



*Bird Songs opus 66 no 2*

Robert Casteels

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# *Bird Songs*

Avian metamorphoses opus 66 no. 2  
on bird calls of species that are extinct in Singapore

Robert Casteels

Full score

Commissioned by the SG50 Secretariat in celebration of Singapore's Golden Jubilee

First performance on 31-X-2015 in the Botany Centre, Singapore Botanic Gardens

Full score in C

**Duration:** 8'30"

**Instrumentation:**

1 piccolo flute  
1 clarinet  
1 tenor sax doubling on soprano sax  
1 tenor trombone  
1 88-keys keyboard  
2 percussionists (vibraphone with pedal and motor, flexatone, suspended cymbal, whip, high wood block, 10 tracks of pre-recorded avian sounds and bird calls)  
4 high voices  
1 violin  
1 guitar  
1 cello  
1 double bass

**Programme notes:**

*Bird Songs* opus 66 no. 2 composed in 2015 is the continuation of *Bird Songs* opus 66 no. 1 which was composed in 2009. Whereas the first series comprised the calls of species that are threatened with extinction, the second series lists all 39 species of birds that once were resident on the island of Singapore, but have since 1940 become extinct in Singapore. Opus 66 no. 2 is structured similarly to opus 66 no. 1, that is, a set of 12 variations on a 12-note row. The two series of *Bird Songs* can be viewed as an inseparable ensemble, a journey from artificial imitation (cloned birds) to forceful imprisonment (competition of singing birds in cages) to semi freedom (dawn chorus in an urban environment) to survival (species threatened with extinction) to extinction (species that effectively have disappeared in Singapore). The bird calls of those species extinct in Singapore were recorded in Malaysia and Indonesia. The premiere of *Bird Songs* opus 66 no. 2 took place on 31-10-2015 during a SG50 concert entitled "Celebrating Nature in Singapore" in the frame of the 6<sup>th</sup> Asian Bird Fair.

### Performance notes:

Opus 66 no. 1 and opus 66 no. 2 can be performed separately or together.

The brass part of opus 66 no. 1 can be played entirely by a tenor trombone.

The voice parts of opus 66 no. 1 and 2 can be sung by any of the following combinations: 2 sopranos and 2 mezzo-sopranos or 2 sopranos and 2 tenors or 2 countertenors and 2 tenors (with the necessary octavation)

The string instruments in opus 66 no. 1 can all be acoustic instruments.

The acoustic guitar should play *tremolando* the long notes which the electric guitar can sustain.

### Errata for *Bird Songs* opus 66 no. 1:

Bar 21, keyboard: 1<sup>st</sup> pitch should read la natural (not a flat)

Bar 21, violin 1: 3<sup>rd</sup> pitch should read la natural (not a flat)

Bar 82, soprano 1: 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> pitches should read respectively b, c and g (not g, a flat and g flat)

Bar 120, tape: the track number should read track 6 (and not 7)

Bar 122, 4 voices: sing vowel o of the word "owl" on pitches d flat and c

Bar 123, 4 voices: sing consonants w and l of the word "owl" on quaver pitch c

Bar 137, tape: the track number should read track 7 (and not 8)

Bar 174, soprano 1, word "sa" is redundant

Bar 190 and 191, guitar: double the part of mezzo-soprano 2

Bar 192 and 193, guitar: double correctly the part of soprano 1

Bar 202, percussion: tape pitch should be notated on top of the line (as in bar 201)

Bar 223, percussion: pitches should be notated on the line (as in bar 221)

Bar 255, keyboard: the lowest pitch in the left hand should read f sharp (= F sharp major chord)

Bar 270, cello: the pitch should read g natural (not g flat)

# Bird Songs

Avian metamorphoses on bird calls of species that are extinct in Singapore  
opus 66 no. 2 [8'30"]

Robert Casteels

## Cadenza of 45"

Exactly @  $\text{♩} = 120$

The piccolo starts on the downbeat. All other instruments start ad libitum after the piccolo and repeat the pitches in any order, slowly from *pp* to *f*

**I**

Piccolo flute  
*pp* cresc. to *f*

Clarinet in B $\flat$   
*pp* cresc. to *f*

Soprano and tenor saxophones  
*pp* cresc. to *f*

Tenor trombone  
*pp* cresc. to *f*

Keyboard  
Kurzweil 69 marimba  
*pp* cresc. to *f*

Vibes  
*pp* cresc. to *f*

Percussion + pre-recorded avian sounds  
motor off, with pedal

Singers start once all instruments have started playing and sing from *p* to *f* the word "extinct".

Soprano 1

Soprano 2

Mezzo-soprano 1

Mezzo-soprano 2

Violin  
pizz. *pp* cresc. to *f*

Guitar  
*pp* cresc. to *f*

Violoncello  
pizz. *pp* cresc. to *f*

Double bass  
pizz. *pp* cresc. to *f*



3

Cl *fff*

Sax *fff*

Kybrd *fff*

Vbrphn *fff* motor off, no pedal

Tape/ Prc *ff* flexatone

Vln *fff*

Gtr *ff*

4

Cl

Sax

Kybrd

Vbrphn

Vln

Gtr

5

Picc

Cl

Sax

Kybrd

Vbrphn

Vln

Gtr

*ff*

6

Picc

Cl

Sax

Kybrd

Vbrphn

Vln

Gtr



7

Picc *ff*

Cl *ff*

Sax *ff*

Tbn *ff*

Kybrd *ff*

Vbrphn *ff*

Tape/  
Prc

Sop 1 *ff* whip  
Ban-ded broad-bill. sla - ty wood-pe - cker.

Sop 2

Mezz 1 *ff* ex - tinct ex - tinct Great (sla) - -  
Great sla - ty.

Mezz 2

Vln *ff* arco off

Gtr *ff*

Vlc *ff*

Db *ff* pizz. (together with the low vces)

8

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

Db

Gar - net pit - ta.

Green i - o - ra.

ex - tinct ex - tinct ex - - - tinct

*ff*

9

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Sop 1  
ex - tinct

Sop 2  
ex - tinct

Mezz 1  
ex - tinct

Mezz 2

Vln

Gtr

Vlc

Db

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Sop 1  
tinct ex - tinct      Yel - low breas - ted

Sop 2  
Black - and - red broad - - - bill.

