

Bioluminescence

for reduced orchestra

score



Kristine Tjøgersen 2017
rev 2020



Kristine Tjøgersen: Bioluminescence for orchestra (2017/2020)

Version for SWR Symphonie Orchester (reduced orchestra due to the Covid-19 restrictions) commissioned by SWR for the ECLAT Festival 2021.

28 LED lights* for the orchestra, 1 LED light* for the conductor

Screen with timer, connected to computer with film* with timer.

3 Flutes, player 3 doubling on Piccolo

2 Oboes

2 Bb Clarinets, player 2 doubling on Bass Clarinet

2 Bassoons

1 Horn, doubling on Wind Wand* and Wine Glass* tuned in A2

1 Trumpet in C, doubling on Wind Wand* and Wine Glass* tuned in quarter tone high G2

1 Trombone, doubling on Wind Wand* and Wine Glass* tuned quarter tone high A2

1 Tuba, doubling on Wind Wand* and Wine Glass* tuned in G2

Percussion 1: Bass Drum played with sponge and mallet, Plastic tube, Flexatone played with a bow
Vibraphone with motor played with bow + mallet

Percussion 2: Timpani (29 inch) played with sponge and hex bug*, Flexatone played with a bow,
Small thunder sheet, Ratchet (soft in sound can be a plastic toy ratchet)

Percussion 3: Timpani (32 inch) played with sponge, super ball mallet, rubber ball, hex bug* and Milk steamer with
gaffa tape*, Air spray (dust spray)*

6 Violin I

6 Violin II

4 Viola

3 Violoncello

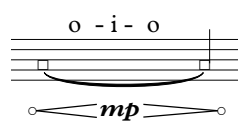
2 Double Bass

All the violin, viola and cello players must have a pencil.

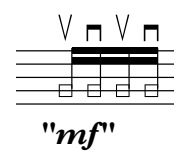
Duration: approx. 10-12 minutes

Score in C

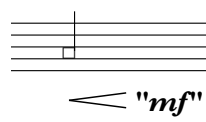
Winds:



air sound into the instrument with pronounced letters



inhale-exhale-inhale-exhale into the instrument

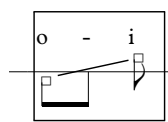


air sound

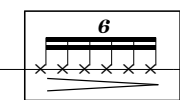


slap tongue

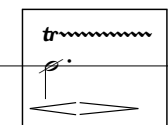
Brass:



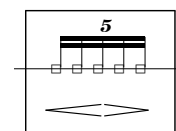
air sound into the instrument with pronounced letters



