



dayton hare
ESTUARY
for orchestra
(2023)

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for orchestra

Instrumentation

2 Flutes

2 Oboes

2 Clarinets in B-flat (2nd doubles Bass Clarinet)

2 Bassoons

4 Horns in F (w/ straight mute)

3 Trumpets in C (w/ harmon mute)

2 Trombones (w/ harmon mute)

Bass Trombone (w/ harmon mute)

Tuba (w/ straight mute)

Percussion 1: Glockenspiel (w/ knitting needles)

Percussion 2: Crotales (w/ knitting needles and two bows), Bass Drum, Suspended Cymbal

Percussion 3: Vibraphone (w/ soft yarn mallets and two bows)

Timpani

Harp

Celesta (or synthesizer with celesta sound)

Violin I

Violin II

Viola

Cello

Double Bass

SCORE IN C

Program Note

The Colorado River is the lifeblood of the American Southwest. Starting from its headwaters in the Rockies, throughout an otherwise arid region the river irrigates vast hectares of agricultural land and provides millions of people with drinking water. As one of those millions during my childhood, thoughts of where the water came from or where it went rarely crossed my mind. But today, as climate change places an ever greater strain on the river system, I often think about its imperiled future. A combination of drought, poor planning, and bad policy nearly emptied the river's reservoirs last year, but for decades before it had been drying up downstream, dammed and diverted for human consumption. At the Colorado's mouth, where in centuries past the river formed an estuary with the Gulf of California, the desert has overtaken the riverbed and water rarely reaches the ocean. Now, like so much of the natural world in the anthropocene, the estuary exists only in the traces left behind in the memory of the earth. My piece follows the river's course, from the stillness of snow-capped peaks to the stillness of the dry desert riverbed, in what I hope is my own small contribution to this memory.

Notes for Performance

General

The score is in C. Notes are written at sounding pitch, with the exception of the usual octave transpositions for Celesta, Glockenspiel, Crotales, and Double Bass.

This piece uses a combination of sixth tones and quarter tones. Sixth tones are similar in tuning to the 7th harmonic, and are indicated by an arrow adjustment to an accidental.

#	1/4 sharp	#	3/4 sharp
d	1/4 flat	ø	3/4 flat
↑	1/6 sharp	↓	4/6 flat

Winds

Flutes are asked to produce whisper/whistle tones. If found to be inaudible in the performance space, quietly play random harmonics on the given fundamental, imitating the instability of whistle tones.

Percussion

Percussionists are asked to play Glockenspiel and Crotales with knitting needles as beaters in order to achieve a lighter sound.

Harp

Harp harmonics are notated an octave below the desired sounding pitch.

Strings

- sul pont. Play with the bow close to the bridge
- sul tasto Play with the bow over the fingerboard
- ord. Ordinary bow placement
-  Scratch Tone produced by heavy bow pressure
-  Move from one playing technique to another

for the Yale Philharmonia

SCORE IN C

Estuary

Dayton Hare

$\text{♩} = 60$ With a profound sense of stillness, the wind whistles over snow-capped peaks

random whistle tones on fundamental, as loud as possible, breath as needed

11

Musical score for Flute, Oboe, Clarinet in Bb, and Bassoon sections. The score consists of four staves. The first two staves are for Flute (1st and 2nd) and Oboe (1st and 2nd). The third and fourth staves are for Clarinet in Bb (1st and 2nd) and Bassoon (1st and 2nd). The music is in common time (indicated by a '4'). The dynamic instruction 'random whistle tones on fundamental, as loud as possible, breath as needed' is placed above the Flute and Oboe staves. Measure 11 is indicated at the top right.

$\text{♩} = 60$ With a profound sense of stillness, the wind whistles over snow-capped peaks

11

Musical score for French Horn in F, Trumpet in C, Trombone, Bass Trombone, Tuba, and Timpani sections. The score consists of six staves. The first three staves are for French Horn (1st and 2nd), Trumpet (1st and 2nd), and Trombone (1st and 2nd). The fourth and fifth staves are for Bass Trombone and Tuba respectively. The sixth staff is for Timpani. The music is in common time (indicated by a '4'). Measure 11 is indicated at the top right.

