

TECTONICS
for orchestra

by

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of the requirements for the degree of
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ABSTRACT

Tectonics is a composition written for orchestra with an instrumentation of piccolo, flute, two oboes, two clarinets, two bassoons, four horns, three trumpets, three trombones, tuba, timpani, percussion, harp, and strings. The piece is ten minutes in duration and had its premiere at the University of Michigan, Ann Arbor, on April 2, 2012.

The music of *Tectonics* expresses the sheer immensity and power of the Earth's tectonic processes. The title refers to a field within geology that studies tectonic plates, the structures within the earth's crust. The inspiration behind this work is the concept of continental drift: the gradual but inevitable motion of tectonic plates. *Tectonics* is a musical representation of the incredible power of these processes, using over-arching harmonic relations and orchestration to express aspects of the earth's geology.

The progression of pitch centers through the work reflects the very gradual motion of tectonic plates. After opening over an extended C-sharp pedal, the music settles on a D pedal near the halfway point (m. 69). When the opening material returns in m. 103, the climax of the piece unfolds over an extended C-natural pedal. The final thirty seconds of this ten-minute work sees the opening C-sharp return (m. 140), transformed in a violent manner.

I use orchestration to give the listener a timbral impression of the earth's geology. The opening gesture, a swell in the contrabassoon and low horns, creates the ground that supports all other musical figures. The tuba solo (m. 16) grows organically out of this foundation with earthy tones, emphasizing the low brass section's role in portraying the solidity of the earth. During the extended climax of the piece (m. 111-144), I divide the orchestra into three distinct sections – winds and strings, high brass, and low brass. These three groups move at different paces and collide indiscriminately of dissonance, representing the friction between tectonic plates. This friction is responsible for earthquakes, and this kind of cataclysmic event is represented in the music by the chaotic trills and glissandos on the final page of the score.

INSTRUMENTATION

1 Piccolo
1 Flute
2 Oboes
2 Clarinets in Bb
1 Bassoon
1 Contrabassoon

4 Horns in F
3 Trumpets in C
3 Trombones (3rd is bass)
1 Tuba

Timpani (4 drums)

Percussion (2 players):

1. Glockenspiel, Crotales, Chimes (share with 2), Snare Drum (share with 2), 3 Susp. Cymbals (sm, med, lg) (share with 2), Brake Drum, Large Tam-tam (share with 2)
2. Chimes (share with 1), Small Triangle, Snare Drum (share with 1), 3 Susp. Cymbals (sm, med, lg) (share with 1), Large Tam-tam (share with 1), Bass Drum

Harp

Strings

Transposed Score
Duration: ca. 10'

Tectonics

for orchestra

Roger Zare
(2012)

Transposed score

Lento ♩ = 56

The score is a transposed score for an orchestra, marked *Lento* with a tempo of ♩ = 56. The key signature is one sharp (F#). The score includes parts for the following instruments:

- Piccolo
- Flute
- Oboe 1.2.
- Clarinet 1.2. in B \flat
- Bassoon
- Contrabassoon
- Horn 1.3.
- Horn 2.4.
- Trumpet 1.2.3. in C
- Trombone 1.2.3.
- Tuba
- Timpani
- Percussion 1 Chimes
- Percussion 2 Tam-tam
- Harp
- Violin I
- Violin II
- Viola
- Violoncello
- Double Bass

Key performance instructions and dynamics include:

- Contrabassoon: *n*, *f*, *p*, *n*, *pp*, *p*, *n*, *pp*, *p*, *pp*, *n*, *pp*.
- Horn 1.3.: *n*, *f*, *p*, *n*, *pp*, *p*, *pp*, *n*.
- Horn 2.4.: *pp*, *p*, *n*, *pp*.
- Tuba: *p*, *f*, *n*, *pp*, *gliss.*, *3. con sord. straight mute*.
- Timpani: *n*, *pp*, *mf*, *3*, *1.v.*
- Percussion 2 Tam-tam: *n*, *ppp*, *n*, *n*, *pp*.
- Harp: *f*, *retune lowest C to C \sharp and D to D \flat* , *sim.*
- Double Bass: *div.*, *n*, *pp*.

Lento ♩ = 56

A

Picc.

Fl.

Ob. 1.2.

Cl. 1.2.

Bsn.

Cbsn.

1.3.

Hn.

2.4.

