

Maria Kallionpää

The Reef

A study on corals
For two pianos and video

2023

Music Finland

Copyright © by the Composer

All Rights Reserved

No part of this publication may be copied
or reproduced in any form or by any means
without the prior permission of the composer

Distribution:
Music Finland
Music Library
Keilasatama 2 A
FI-02150 Espoo
Finland

musiclibrary@musicfinland.fi
www.musicfinland.fi

Espoo, 2023

Maria Kallionpää

The Reef (2023)

For two pianos and video

The Reef (2023)

Program note, „The Reef”

With its oceanic topic and use of data sonification as a composition technique, “The Reef” is closely related to my works “El Canto del Mar Infinito” (2020) and “La Danza Invisible del Agua” (2021). The work is based on a sample recorded at Thailand's Mu Koh Lanta National Marine Park. Being somewhat limited in its spectral composition, the excerpt consisted of a swimmer proceeding towards a coral reef. Furthermore, the sample's procedural structure would lend itself as the dramatic arch of the composition. Upon finishing the composition process, a MIDI rendition served as reference for the video artwork created by the visual artist Andre Veloux. Its abstract visual surfaces follow the music in a detailed manner: on top of serving as a structure of the musical composition, the timing of the original sound recording also informed the structure of the live visuals.

The goal of this series of works discussed above is to draw attention on the importance of protecting our marine environments. Together with the real-time video artwork, the music of “The Reef” paints a picture of the gradual damaging that pollution causes to the coral reefs. However, with the help of computer-based analysis, also the vivid colors of such ecosystems were translated into music, giving us a gleam of hope. Maybe it is not too late to do something?

Performing Instructions

- The metronome markings are mainly recommendations. The performers may choose slower or faster tempi if they wish.
- Pedal markings should be taken as suggestions, but the performers are free to decide whether to follow them.
- The composition should preferably be performed with the live video created by Andre Veloux, but it is also possible to perform it just as a music piece.
- The visual components do not have to follow the music in exact manner: certain flexibility with regards to coordination is allowed.

The Reef

Maria Kallionpää (2023)

A study on corals

The musical score is divided into three systems, each featuring a different instrument: Piano, Piano, and Pno. (Piano).

System 1 (Piano): The first system is for the Piano. It begins in 5/4 time with a tempo of $\text{♩} = 50$. The right hand has a triplet of eighth notes marked *p*. The left hand has a triplet of eighth notes marked *pp*. The tempo changes to $\text{♩} = 60$ in 4/4 time. The right hand has a triplet of eighth notes marked *p* and an octave sign *8va*. The left hand has a triplet of eighth notes marked *pp*.

System 2 (Piano): The second system is also for the Piano. It begins in 5/4 time with a tempo of $\text{♩} = 50$. The right hand has a triplet of eighth notes marked *pp* and an octave sign *8va*. The left hand has a triplet of eighth notes marked *pp*. The tempo changes to $\text{♩} = 60$ in 4/4 time. The right hand has a triplet of eighth notes marked *pp* and an octave sign *8va*. The left hand has a triplet of eighth notes marked *pp*.

System 3 (Pno.): The third system is for the Pno. (Piano). It begins in 5/4 time with a tempo of $\text{♩} = 50$. The right hand has a triplet of eighth notes marked *mp* and an octave sign *8va*. The left hand has a triplet of eighth notes marked *mp*. The tempo changes to $\text{♩} = 60$ in 4/4 time. The right hand has a triplet of eighth notes marked *mp* and an octave sign *8va*. The left hand has a triplet of eighth notes marked *mp*.

The score includes various musical notations such as triplets, octaves (*8va*), and dynamics (*p*, *pp*, *mp*). The tempo is marked as $\text{♩} = 50$ and $\text{♩} = 60$. The time signature changes from 5/4 to 4/4.

2

(8)

5

Pno.

mf

p

3

6

6

6

6

7

Pno.

mp *mf*

mp *p*

3

6

6

6

6

9

Piano score for measures 9-10. The score is written for two grand staves, each with a treble and bass clef. The first system (measures 9-10) features a 3/4 time signature that changes to 4/4 at the start of measure 10. The upper grand staff (treble clef) contains a melodic line with dynamics *mf* and *mp*, and includes a sixteenth-note triplet in measure 9. The lower grand staff (bass clef) contains a bass line with dynamics *mp* and *mf*, featuring sixteenth-note triplets and sixteenth-note groups. Fingerings are indicated by numbers 1-5, and articulation marks like slurs and accents are present.

Piano score for measures 11-12. The score is written for two grand staves, each with a treble and bass clef. Measure 11 is marked *subito* and *pp*. The upper grand staff (treble clef) contains a melodic line with dynamics *pp* and *subito*, featuring sixteenth-note groups and slurs. The lower grand staff (bass clef) contains a bass line with dynamics *pp* and *subito*, featuring sixteenth-note groups and slurs. Fingerings are indicated by numbers 1-5, and articulation marks like slurs and accents are present.

12

Pno.

Musical score for measures 12-15. The score is written for piano (Pno.) and consists of two systems, each with two staves. The first system (measures 12-13) features a melodic line in the upper staff and a bass line in the lower staff. The second system (measures 14-15) continues the melodic and bass lines. The notation includes sixteenth notes, eighth notes, and quarter notes, with various accidentals (sharps, flats, naturals). Triplet markings (6 and 3) are present above several groups of notes. Slurs are used to group notes across measures.

