

Seafloor Dawn Chorus

Full Score

Version 2 (without contrabass)



Kristine Tjøgersen 2018
Rev. 2022



Kristine Tjøgersen - Seafloor Dawn Chorus (2018)

Written and dedicated to Ensemble Recherche

Duration: approx. 9 min

Premiered in Freiburg 1. February 2019 by Ensemble Recherche

Instrumentation

Flute/Bass Flute

Clarinet/Bass Clarinet

Percussion

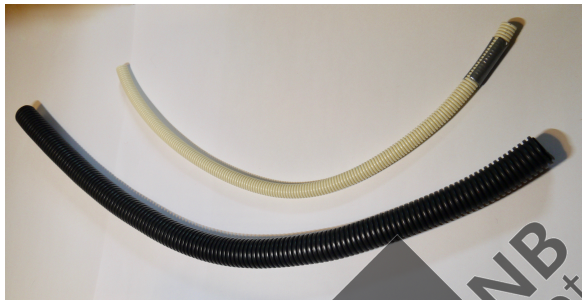
vibraphone with motor

timpani

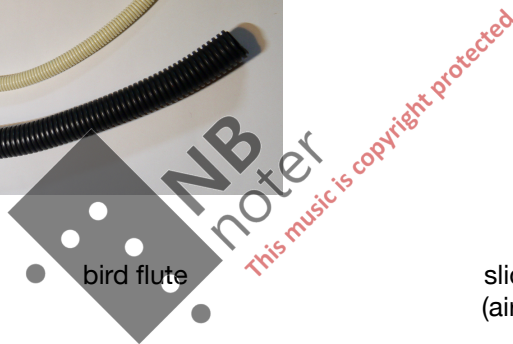
nipple gong in G# 1

gamelan gong in Bb 2

plastic tube (the black one, approx. 30 mm wide and 74 cm long)



air spray



bird flute

slide whistle prepared with tack-it
(air sound only)



Piano

plastic tube (the white one, 16 mm wide and 61 cm long)

superball mallet

slide whistle prepared with tack-it (air sound only)

Violin

Viola

tube bow

Cello

tube bow

G string is tuned down to E, written as sounding

How to make tube-bow:

Plastic tube 16 mm wide

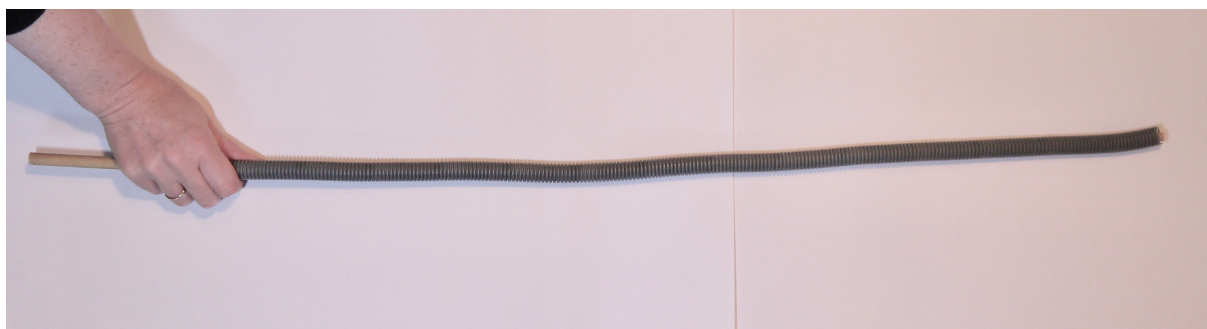
+

bamboo flower stick



This music is copyright protected

= tube bow



C Flute multiphonics

M1



M2

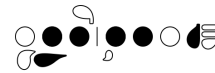


M3



This may have to be bent/tuned up to get the right pitch

M4



or

M4



This may have to be bent/tuned down to get the right pitch

Bass Flute multiphonics

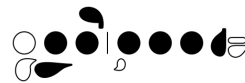
M5



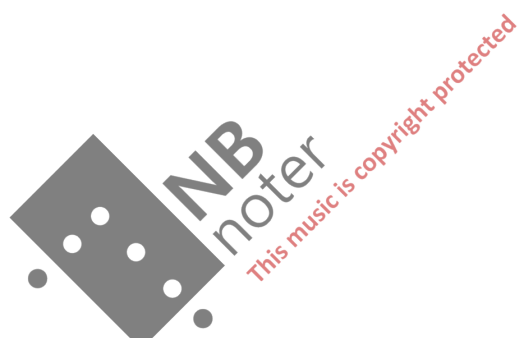
M6



M7



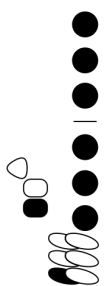
Bass Clarinet multiphonics



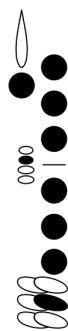
M1



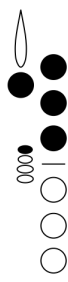
M2



M3



M4



tr. →

M5



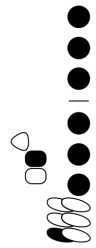
M6



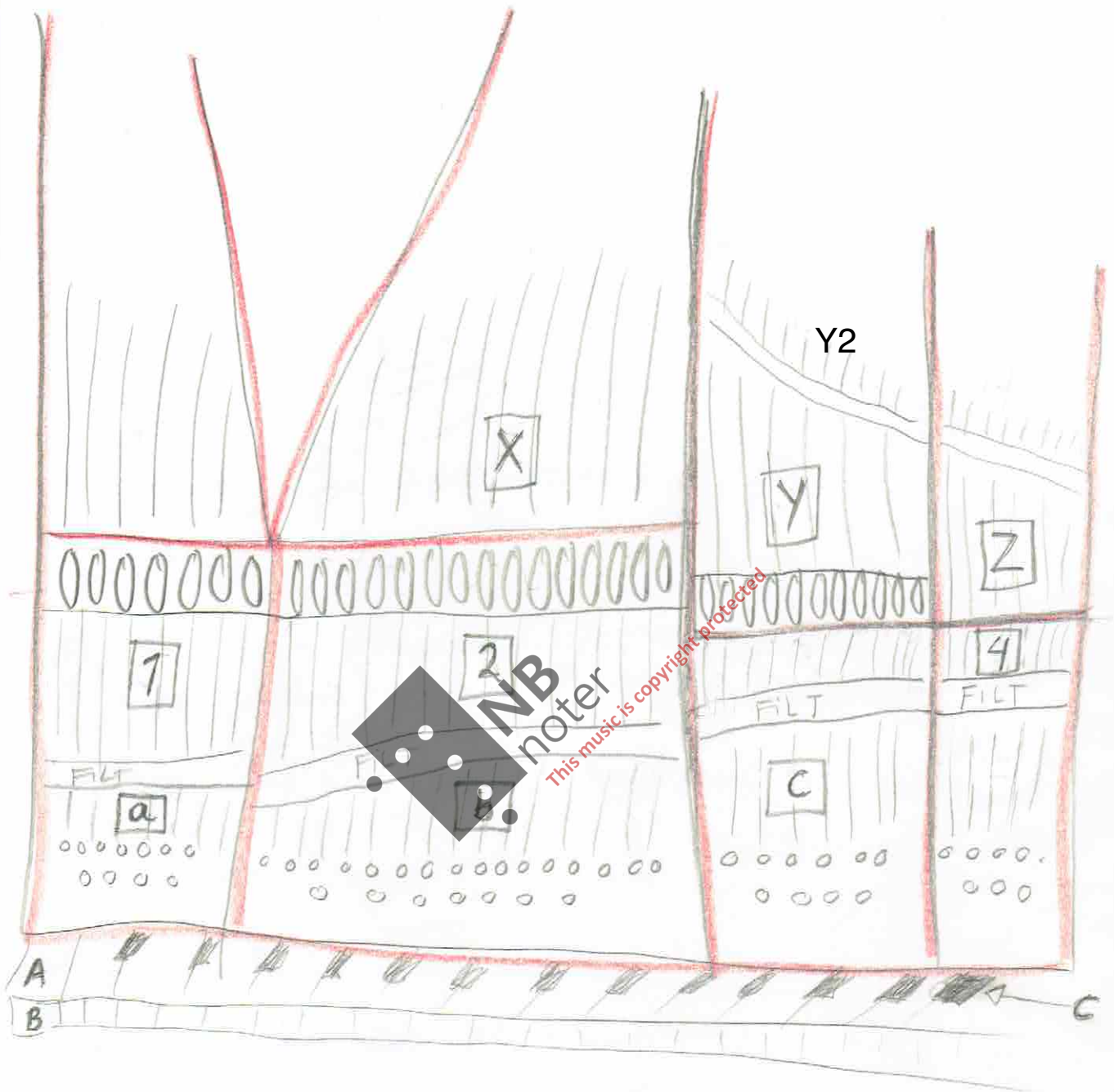
M7



M8



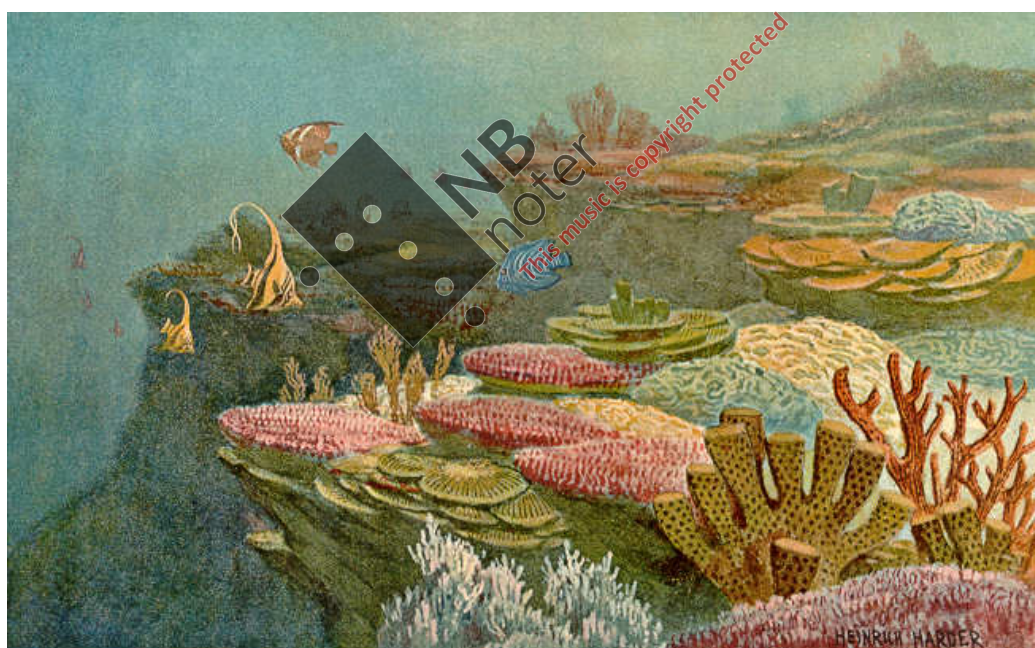
Piano Map



This piece is inspired by underwater recordings of fish singing at the Great Barrier Reef. Humans tend to think that the ocean is a quiet place, but scientists have recorded reef fish singing just like songbirds. When the calls of different fish overlap, they form a chorus, which are often performed in reef habitats around dusk and dawn.

In this piece I wanted to create an underwater environment for everyone to hear, and I have transcribed and been inspired by the sounds of fish like the Soloist Fish, Batfish, Black Jewfish, and also the sounds of Shrimps and Corals.

Sound plays an important role in various fish behaviours such as reproduction, feeding and territorial disputes. Nocturnal predatory fish use calls to stay together to hunt, while fish that are active during the day use sound to defend their territory. "You get the dusk and dawn choruses like you would with the birds in the forest," says Steve Simpson, a marine biologist at the University of Exeter, UK.

