

AURA PON

TORRENT  
FOR FLUTES AND WATER

*for the Mount Royal Chamber flutes*







# TORRENT

## FOR FLUTES AND WATER

Torrent is inspired by the catastrophe of the flood that occurred in Calgary in June 2013, and the spirit of those who came together to overcome it. It is written for expandable flute choir and water sounds controlled live by electronics. The water sounds make audible that which is usually silent but is ever present in music-making – the musicians' muscle tension as they perform, think about, and feel their music. Data from electromyography sensors on four players is streamed to custom software that then controls propellers to agitate a large container of water. The water sounds are amplified to accompany the flute sounds.



## NOTATION LEGEND

Notation	Playing Method
<p><b>Key clicks</b></p> 	<p>With no tone, finger notes written with force to make clicks.</p>
<p><b>Feathered Beams</b></p> 	<p>Accelerando or ritardando through the notes under the feathered beam</p>
<p><b>Tongue Ram</b></p> <p><b>HT!</b></p>  <p><i>ff</i></p>	<p>Close the mouthpiece with the whole mouth, and then make a big and very rapid movement with the tongue, against the teeth. The easiest way is to say "HOT!" or "HT!". The tone which is produced will sound a major seventh below the fingered one. See <a href="http://www.s fz.se/flutetech/04.htm">http://www.s fz.se/flutetech/04.htm</a> for examples.</p>
<p><b>Air sound</b></p> 	<p>Finger the note and blow air across the flute with vibrato but without making a tone. Increase rate of vibrato with crescendos and decrease rate with decrescendos.</p>

# TORRENT

for Flutes and Water

Mysteriously  $\text{♩} = 60-66$ 

	Key clicks (uncoordinated with others)	G.P.	Key clicks	G.P.	Air sound	
Piccolo	<i>pp</i> Key clicks (uncoordinated with others)	G.P.	Key clicks	G.P.	HT! □	
Flute 1	<i>pp</i> Key clicks (uncoordinated with others)	G.P.	Key clicks	G.P.	<i>ff</i> Air sound	
Flute 2	<i>pp</i> Key clicks (uncoordinated with others)	G.P.	Key clicks	G.P.	Air sound	
Flute 3	<i>pp</i> Key clicks (uncoordinated with others)	G.P.	Key clicks	G.P.	Air sound	
Flute 4	<i>pp</i> Key clicks (uncoordinated with others)	G.P.	HT! □ <i>ff</i>	Key clicks	G.P.	HT! □
Alto Flute 1	Air sound (vibrato increases with loudness)	G.P.	<i>pp</i> Air sound	G.P.		
Alto Flute 2	Air sound (vibrato increases with loudness)	G.P.	Air sound	G.P.	Air sound	
Alto Flute 3	Air sound (vibrato increases with loudness)	G.P.	HT! □ HT! □ <i>ff</i>	Air sound	G.P.	HT! □
Bass Flute 1	HT! □ <i>ff</i>	G.P.	HT! □ HT! □ <i>ff</i>	Air sound (vibrato increases with loudness)	G.P.	HT! □ HT! □ <i>ff</i>
Bass Flute 2	HT! □ <i>ff</i>	G.P.	HT! □ HT! □ <i>ff</i>	Air sound (vibrato increases with loudness)	G.P.	HT! □ HT! □ <i>ff</i>
Contrabass Flute	HT! □ <i>ff</i>	G.P.	HT! □ HT! □ <i>ff</i>		G.P.	HT! □ HT! □ <i>ff</i>

8

Picc. Key clicks + air (uncoordinated with others) Air sound (always with vibrato) Air sound

Fl. 1 ord. *p* 5 *mf* 5 3

Fl. 2 Key clicks + air (uncoordinated with others) Air sound (always with vibrato) Air sound

Fl. 3 Key clicks + air (uncoordinated with others) Air sound (always with vibrato) Air sound

Fl. 4 Air sound Solo *espressivo* 5 3

A. Fl. 1 Air sound *ff* *ord.* *mf*

A. Fl. 2 Key clicks + air (uncoordinated with others) Air sound (always with vibrato) Air sound

A. Fl. 3 Air sound *ff* Air sound (always with vibrato) Air sound

B. Fl. 1 ord. *p* 5 *mf* Air sound (always with vibrato) Air sound

B. Fl. 2 Air sound *ff* Air sound (always with vibrato) Air sound

Cb. Fl. Air sound *ff* Air sound

**A**

17

Picc.

Fl. 1

Fl. 2

Fl. 3

Fl. 4

A. Fl. 1

A. Fl. 2

A. Fl. 3

B. Fl. 1

B. Fl. 2

Cb. Fl.