$\text{♩} = 60$ With a profound sense of stillness, the wind whistles over snow-capped peaks

Glock. w/ knitting needles

11

Musical score for Percussion 1, Percussion 2, and Percussion 3 sections. The score consists of three staves. The first staff is for Percussion 1, the second for Percussion 2, and the third for Percussion 3. The music is in common time (indicated by a '4'). Dynamic markings include p , pp , $w/ knitting needles$, $arco$, $soft yarn mallets$, and $pp \leftarrow p$. Measure 11 is indicated at the top right.

$\text{♩} = 60$ With a profound sense of stillness, the wind whistles over snow-capped peaks

Musical score for Celesta and Harp sections. The score consists of two staves. The first staff is for Celesta and the second for Harp. The music is in common time (indicated by a '4'). Dynamic markings include pp , p , pp , p , and $pp \leftarrow p$. Measure 11 is indicated at the top right.

$\text{♩} = 60$ With a profound sense of stillness, the wind whistles over snow-capped peaks

Musical score for Violin I, Violin II, Viola, Violoncello, and Double Bass sections. The score consists of five staves. The first two staves are for Violin I (1st and 2nd), the third for Violin II, the fourth for Viola, the fifth for Violoncello, and the sixth for Double Bass. The music is in common time (indicated by a '4'). Dynamic markings include $1-2$, $3-4$, $5-6$, ppp , ppp , ppp , $pizz.$, p , and $pizz.$. Measure 11 is indicated at the top right.

Estuary

12

Fl.

Ob.

Cl. in B♭

Bsn.

F. Hn in F

Tpt in C

Tbn.

B. Tbn.

Tba

Timp.

Perc. 1
w/ knitting needles

Perc. 2
arco

Perc. 3
soft yarn mallets

Cel.

Hp.

Vln I 1-2
3-4
5-6

Vln II

Vla

Vc.

D. B.

16

poco rit.

16

poco rit.

16

poco rit.

16

poco rit.

II

8va

Estuary

7

Estuary

This image shows a multi-page musical score for a large orchestra. The score is divided into two main sections: measures 31-35 and measures 36-40. The instrumentation includes woodwinds (Flute, Oboe, Clarinet in Bb, Bassoon), brass (French Horn in F, Trumpet in C, Trombone, Bass Trombone, Tuba), percussion (Timpani, Percussion 1, Percussion 2, Percussion 3), strings (Cello, Double Bass, Violin I, Violin II, Viola, Cello, Double Bass), and a harp. Measure 31 begins with a rest followed by sustained notes from the woodwinds and brass. Measures 32-35 show a rhythmic pattern of eighth and sixteenth notes with dynamics pp, mp, p, and mf. Measure 36 features a dynamic pp and a performance instruction 'To Crot.'. Measures 37-40 continue the rhythmic pattern with dynamics pp, mp, p, and pp. Measure 41 concludes with a dynamic ppp and a performance instruction '8va'. The score uses a mix of common time and measures with a 3/4 or 2/4 feel.

A page from a musical score for orchestra, showing measures 37 through 41. The score is arranged in four systems. The first system (measures 37-41) includes parts for Flute (Fl.), Oboe (Ob.), Clarinet in B-flat (Cl. in B♭), Bassoon (Bsn.), French Horn in F (F. Hn. in F.), Trumpet in C (Tpt. in C), Trombone (Tbn.), Bass Trombone (B. Tbn.), and Bassoon (Tba.). The second system (measures 41-41) includes parts for Timpani (Timp.), Percussion 1 (Perc. 1), Percussion 2 (Perc. 2), Percussion 3 (Perc. 3), Cello (Cel.), Double Bass (Hpf.), Violin I (Vln I), Violin II (Vln II), Viola (Vla.), and Cello/Bass (D. B.). The third system (measures 41-41) includes parts for Violin I (Vln I), Violin II (Vln II), Viola (Vla.), and Cello/Bass (D. B.). The fourth system (measures 41-41) includes parts for Violin I (Vln I), Violin II (Vln II), Viola (Vla.), and Cello/Bass (D. B.). The score features various dynamics such as *p*, *pp*, *mp*, and *tr*. Measure 41 contains a dynamic instruction *bisbigliando*.