Mezz 1

Mezz 2  
ex - tinct    ex - tinct    ex - tinct

Vln

Gtr

Vlc

Db





16

Picc

Cl

Sax

Tbn

Kybrd *dim.*

Vbrphn

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

Db

This musical score covers measures 16 through 19. The instrumentation includes Piccolo, Clarinet, Saxophone, Trombone, Keyboard, Vibraphone, Soprano 1 and 2, Mezzosoprano 1 and 2, Violin, Guitar, Viola, and Double Bass. The score is written in 2/4 time, with a key signature of one sharp (F#). Measure 16 begins with a half note in the Piccolo and Clarinet parts. Measure 17 features a 3/4 time signature change and includes a triplet of eighth notes in the Piccolo, Clarinet, Saxophone, and Trombone parts. Measure 18 continues with the 3/4 time signature and includes a triplet of eighth notes in the Piccolo, Clarinet, Saxophone, and Trombone parts. Measure 19 returns to 2/4 time and includes a triplet of eighth notes in the Piccolo, Clarinet, Saxophone, and Trombone parts. The Keyboard part starts with a *dim.* marking and features a triplet of eighth notes in measure 17. The Violin, Viola, and Double Bass parts feature a triplet of eighth notes in measure 17. The Guitar part features a triplet of eighth notes in measure 17. The Soprano and Mezzosoprano parts are marked with a dash, indicating they are silent in these measures.

20

(Avian solo)

Picc *p*

Cl *p*

Sax *p* 3

Tbn

Kybrd

Vbrphn *p* K971 glockenspiel

Tape/Prc II 4/4 track 1 Reinwardtipicus validus

Sop 2

Mezz 1 Rein - - - - ward - - - - -  
sustained *pp*

Mezz 2 Rein - - - -  
sustained *pp*

Vln light pizz. *p* *pp*

Gtr *p*

Vlc *p*

Db *p*

22

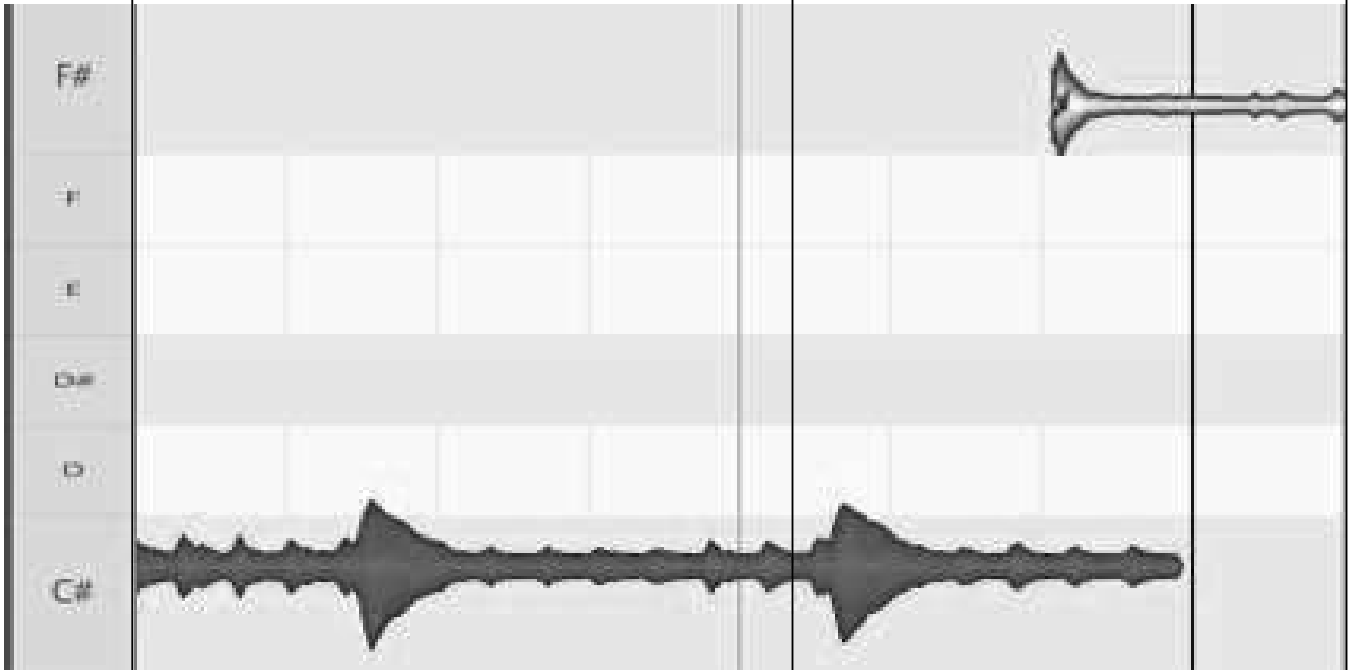
Picc

Cl

Sax

Tbn

Tape/  
Prc



Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Rein - - - - ward -  
*sustained pp*

ward - - - - - ti - pi - cus

ti - pi - cus va - li - dus

ward - - - - ti - pi -

*mp* (still in pizz.)