Air sound

Tutti

ord.

mf

5

3

f

mf

mf

5

3



26

Picc. Air sound

Fl. 1 *f* *> mf* 3

Fl. 2 3

Fl. 3 Air sound

Fl. 4 Air sound

A. Fl. 1

A. Fl. 2 *f* *> mf*

A. Fl. 3 ord. 5 3 *mf*

B. Fl. 1 Air sound

B. Fl. 2 Air sound

Cb. Fl. Air sound

34

Picc.

Fl. 1

Fl. 2

Fl. 3

Fl. 4

A. Fl. 1

A. Fl. 2

A. Fl. 3

B. Fl. 1

B. Fl. 2

Cb. Fl.

ord. 5

mf

3

f

mf

ord.

mf

5

3

ord.

mf

5

3

ord.

mf

5

3

B



46

Picc.

Fl. 1

Fl. 2

Fl. 3

Fl. 4

A. Fl. 1

A. Fl. 2

A. Fl. 3

B. Fl. 1

B. Fl. 2

Cb. Fl.

*f*

*mf*

*f*

*mf*

This musical score page, numbered 9 in the top right, contains measures 46, 47, and 48 for a woodwind ensemble. The instruments listed on the left are Piccolo (Picc.), Flute 1 (Fl. 1), Flute 2 (Fl. 2), Flute 3 (Fl. 3), Flute 4 (Fl. 4), Alto Flute 1 (A. Fl. 1), Alto Flute 2 (A. Fl. 2), Alto Flute 3 (A. Fl. 3), Bass Flute 1 (B. Fl. 1), Bass Flute 2 (B. Fl. 2), and Contrabass Flute (Cb. Fl.). The key signature has one sharp (F#). Flute 1 has a complex part with rapid sixteenth-note passages, often beamed in groups of five, and trills. Flute 2 and Flute 3 play sustained melodic lines with some grace notes. Flute 4 and the various Alto and Bass Flutes have more static parts, often holding long notes or playing simple rhythmic patterns. Dynamics like *f* (forte) and *mf* (mezzo-forte) are indicated for Flute 3 and Bass Flute 1. The Piccolo part is sparse, appearing in measures 46 and 48.

49

Picc.

Fl. 1

Fl. 2

Fl. 3

Fl. 4

A. Fl. 1

A. Fl. 2

A. Fl. 3

B. Fl. 1

B. Fl. 2

Cb. Fl.

*ff*

This musical score page contains measures 49, 50, and 51 for a woodwind section. The instruments are Piccolo, Flute 1, Flute 2, Flute 3, Flute 4, Alto Flute 1, Alto Flute 2, Alto Flute 3, Bass Flute 1, Bass Flute 2, and Contrabass Flute. The key signature has one sharp (F#) and the time signature is 2/4. Measure 49 features a Piccolo part with a half note G#4 and a half note A4. Flute 1 has a trill on G#4 followed by a sixteenth-note scale. Flute 2 has a half note G#4. Flute 3 has a half note G#4. Flute 4 has a half note G#4. Alto Flute 1 has a trill on G#4. Alto Flute 2 has a half note G#4. Alto Flute 3 has a half note G#4. Bass Flute 1 has a half note G#4. Bass Flute 2 has a half note G#4. Contrabass Flute has a half note G#4. Measure 50 features a Piccolo part with a half note G#4 and a half note A4. Flute 1 has a trill on G#4 followed by a sixteenth-note scale. Flute 2 has a half note G#4. Flute 3 has a half note G#4. Flute 4 has a half note G#4. Alto Flute 1 has a trill on G#4. Alto Flute 2 has a half note G#4. Alto Flute 3 has a half note G#4. Bass Flute 1 has a half note G#4. Bass Flute 2 has a half note G#4. Contrabass Flute has a half note G#4. Measure 51 features a Piccolo part with a half note G#4 and a half note A4. Flute 1 has a trill on G#4 followed by a sixteenth-note scale. Flute 2 has a half note G#4. Flute 3 has a half note G#4. Flute 4 has a half note G#4. Alto Flute 1 has a trill on G#4. Alto Flute 2 has a half note G#4. Alto Flute 3 has a half note G#4. Bass Flute 1 has a half note G#4. Bass Flute 2 has a half note G#4. Contrabass Flute has a half note G#4. The dynamic *ff* is indicated at the bottom of the page.

52

Picc.

Fl. 1

Fl. 2

Fl. 3

Fl. 4

A. Fl. 1

A. Fl. 2

A. Fl. 3

B. Fl. 1

B. Fl. 2

Cb. Fl.