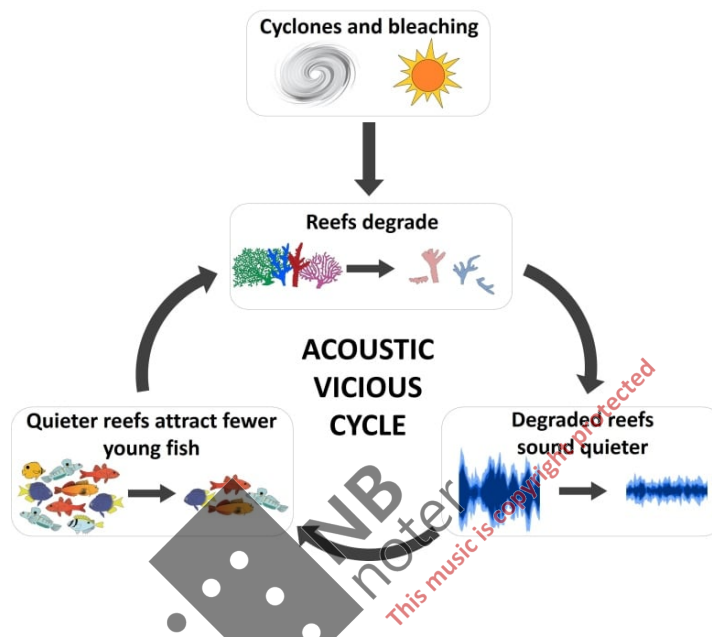


Ancient Coral Reefs - Heinrich Harder (1858-1935)

Coral reefs are some of the most beautiful and the most valuable ecosystems that we have in the world. The sounds that come from the Northern Great Barrier Reef have got quieter in the last five years. Between 2012 and 2016, the area of the Great Barrier Reef where the scientists recorded saw two cyclones, one the strongest that had ever hit that part of the reef. On top of that, there was a record-setting heat wave that according to a recent study in the journal *Nature*, killed almost a third of the reef's coral.

When the scientists went back to the reef in 2016, what they saw was heartbreaking; «Where there used to be colour and life in this incredible vista in every direction, it really is like diving in a graveyard now.» The sound of the reef had also significantly changed.

«Not only has the volume gone down substantially, but also the quality of the sound has changed. The acoustic complexity has gone down, there's less going on. You can hear what is a dying reef» says Tim Gordon, University of Exeter.



Degradation caused by bleaching and cyclones changes the soundscape of a reef. This makes reefs sound less attractive to young fishes, potentially reducing the populations of functionally important grazing species. Fewer fish and reduced grazing may exacerbate degradation, preventing recovery. (University of Exeter)

I think musicians and composers with a concern for nature can create engagement through addressing these subjects in the concert halls, and encourage a closeness with nature through music.

By bringing nature into music, we can get to know valuable forms of life, and create interest by having the composers' view on the matters. In this way, one can be made aware of what can get lost if humans continue to change nature.

Kristine Trogensen
Hamarøy, 26.11.18



Seafloor Dawn Chorus

for Ensemble Recherche

$\text{♩} = 88$

Kristine Tjøgersen 2018
rev. 2022

tongue ram
inward breathing
with air sound
closed
embouchure

mouthpiece from
C flute

Flute/
Bass Flute

Clarinet in B \flat /
Bass Clarinet

with the S from Bass Clarinet
closed embouchure

hit end of S
with hand

Percussion

Piano

$\text{♩} = 88$

Violin

Viola

Violoncello

Cello tuned C-E-D-A, written as sounding

col leg.
battuto

col leg.
battuto

hit end of
mouthpiece
with hand

tongue ram
inward breathing
with air sound
closed embouchure

Fl.

Cl.

hit S

with end of
superball
stick

arco

play behind bridge, mute strings behind the bridge,
play by releasing fingers. Listen to soundfile to recreate

col leg.
battuto

col leg.
battuto

bow w.
plastic tube

molto
sul tasto

slow bow

molto
sul. pont.

$\text{♩} = 88$

Perc.

Pno.

Vln.

Vla.

Vc.

closed embouchure rrrr hit end of mouthpiece with hand

tongue ram inward breathing with air sound closed embouchure

10

Fl. *f* *mf* *f*

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

Perc. bird flute *ppp* *pp*

Pno. with end of superball stick *pp* *mf* *f*

Vln. *mp*

Vla.