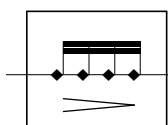
slap tongue



tongue tremolo, sounding like a helicopter

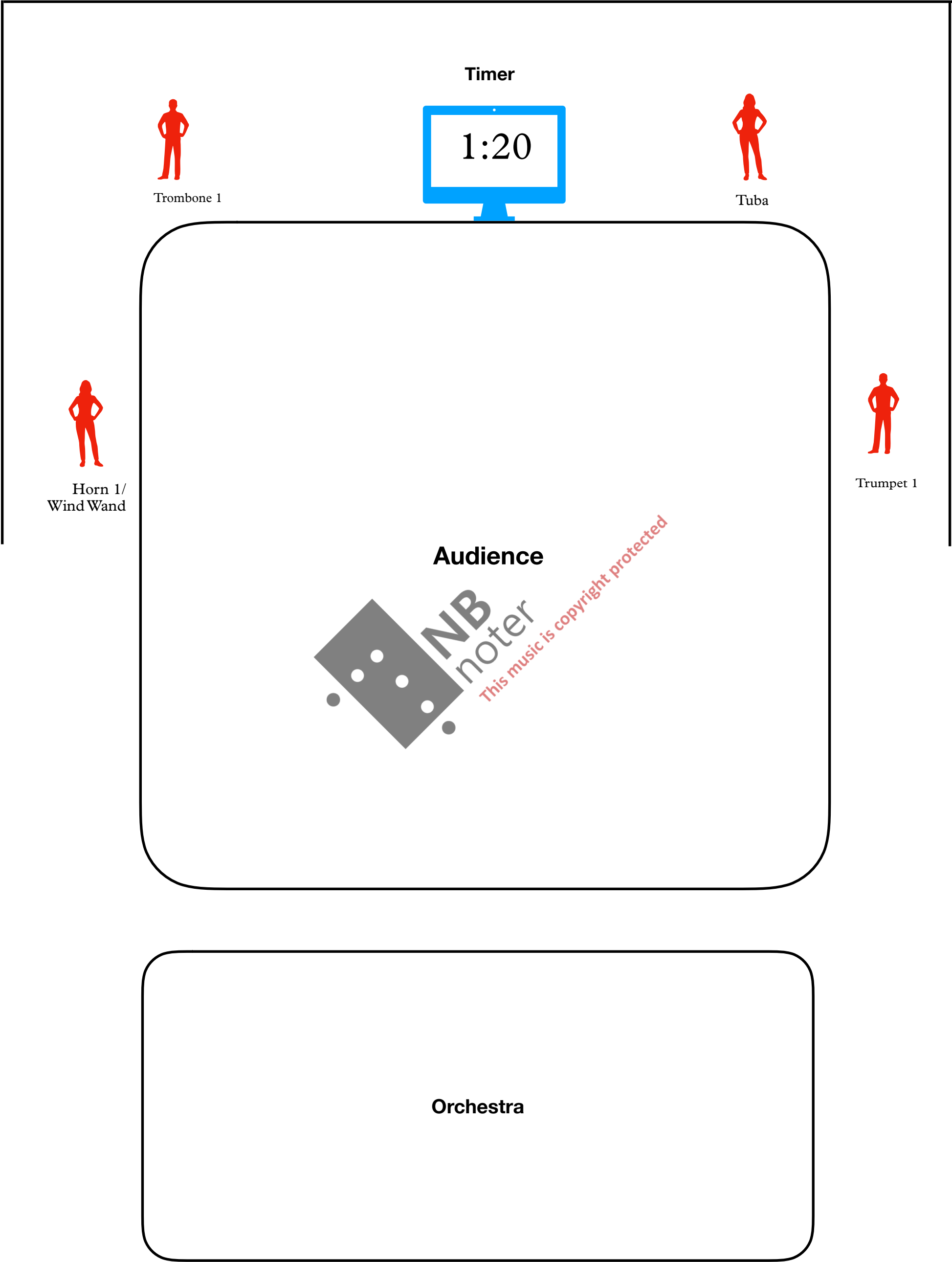


air sound



hit mouthpiece with hand

Suggested Stage Plot



The piece begins in darkness.
Players are repeatedly blinking individual firefly flash patterns with flashlights/LED-lights holding the hand high, facing the audience.
Attend the pauses!
Timer is shown on a screen in the back of the hall.
The piece is to be played by heart up to 4:00 (mark F)

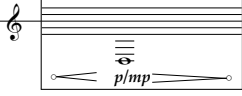
SCORE IN C

0:00 min
conductor gives
one blink cue to start
the timer

Bioluminescence

for Orchestra
Version for SWR Symphonie Orchester

Kristine Tjøgersen
2017
rev. 2020

	0:10 min	0:20 min
Flute 1	 5 4	
Flute 2	 solo hand upwards 5 4 6	
Flute 3/ Piccolo		
Oboe 1		 5 4
Oboe 2		
Clarinet 1		
Clarinet 2/ Bass Clarinet		bass clarinet make pauses in between  p/mp
Bassoon 1		
Bassoon 2		 5 4
Horn	Throughout the piece, all brass players are situated around the audience in the concert hall (see stage plot)	
Trumpet		
Trombone		
Tuba		
Percussion 1		
Percussion 2		
Percussion 3	sponge on timpani, like wind  variate tempo and length, leave gaps in between	
Violin I player 1	 sol 5 4	
Violin I player 2		
Violin I player 3		
Violin I player 4		
Violin I player 5		 solo hand upwards 5 4
Violin I player 6		
Violin II player 1	 5 4	
Violin II player 2		
Violin II player 3		
Violin II player 4	 solo hand upwards 8 4	
Violin II player 5		
Violin II player 6		
Viola player 1		
Viola player 2		 4 4
Viola player 3		
Viola player 4		
Violoncello player 1	 5 4	
Violoncello player 2		
Violoncello player 3		
Double Bass player 1		solo molto sul pont, sul A, rich overtones, small variations of position of trill, leave gaps in between  mp
Double Bass player 2		

