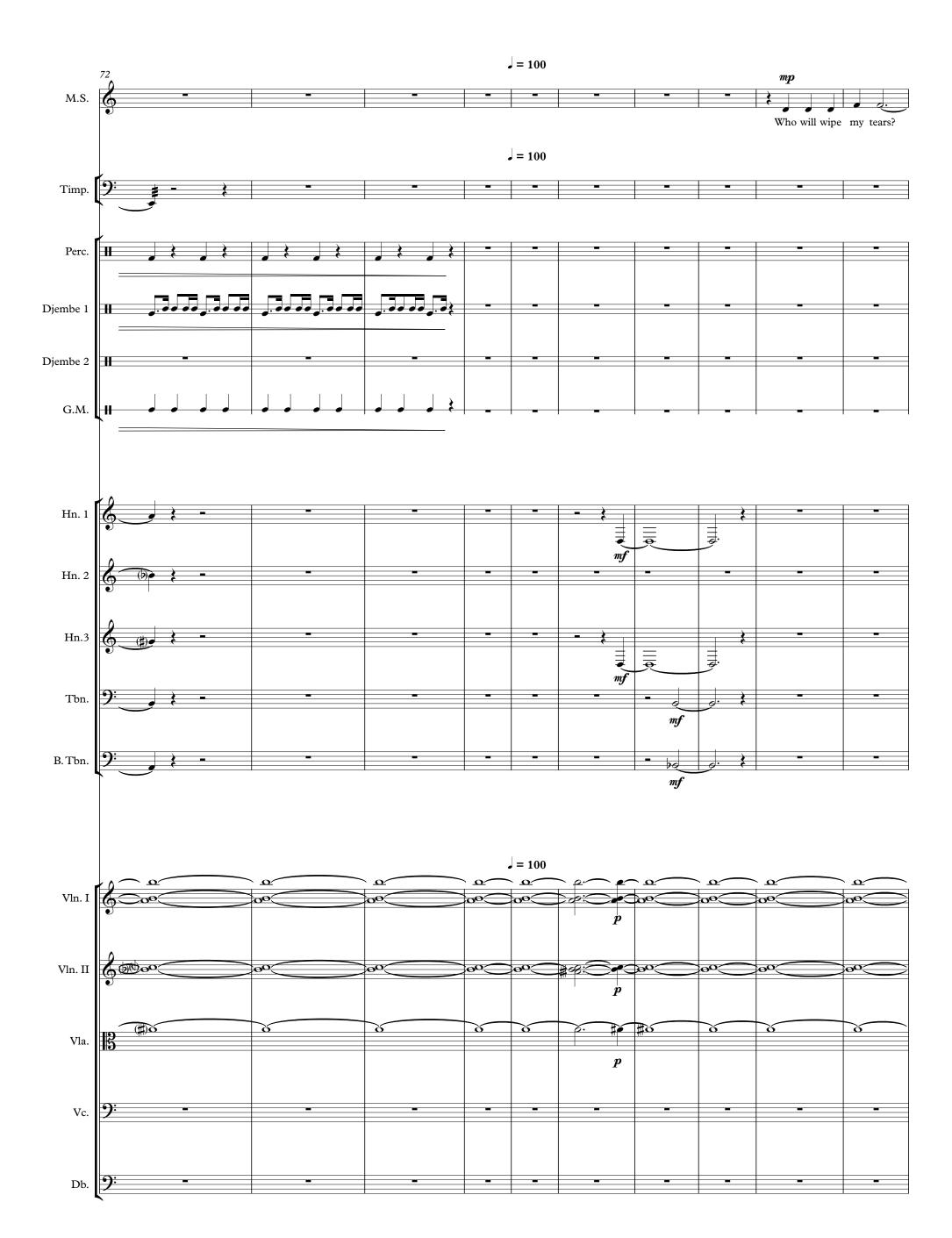




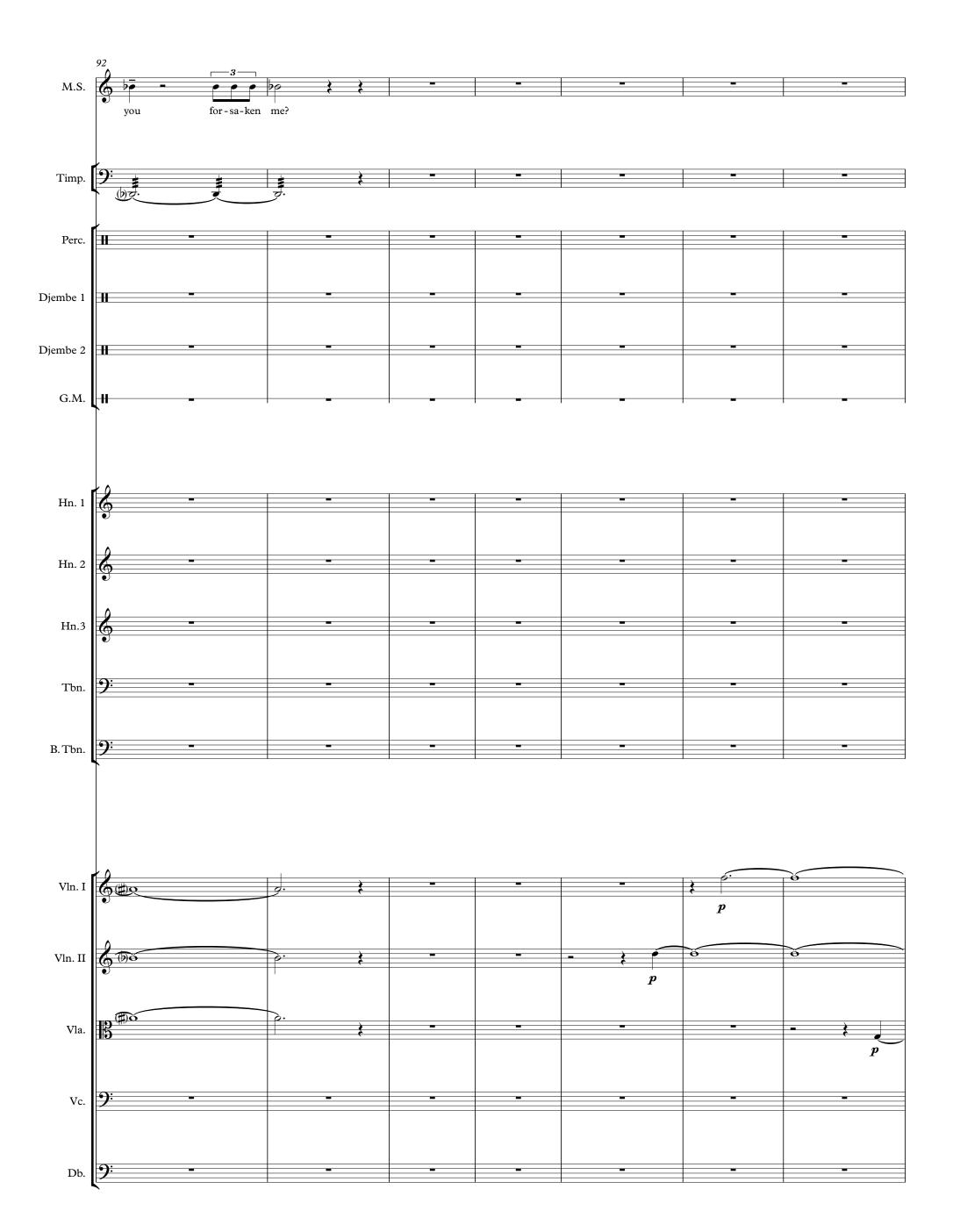


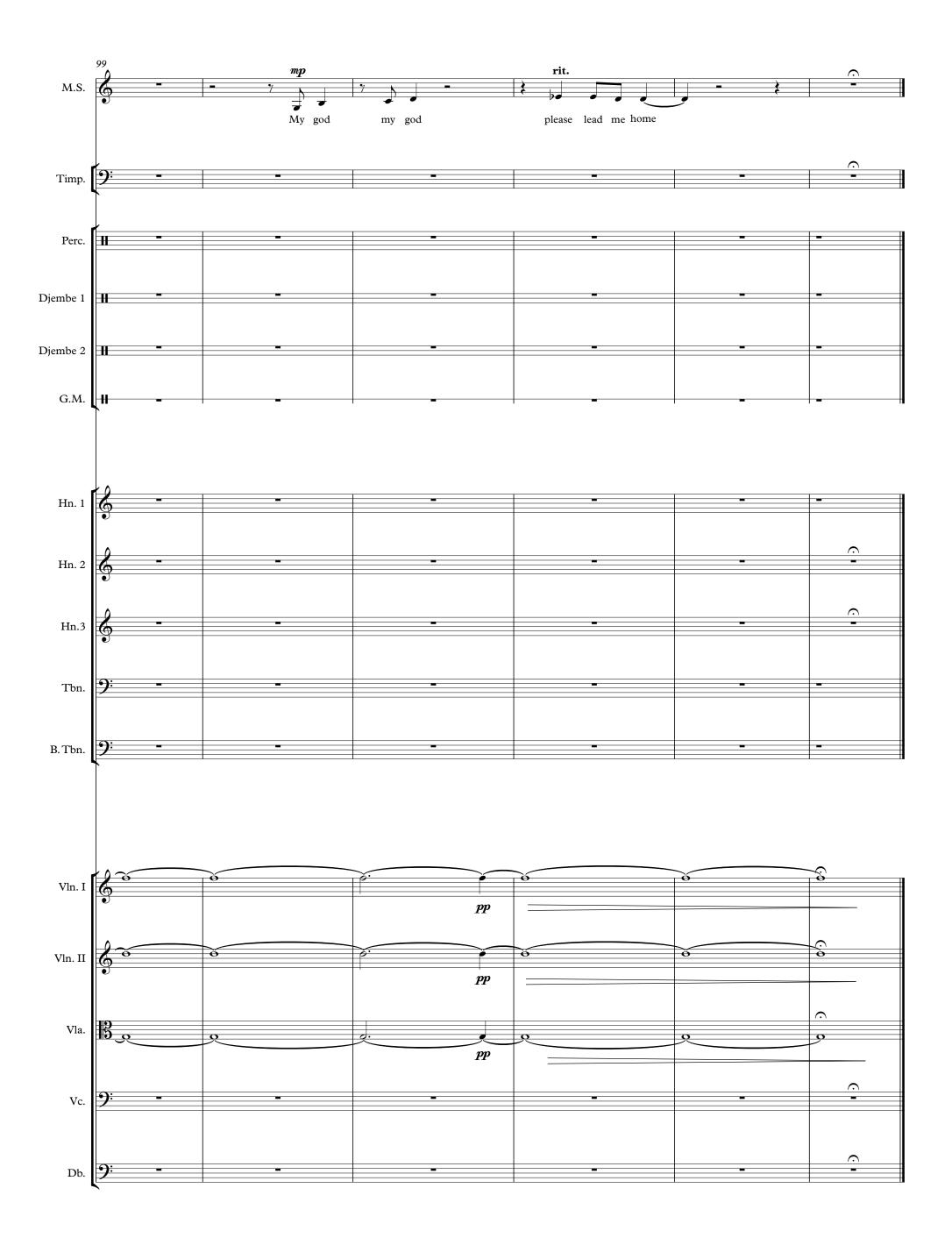












9. Turas (2018)

14 minutes long

Turas was the final piece of my research, completed in December 2018. The fish included in the recording are able to sing (over 800 species can sing) by rubbing muscles together in their bodies or by squeezing air through their swim bladders. Fish can create a variety of sounds, some of which resemble very long low drones, whilst others emit staccato-like notes. I made contact with a Professor Robert McCauley, a marine biologist from the Centre of Marine Science and Technology at Curtin University, Western Australia, as I had discovered he had made lots of recordings of singing fish. He kindly sent me a variety of recordings that he was happy for me to use in my composition. I have included the singing fish within the electronics, along with my own hydrophone recordings.

Many of the sounds of the metal objects or fish have not been manipulated or treated and remain as they sounded underwater. When I listened back to the recordings, I was very surprised to find that the water, in particular the river, (as opposed to the recordings done in a lake or in the sea) had distorted many of the sounds, creating in the process interesting and unusual versions of the originals. I had expected the sounds to be either muffled by the water or to be virtually inaudible, but I felt they had absorbed the energy of water itself, causing them to mutate considerably. Some of the sounds, however, have been modified by being stretched or played in reverse, and this will be apparent in the recording of the piece. In the vocal recordings, the actual sounds I made were two to three seconds in length. This was modified in the final recording and I stretched the voices across long sections of the full 14-minute piece – the first 7 minutes is an example of this vocal stretch. The river in the background adds a rumbling quality, which sounds to me like the sound the sea continuously makes. This rumbling sound is magnified by stretching the recording over time, and to my ears, the voices have consequently taken on an otherworldly quality. I could have recorded some of the sounds in a studio and electronically manipulated them to sound as I expected them to sound underwater, but this would have resulted in nothing like the effect that real water has had. I feel that it is these natural sounds and the presence of the real water in the recordings that helped shape the composition as a whole, as the score essentially grew from the recordings. Within the electronics are also recordings of wine glasses with varying amounts of water in them to create a spectrum of notes.

The poem I recite in the piece is by Rainer Maria Rilke as it expresses how the darkness has many meanings, and can lead to deep and meaningful growth. It also seemed relevant to the feelings I had experienced when in the company of the gigantic sharks.

I wrote two earlier versions of *Turas* before starting on the final one. Both of these were written by trying to work out the piece intellectually. Over a period of many weeks I attempted to fit together the fish song and hydrophone recordings and write notes that complemented the sounds, but this left me feeling extremely frustrated. As a result I decided to strip the work back to basics and drew a visual sketch of the seabed with a plan indicating the most appropriate locations for the various orchestral instruments:

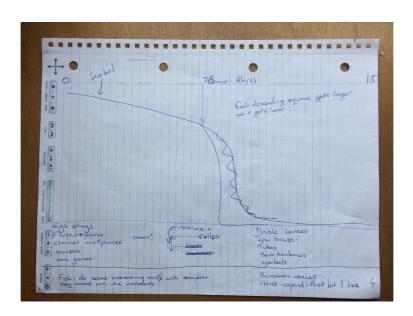


Figure 1: Sketch of the topography of the seabed, used to decide where instrumentation should be placed in the composition.

I then improvised on both the violin and the computer with synthesized orchestral instruments alongside the fish song and hydrophone recordings. It no longer felt as though I was forcing myself to compose, but rather as though the process was

happening spontaneously, and the entire 14 minutes of the final piece of music came together in two days.

In Turas, I have used both actual and suggestive sounds to represent a variety of water-related subjects. Throughout the first half of the piece, between mm. 47 - 82, the woodwind and brass copy the sounds of fish singing from the electronics. They either copy real fish sounds, imitating the fish in a call and response manner, or they play sounds and patterns I have created that sound similar to the real fish. I also copied a sperm whale song in quite a literal way in the piece – the French horn does this imitation the first time in mm. 140, and the bassoon takes over between mm. 143 and 148. Less literal and more suggestive is the glockenspiel between mm. 14 and 32, which is intended to represent sunlight on the surface of the water, but as viewed from underneath. Between mm. 14 - 32 first the clarinet then the flute play multiphonics. I was careful in my choice of multiphonics as I wanted to create an eerie and ethereal sound, representative of the underwater world – unfamiliar territory to humans, alien but very beautiful. Some of the flute multiphonics are taken from Will Offerman's *Etude 5*, as these combinations of notes have a particular shimmering quality.