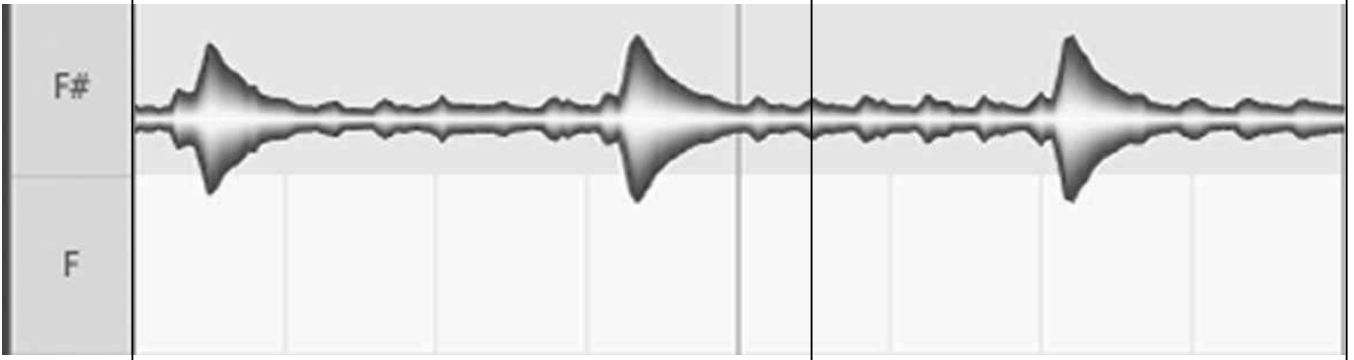
24

Picc   
 Cl   
 Sax   
 Tbn

Kybrd

Vbrphn

Tape/Prc



Sop 1   
 ti - pi - cus va -

Sop 2   
 va - li - dus Rein - - ward

Mezz 1   
 Rein - - ward ti - pi - cus va - li - dus

Mezz 2   
 cus va - li - dus

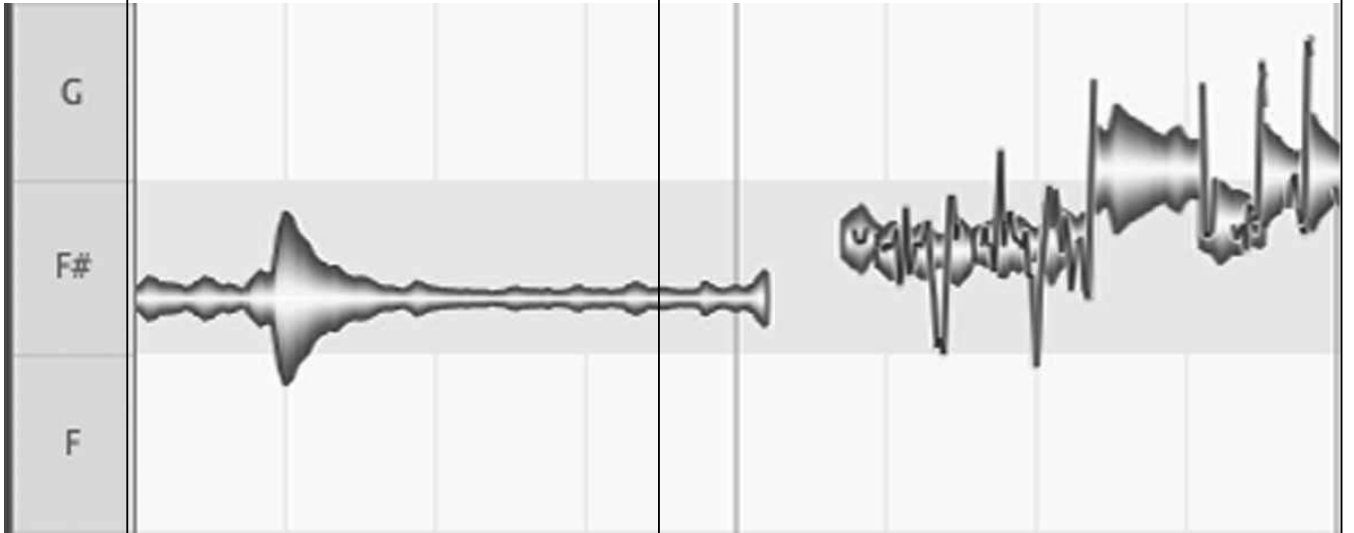
Vln   
 arco   
 mf 3 3 3 3

26

Picc   
 Cl   
 Sax   
*legato mp*

Kybrd   
 K971 glockenspiel (sounds loco)   
*mp*

Tape/  
Prc



Sop 1   
 li - dus Rein - - ward   
 Sop 2   
 ti - pi - cus va - li - dus   
 Mezz 1   
 Mezz 2   
 Rein - ward ti - pi - cus va - li - dus   
 Vln   
*f*

28

Picc

Picc staff with musical notation.

Cl

Cl staff with musical notation, including a triplet.

Sax

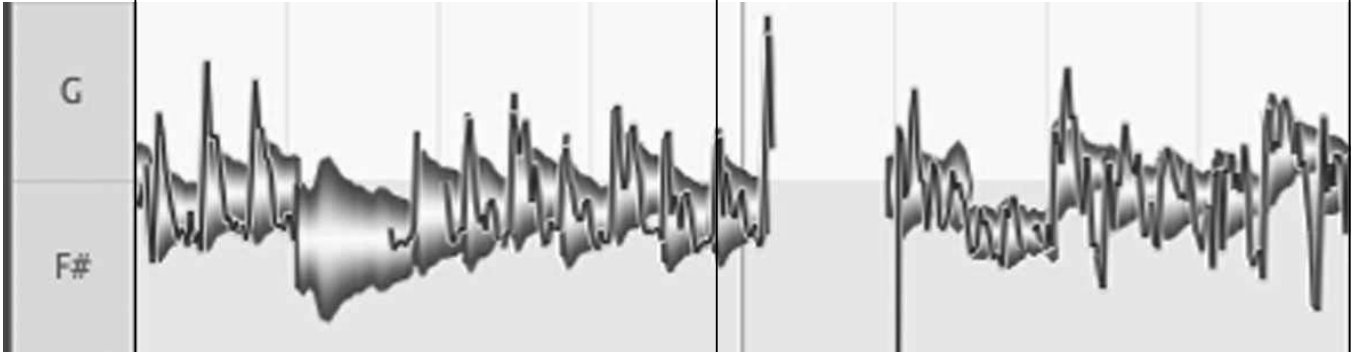
Sax staff with musical notation, including a long slur and fingerings (5).

Kybrd

Kybrd staff with musical notation, including triplets and sixteenth notes, with a *mf* dynamic marking.

Tape/  
Prc

Tape/Prc staff with a double bar line and a slur.



Sop 1

Sop 1 staff with lyrics: ti - pi - cus va - li - dus O - range backed

Sop 2

Sop 2 staff with lyrics: O - range backed

Mezz 1

Mezz 1 staff with lyrics: O - range backed

Mezz 2

Mezz 2 staff with a whole rest.

Vln

Vln staff with musical notation.

30

Picc

Picc staff with musical notation, including a triplet of eighth notes in the first measure.

Cl

Cl staff with musical notation, including a triplet of eighth notes in the first measure.

Sax

Sax staff with musical notation, including a triplet of eighth notes in the first measure.

Kybrd

Kybrd staff with musical notation, including a triplet of eighth notes in the first measure.

Tape/  
Prc

Waveform visualization for G and F# frequencies, showing amplitude over time.

Sop 1

Sop 1 staff with lyrics: wood - pe - cker.

Sop 2

Sop 2 staff with lyrics: wood - pe - cker.

Mezz 1

Mezz 1 staff with lyrics: wood - pe - cker.

Mezz 2

Mezz 2 staff with lyrics: wood - pe - cker.

Vln

Vln staff with musical notation.