Vc. bow w. plastic tube *p* *mp* molto sul tasto slow bow molto sul pont.

A

A *8^{va}*

15

Fl. *f* *mp* *f* *mp* *mf*

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

Perc. drag tube on the vibraphone rim/notestand *p* *pp* *p* *mp*

Pno. *p* *mp* *f*

Vln. *mp*

Vla.

Vc. bow w. plastic tube *p* *mp* *mp* *f* *Red. **

out in vib. with hand slap vib. with hand

i - o vib. with hand breathe in vib. with hand hit

A *8^{va}*

B

Fl. *f* *mf* *f* *mf* *mp* *mf* *f*

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

Perc. *vib. with hand*

Pno. *c* *b* *b*

B

Vln. *mp*

Vla. *molto sul pont* *molto sul tasto* *p* *mp* *mp* *p*

Vc. *molto sul pont* *molto sul tasto* *mp*

slow bow

slap

Fl. *mp* *mf* *mp* *mf*

Cl. *f* *mf*

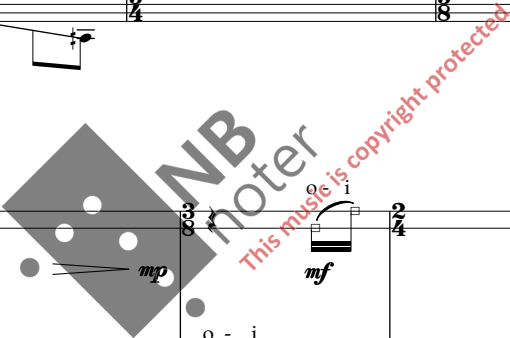
Perc. *blow on tube (flute like) gliss with hand* *gliss.* *gliss.*

Pno. *prepared slide whistle air sound only* *ff*

Vln. *mp* *8va*

Vla. *molto sul tasto* *molto sul tasto* *molto sul tasto* *molto sul tasto* *p* *mp* *to normal bow*

Vc. *molto sul pont* *molto sul tasto* *molto sul pont* *molto sul tasto* *on winding behind bridge* *p* *mp*



28 [C] Fl. o-i o-i hit flz. half tone/half air keep hand on mouthpiece whistle tone closed embouchure gliss with hand hit flz. half tone/half air keep hand on mouthpiece closed embouchure gliss with hand

Cl. o-i o-i slap 5 hit w. hand closed embouchure gliss with hand rrrrrr slap 5 hit w. hand rrrrrr

Perc. mf tube in air

Pno. with nails or plectrum/credit card [A] mf

Vln. [C] crini bounce on strings behind bridge mf

Vla. mf

Vc. to normal bow mf

34 Fl. whistle tone mf mp vib. with hand (double speed), closed embouchure mf

Cl. hit w. hand "flute embouchure" mp mf vib. with hand (double speed), closed embouchure

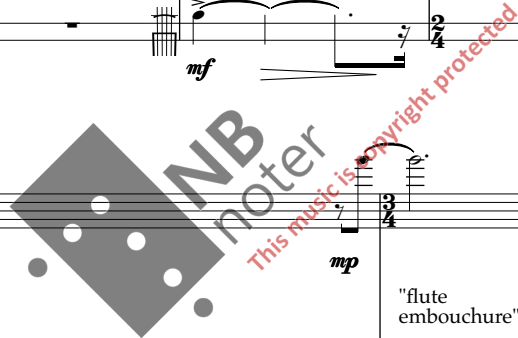
Perc. prepared slide whistle air sound only mf mp < mf tube in air

Pno. prepared slide whistle air sound only ff mf tube in air

Vln. 8va tr... tr... mp > p p < mp

Vla. norm. bow ppp pp p < mp

Vc. norm. bow p mp mp < mf molto sul pont. l.r



38

Fl. *p*

Cl. *p*

Perc. *p mp p mp*

Pno.

Vln. *p mp p*

Vla. *pp p pp mp*

Vc. *p mp p mp mp*

drag tube on the vibraphone rim/notestand

tube bow

l.r

molto sul pont

molto sul tasto

molto sul pont

molto sul pont

D

D

42

Fl. *p mf*

Cl. *p mf*

Perc. *p mp mf*

Pno. *mp mf*

Vln.