The structure of *Turas* is the sea floor. The piece starts in the shallows with high strings representing the lush, rich, colourful underwater gardens of the shallow lagoons in the Cairns of Coll in the Inner Hebrides, Northern Scotland. The lagoons are full of different species of fish and beautiful wildlife and plant life.



Figure 2: Photo taken by myself in the lagoons at the Cairns of Coll, Inner Hebrides, Scotland, 2018

As the piece progresses, the water gets ever deeper, emulated by both lower instruments and gradual movement downwards in pitch from the higher instruments, and in the run up to mm. 114, the acoustic instruments and the voice in the electronics begin to peter out one by one. This is intended to represent the animal and plant life becoming sparser until all that remains being a rumble in the electronics. This represents the edge of an abyss (I had the drop off into the Mariana Trench in the Pacific in mind – a 7 mile vertical descent into what is known as the Challenger Deep – the deepest place of any ocean in the world).

After the recitation of the Rainer Maria Rilke poem, the crescendo horns and tuba in mm. 143 – 155 are intended to suggest large dark shapes of animals moving in the shadows, barely visible and just out of reach. The next few minutes of music represent the otherworldly, and sometimes grotesque, deep-sea fish, and the unexplored (by humans) plant and animal life in the deepest parts of the ocean. These are expressed either by orchestral instruments or by additional hydrophonic recordings, this time of metal objects being struck or dropped underwater. The swells in the instrumental lines throughout the music, first on the strings in the first half (mm. 33 onwards) and next on the timpani in the second half straight after the poem represent the currents and swells and movement of the sea.

In the recording located in folder 2, all parts are performed by myself. This was the initial improvisation, although I have refined changed some of the parts since then.

Katherine Betteridge

Turas (Journey)

For

4 Flutes (4th doubling Piccolo)
Oboe
4 Clarinets in Bb (4th doubling Bass)
Bassoon
Contrabassoon
4 Horns
3 Trumpets in Bb
2 Trombones
Bass Trombone
2 Tubas
Timpani
Percussion
Harp
Strings (12.12.8.8.6)

Duration: ca. 14 minutes

All instruments are notated at sounding pitch except for the usual octave transpositions

You darkness, of whom I am born
I love you more than the flame that limits the world
To the circle it illumines,
And excludes all the rest
But the dark embraces everything
Shapes and shadows
Creatures and me
People, nations just as they are
And it is possible a great presence is moving near me
I have faith in night

Rainer Maria Rilke

Programme note

Turas means 'Journey' in Scottish Gaelic and is an abbreviation of Turas a-steach don Dhoimhneachd which means Journey into the Depths. The composition relates to a journey into the depths of the sea, but it also refers to an inner journey, a journey into the depths of the human shadow and the soul.

The structure of the piece is based on the topography of the seabed, beginning in the shallows, first exploring the stunning and rich underwater scenery of lagoons and shallow waters, encountering a multitude of fish and other colourful wildlife, but gradually getting deeper and more sparse. At roughly the halfway point in the piece the music reaches an abyss: an underwater cliff face dropping vertically down for several miles. From then on, deeper and larger sea creatures are encountered, such as whales and sharks moving in the shadows beneath.

The electronics contain recordings of singing fish, and also recordings I made with a hydrophone in a river. The recordings contain passages of my own voice underwater,

metal objects being hit or dropped, and also a recorder being played half in the water. There are also recordings just before the end of the piece of a violin being played just above the water but recorded with the hydrophone from underneath.

The piece is inspired by, in particular, basking sharks, who I had the pleasure of swimming with in August 2018 in Scotland. I have dreamt of (dangerous) sharks and deep water my entire life, in terrifying dreams. They seem to be deeply archetypal images embedded in my unconscious.

Performance Directions

The strings are divided into sub-sections at many points throughout the music. Unless otherwise stated (e.g. "1 solo"), please try to divide parts equally between players.

Electronics

One accompanying wav. track with electronics and one mp3 click track for the conductor is provided.

A minimum of 2 speakers is required, however, more surrounding the audience is preferable. The wav. track is to be played from start to finish. Due to this, the orchestra will need to be metronomically precise so the click track will be necessary. Throughout the click track the rehearsal marks are read out, and there is a one bar count in at the beginning.