C Tpt. 1.2.3.

Tbn. 1.2.3.

3.

Tba.

Timp.

Perc. 1
Chim.

Perc. 2
Tam-tam

Hp.

Vln. I

Vln. II

Vla.

Vc.

Db.

7 8 9 10 11 12 13

C

Picc. *p* *pp*

Fl. *p* *pp*

Ob. 1.2.

Cl. 1.2. *p* *pp*

Bsn. *n* *ffp*

Cbsn. *n* *ffp*

1.3. *pp* *p* *pp* *f* *pp* *ffp*

Hn. a2 *pp* *p* *pp* *f* *pp* *ffp*

2.4. *pp* *p* *pp* *f* *pp* *ffp*

C Tpt. 1.2.3. *pp* *f* *pp*

1.2. *pp* *p* *pp* *f* *pp* *ffp*

Tbn. 1.2.3. *pp* *p* *pp* *f* *pp* *ffp*

3. *pp* *p* *pp* *f* *pp* *ffp*

Tba. (solo) *poco dim.* *f*

Timp. *pp* *mf* *pp* *ff* *pp*

Perc. 1 Chim. *f*

Perc. 2 Tam-tam *mf* *mf* *pp*

Hp. *f*

Vln. I *p* *pp* *mf* *n* *f* *pp*

Vln. II *pp* *mf* *n* *f* *pp*

Vla. *pp* *f* *pp* *pp*

Vc. *mf* *pp* *mf* *pp* *pp* *f* *pp*

Db. *n* *pp* *f* *pp* *ffp* *pp*

Snare Drum on rim *mf*

Tam-tam *mf*

Snare Drum ord., snares on *pp*

senza sord. pizz. arco sul pont.

senza sord. pizz. arco sul pont.

senza sord. pizz. arco sul pont.

senza sord. pizz. arco sul pont.

senza sord. sul pont. sempre sul pont.

senza sord. sul pont. sempre sul pont.

div. unis. (ord.) *f*

unis. (ord.) div. *ffp*

Picc.
 Fl.
 Ob. 1.2.
 Cl. 1.2.
 Bsn.
 Cbsn.
 1.3.
 Hn.
 2.4.
 C Tpt. 1.2.3.
 Tbn. 1.2.3.
 Tba.
 Timp.
 Perc. 1
 Cro.
 Perc. 2
 S. D.
 Hp.
 Vln. I
 Vln. II
 Vla.
 Vc.
 Db.

Dynamics: *p*, *mf*, *f*, *pp*, *mp*, *mfp*, *cresc.*, *gliss.*

Page numbers: 29, 30, 31

D

Pic. *f*

Fl. *f*

Ob. 1.2. *f*

Cl. 1.2. *f* *mf* *leggiere*

Bsn. *p* *f* *mf*

Cbsn.

1.3. *f* *mf* *p*

Hn. 2.4. *f* *mf* *p*

C Tpt. 1.2.3. *f* 3. con sord. straight mute *p* *f* *p* *n*

Tbn. 1.2.3. *f*

Tba.

Timp. *f*

Perc. 1 Cro. Glockenspiel *f*

Perc. 2 S. D. Cymbals *p* *mf*

Hp. *ff*

D

Vln. I ord. solo. *ffpp* ord. gli altri *ff*

Vln. II ord. solo. *ffpp* ord. gli altri *ff*

Vla. ord. solo. *ffpp* ord. gli altri *ff*

Vc. arco *mf* *p* *mf* solo *f*

Db. pizz. *mf*

Picc. *f cantabile* 3

Fl. *mf pp f cantabile* 3

Ob. 1.2. *f n f cantabile* 3

Cl. 1.2. *pp f sub. mf leggiero*

Bsn. *pp sub. p f*

Cbsn.

1.3. Hn. *p*

2.4. Hn. *p*

C Tpt. 1.2.3. *p f n*

Tbn. 1.2.3.

Tba.

Timp.

Perc. 1 Glock. *choke*

Perc. 2 Cym.

Hp. *f* 3

Vln. I *f sub. tutti* 3

Vln. II *f tutti* 3

Vla. *f sub. tutti* 3

Vc. *pp sub. f mf*

Db. *f*

Picc. *f* 3

Fl. *f* 3

Ob. 1.2. *f* 3 3

Cl. 1.2. *ff* 3 3 *f*

Bsn. *mf*

Cbsn.