repeat the boxes in ad lib order,
make small variations of playing, with long
breaks after one or two boxes, misterioso

Hn.

C Tpt.

Trb.

Tba.

Perc. 1

Perc. 2

Perc. 3

Vln. I (1)

Vln. I (2)

Vln. I (3)

Vln. I (4)

Vln. I (5)

Vln. I (6)

Vln. II (1)

Vln. II (2)

Vln. II (3)

Vln. II (4)

Vln. II (5)

Vln. II (6)

Vla. (1)

Vla. (2)

Vla. (3)

Vla. (4)

Vlc. (1)

Vlc. (2)

Vlc. (3)

Db. (1)

Db. (2)

200 mm

NB
noter
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□

3:30 min 3:35 min 3:40 min 3:45 min 3:50 min 4:00 min long fermata

Hn. Trp. Trb. Tba. Perc. 2 Perc. 3 Vln. I (1) Vln. I (2) Vln. I (3) Vln. I (4) Vln. I (5) Vln. I (6) Vln. II (1) Vln. II (2) Vln. II (3) Vln. II (4) Vln. II (5) Vln. II (6) Vla. (1) Vla. (2) Vla. (3) Vla. (4) Vlc. (1) Vlc. (2) Vlc. (3) Db. (1) Db. (2)

Wind Wand Wind Wand Wind Wand Wind Wand

rubber mallet on timpani 32 inch mf tune the timpani slowly up and down solo

solo turn on the stand light fast ricochet, damped strings, molto sul tasto

solo turn on the stand light solo turn on the stand light col legno tratto vertical/circular bow, damped strings

solo turn on the stand light solo - player 2 turns on the stand light small irregular gliss, as high as poss.

solo turn on the stand light col legno battuto, damped strings

solo turn on the stand light col legno tratto vertical/circular bow, damped strings

solo turn on the stand light col legno battuto, damped strings

solo turn on the stand light fast ricochet, damped strings, molto sul tasto

solo turn on the stand light col. leg. bat. damped strings irregular

solo turn on the stand light col legno tratto vertical/circular bow, damped strings

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31

Fl. 1

Fl. 2

Fl. 3

Ob. 1

Ob. 2

Cl. 1

Cl. 2

Bsn. 1

Bsn. 2

Hn.

Trb.

Perc. 1

Perc. 2

Perc. 3

Vln. I

Vln. I

Vln. I

Vln. II

Vln. II

Vln. II

Vla.

Vlc.

Vlc.

Db.

reed off

o - i - o

mp

reed off

o - i - o

mp

o - i - o

mp

bass clarinet

o - i - o

mp

o - i - o

mp

o - i - o

mp

wine glass

wine glass

sponge on timpani
continuous sound (white noise)

"mp"

sponge on bass drum
air sound

mp

mf

sponge on timpani

p

mf

player 1-3
con sord.

player 4-5
sul A

colour rich in overtones
molto pont.

player 6
sul A

player 1-3
con sord.

player 4-5
sul D

colour rich in overtones
molto pont.

player 6
sul A

arco on bridge (white noise)

"mp"

player 1
arco on bridge (white noise)

"mp"

player 2-3
arco on bridge (white noise)

"mp"

arco on bridge (white noise)

"mp"

arco on bridge (white noise)

div.

p

arco on bridge (white noise)

div.

p

solo
fast ricochet,
high as poss. pitch

mf

vertical bowing, big movement
with hair of the bow,
damped strings, no bow pressure
air sound

"mf"

5

"f"

vertical bowing, big movement
with hair of the bow,
damped strings, no bow pressure
air sound

"mf"

5

"f"

vertical bowing, big movement
with hair of the bow,
damped strings, no bow pressure
air sound

tutti

"f"

5

37

Fl. 1

Fl. 2

Fl. 3

Ob. 1

Ob. 2

Cl. 1

Cl. 2

Bsn. 1

Bsn. 2

Hn.