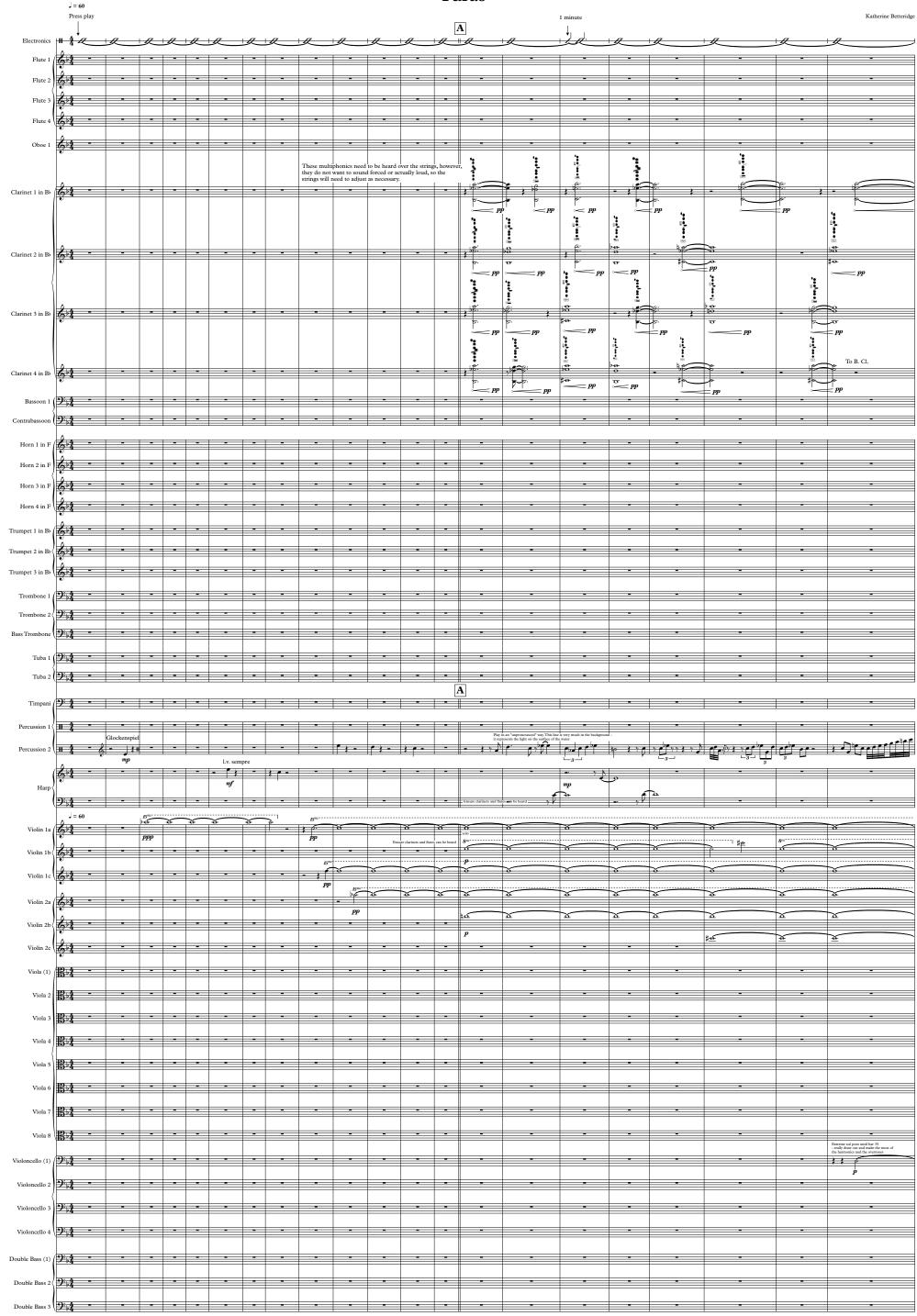
It might be easiest for rehearsal and performance purposes for the accompanying electronics wav. track to be played via pro tools (for access to bar numbers). Volumes should not need to be adjusted throughout.

Percussion

Percussion 1: Bass Drum

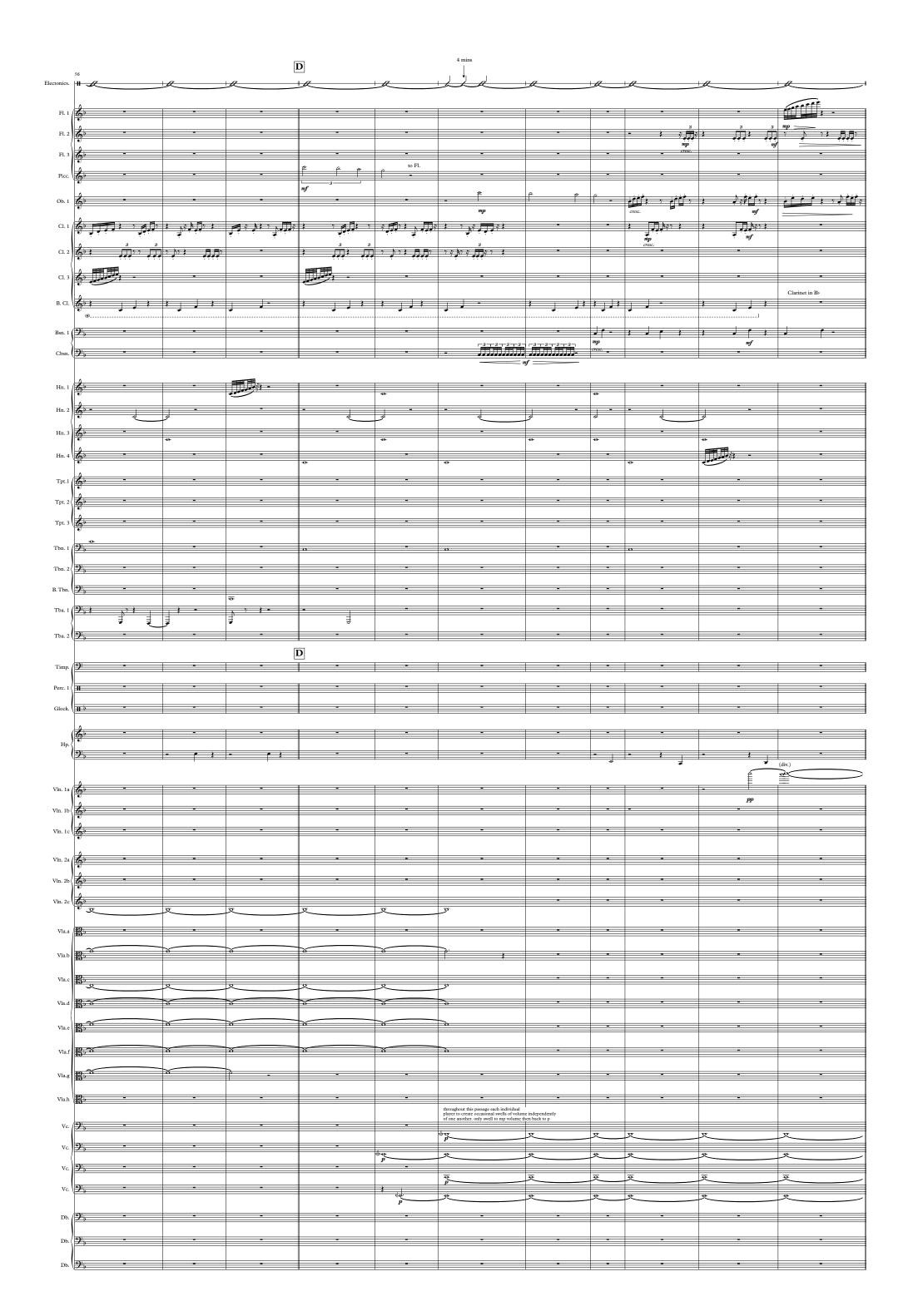
Percussion 2: Glockenspiel, Suspended Cymbal