1.3. *f* *p* *f* *p* *n*

Hn. 2.4. *f* *p* *f* *p* *n*

1.2. *p* *f* *n* *n* *f*

C Tpt. 1.2.3. (straight mute) *n* *f*

Tbn. 1.2.3. *p*

Tba. *p*

Timp.

Perc. 1 Glock.

Perc. 2 Cym.

Hp. *f* 3

Vln. I *f cantabile*

Vln. II *f cantabile*

Vla. *p*

Vc. *p*

Db.

Picc. *f* **E** *ff* 6
 Fl. *f* *ff* 6
 Ob. 1.2. *f* 3 *ff* 6
 Cl. 1.2. 1. *ff* 3
 Bsn. *f*
 Cbsn. *f*
 1.3. *f* 3
 Hn. 2.4. *f* 3 a2
 C Tpt. 1.2.3. 1.2. *n* *f* 3. *n* *f*
 Tbn. 1.2.3. *f* 3
 Tba. *f*
 Timp.
 Perc. 1 Glock. *ff* 3 To Croc.
 Perc. 2 Cym.
 Hp. *f* *ff* 3
 Vln. I *f* **E**
 Vln. II *f*
 Vla. *mf*
 Vc. *mf*
 Db. *f*

Picc. *f* 3 5 3 3
 Fl. *f* 3 5 3 3
 Ob. 1.2. *ff* 6
 Cl. 1.2. *ff* 3
 Bsn.
 Cbsn.
 1.3. *p* *f* 3 *a2*
 Hn. 2.4. *p* *f* 3 *p*
 C Tpt. 1.2.3. *n* 1.2. senza sord. *p* 3. senza sord. *p*
 Tbn. 1.2.3. *f* 3 *p*
 Tba. *p*
 Timp. *p* *gliss.* *f*
 Perc. 1 Glock.
 Perc. 2 Cym.
 Hp.
 Vln. I 5 *f* 3 5 3 3
 Vln. II 5 *f* 3 5 3 3
 Vla.
 Vc.
 Db.

Picc. *f* *ff*

Fl. *f* *ff*

Ob. 1.2. *f* *ff*

Cl. 1.2. *f* *ff*

Bsn. *ff pesante* *f* *ff*

Cbsn. *ff pesante* *f* *ff*

1.3. *ff* *mf* *ff*

Hn. 2.4. *ff* *mf* *ff*

C Tpt. 1.2.3. *ff* *mf* *ff*

Tbn. 1.2.3. *ff pesante* *f* *ff*

Tba. *ff pesante* *f* *ff*

Timp.

Perc. 1 Glock.

Perc. 2 B. D. *f* *ff*

Hp. *ff* *gliss.*

Vln. I *ff*

Vln. II *ff*

Vla. *f* *ff*

Vc. *ff pesante* *f* *ff*

Db. *ff pesante* *f* *ff*

F

Picc. *f* *ff*

Fl. *f* *ff*

Ob. 1.2. *f* *ff*

Cl. 1.2. *f* *ff*

Bsn. *f* *ff*

Cbsn. *f* *ff*

1.3. *f* *ff*

Hn. 2.4. *f* *ff*

C Tpt. 1.2.3. *f* *ff*

Tbn. 1.2.3. *f* *ff*

Tba. *f* *ff*

Timp. *f* *ff*

Perc. 1 Cym. *p* *f*

Perc. 2 B. D. *mf* *ff*

Hp. *f* *ff*

Vln. I *f* *ff* *div.* *ff*

Vln. II *f* *ff* *div.* *ff* *unis.*

Vla. *f* *ff* *div.* *ff* *unis.*

Vc. *f* *ff* *div.* *ff* *unis.*

Db. *f* *ff* *div.* *ff* *unis.*

51 52 53 54

Picc. *ff* 3

Fl. *ff* 3

Ob. 1.2.

Cl. 1.2.

Bsn. *ff* 3

Cbsn. *ff* 3

1.3. *f* a2

Hn. 2.4. *f* a2

C Tpt. 1.2.3. *f*

Tbn. 1.2.3. *ff* 1.2. a2 3

Tba. *ff* 3

Timp.

Perc. 1 Cym. Chimes *f* *ff*

Perc. 2 B. D. *f* *ff*

Hp. hit with palm *p* *f* *f* *ff*

Vln. I *ff* 3

Vln. II *ff* div.