32

Picc

Cl

Sax

Kybrd

Vbrphn

Tape/Prc

G

F#

Vln

*pp* legato

5 5 5 5 5

*pp* 3

K28 bamboo voices

6 6

motor off, no pedal

*pp* 6 5

*pp*

34

Vbrphn

Tape/Prc

G

F#

3

36

Picc *p* *mf* *mf* *mp*

Cl *p* *mf* *mp*

Sax *p* *mp*

Tbn *mf*

Kybrd *p* *f* *mf* *mp*  
 K28 Bamboo Voices

Vbrphn *p subito*  
*Leg.*

Tape/  
 Prc

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln *arco* *p*

Gtr

Vlc *p* *mf*

Db *p* *f* *mf*

45

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Tape/Prc

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

Db

*mp*

*p*

motor on, middle speed, pedal

track 2 Meiglyptes tukki

Mei-glyp - tes tuk-ki Buff-necked wood - pe-cker

Mei-glyp - tes tuk-ki Buff-necked wood - pe-cker

Mei-glyp - tes tuk ki

Mei-glyp - tes tuk ki

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Tape/Prc

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

Db

*p*

*pp* (on D string, artificial harmonic es bes, in unison with violin)

change to tenor sax

*Philentoma pyrhoterum*

Phil - to - ma py rhop - te-rum

Phil - to - ma py rhop - te-rum

Ru - fous winged fly ca - tcher

Ru - fous winged fly ca - tcher



Picc

Cl *pp*

Sax

Tbn

Kybrd *ppp* *8va*

Vbrphn *pp* **Platysmurus leucopterus**

Tape/Prc

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln *pp* *gliss.* *ppp*

Gtr *pp*

Vlc *pp* (on III, harmonic in unison with violin)

(harmonic in unison with violin)

(harmonic in unison with keyboard and piccolo)

Pla-tys-mu-rus leu-cop-te rus Black mag-pie.

Pla-tys-mu-rus leu-cop-te rus Black mag-pie.

Pla - tys-mu-rus leu-cop-te rus Black mag-pie.

Pla - tys-mu-rus leu-cop-te rus Black mag-pie.

58

Picc *mf* only

Cl *f*

Sax *f* tenor sax

Tbn *f*

Kybrd *f* K69 marimba

Vbrphn *f* motor off, no pedal

Sop 1 *f* ex - tinct ex ex - tinct

Sop 2

Mezz 1 *f* wood - pe - cker.

Mezz 2 *f* buff (wood) Grey - and - buff O - ri -

Vln *f* (together with the voices)

Gtr *f* arco off

Vlc *f* arco off

Db *f*

59

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

(together with violin)

Sop 1

ex                    ex - tinct                    ex - tinct

(together with violin)

Sop 2

ex                    ex - tinct                    ex - tinct

Mezz 1

en - tal white - eye.                    wood pe - cker

Mezz 2

(en)                    Buff rumped

Vln

Gtr

Vlc

Db

60

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

Db

Whis - kered tree swift.

ex

ex - tinct

ex - tinct

Pur - ple naped

ex

ex - tinct

ex - tinct

61

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

Db

ex

ex - - tinct

ex - - tinct

sun - bird.

ex - tinct

Detailed description: This is a page of a musical score, page 61. It features 14 staves. The top five staves are for instruments: Piccolo (Picc), Clarinet (Cl), Saxophone (Sax), Trombone (Tbn), and Keyboard (Kybrd). The next four staves are for vocalists: Soprano 1 (Sop 1), Soprano 2 (Sop 2), Mezzo-soprano 1 (Mezz 1), and Mezzo-soprano 2 (Mezz 2). The bottom five staves are for instruments: Violin (Vln), Guitar (Gtr), Viola (Vlc), and Double Bass (Db). The vocal parts have lyrics: Sop 1 has 'ex'; Sop 2 has 'ex - - tinct'; Mezz 1 has 'ex - - tinct' and 'sun - bird.'; Mezz 2 has 'ex - tinct'. There are various musical notations including notes, rests, and dynamic markings like accents (>).

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

Db

ex - tinct ex - tinct ex - tinct

ex - tinct ex - tinct ex - tinct

Fi - e - ry mi - ni - vet

ex - tinct ex - tinct

Detailed description: This is a page of a musical score, page 62. It features a full orchestral and vocal arrangement. The instruments listed on the left are Piccolo (Picc), Clarinet (Cl), Saxophone (Sax), Trombone (Tbn), Keyboard (Kybrd), Vibraphone (Vbrphn), Violin 1 (Vln), Guitar (Gtr), Violoncello (Vlc), and Double Bass (Db). The vocal parts include Soprano 1 (Sop 1), Soprano 2 (Sop 2), Mezzo-soprano 1 (Mezz 1), and Mezzo-soprano 2 (Mezz 2). The lyrics are: 'ex - tinct ex - tinct ex - tinct' for Sop 1 and Sop 2; 'Fi - e - ry mi - ni - vet' for Mezz 1; and 'ex - tinct ex - tinct' for Mezz 2. The score includes various musical notations such as notes, rests, and dynamic markings.

63

Picc

Picc staff: Treble clef, key signature of one flat, 3/4 time signature. Measure 63 shows a whole rest. Measure 64 features a triplet of eighth notes, marked with a forte *f* dynamic and a slur.

Cl

Cl staff: Treble clef, key signature of one flat, 3/4 time signature. Measure 63 has a whole rest. Measure 64 features a triplet of eighth notes, marked with a forte *f* dynamic and a slur.

Sax

Sax staff: Treble clef, key signature of one flat, 3/4 time signature. Measure 63 has a whole rest. Measure 64 features a triplet of eighth notes, marked with a forte *f* dynamic and a slur.

Tbn

Tbn staff: Bass clef, key signature of one flat, 3/4 time signature. Measure 63 has a whole rest. Measure 64 features a triplet of eighth notes, marked with a forte *f* dynamic and a slur.

Kybrd

Kybrd staff: Treble clef, key signature of one flat, 3/4 time signature. Measure 63 has a whole rest. Measure 64 features a triplet of eighth notes, marked with a forte *f* dynamic and a slur.

Vbrphn

Vbrphn staff: Treble clef, key signature of one flat, 3/4 time signature. Measure 63 has a whole rest. Measure 64 features a triplet of eighth notes, marked with a forte *f* dynamic and a slur.

Sop 1

Sop 1 staff: Treble clef, key signature of one flat, 3/4 time signature. Measure 63 has a whole rest. Measure 64 features a triplet of eighth notes, marked with a forte *f* dynamic and a slur.

Yel-low ex - tinct!

Sop 2

Sop 2 staff: Treble clef, key signature of one flat, 3/4 time signature. Measure 63 has a whole rest. Measure 64 features a triplet of eighth notes, marked with a forte *f* dynamic and a slur.

bel- lied ex - tinct!

Mezz 1

Mezz 1 staff: Treble clef, key signature of one flat, 3/4 time signature. Measure 63 has a whole rest. Measure 64 features a triplet of eighth notes, marked with a forte *f* dynamic and a slur.

bul - bul ex - tinct!