Turas



Db. (2:5

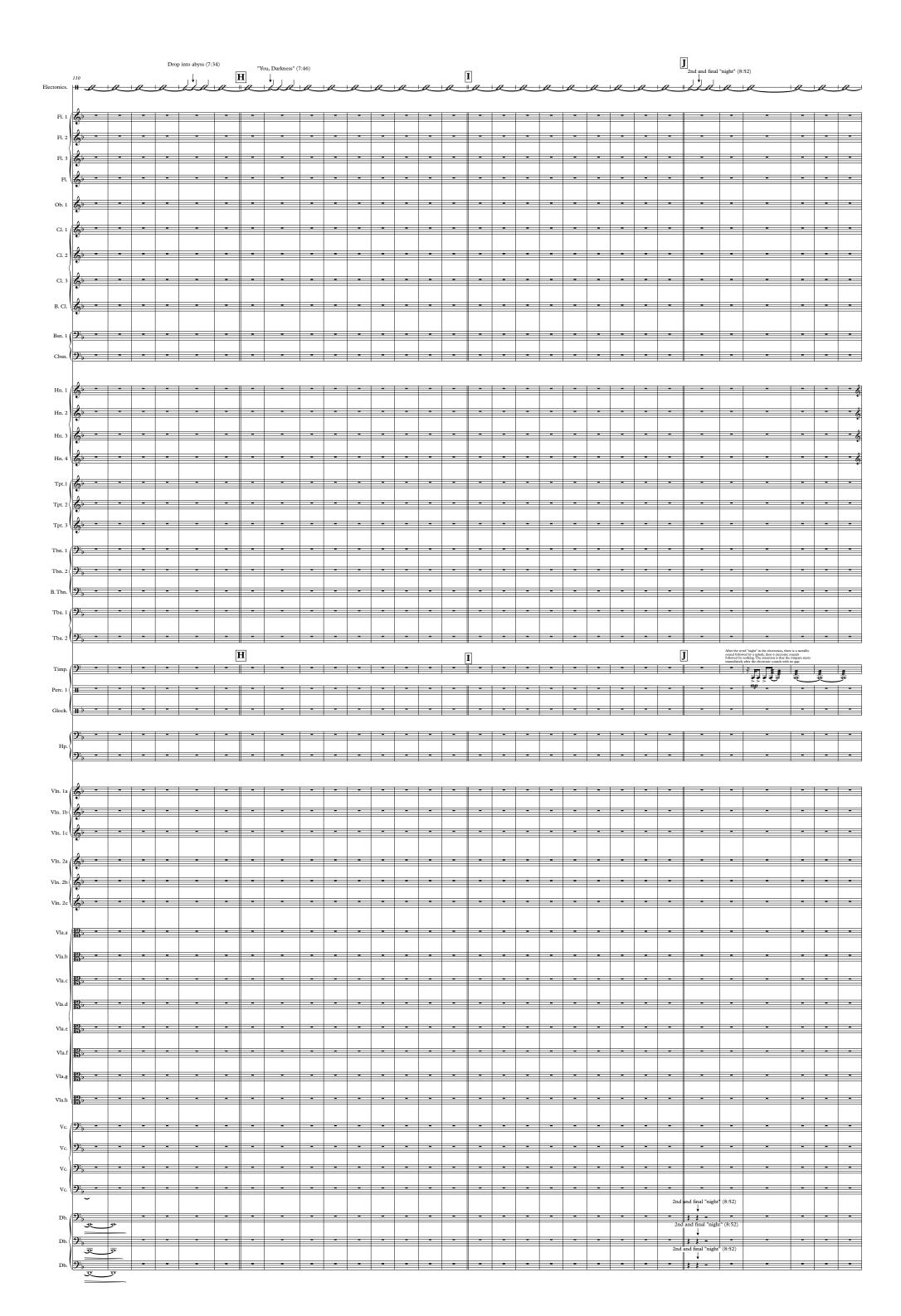
Db. 9:5

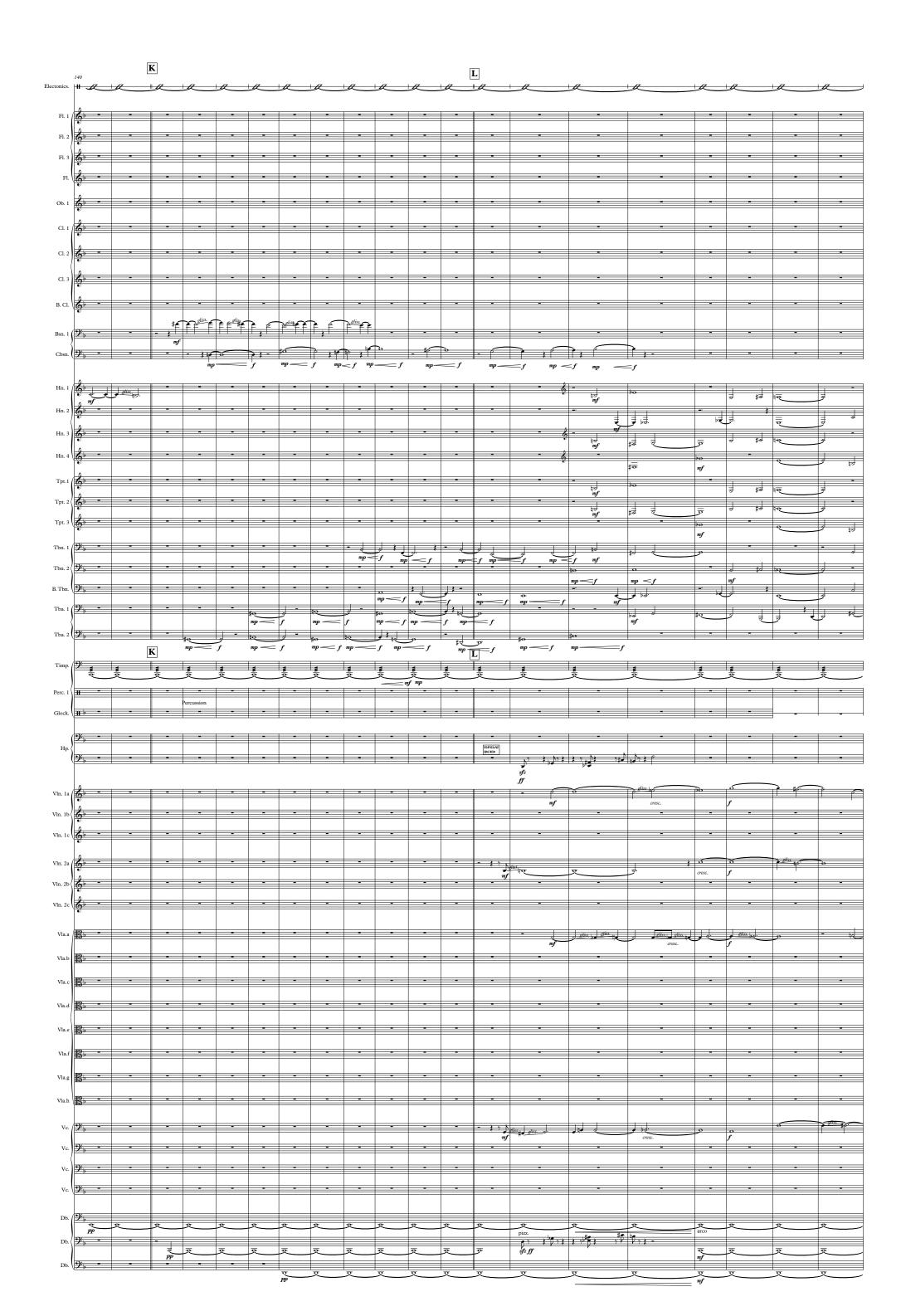






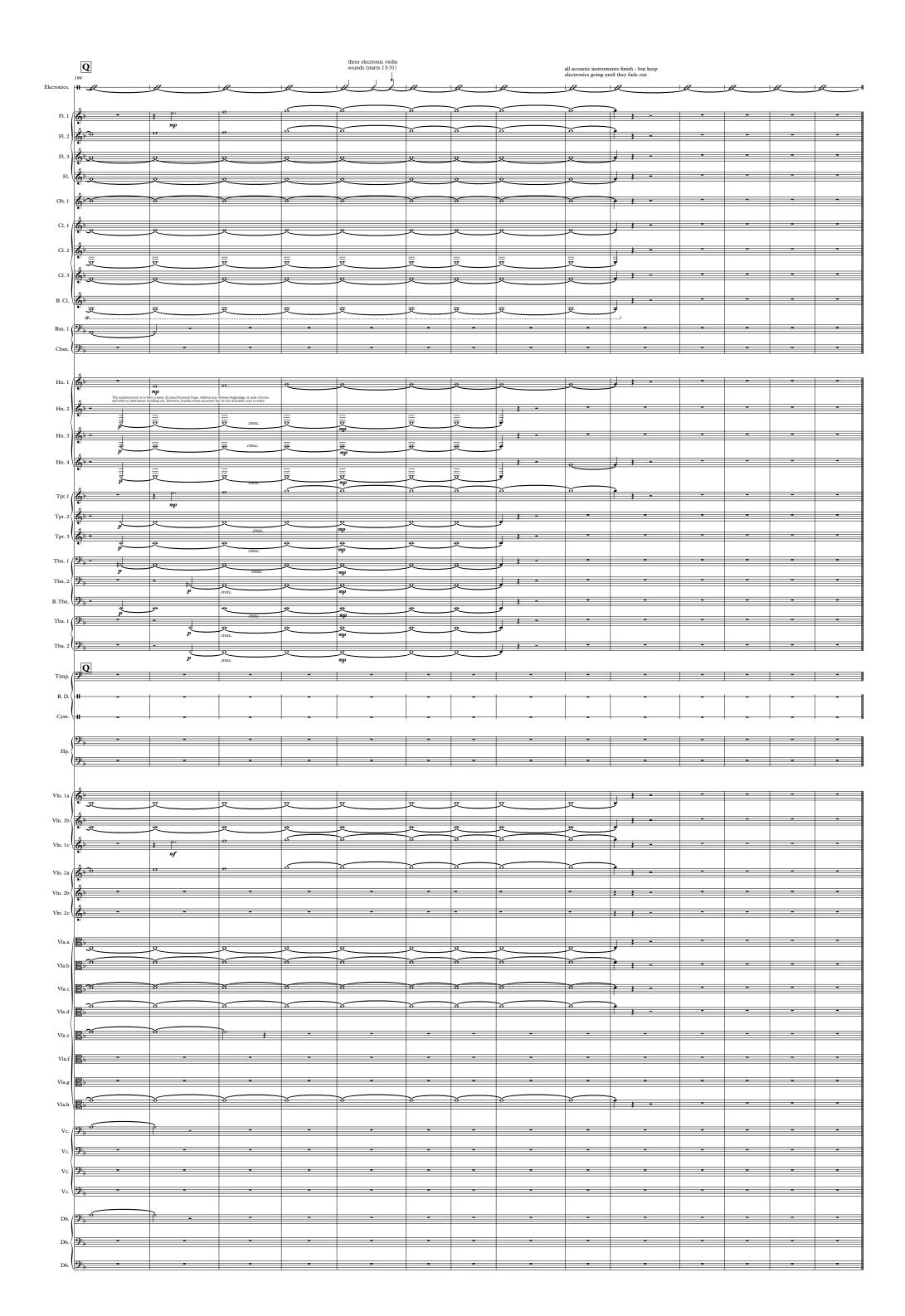












10. *Stjörnublik* for Piano and Clarinet in Bb (2014)

4 minutes long

This first version of Stjörnublik was written for a multimedia event called Lie Still

Sleep Becalmed, held at the University of Bangor, and was written for the clarinettist,

Hephzibah Leaf. The piece makes use of a range of extended techniques, one of

which involves the clarinettist playing notes directly into the inside of the piano. This

leads to the piano responding sympathetically by echoing the notes, plus harmonics.

The clarinet plays many microtonal slow trills and multiphonics throughout the piece,

intended to evoke the twinkling effect of starlight, and the use of the diminuendos is

intended to create the ethereal-like emptiness of space. The pianist is often required to

pluck the piano strings for more space-like ethereal sounds, or brush the lower strings

for deep rumbling sounds.

Stjörnublik plays with boundaries, mainly the boundary between the piano and

clarinet. The boundary between the two instruments is blurred as the clarinet uses the

piano as a resonating chamber throughout the entire piece. The clarinettist stands near

the piano and often plays directly into it, and the two instruments engage more closely

than usual in performance. Additionally, the piece requires the pianist to cross the

boundary of the edges of the keys and play a large part of the piece on the internal

strings.