Vla. *ff* 3

Vc. *ff* unis. div.

Db. *ff*

Picc. *f* 6 6

Fl. *f* 6 6

Ob. 1.2. *f* 6

Cl. 1.2. *f* 6 6

Bsn. *f* *ff*

Cbsn. *f*

1.3. *n*

Hn. 2.4.

C Tpt. 1.2.3. *n* 1.2.

Tbn. 1.2.3. *f*

Tba.

Timp. *f*

Perc. 1 Chim.

Perc. 2 B. D.

Hp. *l.v.* *gliss.* $D: C_4 B_4 \flat E_5 F_5 G_5 A_5$ b^{8va}

Vln. I *sempre ff* *unis.*

Vln. II *unis.* *p* *ff*

Vla. *f*

Vc. *f* *unis.*

Db. *f*

G

Picc. *ff*

Fl. *ff*

Ob. 1.2. *ff*

Cl. 1.2. *ff*

Bsn. *ff*

Cbsn. *ff*

1.3. Hn. *ff* *poco* *ff* *p* *ff* a2

2.4. *ff* *poco* *ff* *p* *ff*

C Tpt. 1.2.3. *ff* *poco* *ff* *p* *ff*

Tbn. 1.2.3. *ff* *poco* *ff* *p* *ff*

Tba. *ff* *poco* *ff* *p* *ff*

Timp. *ff* 3

Perc. 1 Chim. *f* 3

Perc. 2 B. D. *pp* *ff* 3

Hp. ϕ

G

Vln. I 3 6 6

Vln. II 3 3

Vla. *ff* *p* *ff* V

Vc. *ff* *poco* *ff* *p* *ff* V

Db. *ff* *poco* *ff* *p* *ff* V

62 63 64 65

This page of a musical score contains the following parts and markings:

- Piccolo (Pic.):** *f* (measures 66-67), *ff* (measures 67-68), *ff* (measure 68), *ff* 3 (measures 68-69).
- Flute (Fl.):** *f* (measures 66-67), *ff* (measures 67-68), *ff* (measure 68), *ff* 3 (measures 68-69).
- Oboe 1 & 2 (Ob. 1.2):** *f* (measures 66-67), *ff* (measures 67-68), *ff* (measure 68), *ff* 3 (measures 68-69).
- Clarinet 1 & 2 (Cl. 1.2):** *f* (measures 66-67), *ff* (measures 67-68), *ff* (measure 68), *ff* 3 (measures 68-69).
- Bassoon (Bsn.):** *ff* (measures 67-68), *ff* (measure 68), *ff* 3 (measures 68-69).
- Contrabassoon (Cbsn.):** *ff* (measures 67-68), *ff* (measure 68), *ff* 3 (measures 68-69).
- Horn 1.3 (Hn. 1.3):** *ff* (measures 67-68), *ff* (measure 68), *ff* 3 (measures 68-69).
- Horn 2.4 (Hn. 2.4):** *ff* (measures 67-68), *ff* (measure 68), *ff* 3 (measures 68-69).
- Trumpet 1.2.3 (C Tpt. 1.2.3):** *ff* (measures 67-68), *ff* (measure 68), *ff* 3 (measures 68-69).
- Trombone 1.2.3 (Tbn. 1.2.3):** *ff* (measures 67-68), *ff* (measure 68), *f* (measure 68), *gliss.* (measure 68), *fff* (measure 68), *ff* 3 (measures 68-69).
- Tuba (Tba.):** *ff* (measures 67-68), *ff* (measure 68), *ff* 3 (measures 68-69).
- Timpani (Timp.):** *ff* (measures 67-68), *ff* (measure 68), *ff* 3 (measures 68-69).
- Percussion 1 (Perc. 1 Cym.):** *pp* (measures 66-67), *f* (measures 67-68), *fff* (measures 68-69).
- Percussion 2 (Perc. 2 B. D.):** *pp* (measures 66-67), *ff* (measures 67-68), *fff* (measures 68-69).
- Harpsichord (Hp.):** *fff* (measures 68-69).
- Violin I (Vln. I):** *f* (measures 66-67), *ff* (measures 67-68), *gliss.* (measures 68-69), *fff* (measures 68-69).
- Violin II (Vln. II):** *f* (measures 66-67), *ff* (measures 67-68), *gliss.* (measures 68-69), *fff* (measures 68-69), *ppp subito* (measures 68-69).
- Viola (Vla.):** *ff* (measures 67-68), *ff* (measure 68), *ff* 3 (measures 68-69).
- Violoncello (Vc.):** *ff* (measures 67-68), *ff* (measure 68), *ff* 3 (measures 68-69).
- Double Bass (Db.):** *ff* (measures 67-68), *ff* (measure 68), *ff* 3 (measures 68-69).