Estuary

Musical score for orchestra and piano, page 45-48. The score includes parts for Flute (Fl.), Oboe (Ob.), Clarinet in B-flat (Cl. in B \flat), Bassoon (Bsn.), French Horn in F (F. Hn. in F.), Trumpet in C (Tpt. in C), Trombone (Tbn.), Bass Trombone (B. Tbn.), Double Bass (Tba.), Timpani (Timp.), Percussion 1 (Perc. 1), Percussion 2 (Perc. 2), Percussion 3 (Perc. 3), Cello (Cel.), Double Bass (D. B.), and Piano.

The score consists of four systems of music, each starting at measure 45 and ending at measure 48. The instrumentation varies by system, with some instruments appearing in one system and not another. Measure 45 features woodwind entries (Flute, Oboe, Clarinet) with dynamic markings like p , pp , and mf . Measure 46 shows a transition with dynamic changes and rhythmic patterns. Measures 47 and 48 feature brass and woodwind entries, with dynamics such as p , mp , f , and mf . The score concludes with a final section in measure 48, featuring sustained notes and dynamic markings like p , pp , and mp .

Estuary

57 ♩ = 72 Regaining clarity, flowing

Fl.

Ob.

Cl. in B \flat

B. Cl.

Bsn.

E. Hn in F

Tpt in C

Tbn.

B. Tbn.

Tba

Tim.

Perc. 1

Perc. 2

Perc. 3

Cel.

Hp

Vln I

Vln II

Vla

Vc.

D. B.

57 ♩ = 72 Regaining clarity, flowing

57 ♩ = 72 Regaining clarity, flowing

57 ♩ = 72 Regaining clarity, flowing

7th partial of E IV

63

Fl. 1
Fl. 2
Ob. 1
Ob. 2
Cl. in B \flat 1
B. Cl.
Bsn
E. Hn in F
Tpt in C 2
Tbn.
B. Tbn.
Tba
Timp.
Perc. 1
Perc. 2
Perc. 3
Cel.
Hp
I
II
Vla.
Vc.
D. B.

(sul pont.) → ord.
ord. → *sul pont.*
sul pont. → ord.
(ord.) → *sul pont.*
sul pont. → ord.
ord. → *sul pont.*
ord. → *sul pont.*

IV

Estuary

Musical score for orchestra and choir, page 73. The score consists of three systems of music. The first system (measures 68-73) includes parts for Flute (Fl.), Oboe (Ob.), Clarinet in B-flat (Cl. in B♭), Bassoon (Bsn), Bass Clarinet (B. Cl.), Trombone (Tbn.), Bass Trombone (B. Tbn.), Tuba (Tba), Timpani (Timp.), Percussion 1 (Perc. 1), Percussion 2 (Perc. 2), Percussion 3 (Perc. 3), Cello (Cel.), Double Bass (D. B.), Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Cello (Vcl.), and Double Bass (D. B.). The second system (measures 73-78) includes parts for Flute (Fl.), Oboe (Ob.), Clarinet in B-flat (Cl. in B♭), Bassoon (Bsn), Bass Clarinet (B. Cl.), Trombone (Tbn.), Bass Trombone (B. Tbn.), Tuba (Tba), Timpani (Timp.), Percussion 1 (Perc. 1), Percussion 2 (Perc. 2), Percussion 3 (Perc. 3), Cello (Cel.), Double Bass (D. B.), Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Cello (Vcl.), and Double Bass (D. B.). The third system (measures 78-83) includes parts for Flute (Fl.), Oboe (Ob.), Clarinet in B-flat (Cl. in B♭), Bassoon (Bsn), Bass Clarinet (B. Cl.), Trombone (Tbn.), Bass Trombone (B. Tbn.), Tuba (Tba), Timpani (Timp.), Percussion 1 (Perc. 1), Percussion 2 (Perc. 2), Percussion 3 (Perc. 3), Cello (Cel.), Double Bass (D. B.), Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Cello (Vcl.), and Double Bass (D. B.). Various dynamics and performance instructions are provided throughout the score.