In the recording located in folder 2, the recording was made in a studio and the

performers are:

Clarinet: Hephzibah Leaf

Piano: Gwawr Ifan

212

Katherine Betteridge

Stjörnublik

For

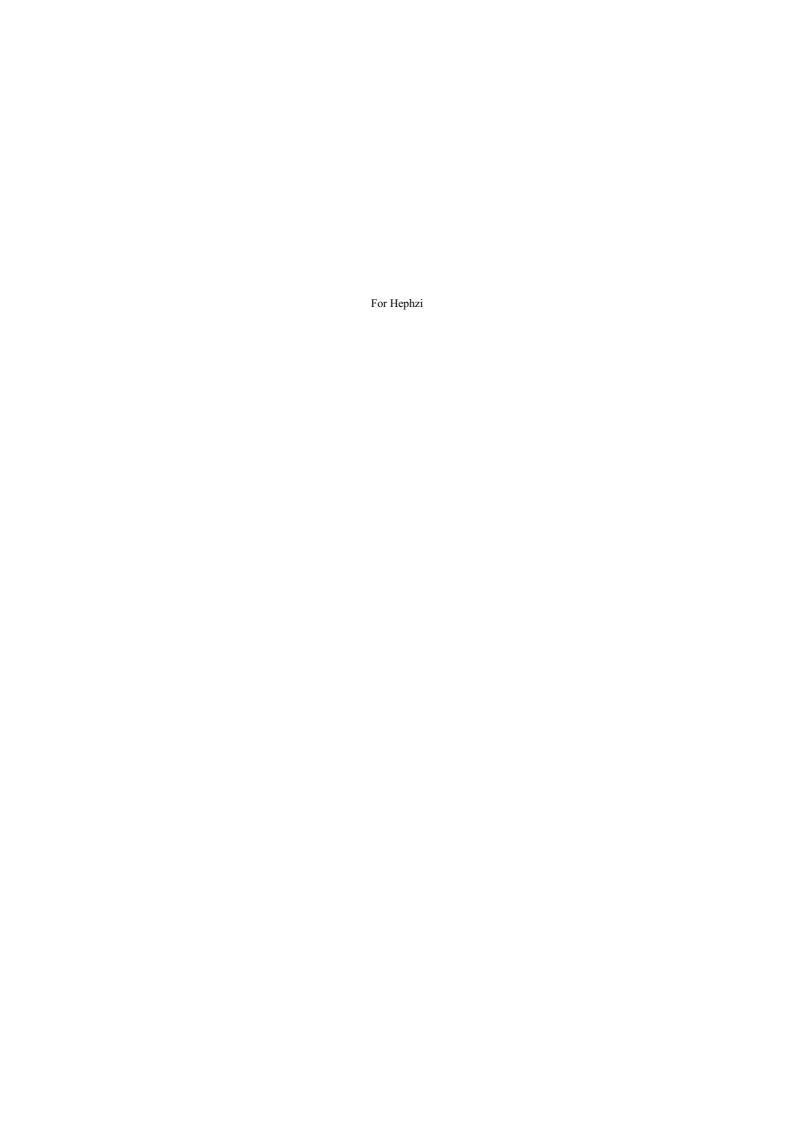
Clarinet in Bb and Piano

Duration: ca.4 minutes

All instruments are notated at sounding pitch



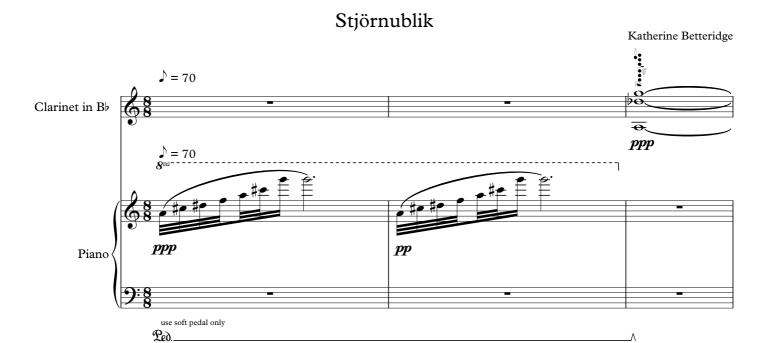
Painting by Katherine Betteridge

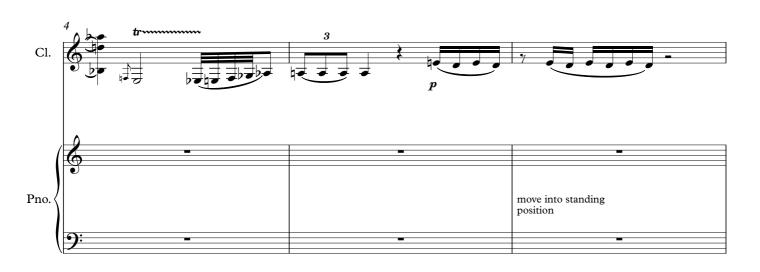


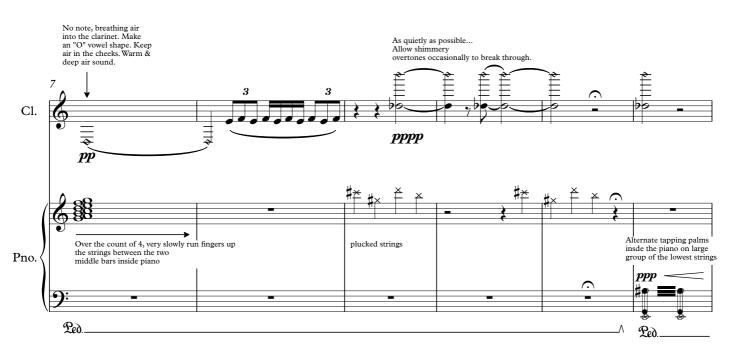
Programme Note

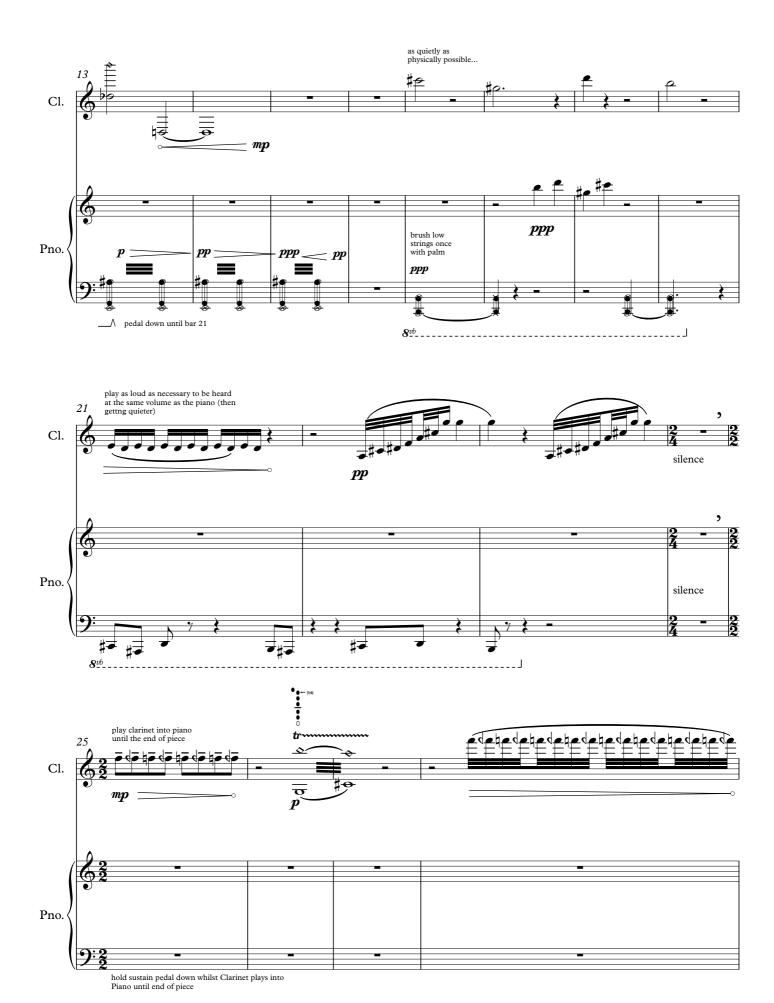
"Stjörnublik" is Icelandic for "starlight". There are many words in Icelandic for starlight, all with slightly different meanings. This particular word refers to the twinkling effect that stars appear to have. *Stjörnublik* was inspired by a trip I made to Iceland one December, when the nights were extremely long, and the starlight and cold snowy environment very magical.

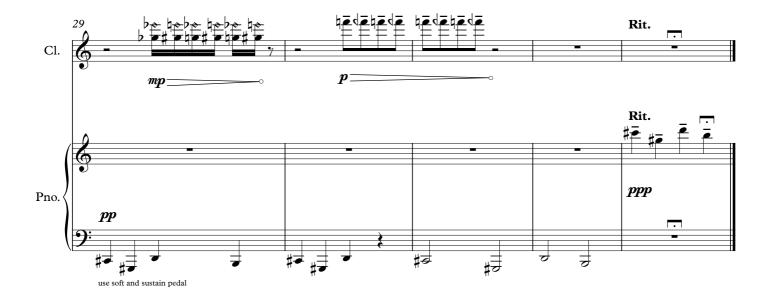
This piece is exceptionally quiet.











11. *Stjörnublik* for Harpsichord and Clarinet in Bb (2016)

4:45 minutes long

The arrangement for harpsichord employs a slightly different array of extended

techniques compared with the version for piano, and makes use of certain qualities

exclusive to the harpsichord, such as the sounds created by playing the strings inside

the lid, which differ from the sounds created on a piano, and can have a much more

"twinkly quality". The 'twinkly' quality can be seen in mm. 26-30. There is also the

added benefit of being able to use the different stops on the instrument, which means

there are a variety of timbres available. The sound of the brush on the internal

harpsichord strings in this version of the piece somehow reminded me of satellites in

space. I may have seen a documentary about space at some point which used a

similar sound for satellites and the memory has imprinted itself. The harpsichord adds

an ancient quality, but within the context of a 21st Century composition, this evokes a

sense of timelessness.