H

Picc. *ff* *p espress.* *f*

Fl. *ff*

Ob. 1.2. *ff*

Cl. 1.2. *ff*

Bsn. *ff*

Cbsn. *ff*

1.3. *ff*

Hn. 2.4. *ff*

C Tpt. 1.2.3. *ff*

Tbn. 1.2.3. *ff*

Tba. *ff*

Timp. *ff*

Perc. 1
Crot. *p* *mf* *ff* *p* *f* *p* *f* *p* *f*

Perc. 2
B. D. *ff* *p*

Hp. *p* *p*

H

Vln. I *ppp*

Vln. II *ppp*

Vla. *secco* *ff*

Vc. *secco* *ff*

Db. *secco* *ff*

69 70 71 72 73

Picc. *p* *f* *p* *f*
 Fl. *p* *f* *dim. poco a poco* *n* bend down
 Ob. 1.2.
 Cl. 1.2.
 Bsn.
 Cbsn.
 1.3.
 Hn. 2.4.
 C Tpt. 1.2.3.
 Tbn. 1.2.3.
 Tba.
 Timp.
 Perc. 1 Crot. *p* *f* *p* *f* *p* *f*
 Perc. 2 Tri. *p* *p*
 Hp.
 Vln. I *con sord.* *2 soli* *n* *mf* *n*
 Vln. II *ppp*
 Vla. *con sord.* *2 soli* *n* *mf* *n*
 Vc. *con sord.* *2 soli* *n* *mf* *n*
 Db. *con sord.* *n* *mf* *n*

I

Picc. *p* *f* *n* bend down

Fl. *p* *f* *pp*

Ob. 1.2. *p*

Cl. 1.2. *p*

Bsn. *p* *mf* *f* *n* solo

Cbsn. *pp* *f*

1.3. *n*

Hn. 2.4. *pp* *f* a2

C Tpt. 1.2.3. *pp* *p* 1.2.3. con sord. whisper mute

Tbn. 1.2.3. *pp* *f* *pp* 3. con sord. straight mute gliss.

Tba. *pp* *f* *pp*

Timp. *n*

Perc. 1 Crot. *p* *f* *p* *f* *p* *f*

Perc. 2 Tri. *p* *p*

Hp. *f* *p* *f* *ff* pdlt. *p* ord.

I

Vln. I *n* *mf* *n* *f* holding back 1 solo senza sord. 3

Vln. II *ppp* *n* *mf* *n* con sord. 2 soli con sord.

Vla. *n* *mf* *n* 2 soli

Vc. *p* *n* *mf* *p* *n* con sord. tutti pizz. sul D tutti pizz. arco tutti pizz. 2 soli

Db. *p* *p* *pp* *mf* *p* con sord. pizz. tutti pizz. tutti pizz. 2 soli

Picc. -

Fl. *n* *f* *n*

Ob. 1.2. 1. *n* *p* *f*

Cl. 1.2. -

Bsn. -

Cbsn. *n*

1.3. -

Hn. 2.4. *n* *pp* *mf* *a2*

C Tpt. 1.2.3. *pp* *p* *n*

Tbn. 1.2.3. -

Tba. -

Timp. -

Perc. 1 Cro. *p* *f* To Glock.

Perc. 2 Tri. Chimes *mf*

Hp. *p* *f*

Vln. I (solo) *p* *f expansive*

Vln. II *f* *n*

Vla. *n* *f* *n*

Vc. *f* *n* *tutti arco* *p* *f*

Db. -

J

Picc. *f* 6 *p*

Fl. *f* 6 *p*

Ob. 1.2. *n* *f* 3

Cl. 1.2. *mf* 3 *p* 3 *f* 3

Bsn. *n*

Cbsn. *n*

1.3. *n* *mf* 3 *p* *f* 3 *n*

Hn. *n* *mf* 3 *p* *f* 3 *n*

2.4. *pp* *pp* *p* *pp* *pp* *p* *pp*

C Tpt. 1.2.3. *pp* *p* *n*

1.2. *sfz* *sfz* *pp*

Tbn. 1.2.3. *pp* *pp* *pp*

Tba. *pp*

Timp. *f* 3

Perc. 1 Croc. *f* 3

Perc. 2 Chim. *mf*

Glockenspiel

Hp. *f* ord. *pdt.* ord.