Trb.

Perc. 1

Perc. 2

Perc. 3

Vln. I

Vln. II

Vla.

Vlc.

Db.

rrrrr... flz

mf

pizzicato

irregular whistle tone

mf

reed off

o - i - o

mp

mp

f

reed off

o - i - o

mp

mp

f

o - i - o

mp

o - i - o

mp

wine glass

wine glass

sponge on bass drum air sound

mp

mf

sponge on timpani continuous sound (white noise)

mp

p

sponge on timpani air sound

p

mf

con sord.

colour rich in overtones molto pont.

sul A

p

sul A

p

con sord.

colour rich in overtones molto pont.

sul D

p

sul A

p

arco on bridge (white noise)

"mp"

player 1 arco on bridge (white noise)

"mp"

player 2-3 arco on bridge (white noise)

"mp"

div.

arco on bridge (white noise)

p

vertical bowing, big movement with hair of the bow, damped strings, no bow pressure air sound

"mf"

vertical bowing, big movement with hair of the bow, damped strings, no bow pressure air sound

"mf"

tutti

vertical bowing, big movement with hair of the bow, damped strings, no bow pressure air sound

"f"

solo fast ricochet, high as poss. pitch

mf

div.

n

mf

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43

Fl. 1 *f* *mp* *cover the embouchure hole* *mf*

Fl. 2 *f* *mp* *cover the embouchure hole* *mf*

Fl. 3 *flute* *cover the embouchure hole* *mf*

Ob. 1 *mf*

Ob. 2 *mf*

Cl. 1 *f* *mp* *mf*

Cl. 2 *f* *mp* *mf*

Bsn. 1 *mf*

Bsn. 2 *mf*

Hn. *wine glass* *mf*

Trb. *wine glass* *mf*

Perc. 1 *bass drum* *bass drum mallet* *p* *pp* *continuous sound (white noise)* *mp*

Perc. 2 *mf* *mp*

Perc. 3 *p* *pp*

Vln. I *colour rich in overtones* *molto pont.* *p*

Vln. I *colour rich in overtones* *molto pont.* *p*

Vln. I *colour rich in overtones* *molto pont.* *p*

Vln. II *colour rich in overtones* *molto pont.* *p*

Vln. II *colour rich in overtones* *molto pont.* *p*

Vln. II *colour rich in overtones* *molto pont.* *p*

Vla. *arco on bridge (white noise)* *"mp"* *div.* *mp*

Vla. *arco on bridge (white noise)* *"mp"* *div.* *mp*

Vc. *player 1 molto sul pont.* *gliss.* *mf* *mp* *arco on bridge (white noise)* *"mp"*

Vc. *player 2 molto sul pont.* *player 3 ord.* *gliss.* *mf* *mp* *arco on bridge (white noise)* *"mp"*

Db. *fast ricochet on damped A-string, dark sound* *player 1* *player 2* *player 1* *tutti arco on bridge (white noise)* *"mp"* *div.* *mp*

[illegible]

Fl. 1

Fl. 2

Fl. 3

Ob. 1

Ob. 2

Cl. 1

Cl. 2

Bsn. 1

Bsn. 2

Perc. 3

Vln. II

Vln. II

Vla.

Vla.

Vlc.

Db.