This version of the piece was written after the wonders of contemporary harpsichord

were introduced to me by the harpsichordist Goska Isphording at a contemporary

music residency in Madeira in 2016 as I had never considered writing for harpsichord

Of the three the harpsichord version of this piece is probably my previously.

favourite.

The recording held in folder 2 is a studio recording and the performers are:

Clarinet: Sioned Eleri Roberts

Harpsichord: Katherine Betteridge

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Katherine Betteridge

Stjörnublik

For Clarinet in Bb and Harpsichord

Duration: ca. 4 minutes

All instruments are notated at sounding pitch



Painting by Katherine Betteridge



Programme note

"Stjörnublik" is Icelandic for "starlight". There are many words in Icelandic for starlight, all with slightly different meanings. This particular word refers to the twinkling effect that stars appear to have. *Stjörnublik* was inspired by a trip I made to Iceland one December, when the nights were extremely long, and the starlight and cold snowy environment very magical.

This piece started out its life as a piece for clarinet and piano and was written for a multimedia event called *Lie Still Sleep Becalmed*, held at the University of Bangor. The arrangement for harpsichord employs a slightly different array of extended techniques and makes use of certain qualities exclusive to the harpsichord, such as the sounds created by playing the strings inside the lid, which have a very different effect to the sounds created when doing the same on a piano, and can have a much more "twinkly quality". There is also the added benefit of being able to use the different stops on the instrument, which means there are a variety of timbres available. Throughout the piece the clarinet plays many microtonal slow trills and multiphonics, intended to evoke the twinkling effect of starlight and an ethereal-like emptiness. The harpsichord adds an ancient quality, but within the context of a 21st Century composition, this quality evokes a suggestion of timelessness.

This piece is exceptionally quiet.

Performance Directions

Harpsichordist will need:

- A woolen glove please use wool for timbral purposes
- White square stickers
- A soft make-up brush or shaving brush

See attached video to see how to achieve effect with make-up brush in bar 12)

On the harpsichord, use large square stickers to mark the following strings within the main body of the instrument:

G# (the lowest available octave)

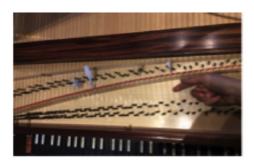
B - all next notes need to be in the lowest register (but above the G)

C#

D

Е

In addition, also mark 4 strings in the very front of the harpsichord - between the two sets of tuning pegs (see photo - pieces of paper show where to mark the strings, finger points to where to pluck)



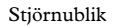
You will have to find the notes by ear as the sounding notes may be connected to different keys on different harpsichords:

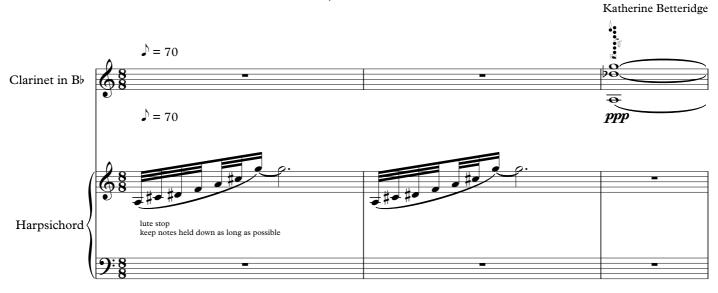
G#

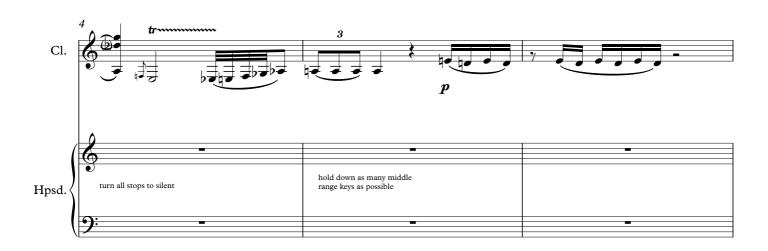
В С#

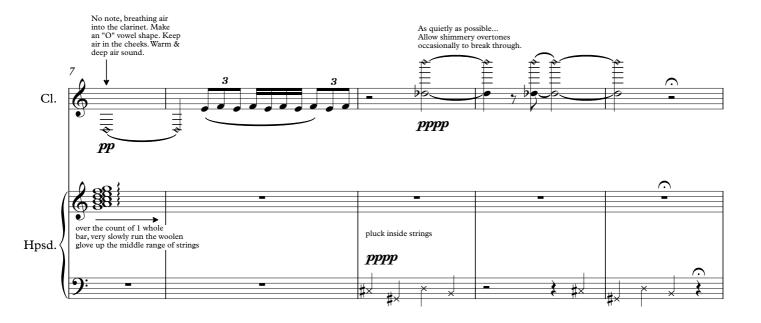
D

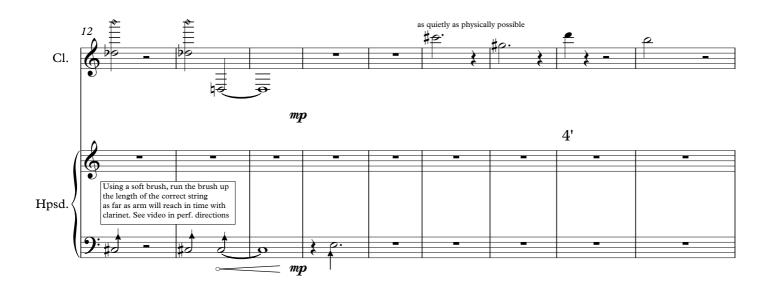
The strings stops to be used are indicated on the score, however, due to the fact that harpsichords vary so much, the indicated strings should be used as a guide, but the performer should use their discretion in order to adhere as closely as possible to the dynamic markings.



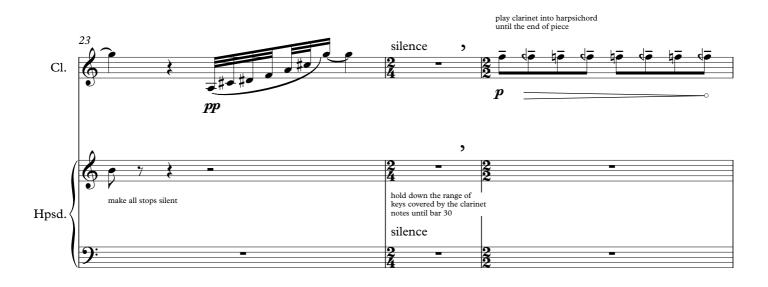


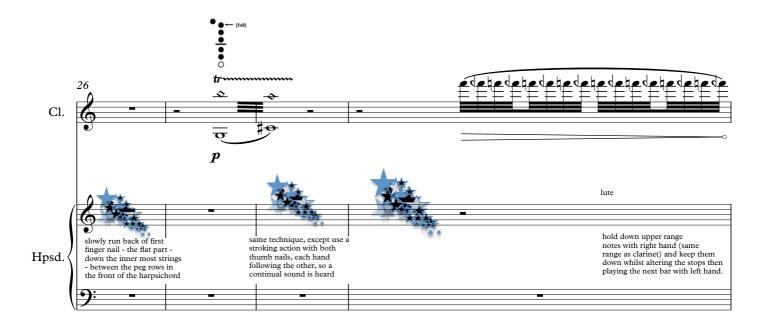














12. Stjörnublik for Harp and Clarinet in Bb

5.40 minutes long

Each version of this piece has a slightly different starry quality. The piano version has

a space-like echoey atmosphere created by the resonance of the piano. The

harpsichord has a 'twinkly' cold, crystal-like quality, evoking shooting and falling

stars, whilst the harp version attempts to convey an earth-bound image of the heavens.

The harp version posed a new set of opportunities for experimentation. I did initially

intend for Mared Emlyn (the harpist) to brush the harp strings with the glove in her

hand (as is done in the harpsichord version). However, we experimented with the

sound and found that actually wearing the glove was more effective, both sound-wise

and visually. We also needed to change the notes that were brushed as metal harp

strings sound more effective than the nylon ones. Also, the twinkly sound was better

achieved by metal on metal, than by human nails on metal, which was why the Yale

key was introduced (a yale key is suggested as the over-hanging metal part of a chubb

or mortice key might get caught in the strings).

The recording held in folder 2 is a recording of the live concert which took place

April 2019 in Pontio Arts Centre, Bangor. The performers are:

Harp: Mared Emlyn

Clarinet: Sioned Eleri Roberts

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Katherine Betteridge

Stjörnublik

For

Clarinet in Bb and Harp

Duration: ca. 5.40

All instruments are notated at sounding pitch



Painting by Katherine Betteridge

Programme note

"Stjörnublik" is Icelandic for "starlight". There are many words in Icelandic for starlight, all with slightly different meanings. This particular word refers to the twinkling effect that stars appear to have. *Stjörnublik* was inspired by a trip I made to Iceland one December, when the nights were extremely long, and the starlight and cold snowy environment was magical.

This version of Stjörnublik was commissioned for a concert at Pontio, Bangor University, in 2019. The piece started its life, however, as a composition for clarinet and piano and was then arranged for harpsichord and clarinet. Like the other versions, the arrangement for harp employs a different array of extended techniques and makes use of certain qualities exclusive to the harp, such as the quality of the sound made when, instead of plucking the strings, the harpist presses and releases the strings, so that the re-bound makes a specific sound. The sound of the pedal changes is employed to achieve a specific effect, and the harpist is requested at one point to wear a glove. Throughout the piece the clarinet plays many slow microtonal trills and multiphonics, intended to evoke the twinkling effect of starlight and an ethereal-like emptiness.

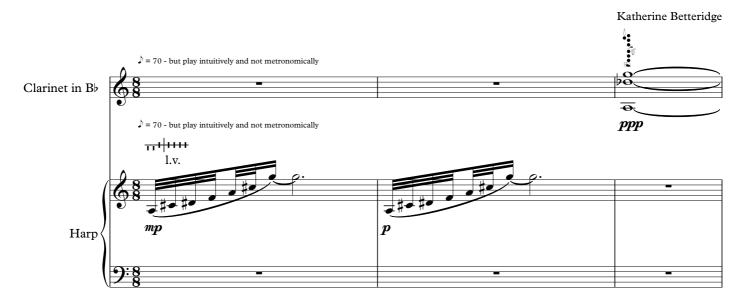
This piece is exceptionally quiet.