Vln. I (solo) *f* 3 *fp* *f*

Vln. II

Vla.

Vc. (con sord.) *pp* *pp* *mf* *pp* *pp* *mf*

Db.

Picc.
 Fl.
 Ob. 1.2.
 Cl. 1.2.
 Bsn.
 Cbsn.
 1.3.
 Hn.
 2.4.
 C Tpt. 1.2.3.
 Tbn. 1.2.3.
 Tba.
 Timp.
 Perc. 1 Glock.
 Perc. 2 Chim.
 Hp.
 Vln. I
 Vln. II
 Vla.
 Vc.
 Db.

Musical score for page 23, featuring various instruments including Piccolo, Flute, Oboe, Clarinet, Bassoon, Horns, Trumpets, Trombones, Tuba, Timpani, Percussion, Harp, Violins, Viola, Violoncello, and Double Bass. The score is divided into measures 89, 90, and 91.

K

Picc.

Fl.

Ob. 1.2.

Cl. 1.2.

Bsn.

Cbsn.

1.3.

Hn.

2.4.

C Tpt. 1.2.3.

Tbn. 1.2.3.

Tba.

Timp.

Perc. 1 Glock.

Perc. 2 Chim.

Hp.

K

Vln. I

Vln. II

Vla.

Vc.

Db.

92 93

Picc. *f* *p* *p* *f* *p* *mf*

Fl. *f* *p* *p* *f* *p* *mf*

Ob. 1.2. *p* *f*

Cl. 1.2. *f* *p* *p* *f* *p*

Bsn. *n* *p* *f* *p* *f*

Cbsn. *n* *p* *f* *p* *f*

1.3. *n*

Hn. 2.4. *f* *n*

C Tpt. 1.2.3.

Tbn. 1.2.3. *f* *p* *f* *p* *f*

Tba. *p* *f* *p* *f*

Timp. *p* *f* *p* *f* *p*

Perc. 1 Glock. *f*

Perc. 2 B. D. *p* *f*

Hp. *f*

Vln. I *p* *f* *mf*

Vln. II *p* *f* *mf*

Vla. *p* *f*

Vc. *f* *f*

Db. *f*

rit.

Pic. *p* *f* *p*

Fl. *p* *f* *p*

Ob. 1.2. *p* *f* *pp* *f*

Cl. 1.2. *f*

Bsn. *mf* *poco* *cresc.*

Cbsn. *mf* *poco* *cresc.*

1.3. *p* *f* *f*

Hn. 2.4. *sf* *n* *f*

C Tpt. 1.2.3. *f*

Tbn. 1.2.3. *p* *f* *mf* *cresc.*

Tbn. *n* *mf* *cresc.*

Tba. *n*

Timp. *f* *p* *f* *p* *gliss.*

Perc. 1 S. D. *pp* *mf* *n*

Perc. 2 B. D.

Hp.