Mezz 2

Mezz 2 staff: Treble clef, key signature of one flat, 3/4 time signature. Measure 63 has a whole rest. Measure 64 features a triplet of eighth notes, marked with a forte *f* dynamic and a slur.

ex - tinct ex - tinct ex - tinct!

Vln

Vln staff: Treble clef, key signature of one flat, 3/4 time signature. Measure 63 has a whole rest. Measure 64 features a triplet of eighth notes, marked with a forte *f* dynamic and a slur. The word "arco" is written above the staff.

Gtr

Gtr staff: Treble clef, key signature of one flat, 3/4 time signature. Measure 63 has a whole rest. Measure 64 features a triplet of eighth notes, marked with a forte *f* dynamic and a slur.

Vlc

Vlc staff: Bass clef, key signature of one flat, 3/4 time signature. Measure 63 has a whole rest. Measure 64 features a triplet of eighth notes, marked with a forte *f* dynamic and a slur. The word "arco" is written above the staff.

Db

Db staff: Treble clef, key signature of one flat, 3/4 time signature. Measure 63 has a whole rest. Measure 64 features a triplet of eighth notes, marked with a forte *f* dynamic and a slur.

65

Picc *p*

Cl *p*

Sax *p*

Tbn *p*

Kybrd *p*

Vbrphn *p*

Sop 1  
Ca-lyp-to-me-na vi-ri-dis  
*p cresc.*

Sop 2  
Ca-lyp-to-me-na vi-ri-dis  
*p cresc.*

Mezz 1  
Ca-lyp-to-me na vi-ri-dis  
*p cresc.*

Mezz 2  
Ca-lyp-to-me na vi-ri-dis  
*p cresc.*

Vln *p* *p cresc.*

Gtr *p*

Vlc *p* *p cresc.*

Db *p* *p cresc.*



68

(Avian solo)

Picc

Cl  
*p*

Sax  
*ppp* (balance with strings)

Tbn  
*mf*

Kybrd  
K69 marimba  
fastest speed, pedal  
*p*

Vbrphn  
track 3 *Clayptomena viridis*  
*p*

Tape/  
Prc

Mezz 1  
Green broad - bill  
*p*

Mezz 2  
Green broad - bill  
*p*

Vln  
*p*

Gtr  
*ppp* (balance with strings)

Vlc  
*p*

Db  
*p* legato on A string

71

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Tape/  
Prc

Sop 1  
*p* Green broad-bill

Sop 2  
*p* Green broad-bill

Mezz 1  
*p* Green broad-bill

Mezz 2  
*p* Green broad-bill

Vln

Gtr

Vlc

Db



Picc

Cl

Sax

Tbn

Kybrd *p*

Vbrphn *f* 3 *p*

Sop 1  
bab-bler Large Wren bab bler Na - po-the-ra ma-cro-

Sop 2  
Large Wren bab-bler Large Wren bab bler Na - po-the-ra ma-cro-

Mezz 1 *f*  
Large Wren bab-bler Large Wren bab bler Na - po-the-ra ma-cro-

Mezz 2  
Large Wren bab-bler Large Wren bab bler Na - po-the-ra ma-cro-  
*f*

Vln *poco f* *p*

Gtr *p*

Vlc

Db

80

Cl

Sax

Tbn

*poco f p*

*poco f p*

*poco f p*

Kybrd

*poco f p*

Vbrphn

*poco f p*

track 4 *Napothera macrodactyla*

Tape/Prc

E

E<sub>b</sub>

D

D<sub>b</sub>

C

Sop 1

dac-ty-la

Sop 2

dac-ty-la

Mezz 1

dac-ty-la

Mezz 2

dac-ty-la

Vln

*poco f p*

Gtr

*poco f p*

Vlc

*poco f p*

85

Cl

Sax

Tbn

Kybrd

Vbrphn

Tape/  
Prc

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

Db

arpeggio whistle in E flat Major

whistle in e flat minor

whistle in e flat Major

arpeggio whistle in E flat Major

whistle in e flat minor

whistle gliding down from pitch e flat

gliss. on E string

(slide with bottle neck)

gliss. on low E string

gliss. on D string

gliss. on E string

Strings: everytime forceful crescendo

Four winds: *p*, very short and balanced

92

Picc *p staccatissimo* 6 6 6 6

Cl *p staccatissimo* 6 6 6 6

Sax *p staccatissimo* 5 5 5 5

Tbn *p staccatissimo* 3 3 3 3

Kybrd

Vbrphn

Sop 1 whistle gliding down from pitch e flat

Sop 2

Mezz 1

Mezz 2

Vln *gliss.* *gliss.*

Gtr *gliss.* *gliss.* gliss. on high E string

Vlc

Db

94

Picc *6*

Cl *6*

Sax *5*

Tbn *3*

track 5 *Harpactes kasumba*

Tape/  
Prc

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

gliss. on D string

gliss. on D string

gliss. on A string



97

Cl

Sax

Tbn

Vbrphn

Tape/  
Prc

- G
- Gb
- F
- E
- Eb
- D
- Db
- C
- B

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

mouth piece of the soprano sax

fastest speed, pedal

Har - pac - tes ka-sum  
*mp* very short

Red-naped tro - gon Har - pact - tes  
*mp* very short

gliss. on G string

gliss. on D string

100

only with mouth piece

Sax *mf* *gliss.*

Tbn *gliss.*

Vbrphn

Tape/Prc

G			
Gb			
F			
E			
Eb			
D			
Db			
C			
B			

Sop 1 *mp very short*

Har pact tes ka - sum ba Rednaped tro - gon

Sop 2 *mp very short*

Red naped tro- gon Har - pactes

Mezz 1

ba Rednaped tro - gon Har - pactes ka sum - ba Red - naped tro -

Mezz 2

ka - sum - ba Har - pac - tes ka - sum -

Vln

Gtr

Vlc *gliss.*

gliss. on C string

Db *gliss.*

gliss. on D string

103

change to tenor sax

Sax

Tbn

Kybrd

Vbrphn

Tape/Prc

Sop 1

Red-naped tro - gon.

Sop 2

ka - sum - ba Red - naped tro - gon.

Mezz 1

gon Har - pact - tes ka - sum - ba Red - naped tro - gon.

Mezz 2

ba ka - sum - ba.

Vln

Gtr

Vlc

Db

gliss. on E string

Picc

Cl

Sax *mf* (together with the string bass)

Tbn *mf*

Kybrd *mf* K69 marimba

Vbrphn *mf* (one 8-bar pedal) (together with voices)

Tape/Prc *mf* flexatone

Sop 1 *mf* ex - tinct

Sop 2 *mf* ex - tinct

Mezz 1 *mf* ex - tinct

Mezz 2 *mf* ex - tinct

Vln

Gtr *mf* pizz.