Harpist will need:

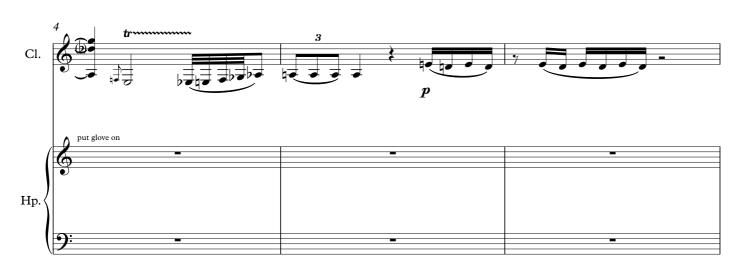
- -A woolen glove please use wool for timbral purposes 👋
- -A soft paint brush or shaving brush
- -Two yale keys (yale is suggested as the over-hanging part of a mortice or chubb key may catch on the strings).
- -Tune bottom C to \natural and bottom D to \flat and top G to \natural

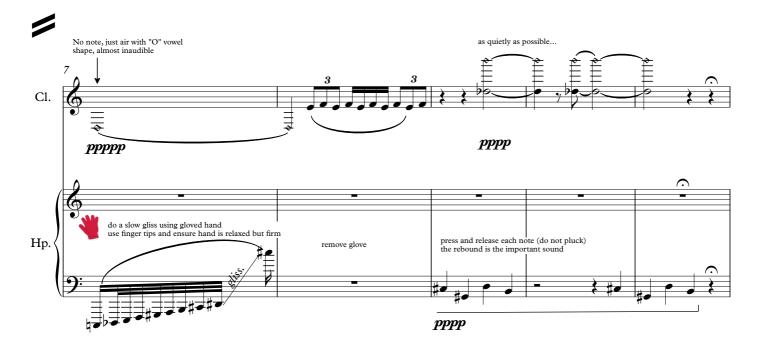
Position the harp sideways on to the audience, with the clarinet standing behind it - so that the clarinet faces the audience through the harp strings

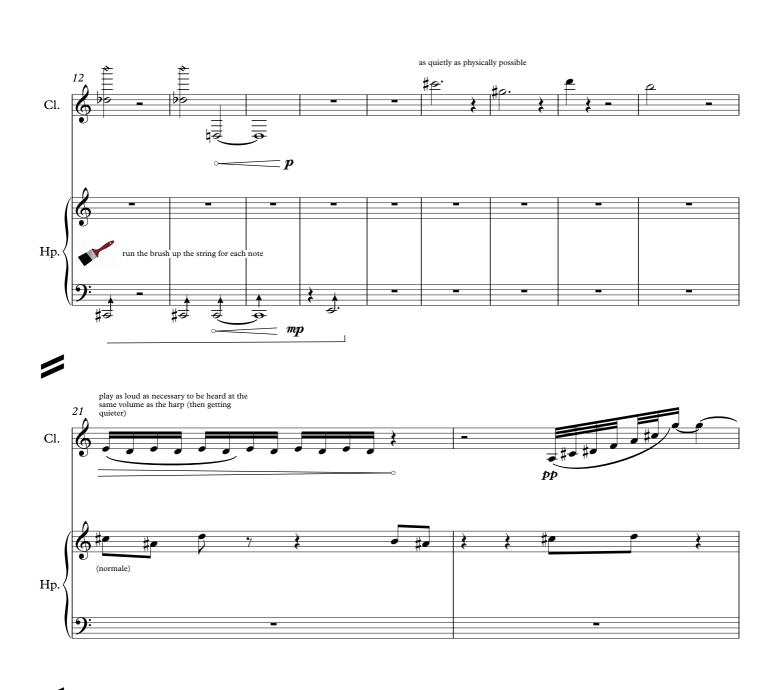
Stjörnublik

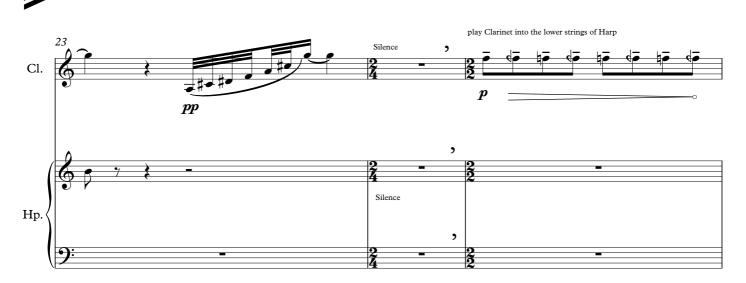


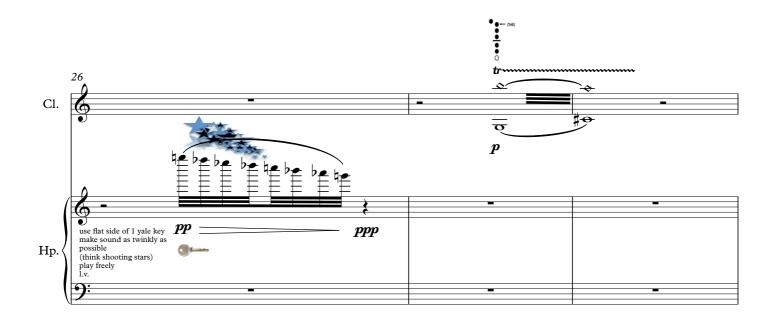


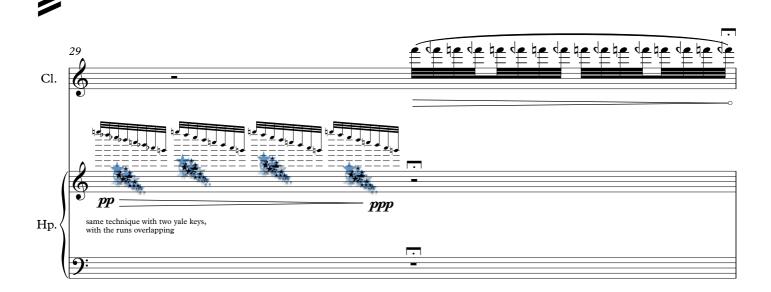


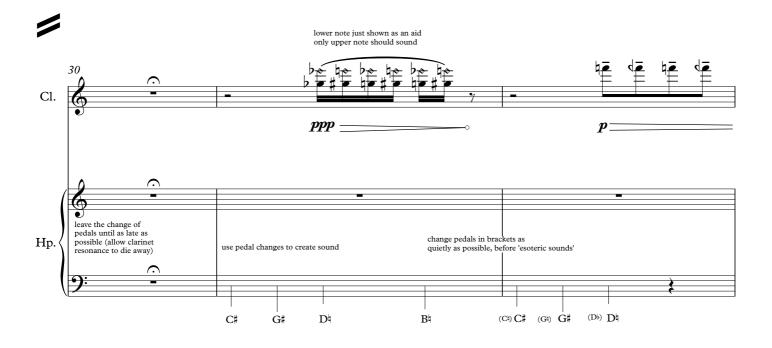


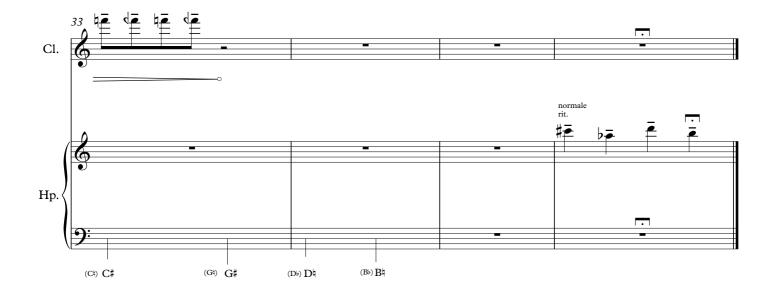












Bibliography

BOOKS

Abram, D. 1996. The Spell of The Sensuous. New York: Vintage Books.

Azaria, T. 2016. Facing the Depths: Exploring Psyche through the Art of Masks. [Ebook].

Self published by Tina Azaria.

Bay-Cheng, S., Kattenbelt, C. and Lavender, A. eds., 2010. *Mapping Intermediality in Performance* (Vol. 4). Amsterdam University Press.

Burrows, A. and Macy, J. *Rilke's Book of Hours: Love Poems to God.* 1996. New York: Riverhead Books.

Cage, J. 2011. *Silence: Lectures and Writings*. 50th Anniversary Edition. Middletown, Connecticut. Wesleyan University Press.

Castaneda, C. 1968. *The Teachings of Don Juan: A Yaqui Way of Knowledge*. Berkley, Los Angeles: University of California Press.

Castaneda, C. 1990. *Journey to Ixtlan: The Lessons of Don Juan*. Great Britain: Arkana.

Dibben, N., 2009. Björk. Sheffield, UK: Equinox Publisher. p. 54

Farina, A. and Gage, S.H., 2017. (eds). Ecoacoustics: a new science. *Ecoacoustics: The Ecological Role of Sounds*. Oxford, UK: Wiley-Blackwell.

Harner, M. 1990. The Way of the Shaman. New York: HarperCollins.

Hillier, P., 1997. Arvo Pärt. Clarendon Press. p.90

Ingerman, S. 1991 *Soul Retrieval: Mending the Fragmented Self.* New York: Harper Collins

Jaspers, K., 2014 [1931]. Man in the Modern Age (Routledge Revivals). Routledge

Jung, C.G., Read, H. (ed). 1969. *The Collected Works Volume 9: The Archetypes and the Collective Unconscious*. 2nd Edition. London: Routledge.

Kharitidi, O. 1996. Entering the Circle. London: Thorsons.

McLuhan, T.C. (ed) 1973. *Touch the Earth: A Self-Portrait of Indian Existence*, ABACUS edition. London: Sphere Books.

Moyne, J., Barks, Coleman. 1997. The Essential Rumi. New Jersey. Castle Books.

Nietzsche, F., 2002. *Beyond Good and Evil: Prelude to a Philosophy of the Future*. Cambridge University Press.