Vln. I *p* *senza sord. sost. sul G-* *p* *cresc.* *rit.*

Vln. II *p* *senza sord. sost.* *p* *cresc.*

Vla. *p* *senza sord. sost.* *p* *cresc.*

Vc. *f* *senza sord.* *f* *3* *cresc.* *3*

Db. *f* *senza sord.* *f* *3* *cresc.* *3*

L a tempo ♩ = 56

Pic. *f* *ff*

Fl. *f* *ff*

Ob. 1.2. *ff*

Cl. 1.2. *ff*

Bsn. *ff* *p < ff* *p < ff* *p < ff* *p < ff*

Cbsn. *f* *ff* *p < ff* *p < ff* *p < ff* *p < ff*

1.3. *ff* *p < ff* *p < ff* *p < ff* *ff*

Hn. *ff* *p < ff* *p < ff* *p < ff* *p < ff*

2.4. *ff* *p < ff* *p < ff* *p < ff* *p < ff*

C Tpt. 1.2.3. *ff*

Tbn. 1.2.3. *ff* *p < ff* *p < ff* *p < ff* *p < ff*

Tba. *ff* *p < ff* *p < ff* *p < ff* *p < ff*

Timp. *ff* *fff* *p < ff* *p* *ff* *p* *ff*

Perc. 1 S. D. *p* *fff*

Perc. 2 B. D. *fff* *ff* *ff* *sempre ff*

Hp. *ff*

L a tempo ♩ = 56

Vln. I *ff* *pp cresc.* *sul pont.*

Vln. II *ff* *pp cresc.* *sul pont.* *div.*

Vla. *ff* *p < ff* *pp cresc.* *sul pont.*

Vc. *ff* *p < ff* *p < ff* *p < ff* *p < ff*

Db. *ff* *p < ff* *p < ff* *p < ff* *p < ff*

Picc.

Fl.

Ob. 1.2.

Cl. 1.2.

Bsn.

Cbsn.

1.3. a2

Hn. p ff p ff

2.4. a2

1.2.

C Tpt. 1.2.3. p ff p ff

Tbn. 1.2.3. p ff p ff

Tba. p ff p ff

Timp. p ff p ff p

Perc. 1 Crot.

Perc. 2 B. D. Cymbals pp

Hp. D:Cb/E:G:A: p upward glissandos ad lib. gliss.

Vln. I

Vln. II

Vla.

Vc.

Db. p ff p ff

M

Picc. *ff*

Fl. *ff*

Ob. 1.2. *ff*

Cl. 1.2. *ff*

Bsn. *p ff n*

Cbsn. *p ff n*

1.3. *ff*

Hn. 2. *p ff n ff*

4. *p ff n*

C Tpt. 1.2.3. *n ff*

Tbn. 1.2.3. *p ff n ff*

Tba. *p ff n*

Timp. *ff p*

Perc. 1 Glock. *ff*

Perc. 2 Cym. *ff*

Hp. *ff*

M_{ord.}

Vln. I *ff*

Vln. II *ff* ord. (div.) unis.

Vla. *ff* ord.

Vc. *ff* ord.

Db. *ff*

111 112 113 114 115

This page contains the musical score for measures 116 through 119. The instruments and their parts are as follows:

- Picc. (Piccolo):** Treble clef, *sempre ff*, melodic line with triplets.
- Fl. (Flute):** Treble clef, *sempre ff*, melodic line with triplets.
- Ob. 1.2. (Oboe 1 & 2):** Treble clef, *sempre ff*, sustained chords.
- Cl. 1.2. (Clarinet 1 & 2):** Treble clef, *sempre ff*, sustained chords.
- Bsn. (Bassoon):** Bass clef, *ff* then *p* then *ff* then *p*.
- Cbsn. (Contrabassoon):** Bass clef, *ff* then *p* then *ff* then *p*.
- 1.3. (Trumpet 1 & 3):** Treble clef, *sempre ff*, sustained chords with triplets.
- Hn. 2.4. (Horn 2 & 4):** Treble clef, *sempre ff*, sustained chords with triplets.
- C Tpt. 1.2.3. (Cornet 1, 2, & 3):** Treble clef, *sempre ff*, sustained chords with triplets.
- Tbn. 1.2.3. (Trombone 1, 2, & 3):** Bass clef, *ff* then *p* then *ff* then *p*.
- Tba. (Tuba):** Bass clef, *ff* then *p* then *ff* then *p*.
- Timp. (Timpani):** Bass clef, *p* then *ff* then *p* then *ff*.
- Perc. 1 Glock. (Glockenspiel):** Treble clef, *fff* then *ff*.
- Perc. 2 B.D. (Bass Drum):** Bass clef, *p* then *ff* then *p* then *ff*.
- Hp. (Harp):** Treble and Bass clefs, no notes.
- Vln. I (Violin I):** Treble clef, melodic line with triplets.
- Vln. II (Violin II):** Treble clef, melodic line with triplets.
- Vla. (Viola):** Treble clef, melodic line with triplets.
- Vc. (Violoncello):** Bass clef, melodic line with triplets.
- Db. (Double Bass):** Bass clef, *sempre ff*, sustained chords with triplets.

Picc.

Fl.

Ob. 1.2.

Cl. 1.2.

Bsn.

Cbsn.

1.3.