Estuary

Estuary

17

Ecstasy

95

poco rit...a tempo

Fl.

Ob.

Cl. in Bb

Bsn.

Tbn.

Tpt in C

B. Tbn.

Tba

Tim.

Perc. 1

Perc. 2

Perc. 3

Cel.

Hp

Vln

Vla

Vc.

D. B.

Estuary

A detailed musical score page for orchestra and percussion. The top section features woodwind instruments (Flute 1, Flute 2, Oboe 1, Oboe 2, Clarinet in B-flat 1, Bassoon 1, Bassoon 2) playing eighth-note patterns at *ppp* dynamic. The middle section shows brass and woodwind instruments (French Horn in F 1-4, Trumpet in C 1-3, Trombone 1-2, Bass Trombone, Tuba) performing rhythmic patterns with dynamics ranging from *fp* to *ff*. The bottom section includes percussion (Timpani, Percussion 1-3, Bass Drum) and strings (Violin I, Violin II, Viola, Cello, Double Bass) with complex sixteenth-note patterns and dynamics like *tr*, *f*, *p*, *mp*, *mf*, *ff*, and *fff*.

Estuary

113

accel. $\text{J} = 72$ Emerging from the sound, with movement

Fl. 1
Fl. 2
Ob. 1
Ob. 2
Cl. in B♭ 1
B. Cl.
Bsn. 1
Bsn. 2

113

accel. $\text{J} = 72$ Emerging from the sound, with movement

E. Hn in F 1
E. Hn in F 2
E. Hn in F 3
E. Hn in F 4
Tpt in C 1
Tpt in C 2
Tpt in C 3
Tpt in C 4
Tbn. 1
Tbn. 2
B. Tbn.
Tba
Timpani

113

accel. $\text{J} = 72$ Emerging from the sound, with movement

Perc. 1
Perc. 2
Perc. 3

113

accel. $\text{J} = 72$ Emerging from the sound, with movement

Cel.
Hpf

113

accel. $\text{J} = 72$ Emerging from the sound, with movement

Vln I
Vln II
Vla
Vcl
D. B.

117

Estuary

rit. 123 **J = 54** A reminiscence

Fl. 1
Fl. 2
Ob. 1
Ob. 2
Cl. in B♭ 1
B. Cl.
Bsn. 1
Bsn. 2

poco accel. 130 **J = 60**

rit. 125 **J = 54** A reminiscence

F. Hn in F 1
F. Hn in F 2
F. Hn in F 3
F. Hn in F 4
Tpt in C 1
Tpt in C 2
Tpt in C 3
Tpt in C 4
Tbn. 1
Tbn. 2
B. Tbn.
Tba
Timp.

poco accel. 130 **J = 60**

rit. 125 **J = 54** A reminiscence
Glock w/ knitting needles

Perc. 1
Perc. 2
Perc. 3

poco accel. 130 **J = 60**

rit. 125 **J = 54** A reminiscence

Cel.
Hp

poco accel. 130 **J = 60**

rit. 125 **J = 54** A reminiscence

I
Vln. I
Vln. II
Vla
Vc.
D. B.

poco accel. 130 **J = 60**

132

poco rit. 136 $\text{♩} = 54$

Fl.

Ob.

Cl. in B♭ 1

B. Cl.

Bsn.

E. Hn in F

Tpt in C 2

Tbn.

B. Tbn.

Tba

Tim.

Perc. 1

Perc. 2

Perc. 3

Cel.

Hp

Vln

Vla

Vc.

D. B.

139

136 poco rit. $\text{♩} = 54$

139

Estuary

140 rit. ***J = 48***

Fl.
Ob.
Cl. in B \flat 1
B. Cl.
Bsn.
F. Hn in F
Tpt in C 2
Tbn.
B. Tbn.
Tba
Timpani
Perc. 1
Perc. 2
Perc. 3
Cel.
Hpf
Vln I
Vln II
Vla
Vc.
D. B.