Vlc *mf* pizz.

Db *mf* 3 (pizz. together with the sax)

# 108

Sax

Tbn

Kybrd

Vbrphn

Sop 1

Sop 2

Mezz 1

Mezz 2

Gtr

Vlc

Db

ex - tinct

ex - tinct

ex - tinct!

ex - tinct

ex - tinct

ex - tinct!

ex - tinct

ex - tinct

ex - tinct!

ex - tinct

ex - tinct

ex - tinct!

# 111

Sax

Tbn

Kybrd

Gtr

Vlc

Db

113

Picc *f* *p*

Cl *f* *f subito*

Sax *f* *f subito*

Tbn *f* *p*

Kybrd *f* *p*

Vbrphn *f* *p*

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln *f* *f subito*

Gtr *f* *p*

Vlc *f* *f subito*

Db *f* *p*

arco

arco

116

Picc

Cl *mp*

Sax *mp*

Tbn *mp*

Kybrd *mp*

Vbrphn *mp* Ped. motor on

Sop 1

Sop 2 *f* Co-ra-ci-na stri-a ta

Mezz 1 *p* Bar-bel-lied cu-ckoo-shrike

Mezz 2 *p* cu

Vln *mp* *f* *mf* pizz.

Gtr *mp*

Vlc *mp* *mf* pizz.

Db *mf*

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

Db

ckoo..

Co-ra-ci-na stri-a ta cu

*f* *p*

ckoo Co-ra ci-na stri-a - ta

*f*

pizz. *mf* pizz.



Cl

Sax

Tbn

Kybrd

Vbrphn

track 6 *Coracina striata*

Tape/Prc

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

Co-ra ci-na stri-a - ta cu - - ckoo Crim -  
*f* *p* *p*

ckoo cu

ckoo Pi - i - cus pu ni - ce - us Crim - son winged  
*f* *p*

Bar - bel - lied cu - ckoo - shrike Pi - i - cus pu  
*p* *f*

pizz.

133

Picc  
Cl  
Sax  
Tbn

Kybrd

Vbrphn

Tape/  
Prc

A  
Ab 4  
C  
Cb  
F  
E  
Eb  
D  
Db

Sop 1  
son winged wood - pe - cker *f* Pi - i - cus pu - ni - ce - us

Sop 2  
ckoo

Mezz 1  
wood - pe - cker cu ckoo

Mezz 2  
ni - ce - us *p* Crim - son winged wood - pe - cker *f*

Vln  
Gtr  
Vlc  
Db

*Picus puniceus*

Detailed description: This is a page of a musical score for the bird Picus puniceus. The score is arranged in a standard orchestral format with vocal parts and instrumental accompaniment. The vocal parts include Soprano 1, Soprano 2, Mezzo-soprano 1, and Mezzo-soprano 2. The instrumental parts include Piccolo, Clarinet, Saxophone, Trombone, Keyboard, Vibraphone, Tape/Pre-recording, Violin, Guitar, Viola, and Double Bass. The score is divided into four measures. The first measure shows the vocal parts entering with the lyrics 'son winged'. The second measure continues with 'wood - pe - cker' and features a piano (*p*) dynamic. The third measure features 'Pi - i - cus pu - ni - ce - us' with a forte (*f*) dynamic. The fourth measure is a continuation of the vocal lines. The Piccolo part has a trill in the first measure and a series of notes in the second. The Keyboard part has a melodic line with a trill in the first measure. The Vibraphone part has a melodic line with a trill in the first measure. The Tape/Pre-recording part has a trill in the first measure. The Violin part has a melodic line with a trill in the first measure. The Guitar part has a melodic line with a trill in the first measure. The Viola part has a melodic line with a trill in the first measure. The Double Bass part has a melodic line with a trill in the first measure. The score is written in a key signature of one flat and a 4/4 time signature.

138

Picc *slap tongue* *f*

Cl *slap tongue* *f*

Sax *slap tongue* *f*

Tbn *f*

Kybrd *f*

Vbrphn *f*

Tape/Prc **track 7 *Megalaima australis***  
*high WB* *f sub*

Sop 1 7-pitch ascending chromatic whistle  
 Singers: subito *f*, half spoken, half sung

Sop 2 7-pitch ascending chromatic whistle  
 Blue eared

Mezz 1 7-pitch ascending chromatic whistle  
 Blue eared

Mezz 2 7-pitch ascending chromatic whistle  
 Blue eared

Vln Bartok pizz. *f*

Gtr sul pont. *f*

Vlc Bartok pizz. *f*

Db Bartok pizz. *f*

143

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Tape/  
Prc

Eb

D

Db

C

B

Bb

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

Db

bar - - - - - bet

bar - - - - - bet

bar - - - - - bet

bar - - - - - bet

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Tape/Prc

*Dicurus aeneus*

floor tom **f**

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

Db

arco off

normal

arco off

arco off

# 150

Picc

Cl

Sax

Tbn

Kybrd

solo

Vbrphn

motor on, slowest speed, pedal

Tape/  
Prc

Sop 1

Grey - bel - lied    bul - bul  
*mf*

Sop 2

Grey - bel - lied    bul - bul  
*mf*

Mezz 1

Grey - bel - lied    bul - bul  
*mf*

Mezz 2

Grey - bel - lied    bul - bul  
*mf*

Vln

Gtr

Vlc

solo

Db

solo

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Tape/Prc

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

Db

track 8 *Pycnonotus cyaniventris*

G

Gb

solo, finger tapping

6

3

5

3

5

Pyc - no - no - tus

Pyc - no - no - tus

Pyc - no - no - tus

Pyc - no - no - tus



154

solo

6

Cl

Tbn

Kybrd

Vbrphn

Tape/  
Prc

Bb

A

Ab 7

G

Gb

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

Db

cy - a - ni - ven - tris

cy - a - ni - ven - tris

cy - a - ni - ven - tris

cy - a - ni - ven - tris

on G string



156

Cl *solo* 6

Sax 5 3

Tbn

Kybrd 3 5

Vbrphn

Tape/Prc

C		
B		
Bb		
A		
Ab 7		
G		
Gb		
F		
E		
Eb		

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln *arco off*

Gtr 3

Vlc 5

Db 3 5

Spec - ta - cled bul - bul

Spec - ta - cled bul - bul

Spec - ta - cled bul - bul

Spec - ta - cled bul - bul

Spec - ta - cled bul - bul

158

Cl *6*

Sax *6* to soprano

Tbn

Kybrd *7* *5* *3*

Vbrphn

Tape/Prc

B	
Bb	
A	
Ab-7	
G	
Gb	
F	
E	
Eb	

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln *solo* *6*

Gtr *3*

Vlc *5* *6* *pp*

Db *3* *5* *pp*

Pyc-no-no-tus

Pyc-no-no-tus

Pyc-no-no-tus

Pyc-no-no-tus

Pyc-no-no-tus

161

Cl

Sax sop

Tbn

Kybrd

Vbrphn

*Pycnonotus erythrothalmos*

Tape/  
Prc

G

Gb

F

E

Eb

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

Db

e - ry - throp - thal - mos

e - ry - throp - thal - mos

e - ry - throp - thal - mos

e - ry - throp - thal - mos

163

The score is for rehearsal mark 163 and features the following instruments and parts:

- Picc**: Piccolo flute, rests throughout.
- Cl**: Clarinet, playing a complex rhythmic figure with triplets and quintuplets.
- Sax**: Saxophone, playing a rhythmic pattern with triplets and quintuplets. Includes the instruction "quickly change to tenor" in a box.
- Tbn**: Trombone, playing a simple rhythmic pattern.
- Kybrd**: Keyboard, playing a complex rhythmic figure with triplets and quintuplets.
- Vbrphn**: Vibraphone, playing a sustained rhythmic pattern with the instruction "motor off, no pedal" in a box.
- Tape/Prc**: Percussion, marked with a double bar line at the start of the second measure and a rhythmic pattern of x's in the third measure.
- Guitar**: A vertical grid lists notes from G to B, with a graphic of a guitar body positioned over the Eb and D lines.
- Vln**: Violin, playing a rhythmic pattern with triplets and quintuplets.
- Gtr**: Guitar, playing a rhythmic pattern with a double bar line at the start of the second measure.
- Vlc**: Violoncello, playing a simple rhythmic pattern.
- Db**: Double Bass, playing a simple rhythmic pattern.

The score is set in a 3/4 time signature and consists of three measures. Various rhythmic markings (3, 5, 3, 5, 3) and articulation symbols are used throughout the instrumental parts.

Tutti: *ff*, very short with accent on concert pitch a ♯

166

Picc *ff staccato* 6 6 6 6

Cl *ff staccato* 5 5 5 6

tenor Sax *ff staccato* 3 3 3 3

Tbn *ff staccato* 3 3 3 3

Kybrd *ff staccato* K69 marimba 6 6 6 6

Vbrphn *ff staccato* 5 5 5 5

Sop 1

Sop 2

Mezz 1 *ff* wood pe-cker  
throa-ted wood  
lied mal-ko-ha

Mezz 2 *ff* Che-ckered throat  
Black bel- lied

Vln *ff staccato* 6 6 6 6

Gtr *ff staccato* 3 3 3 3

Vlc *ff staccato* 5 5 5 5

Db *ff staccato* 3 3 3 3

168

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

Db

*ff* ex

Di - ard's tro - gon

ex

rum - ped swift

Sil - ver

Large wood shrike

170

Picc *6* *6* *6*

Cl *5* *5* *5* *5* *5*

Sax *3* *3* *3* *3* *3*

Tbn

Kybrd *6* *6* *6*

Vbrphn *5* *5* *5* *5*

Sop 1  
tinct  
ex - tinct ex

Sop 2  
tinct

Mezz 1  
ex - tinct  
ex - tinct

Mezz 2  
ex - tinct  
ex - tinct

Vln *6* *6* *6*

Gtr *3* *3* *3* *3*

Vlc *5* *5* *5*

Db *3* *3* *3* *3*

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

Db

ex  
ex-tinct ex

ex  
ex-tinct ex

ex tinct  
ex-tinct

ex tinct

ex tinct



Tutti: single *f* only, very short with accent on concert pitch a ♯

175

Picc *f staccato* 6 6

Cl *f staccato* 5 5

Sax *f staccato* 3 3 3 3

Tbn *f staccato* 6 6

Kybrd *f staccato* 6 6  
no sustained pedal

Vbrphn *f staccato* 5 5  
motor off, no pedal

Sop 1

Sop 2 *f* king - fi - sher

Mezz 1 *f* col - lared king

Mezz 2 *f* Ru - fous

Vln *f staccato* 6 6

Gtr *f staccato* 3 6 3  
(balanced with strings)

Vlc *f staccato* 5 5 5

Db *f staccato* 3 3 3

178

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

Db

Green im-pe-rial

Grey breas-ted

spi-der

pi-geon.

*f* ex

ex

Detailed description: This is a page of a musical score, page 178. It contains staves for Piccolo (Picc), Clarinet (Cl), Saxophone (Sax), Trombone (Tbn), Keyboard (Kybrd), Vibraphone (Vbrphn), Soprano 1 (Sop 1), Soprano 2 (Sop 2), Mezzosoprano 1 (Mezz 1), Mezzosoprano 2 (Mezz 2), Violin (Vln), Guitar (Gtr), Viola (Vlc), and Double Bass (Db). The score includes complex rhythmic patterns with sixteenth and thirty-second notes, often beamed together in groups of six, five, or three. There are also triplets and sixteenth-note runs. The vocal parts (Sop 1, Sop 2, Mezz 1, Mezz 2) have lyrics: 'Green im-pe-rial', 'Grey breas-ted', 'spi-der', and 'pi-geon.'. There are dynamic markings like *f* and *ex*. The key signature has two flats (B-flat and E-flat), and the time signature is 7/8.

180

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Sop 1  
O - ri - en - tal

Sop 2

Mezz 1  
Brown bar- bet

Mezz 2  
hun - ter

Vln

Gtr

Vlc

Db

182

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Sop 1  
king - fi - sher.