Vla. *p p*

Vc. *p*

tube in air

tube in air

molto sul tasto

molto sul tasto

molto sul pont

to norm. bow

molto sul tasto

to norm. bow

NB Proter

This music is copyright protected

45

Fl. *6* *V* *3* *6* *V* *6* *6* *6* *V* *6* *p*

Cl. *6* *V* *3* *6* *V* *6* *6* *6* *V* *6* *p*

Perc. *p* drag tube on the vibraphone rim/notestand

Pno.

Vln. *8va* *mp* *3* *3* *norm. bow*

Vla. *pp* *p* *norm. bow*

Vc. *p* *mp*

47

Fl. *to normal C flute* *E*

Cl.

Perc. *mp* *p* *mp* *p*

Pno.

Vln. *tr...* *p* *E*

Vla. *pp* *p* *mp* *p* *to tube bow* *molto sul pont* *molto sul tasto* *molto sul tasto*

Vc. *l.r.* *to tube bow* *molto sul tasto* *molto sul pont* *molto sul pont* *p* *mp* *p* *mp*

51

Fl.

Cl.

Perc.

Pno.

Vln.

Vla.

Vc.

musical terms: molto sul pont., molto sul pont., molto sul pont., molto sul tasto, molto sul tasto, molto sul tasto

57 $\text{♩} = 58$

Fl.

Cl.

Perc.

Pno.

musical terms: bisb., bisb., M1, with bow arco, M7 underblow

58 $\text{♩} = 58$

Vln.

Vla.

Vc.

musical terms: molto sul tasto, molto sul tasto, molto sul pont., molto sul pont., molto sul tasto, molto sul tasto

64

M1

M2

G

M3

Fl.

p *mp* *mp* *p*

bisb. *tr*

Cl.

p *mp* *mp* *pp*

Vib.

pp *p*

Pno.

Vln.

ppp *pp* *ppp*

to norm. bow

norm. bow

Vla.

pp *ppp*

Vc.

molto sul pont *pp* *mp* *p* *ppp*

molto sul tasto

to norm. bow

71

M4

M4

Fl.

mp *p* *p*

bisb. *tr*

M1

M7 underblow

M7 underblow

Cl.

p *pp* *p* *mp* *p* *pp*

Vib.

p *mp* *p* *p* *pp*

Pno.

Vln.

pp *pp* *ppp*

Vla.

Vc.

norm. bow. *ppp*

77 $\text{♩} = 54$

Fl. M4 H to bass flute

Cl. M7 underblow p to bass clarinet

Vib. nipple gong (G#) and gamelan gong (Bb) on pedal timpani soft mallet p mp mp

Pno.

83 $\text{♩} = 54$

Fl. M5 H M5

Cl. M2 M2 M2

Vib. bird flute $p < mp$ mp $p < mp$ mp $p < mp$

Pno. prepared slide whistle ff

Vln. continuous crini ricochet/ moving bounced bow individual length and starting point, repeat, make pauses in between mp mp arco p sim. mp

Vla. continuous crini ricochet/ moving bounced bow individual length and starting point, repeat, make pauses in between mp mp arco p sim. mp

Vc. p

9 H

Fl. M5 H M5

Cl. M2 M2 M2

Vib. bird flute $p < mp$ mp $p < mp$ mp $p < mp$

Pno. prepared slide whistle ff

Vln. continuous crini ricochet/ moving bounced bow individual length and starting point, repeat, make pauses in between mp mp arco p sim. mp

Vla. continuous crini ricochet/ moving bounced bow individual length and starting point, repeat, make pauses in between mp mp arco p sim. mp

Vc. p

I
♩ = 92
tongue trill
closed embouchure

88

Fl. *f* *ff* *f* *mp* M5

Cl. M2

Vib. *mp* *mf* *mp* *mf*
to vib. motor on air spray along the vibraphone tubes, below the staves air spray in F hole bird flute

Pno. *mf* [2] with rubberball on strings *ff*

Vln. *p* arco

Vla. *p* arco

Vc. *p*

I

♩ = 92

94

Fl. *ff* *f* *ff* *mf* *mp* M5

Cl. *mp* M2

Vib. *mp* *mf* *mp* *mf*
bird flute

Pno. *mf* [2] with rubberball on strings *ff*

Vln. *p*

Vla. *p*

Vc. *p*

tongue trill
closed embouchure

J

Musical score for measures 100-104. The score includes parts for Flute (Fl.), Clarinet (Cl.), Vibraphone (Vib.), Piano (Pno.), Violin (Vln.), Viola (Vla.), and Violoncello (Vc.).