Plotkin, B. 2003. *Soulcraft: Crossing the Mysteries of Nature and Psyche*. [E-book]. Novato, California: New World Library.

Sabini, M. (ed), C.G. 2008. *The Earth has a Soul: Jung on Nature, Technology and Modern Life*. Berkley, California: North Atlantic Books.

Sternberg, R.J. ed., 1999. *Handbook of creativity*. Cambridge University Press.

Suzuki, S., 2010. Zen mind, beginner's mind: Informal talks on Zen meditation and practice. Boston: Shambhala Publications.

Tacey, D., 2012. The Jung Reader. Hove, East Sussex: Routledge.

Villoldo, A. 2000. Shaman Healer Sage. Reading, England: Bantam Books.

Waidler, R., Daglo, S. M., Beeuwelan, S. I. (eds). 2019. *Excerpts from the writings and lectures of Karlheinz Stockhausen*. Clifton: Outlands Community Press.

Watson, B. 1994. Frank Zappa The Negative Dialectics of Poodle Play. London: Quartet Books Ltd.

Zappa, F., Occhiogrosso, P. 1989. The Real Frank Zappa Book. London: Picador.

JOURNAL ARTICLES, PROCEEDINGS, REPORTS, THESES AND PAPERS

Bennett, P. (ed). 2012. *Montreal 2010-Facing Multiplicity: Psyche, Nature, Culture: Proceedings of the 18th Congress of the International Association for Analytical Psychology*. Montreal, Canada, 22nd – 27th August. Einsiedeln, Switzerland: Daimon.

Colmant, S.A. and Merta, R.J. 1999. Using the sweat lodge ceremony as group therapy for Navajo youth. *Journal for Specialists in Group Work*, 24(1), pp.55-73.

Conrad, Claudius. "Music for healing: from magic to medicine." *The Lancet* 376, no. 9757 (2010): 1980-1981.

Cromwell, H.C., Mears, R.P., Wan, L. and Boutros, N.N. 2008. Sensory gating: a translational effort from basic to clinical science. *Clinical EEG and Neuroscience*, *39*(2), pp.69-72. Available at https://journals.sagepub.com/doi/10.1177/155005940803900209 Accessed February 2019.

De Berker, A.O., Rutledge, R.B., Mathys, C., Marshall, L., Cross, G.F., Dolan, R.J. and Bestmann, S. 2016. Computations of uncertainty mediate acute stress responses in humans. *Nature communications*, 7, p.10996. Available at https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4820542/. Accessed February 2019.

Garrett, M.T., Garrett, J.T. and Brotherton, D. 2001. Inner circle/outer circle: A group technique based on Native American healing circles. *The Journal for Specialists in Group Work*, 26(1), pp.17-30.

Grillon, C., Pellowski, M., Merikangas, K.R. and Davis, M. 1997. Darkness facilitates the acoustic startle reflex in humans. *Biological psychiatry*, 42(6), pp.453-460.

Hiltunen, S.M. 2004. Transpersonal functions of masks in NohKiDo. *International Journal of Transpersonal Studies*, 23(1), p.7. Available at: https://scholar.google.com/&httpsredir=1&article=1231&context=ijts-transpersonalstudies Accessed March 2019.

Howson, T. 2016. Considering the therapeutic potential of immersive theatres: A practice-led investigation incorporating audience research to explore sensory performances and their affect on personal well-being. PhD thesis. Bangor: Bangor University.

Hultkrantz, Å. 1991. The drum in Shamanism: some reflections. *Scripta Instituti Donneriani Aboensis*, *14*. Available at: https://journal.fi/scripta/article/view/67194 Accessed January 2019

Johnston, K.G. 1984. Hemingway and Freud: The Tip of the Iceberg. *The Journal of narrative technique*, 14(1), pp.68-73.

Kim, D.M. 2010. Towards musical individuation: Korean female music therapists' experiences in the Nordoff-Robbins Music Therapy certification training. *The Arts in psychotherapy*, *37*(5), pp.353-362.

Klerman, G.L. and Weissman, M.M., 1989. Increasing rates of depression. Jama, 261(15)

Lewis-Williams, D.J., Clottes, J. 2008. The Mind in the Cave — the Cave in the Mind: Altered Consciousness in the Upper Paleolithic. *Anthropology of Consciousness*, 9 (1), pp 13-21. Available at https://anthrosource.onlinelibrary.wiley.com/doi/epdf/10.1525/ac.1998.9.1.13. Accessed February 2019

Limb, C.J. and Braun, A.R. 2008. Neural substrates of spontaneous musical performance: an FMRI study of jazz improvisation. *PLoS one*, *3*(2), p.e1679. Available at:

https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0001679 Accessed March 2019

Lu, J., Yang, H., Zhang, X., He, H., Luo, C. and Yao, D. 2015. The brain functional state of music creation: an fMRI study of composers. *Scientific reports*, *5*, p.12277. Available at: https://www.nature.com/articles/srep12277 Accessed February 2019

Richerson, P.J. and Boyd, R. 2000. The biology of commitment to groups: the tribal social instincts hypothesis. *The biology of Commitment*. Available at: https://www.researchgate.net/publication/228736575 The evolution of subjective commitment to groups A tribal instincts hypothesis Accessed February 2019

Roe, J. and Aspinall, P. 2011. The restorative benefits of walking in urban and rural settings in adults with good and poor mental health. *Health & place*, 17(1), pp.103-113. Available at:

https://www.sciencedirect.com/science/article/abs/pii/S1353829210001322 Accessed April 2019

Simon, Harvey B. Music as Medicine. *The American Journal of Medicine*. Volume 128, Issue 2, 2015, pp. 208-210. Available at https://www.sciencedirect.com/science/article/pii/S0002934314009243 Accessed May 2019.

Walsh, R. 1989. What is a Shaman? Definition, Origin and Distribution. *The Journal of Transpersonal Psychology* 21 (1). P2. Available at http://www.atpweb.org/jtparchive/trps-21-89-01-001.pdf. Accessed February 2019

Winkelman, M. 2009. Shamanism and the Origins of Spirituality and Ritual Healing. *Journal for the Study of Religion, Nature & Culture*, *3*(4).

Young-Laughlin, J. and Laughlin, C.D. 1988. How Masks Work, or Masks Work How?. *Journal of Ritual Studies*, pp.59-86. Available at https://www.jstor.org/stable/pdf/44368364.pdf Accessed February 2019

SCORES

Stockhausen, K. 1968. (translation by Gehlhaar, R., McGuire, J., Davies, H.). *Aus den Sieben Tagen*. New York: Universal Edition. Online at http://soundartarchive.net/articles/Lina_Lapelyte-2008-Aus.pdf Accessed March 2019.

FILMS/DOCUMENTARIES

The Connection. 2014. [Film] Director: Shannon Harvey. Australia: Elemental Media.

Artsnight: Episode 22. [TV Series]. BBC: BBC Two. 5th February 2016 23:00. YouTube clip available at: https://www.youtube.com/watch?v=_BGT1DzxIXI

WEBSITES AND WEB PAGES

Bushak, L. 2015. Why We're Afraid of The Dark: An Evolutionary (And Rational) Impulse to Protect Ourselves. Medical Daily. [Online]. Available at: https://www.medicaldaily.com/why-were-afraid-dark-evolutionary-and-rational-impulse-protect-ourselves-329414 Accessed February 2019.

British Association for Music Therapy. 2017. [Online]. https://www.bamt.org/music-therapy/what-is-music-therapy.html Accessed May 2019.

Cage, J. 1958. Experimental Music. *Music Teachers National Association*. Chicago. Winter, 1957. Accompanying George Avakian's recording of Cage's twenty-five-year retrospective concert at the Town Hall, New York 1958. Available at: http://ada.evergreen.edu/~arunc/texts/music/cage1/cage1.pdf Accessed April 2019.

Carrell, S. 2018. Scottish GPs to begin prescribing rambling and birdwatching. *The Guardian*. [Online]. Friday 5th October. Available at https://www.theguardian.com/uk-news/2018/oct/05/scottish-gps-nhs-begin-prescribing-rambling-birdwatching Accessed January 2019.

Gilmore, M. 2017. Inside the Making of 'Sgt. Pepper. *Rolling Stone*, [Online]. 1st June. Available at: https://www.rollingstone.com/music/music-features/inside-the-making-of-sgt-pepper-125417/ Accessed February 2019.

Gray, R. 2010. Audiences hate modern classical music because their brains cannot cope. *Daily Telegraph*. [Online]. 20th February. Available at: https://www.telegraph.co.uk/news/science/science-news/7279626/Audiences-hate-modern-classical-music-because-their-brains-cannot-cope.html Accessed February 2019.

Harris, R., 2015. The loneliness epidemic: We're more connected than ever – but are we feeling more alone? *The Independent*. [Online]. 30th March 2015. Available at: https://www.independent.co.uk/life-style/health-and-families/features/the-loneliness-epidemic-more-connected-than-ever-but-feeling-more-alone-10143206.html Accessed September 2019.

Kalia, A. 2015. "Music was better back then": When do we stop keeping up with popular music. *Skynet & Ebert*. [Online]. 22nd April. Available at: https://skynetandebert.com/2015/04/22/music-was-better-back-then-when-do-we-stop-keeping-up-with-popular-music/ Accessed March 2019.

Luxorion. n.d. [Online]. http://www.astrosurf.com/luxorion/audiofiles-aurora.htm Accessed 2015.

The British Academy of Sound Therapy. 2014. [Online]. https://www.britishacademyofsoundtherapy.com/what-is-sound-therapy/ Accessed May 2019.

Taylor Winters. 2019. *Haunting*. [Online]. https://www.haunting.net/immersive-theater-matters/ Accessed March 2019.

Teal Swan. 2019. *Teal Swan*. [Online]. https://tealswan.com/let-the-universe/ Accessed March 2019.

The LiederNet Archive. n.d. [Online]. http://www.lieder.net/get_text.html?TextId=102752 Accessed November 2018.

Wyndham, W. 2011. Masked Musicians and Why They Hide. *Paste*. [Online]. 30th January. Available at: https://www.pastemagazine.com/blogs/lists/2011/01/11-masked-musicians-and-why-they-hide.html Accessed February 2019.