Sop 2  
tinct

Mezz 1  
ex - tinct

Mezz 2  
ex - tinct

Vln

Gtr

Vlc

Db

184

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Sop 1  
ex-tinct

Sop 2  
ex-tinct

Mezz 1  
ex-tinct

Mezz 2

Vln

Gtr

Vlc

Db

**188** Tutti: *f*

Picc *f* *dim.*

Cl *f* *dim.*

Sax *f* *dim.*

Tbn *f* *dim.*

Kybrd *f* *dim.*  
loco

Vbrphn *f* *dim.*  
motor off, with pedal

Tape/  
Prc

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln *pizz.* *dim.*

Gtr *pizz.* *dim.*

Vlc *pizz.* *dim.*

Db *pizz.* *dim.*

*dim.*

191

to soprano

Sax

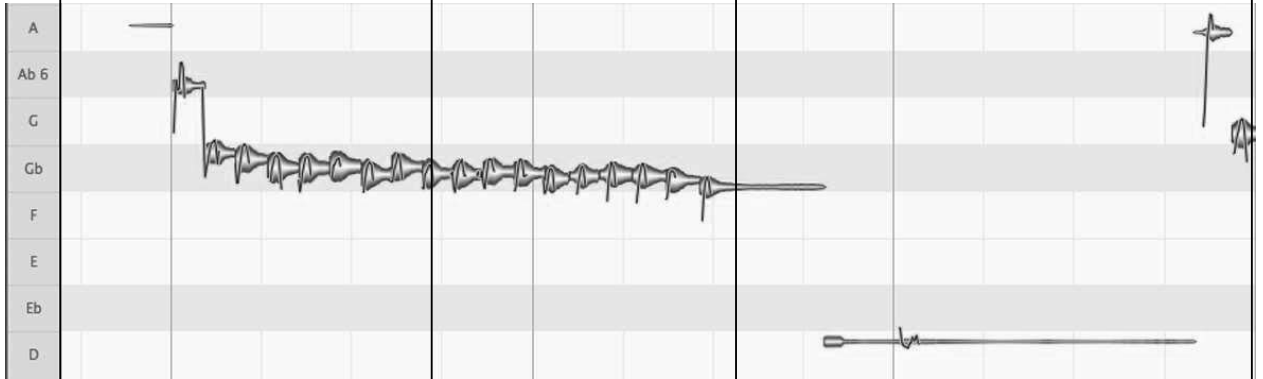
Tbn

Kybrd

Vbrphn

Tape/  
Prc

track 9 *Dinopium rafflesii*



Mezz 1

Mezz 2

Vln

Gtr

Vlc

Db

*fp*

*mf*

*f*

(tapping)

*mf*

arco

*fp*

arco

*fp*

194

Cl *f* solo *pp* sop solo *f*

Sax

Tbn

Tape/  
Prc

A

Ab 6

G

Gb

F

Sop 1 *mp* Di - - - no - - - pium

Sop 2 Di - - - no - - - pium

Mezz 1 *mp* pium raf - fle - si - i O-live backed wood-pecker *f*

Mezz 2 pe-cker O-live backed wood-pecker *f*

Vln *fp* (tapping) (tapping)

Gtr

Vlc

Db



197

solo

Picc *f*

Cl *to tenor*

Sax

Tbn

Tape/  
Prc

A			
Ab 6			
G			
Gb			
F			
E			
Eb			
D			

Sop 1  
raf - - - - fle - - - - si - i

Sop 2  
O - live backed wood - pe - cker  
*f* O - live backed wood - pe - cker

Mezz 1  
Di - - - - no - - - - pium

Mezz 2  
Di - - - - no - - - - pium

Vln  
(tapping)

Gtr  
(tapping)

Vlc

Db

200

Picc *cresc.*

Cl *cresc.*

Sax

Tbn

Tape/  
Prc

A	
Ab 6	
G	
Gb	
F	

Sop 1 *mf* Di - no - pium raf - fle - si -

Sop 2 *mf* Di - no - pium raf - fle - si -

Mezz 1 raf - - - - - fle - - - - si -

Mezz 2 raf - - - - - fle - - - - si -

Vln *legato cresc.*

Gtr *(normal) legato cresc.*

Vlc *legato cresc.*

Db *legato cresc.* 3

# 202

Picc: *f*  
 Cl: *ff*  
 Sax: *tenor* *ff*  
 Tbn: *cresc.* *ff*  
 Kybrd: *ff*  
 Vbrphn: *no pedal* *f*  
 Sop 1: *f* Dark - throa - ted  
 Sop 2: *i.*  
 Mezz 1: *i.*  
 Mezz 2: *i.*  
 Vln: *ff*  
 Gtr: *ff*  
 Vlc: *ff*  
 Db: *pizz.* *f*

205

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Sop 1  
O - ri - o - le

Sop 2  
Dark - throa - ted O - ri - o - le

Mezz 1  
Dark - throa - ted O - ri - o - le

Mezz 2

Vln

Gtr

Vlc

Db

*f*

*f*

*f*

*f*

*f*

*f*

*f*

*f*

Picc

Cl

Sax

Tbn

Kybrd

Vbrphn

Tape/ Prc

Sop 1

Sop 2

Mezz 1

Mezz 2

Vln

Gtr

Vlc

Db

track 10 Oriolus xanthonotus

O - ri - o lus  
non dim.

O - ri - o lus  
non dim.

O -

Dark - throa-ted O-riole

*mf* *p* *mf* *p* *mf* *p*

210

Picc *dim.*

Cl

Sax

Tbn

Kybrd

Vbrphn *dim.*

Tape/  
Prc

Sop 1  
xan - tho - no - tus  
*dim.*

Sop 2  
xan - tho - no - tus  
*dim.*

Mezz 1  
ri - o - lus  
*non dim.*

Mezz 2  
xan - tho - no - tus  
*dim.*

Vln

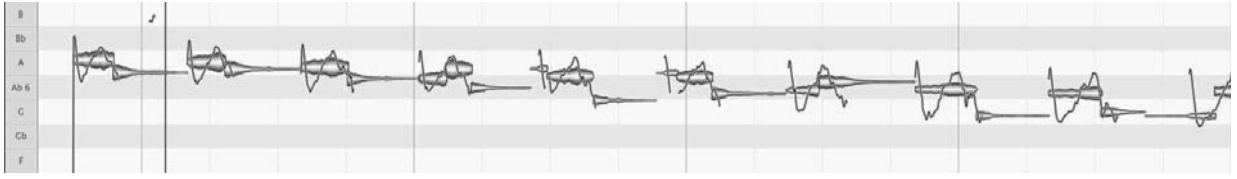
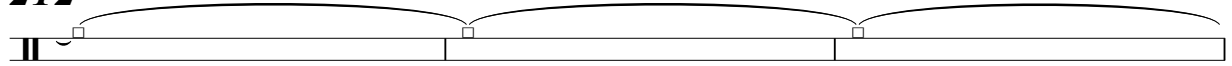
Gtr

Vlc

Db *dim.*

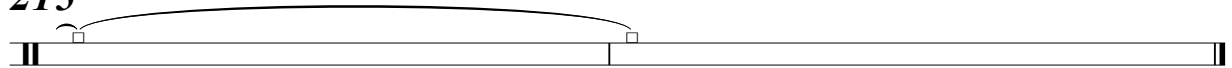
**212** + *Lacedo pulchella*

Tape/  
Prc



**215**

Tape/  
Prc



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