This musical score page contains measures 52, 53, and 54 for a woodwind ensemble. The instruments are Piccolo, Flute 1, Flute 2, Flute 3, Flute 4, Alto Flute 1, Alto Flute 2, Alto Flute 3, Bass Flute 1, Bass Flute 2, and Contrabass Flute. The key signature has one flat (B-flat). Measure 52 features a Piccolo melody starting on a whole note, followed by eighth-note pairs. Flute 1 and Alto Flute 1 play sixteenth-note runs with trills. Flute 2 has a trill on a whole note. Flute 3 and Alto Flute 2 play half notes. Flute 4, Alto Flute 3, Bass Flute 1, Bass Flute 2, and Contrabass Flute play half notes. Measure 53 continues the Piccolo melody. Flute 1 and Alto Flute 1 have more sixteenth-note runs with trills. Flute 2 has a trill on a whole note. Flute 3 and Alto Flute 2 play half notes. Flute 4, Alto Flute 3, Bass Flute 1, Bass Flute 2, and Contrabass Flute play half notes. Measure 54 continues the Piccolo melody. Flute 1 and Alto Flute 1 have more sixteenth-note runs with trills. Flute 2 has a trill on a whole note. Flute 3 and Alto Flute 2 play half notes. Flute 4, Alto Flute 3, Bass Flute 1, Bass Flute 2, and Contrabass Flute play half notes.

54

Picc.

Fl. 1

Fl. 2

Fl. 3

Fl. 4

A. Fl. 1

A. Fl. 2

A. Fl. 3

B. Fl. 1

B. Fl. 2

Cb. Fl.

**D** HT! **Ominously**

59

Picc. *ff* HT!

Fl. 1 *ff* HT!

Fl. 2 *ff* HT!

Fl. 3 *p*  $< f >$  *p*

HT!

Fl. 4 *ff* HT!

A. Fl. 1

A. Fl. 2 *mp* 6

A. Fl. 3 *mp* 6

B. Fl. 1 5

B. Fl. 2 5

Cb. Fl. 5 *mf*



66

Picc.

Fl. 1

Fl. 2

Fl. 3

Fl. 4

A. Fl. 1

A. Fl. 2

A. Fl. 3

B. Fl. 1

B. Fl. 2

Cb. Fl.

*p* *f* *p* *mf*

3 6 6

This musical score page contains measures 66 through 71. The instruments are Piccolo, Flute 1, Flute 2, Flute 3, Flute 4, Alto Flute 1, Alto Flute 2, Alto Flute 3, Bass Flute 1, Bass Flute 2, and Contrabass Flute. Flute 2 has a melodic line starting in measure 67 with a half note G4, tied to a half note A4 in measure 68, then moving to G4, F#4, and E4 in measures 69, 70, and 71 respectively. Flute 3 has a melodic line starting in measure 67 with a half note F#4, tied to a half note G4 in measure 68, then moving to F#4, E4, and D4 in measures 69, 70, and 71 respectively. Flute 4 has a continuous eighth-note pattern throughout, with triplets in measures 66, 67, and 69, and sextuplets in measures 68 and 70. Alto Flute 2, Alto Flute 3, Bass Flute 2, and Contrabass Flute have melodic lines starting in measure 67 with a half note G4, tied to a half note A4 in measure 68, then moving to G4, F#4, and E4 in measures 69, 70, and 71 respectively. Flute 1, Alto Flute 1, Bass Flute 1, and Piccolo are silent throughout the measures.

72

Picc.

Fl. 1

*mf*

Fl. 2

*mp* 6

3

6

6

*cresc.*

Fl. 3

*-mp < f > mp*

*-mp < f > mp*

Fl. 4

*cresc.*

A. Fl. 1

A. Fl. 2

*cresc.*

A. Fl. 3

*cresc.*

B. Fl. 1

*mf*

*mf*

B. Fl. 2

*mf*

Cb. Fl.

*mp < f > mp*

Picc.   
 Fl. 1   
 Fl. 2   
 Fl. 3   
 Fl. 4   
 A. Fl. 1   
 A. Fl. 2   
 A. Fl. 3   
 B. Fl. 1   
 B. Fl. 2   
 Cb. Fl.

Musical score for the first system of "The Firebird Suite, Op. 181, No. 1, Introduction" by Igor Stravinsky. The score is for a woodwind section, including Piccolo, Flutes 1-4, Alto Flutes 1-3, Bass Flutes 1-2, and Contrabass Flute. The music is in 2/4 time and features a variety of dynamics and articulations.