Db.

inhale - exhale

mf *f*

inhale - exhale

mf *f*

sponge on timpani

mp

tremolo with pencil between strings, between fingerboard and bridge, damped strings

III-IV

player 1-3

tremolo with pencil between strings, between fingerboard and bridge, damped strings

III-IV

player 4-6

tremolo with pencil between strings, between fingerboard and bridge, damped strings

III-IV

player 1-2

tremolo with pencil between strings, between fingerboard and bridge, damped strings

III-IV

player 3-4

tremolo with pencil between strings, between fingerboard and bridge, damped strings

III-IV

a3

mp

p

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[illegible]

jet whistle

ff

5

jet whistle

ff

o - i

p

ff

o - i

p

ff

o - i

p

ff

o - i

p

ff

o - i

p

ff

slap

f

o - i

p

ff

o - i

p

ff

mf

gliss.

mp

NB

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Fl. 1

Fl. 2

Fl. 3

Ob. 1

Ob. 2

Cl. 1

Cl. 2
to Bb clarinet

Bsn. 1

Bsn. 2

Vln. I

Vln. II

Vln. I

Vln. II

Vla. 1-2

Vla. 3-4

Vlc.

Db.

Db.

fast tremolo with pencil
between strings,
between fingerboard
and bridge,
damped strings

III-IV

p

f

fast tremolo with pencil
between strings,
between fingerboard
and bridge,
damped strings

III-IV

f

mp

fast tremolo with pencil
between strings,
between fingerboard
and bridge,
damped strings

III-IV

p

mf

p

fast tremolo with pencil
between strings,
between fingerboard
and bridge,
damped strings

III-IV

mp

f

fast tremolo with pencil
between strings,
between fingerboard
and bridge,
damped strings

III-IV

mp

f

mp

fast tremolo with pencil
between strings,
between fingerboard
and bridge,
damped strings

III-IV

f

p

molto sul pont, sul A, rich overtones,
approximate position of trill,
small variations of position of trill

pp

mp

pp

p

77 airy flutter w/hint of tone

Fl. 1

mp

Fl. 2

mp

Fl. 3

mp

Ob. 1

mp

Ob. 2

mp

Cl. 1

M3

mf

Cl. 2

Bb clarinet

M4

mf

Bsn. 1

1/51 M16

mf

Bsn. 2

1/49 M15

mf

Perc. 1

mp

Perc. 2

mp

Vln. I

mf

Vln. I

<mf>

Vln. II

<mf>

Vln. II

mf

Vla. (1)

<mf>

Vla. (2)

<mf>

Vlc.

<mf>

mf

mp

Db.

(tr)

mf

Db.

mf

f

NB noter

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[illegible]

[illegible]

[illegible]

O $\text{♩} = 86$
cover the embouchure hole
completely by the lips
jet whistle

cover the embouchure hole
completely by the lips
rrr...
no tone

jet whistle

109

Fl. 1

cover the embouchure hole
completely by the lips
no tone
rrr... (flz.)
jet whistle

Fl. 2

cover the embouchure hole
completely by the lips
no tone
rrr... (flz.)
jet whistle

Fl. 3

bisb.
tr

Ob. 1

bisb.
tr

Ob. 2

no tone
rrr... (flz.)

Cl. 1

Bb Clarinet

Cl. 2

no tone
rrr... (flz.)

Bsn. 1

no tone
rrr... (flz.)

Bsn. 2

flexatone
with bow

Perc. 1

flexatone
with bow

Perc. 2

milk steamer w/ gaffa
on the timpani rim

Perc. 3

sul pont
tutti

Vln. I

player 1-3

Vln. II

player 4-6
nail pizz. behind
bridge sul E
damped strings

Vla.

Vlc.

Db.

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114 23

Fl. 1 *fff...* *f* *jet whistle* *fff* *no tone* *fff...* *f* *fff...* *f*

Fl. 2 *fff...* *f* *fff...* *f* *jet whistle* *fff...* *f* *fff...* *f*

Fl. 3 *jet whistle* *fff* *fff...* *f* *fff...* *f* *fff...* *f* *fff...* *f*

Ob. 1 *(tr)* *p* *bisb.* *p* *mp* *p* *bisb.* *p* *mp* *p* *bisb.* *p* *mp* *p*

Ob. 2 *(tr)* *p* *bisb.* *p* *mp* *p* *bisb.* *p* *mp* *p* *bisb.* *p* *mp* *p*

Cl. 1 *fff...* *f* *fff...* *p* *mp* *f* *fff...* *f* *fff...* *f*

Cl. 2 *fff...* *f* *fff...* *p* *mp* *f* *fff...* *p* *mp* *f* *fff...* *f* *fff...* *f*