- Fl.:** Measures 100-104. Dynamics: *mf*, *f*, *mp*, *f*. Includes a 'V' marking above the staff.
- Cl.:** Measures 100-104. Rested.
- Vib.:** Measures 100-104. Dynamics: *mp*, *mf*.
- Pno.:** Measures 100-104. Dynamics: *mf*. Includes a '2' in a box and the instruction 'with rubberball on strings'.
- Vln.:** Measures 100-104. Rested.
- Vla.:** Measures 100-104. Rested.
- Vc.:** Measures 100-104. Rested.

Musical score for measures 105-109. The score includes parts for Flute (Fl.), Clarinet (Cl.), Vibraphone (Vib.), Piano (Pno.), Violin (Vln.), Viola (Vla.), and Violoncello (Vc.).

- Fl.:** Measures 105-109. Includes a 'V' marking above the staff and the instruction 'to C flute'. Dynamics: *mf*, *mp*. Includes triplets in measures 108 and 109.
- Cl.:** Measures 105-109. Dynamics: *mf*, *mp*. Includes a '6' in a box and the instruction '(fingerings, not sounding) - thumb l.h.'.
- Vib.:** Measures 105-109. Dynamics: *mp*, *mf*, *mp*.
- Pno.:** Measures 105-109. Dynamics: *mf*. Includes a '2' in a box.
- Vln.:** Measures 105-109. Dynamics: *mf*. Includes the instruction 'col leg. battuto'.
- Vla.:** Measures 105-109. Dynamics: *mf*. Includes the instruction 'col leg. battuto'.
- Vc.:** Measures 105-109. Dynamics: *mf*, *f*, *mf*. Includes the instruction 'col leg. battuto' and 'pizz molto vib.'.

jet whistle
cover the embouchure plate
with the lips



(fingerings, not sounding)
air w. hint of tone
- thumb l.h.

- thumb l.h

110 **K** to bass flute

Fl. *f* 3 3 *ff* slap

Cl. *mf* - thumb l.h. 3 3 M4

Vib. *mf* *mp*

Pno. **C** 2

Vln. **K** arco *mp* pizz *f*

Vla. arco *mp* pizz *f*

Vc. *mf* col leg. battuto arco molto vib sul pont. *p*

115 **L** air w. hint of tone - thumb l.h. to C flute

Fl. *f* 3 3

Cl. *mp* 5 5 M5

Vib.

Pno. with plectrum **Y2**

Vln. **L** pizz *mp* nail pizz *mf* pizz *mp* nail pizz *mf*

Vla. arco *p*

Vc. pizz *f* pizz behind bridge on winding *mp*

121 **M** C flute M1 Bass Flute - thumb l.h. 13

Fl. *mp* *f*

Cl. - thumb l.h. M3 M8 *mf* *f*

Vib. *mf* *mp* *mf*

Pno. **M**

Vln. arco molto vib. sul pont. *mf* arco, molto vib. molto sul pont. *mf*

Vla. *p* *mf* col leg. battuto *mf*

Vcl. *mf* *p*

125 M6 M4 M3 127

Fl. flutter w. hint of tone - thumb l.h. *mf* *f* *mf* *f*

Cl. *mf*

Vib. *mp*

Pno. **M**

Vln. col leg. battuto pizz col leg. battuto

Vla. seagull effect molto sul pont. IV *mp* pizz arco molto sul pont. seagull effect IV *mp* col leg. battuto *mf*

Vcl. col leg. battuto *mf* arco molto vib. sul pont. *mf* pizz behind bridge on winding *mf* arco molto vib. sul pont. *mf* *mp*

14

129

Fl. *mf* M7 flutter - thumb l.h. *f* M7 *mf* M3 [N]

Cl. M3

Vib.