84

Picc.

Fl. 1

Fl. 2

Fl. 3

Fl. 4

A. Fl. 1

A. Fl. 2

A. Fl. 3

B. Fl. 1

B. Fl. 2

Cb. Fl.

*f* *cresc.* *ff*

*f* *cresc.* *ff*

*mp* *cresc.* *f*

*mp* *cresc.* *f*

*mp* *cresc.* *f*

*mp* *mf* *f*

*f* *cresc.* *ff*

*mp* *cresc.*

*mp* *cresc.* *f*

*f* *cresc.* *ff*

*f* *cresc.*

*f*

**E**

6

6

90

Picc.

Fl. 1

Fl. 2

Fl. 3

Fl. 4

A. Fl. 1

A. Fl. 2

A. Fl. 3

B. Fl. 1

B. Fl. 2

Cb. Fl.

This musical score page, numbered 18, contains measures 90 through 95. It features ten staves for woodwind instruments: Piccolo, Flute 1, Flute 2, Flute 3, Flute 4, Alto Flute 1, Alto Flute 2, Alto Flute 3, Bass Flute 1, Bass Flute 2, and Contrabass Flute. The score is written in treble clef with a key signature of one sharp (F#). The time signature changes from 3/4 to 4/4 at measure 92 and back to 3/4 at measure 94. Flute 1 and Piccolo play a melodic line with eighth-note patterns and slurs, marked with a '5' (quint). Flute 2 plays a continuous eighth-note accompaniment. Flute 3 has a melodic line with slurs and ties. Flute 4 plays sustained chords, marked with an '8' (octave). Alto Flute 1 plays a melodic line with slurs and ties, marked with a '5'. Alto Flute 2 and Alto Flute 3 play sustained notes with slurs. Bass Flute 1 plays a melodic line with slurs and ties, marked with a '5'. Bass Flute 2 and Contrabass Flute play sustained notes with slurs.

**F**

**molto rall.** . . . . .

97

Picc.

Fl. 1

Fl. 2

Fl. 3

Fl. 4

A. Fl. 1

A. Fl. 2

A. Fl. 3

B. Fl. 1

B. Fl. 2

Cb. Fl.

**F**

*molto rall.*

**G**Solo  $\text{♩} = \text{♩}$  Molto meno mosso ( $\text{♩} = 60-68$ )Water Solo  
Water Solo(long) **H** Quietly majestic  $\text{♩} = 56-60$ 

108

Picc. *f* 5 3 *ff* *gliss.* *p*

Fl. 1 *mf* *f* *gliss.* *p*

Fl. 2 *mf* *f* *gliss.* *p*

Fl. 3 *mf* *f* *gliss.* *p*

Fl. 4 *mf* *f* *p*

A. Fl. 1 *mf* *f* *p*

A. Fl. 2 *mf* *f* *p*

A. Fl. 3 *mf* *f* *p*

B. Fl. 1 *mf* *f* *p*

B. Fl. 2 *mf* *f* *p*

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

This musical score is for a woodwind section, specifically for Piccolo and various Flute parts. The score is written for 12 measures, with a key signature of one sharp (F#) and a 4/4 time signature. The parts are arranged in a standard orchestral layout, with Piccolo at the top and Contrabass Flute at the bottom.

The parts included are:

- Picc.
- Fl. 1
- Fl. 2
- Fl. 3
- Fl. 4
- A. Fl. 1
- A. Fl. 2
- A. Fl. 3
- B. Fl. 1
- B. Fl. 2
- Cb. Fl.

The score features a variety of musical notations, including eighth notes, quarter notes, half notes, and full notes. There are also dynamic markings such as *mf* (mezzo-forte) and *mp* (mezzo-piano). A specific instruction "Solo 5" is written above the Fl. 1 staff in the final measure. The Piccolo part has a measure rest in the first measure, while the other parts have a whole note in the first measure. The Fl. 4 part has a measure rest in the first measure, while the other parts have a whole note in the first measure. The A. Fl. 1 part has a measure rest in the first measure, while the other parts have a whole note in the first measure. The A. Fl. 2 part has a measure rest in the first measure, while the other parts have a whole note in the first measure. The A. Fl. 3 part has a measure rest in the first measure, while the other parts have a whole note in the first measure. The B. Fl. 1 part has a measure rest in the first measure, while the other parts have a whole note in the first measure. The B. Fl. 2 part has a measure rest in the first measure, while the other parts have a whole note in the first measure. The Cb. Fl. part has a measure rest in the first measure, while the other parts have a whole note in the first measure.



[illegible]