Bsn. 1 *fff...* *f* *fff...* *p* *mp* *f* *fff...* *p* *mp* *f* *fff...* *f* *fff...* *f*

Bsn. 2 *fff...* *f* *fff...* *p* *mp* *f* *fff...* *p* *mp* *f* *fff...* *f* *fff...* *f*

Hn *Wind Wand*

Trp. *Wind Wand*

Trb. *Wind Wand*

Tba. *Wind Wand*

Perc. 1 *gliss.* *3* *gliss.* *gliss.* *gliss.* *gliss.* *gliss.* *gliss.* *gliss.* *gliss.*

Perc. 2 *gliss.* *3* *gliss.* *gliss.* *gliss.* *gliss.* *gliss.* *gliss.* *gliss.* *gliss.*

Perc. 3 *3* *3* *3* *3* *3* *3* *3* *3* *3* *3*

Vln. I *3* *3* *3* *3* *3* *3* *3* *3* *3* *3*

Vln. II *3* *3* *3* *3* *3* *3* *3* *3* *3* *3*

Vla. *3* *3* *3* *3* *3* *3* *3* *3* *3* *3*

Vlc. *3* *3* *3* *3* *3* *3* *3* *3* *3* *3*

Db. *3* *3* *3* *3* *3* *3* *3* *3* *3* *3*

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[illegible]

122

Fl. 1

Fl. 2

Fl. 3

Ob. 1

Ob. 2

Cl. 1

Cl. 2

Bsn. 1

Bsn. 2

Hn.

Trp.

Trb.

Tba.

Vln. I

Vln. II

Vla.

Vlc.

Db.

sol
M5
beautiful multiphonic

sol
iM6
beautiful multiphonic

reed off

inhale

exhale

f

mf

f

mf

f

mf

f

mf

mp

mf

mf

mp

mf

mf

mp

mf

mp

1/59 (nrIII)
rolling note

p

ppp

air
exhale

mf

f

mf

f

mf

f

mf

f

129

Fl. 1

airy flutter w/hint of tone mf

jet whistle p fff

airy flutter w/hint of tone $mf > p$

jet whistle cover the embouchure plate with the lips mp ff mp

jet whistle mp ff mp

jet whistle mp ff mp

jet whistle fff

Fl. 2

airy flutter w/hint of tone mf

jet whistle $mf > p$ fff

jet whistle cover the embouchure plate with the lips mp ff mp

jet whistle mp ff mp

Fl. 3

airy flutter w/hint of tone mf

jet whistle $mf > p$

jet whistle cover the embouchure plate with the lips mp ff mp

jet whistle mp ff mp

Ob. 1

bisb. mp

bisb. mp

reed off

Ob. 2

inhale mf f

exhale mf f

Cl. 1

mp

Cl. 2

mp

mf

mp

exhale - inhale f

Bsn. 1

1/59 (nrIII) rolling note mp pp

exhale - inhale f

Bsn. 2

$mf < f$

$mf < f$

mf f

exhale ff

Vln. I

two players independently individual tempo

trem. high as possible, irregular, make breaks in between, sounding like insects

Vln. II

two players independently individual tempo

small irregular gliss, as high as poss, sounding like insects.

Vla.

Vlc.

Db.

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134

R

jet whistle

cover the embouchure plate with the lips

irregular whistle tone

Fl. 1

Fl. 2

Fl. 3

Ob. 1

Ob. 2

Cl. 1

Cl. 2

Bsn. 1

Bsn. 2

C Tpt.

Tba.

Vib.

Perc. 2

Perc. 3

Vln. I

Vln. II

Vla.

Vlc.