Hn. 2

4

C Tpt. 1.2.3.

Tbn. 1.2.3.

Tba.

Timp.

Perc. 1
Glock.

Perc. 2
B. D.

Hp.

Vln. I

Vln. II

Vla.

Vc.

Db.

ff

p

cresc. poco a poco

pp

round, with warmth

loco

120

121

122

123

N

Picc. *sempre ff* *cantabile*

Fl. *sempre ff* *cantabile*

Ob. 1.2. *sempre ff* *cantabile*

Cl. 1.2. *sempre ff* *cantabile*

Bsn. *ff* *p*

Cbsn. *ff* *p*

1.3. *ff* *p*

Hn. 2.4. *ff* *p*

C Tpt. 1.2.3. *ff* *p*

Tbn. 1.2.3. *ff* *p*

Tba. *ff* *p*

Timp. no accent *fff*

Perc. 1 Glock. *fff* *Crotales* *arco* *p*

Perc. 2 Cym. *f*

Hp. *ff* *gliss.* *D₂C₂B₂/E₂F₂G₂A₂*

N

Vln. I *sempre ff* *cantabile*

Vln. II *sempre ff* *cantabile*

Vla. *ff* *p*

Vc. *ff* *p*

Db. *ff* *p*

Picc.

Fl.

Ob. 1.2.

Cl. 1.2.

Bsn.

Cbsn.

1.3.

Hn.

2.4.

1.

C Tpt. 1.2.3.

2.3.

Tbn. 1.2.3.

Tba.

Timp.

Perc. 1

Crot.

Perc. 2

Cym.

Hp.

Vln. I

Vln. II

Vla.

Vc.

Db.

126

127

Picc. *rit.*

Fl.

Ob. 1.2. *a2*

Cl. 1.2. *a2*

Bsn. *ff* *p*

Cbsn. *ff* *p*

1.3. *f* *p*

Hn. *a2*

2.4. *f* *p*

C Tpt. 1.2.3. *f* *p*

Tbn. 1.2.3. *ff* *p*

Tba. *ff* *p*

Timp. *p*

Perc. 1 Crot. *p* *ff*

Perc. 2 Cym. *p* *f* [Tam-tam] *pp* *p*

Hp. *B_b* *A_b* *D:C#B/E>F#G#A#*

Vln. I *rit.*

Vln. II

Vla. *ff* *p*

Vc. *ff*

Db. *ff* *p*

$\text{♩} = 48$

Picc. $\text{♩} = 48$

Fl.

Ob. 1.2. a^2

Cl. 1.2. a^2

Bsn. ff mf

Cbsn. ff mf

1.3. a^2 ff mf ff 3

Hn. 2.4. ff mf ff 3

C Tpt. 1.2.3. ff mf ff 3 a^3 3

Tbn. 1.2.3. ff pp 3

Tba. ff pp 3

Timp. ff n

Perc. 1 Crot. struck, brass mallets f 1.v.

Perc. 2 T.-t. f

Hp. fff

$\text{♩} = 48$

Vln. I $\text{♩} = 48$

Vln. II

Vla. ff pp

Vc.

Db. ff pp 3

130 131 132

O

molto rit.

Picc. *ff*

Fl. *ff*

Ob. 1.2. *ff*

Cl. 1.2. *ff*

Bsn. *ff*

Cbsn. *ff*

1.3. *ff*

Hn. 2.4. *ff*

C Tpt. 1.2.3. *ff*

Tbn. 1.2.3. *ff*

Tba. *ff*

Timp. *f*

Perc. 1 Cym. *f* Brake Drum

Perc. 2 B. D. *ff*

Hp.

Vln. I *ff*

Vln. II *ff*

Vla. *ff*

Vc. *ff*

Db. *ff*

136 137 138 139

$\text{♩} = 42$

breathe when necessary

Pic.

Fl.

Ob. 1.2.

Cl. 1.2.

Bsn.

Cbsn.

1.3.

Hn.

2.4.

C Tpt. 1.2.3.

Tbn. 1.2.3.

Tba.

Timp.

Perc. 1 Br.D.

Perc. 2 B. D.

Hp.

Vln. I

Vln. II

Vla.

Vc.

Db.

half pedal, l.v.

sharply articulated

Cymbals

gliss.

pp

p

secco

fff

ppp

sim.

3

140 141 142 143 144