Pno. [2] 3 [2]

Vln. pizz col leg. battuto pizz arco molto sul pont. seagull effect IV *mp* [N]

Vla. pizz arco molto sul pont. seagull effect IV *mp* col leg. battuto pizz *p* arco

Vc. pizz behind bridge on winding *mf* arco molto vib sul pont. pizz behind bridge on winding *p* arco *p*

133

Fl. C flute *mf* M1 bass flute [O] slap *f* C# flz. -thumb l.h. *mf*

Cl. 3 3 M3 *mf*

Vib. *mf* *mp*

Pno. [b]

Vln. arco *p* pizz *mf* arco molto sul pont. pizz [O] *mp*

Vla. *mf* col leg. battuto arco molto sul pont. seagull effect IV *mp* arco norm. *p*

Vc. pizz behind bridge on winding *mf* sim.

139

Fl. - thumb l.h. *ff* *mf* M7

Cl. - thumb l.h. *f* *mf* M4

Vib. *mf* *mp*

Pno. *mf* *mf* [2]

Vln. *f* col leg. battuto

Vla. *f* pizz. molto vib. col leg. battuto

Vc. *f* arco molto vib. *mf*

143

Fl. C flute *f* *ff* - thumb l.h.

Cl. M5

Vib. bird flute *p* *mp*

Pno. *f*

Vln. *mp* arco *tr.*

Vln. *pp* arco *mp*

Vc. *mp* sul pont. *p* arco *mf* l.r.

mp *p* *mf*

16 $\text{♩} = 92$ jet whistle

146

Fl. fff mf f - thumb l.h. M1 to bass flute

Cl. f mf M3

Vib. mp

Pno. b c

Vln. pizz f mf p col leg. battuto Q $pizz$ $arco$

Vla. mf f p $pizz$ $arco$ behind bridge on winding arco molto vib \rightarrow sul pont.

Vc. mf ff mp mf $pizz$ behind bridge on winding

152

Fl. mf

Cl. mf f mf C# - thumb l.h. M4

Vib. mf mp

Pno. 2

Vln. mf p mf mf $seagull effect$ IV

Vla. p mf mp $col leg. battuto$ $molto sul pont$

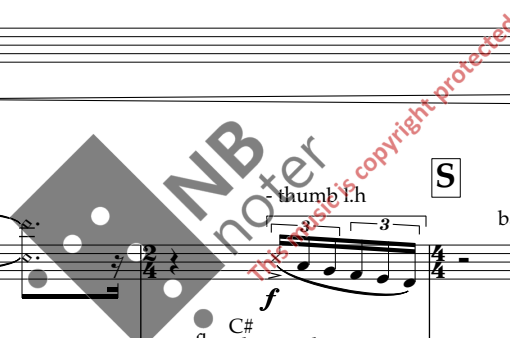
Vc. mf mf mp $arco$ $molto vib$ \rightarrow $sul pont.$

R

157 $\text{♩} = 92$
 to C flute
 C flute - thumb l.h. ff
 jet whistle fff
 Cl. M5 mp f mp
 Vib. bird flute p mp
 Pno. ff

R

$\text{♩} = 92$
 Vln. arco mp tr.
 Vla. arco pp p pizz f
 Vc. arco p mf pizz behind bridge on winding f



160
 Fl. M1 thumb l.h. mf f bass flute M6 mf
 Cl. M3 mf C# flz. -thumb l.h. mf - thumb l.h. f M4 mf
 Vib. mp mf mp
 Pno. mf mp
 Vln. col leg. battuto f mp
 Vla. arco molto vib sul pont. f mp
 Vc. arco molto vib sul pont. mf mp

163

Fl. *M7* *flutter 6* *f* - thumb l.h.

Cl. *M6*

Vib.

Pno. *c* *2*

Vln. *arco molto sul pont.* *mf* *mp* *col leg. battuto mp*

Vla. *arco molto sul pont* *mp* *seagull effect IV*

Vc. *pizz behind bridge on winding* *mf* *crini bounce on string holder* *mf*

NB noter
 This music is copyright protected