Db.

mp

ff

mp

mf

mp

ff

mp

inhale - exhale

f

inhale - exhale

f

inhale - exhale

f

o - i

mf

f

o - i

mf

f

o - i

mf

f

wine glass

mf

wine glass

mf

wooden end of the mallet

mf

l.r.

toy / plastic ratchet (soft)

slower

rit.....

guiro

slower

rit.....

l.r.

two players independently individual tempo

col legno tratto

vertical / circular bow,

damped strings st. - sp.

sounding like insects.

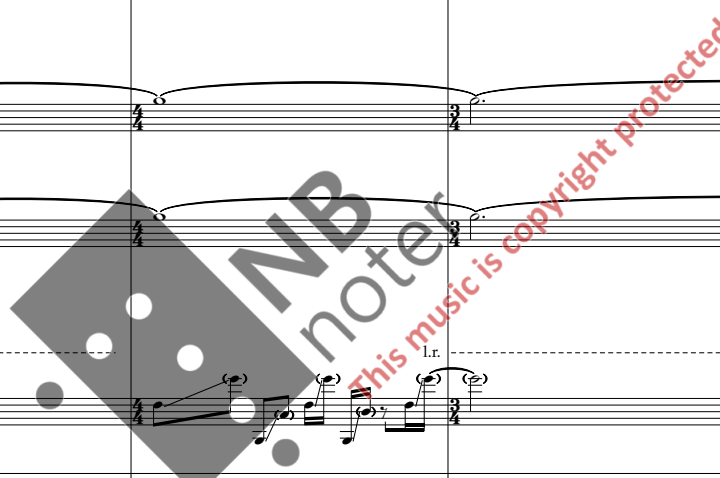
fast ricochet as high as poss,

damped strings, molto sul tasto,

sounding like insects.

arco

p



jet whistle
cover the embouchure plate with the lips

140

Fl. 1

Fl. 2

Fl. 3

Ob. 1

Ob. 2

Cl. 1

Cl. 2

Bsn. 1

Bsn. 2

C Tpt.

Tba.

Vib.

Perc. 2

Perc. 3

Vln. I

Vln. II

Vla.

Vlc.

Db.

Db.

player 1
independently
individual tempo

col. leg. bat.
damped strings,
irregular, st. - sp.
sounding like insects

arco
player 2

irregular whistle tone

"mf"

inhale - exhale

f

mp

ff

rit.....

slower

l.r.

p

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146

Fl. 1 *mp* i - o i - o i - o

Fl. 2 *mp* i - o i - o i - o

Fl. 3 *mp* i - o i - o i - o

Ob. 1 *mp* i - o i - o i - o

Ob. 2 *mp* i - o i - o i - o

Cl. 1 M5 *mf* M6 *mp*

Cl. 2 *mf* *mp*

Bsn. 1 rolling note 1/59 (nrIII) *p*

Bsn. 2 *mp* i - o i - o i - o

Hn. wine glass

C Tpt. wine glass

Tbn. wine glass

Tba. wine glass *mf*

Vib. soft mallets *mp* 3 l.r.

Perc. 2 sponge on timpani *p*

Perc. 3 32 inch timpani rubberball bounce on timpani grab ball, pedal action only *mp* big glissandi with the pedal

Vln. I player 1-3 *p* *mp* *p*

Vln. I player 4-6 *p* *mp* *p*

Vln. II player 1-3 *p* *mp* *p*

Vln. II player 4-6 *p* *mp* *p*

Vla. tutti *p* *mp* *p*

Vlc. tutti arco (non div) *p* *mp* *p*

Db. tutti arco *p* *mp* *p*

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152

Fl. 1

Fl. 2

Fl. 3

Ob. 1

Ob. 2

Cl. 1

Cl. 2

Bsn. 1

Bsn. 2

Vib.

Perc. 3

Vln. I

Vln. I

Vln. II

Vln. II

Vla.

Vlc.

Db.

airy flutter w/hint of tone

mf mp

airy flutter w/hint of tone

mf mp

airy flutter w/hint of tone

mf mp

o - i

mf p

o - i

mf p

1 / 59 (nrIII) rolling note

pp

o - i

mf p

o - i

mf p

I.r.

sol rubato

NB

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