13

Pno.

Musical score for measures 13-15. The score is written for piano (Pno.) and consists of two systems, each with two staves. The first system (measures 13-14) continues the melodic and bass lines from the previous system. The second system (measures 14-15) continues the melodic and bass lines. The notation includes sixteenth notes, eighth notes, and quarter notes, with various accidentals (sharps, flats, naturals). Triplet markings (3 and 6) are present above several groups of notes. Slurs are used to group notes across measures.

14

Pno.

mf 6 6

Pno.

mf 6 6

15

Pno.

mp 6 6

Pno.

mp 6 6

6

8va

16

Pno.

Pno.

Musical score for measures 16-17. The score is written for piano (Pno.) and consists of four staves. The first two staves are in the right hand (treble clef), and the last two are in the left hand (bass clef). Measure 16 is marked with a dashed line and '8va' above it. The music features complex textures with sixths, triplets, and eighth notes. Fingerings are indicated by numbers 1-5. A dynamic marking of *pp* is present in the lower right of the system.

17

8va

Pno.

Pno.

pp

Musical score for measures 17-18. The score is written for piano (Pno.) and consists of four staves. The first two staves are in the right hand (treble clef), and the last two are in the left hand (bass clef). Measure 17 is marked with a dashed line and '8va' above it. The music continues with complex textures, including sixths and triplets. A dynamic marking of *pp* is present in the upper right of the system.

18

Pno.

Pno.

19

Pno.

f

Pno.

f

20

Pno. *mf*

6

Pno. *mf*

6

21

Pno. *mp*

6

Pno. *mp*

3

6

22

Pno.

p

6 6 6

Pno.

p

6 6 6

23

Pno.

6 6 6

Pno.

6 6

24

Pno. *mp*

6 6

6 6

6 6

8^{vb}

25

Pno. *mp*

6 6

6 6

6 6

8^{vb}

(8)

26

Pno.

mf

6 6 3

6 6 3

6 6 3

(8).....|

27

Pno.

pp

6

3 6

pp

6 6

28

Pno. *ff*

Pno. *sfz*

ff

29 *rit.*

Pno.

mf

rit.

Piano score for measures 30-31. The score is in 5/4 time and consists of two systems. The first system (measures 30-31) features a bass clef for the left hand and a treble clef for the right hand. The left hand plays a series of chords and moving lines, with a *mf* dynamic marking. The right hand features a melodic line with *mf* and *sfz* markings, and a final *sfz* chord. The second system (measures 31-32) continues the bass line with a *sfz* marking and a final *sfz* chord. The treble clef part has a *mf* marking and a final *sfz* chord. The tempo is marked as ♩ = 40.

Piano score for measures 31-32. The score is in 5/4 time and consists of two systems. The first system (measures 31-32) features a bass clef for the left hand and a treble clef for the right hand. The left hand plays a series of chords and moving lines, with a *mf* dynamic marking. The right hand features a melodic line with *mf* and *sfz* markings, and a final *sfz* chord. The second system (measures 32-33) continues the bass line with a *sfz* marking and a final *sfz* chord. The treble clef part has a *mf* marking and a final *sfz* chord. The tempo is marked as ♩ = 40.

Piano score for measures 32-33. The score is in 4/4 time with a tempo of ♩ = 60. The first system (measures 32-33) features a piano (Pno.) part with a melody in the left hand starting on a B-flat, marked *mf*, and a bass line. The second system (measures 34-35) features a piano (Pno.) part with a melody in the right hand marked *sfz* and a bass line. The tempo is marked *Murmurando*. Fingerings of 6 and 3 are indicated for various notes.

Piano score for measures 33-35. The score is in 4/4 time with a tempo of ♩ = 60. The first system (measures 33-34) features a piano (Pno.) part with a melody in the left hand starting on a B-flat, marked *mf*, and a bass line. The second system (measures 34-35) features a piano (Pno.) part with a melody in the right hand marked *rall.* and a bass line. The tempo is marked *rall.*. Fingerings of 6 and 3 are indicated for various notes.

Cantabile. Piu mosso

35 15

Pno. *mp*

Ped. * *Ped.* 6

Cantabile. Piu mosso

Pno. *mp* *sfz* *sfz*

Ped. * *Ped.* 6 *

37

Pno. *rall.*

* *Ped.* 6 *

rall.

Pno. *sfz*

Ped. 6 *

16

$\text{♩} = 60$
Espressivo

38

Pno.

f

mf

Ped. * Ped. *

Pno.

$\text{♩} = 60$
Espressivo

mf

Ped. *

rall.

39

Pno.

sfz

6

sfz

sfz

Ped. * *sfz* Ped. *

rall.

Pno.

6

6

sfz

Ped. * Ped. *

40 17

Pno. *mp*

mp

6 6 6 6

sfz

41

Pno.

sfz

sfz

sfz

sfz

sfz

sfz

sfz

6 6 6 6

18 42

Piano score for measures 42-43. The score is divided into two systems, each with a grand staff (treble and bass clefs).
System 1 (Measures 42-43):
- Treble clef: Measure 42 has a sixteenth-note triplet marked *p*. Measure 43 has a sixteenth-note triplet marked *p*, followed by five sixteenth-note chords marked *sfz*.
- Bass clef: Measure 42 has a sixteenth-note triplet marked *p*. Measure 43 has a sixteenth-note triplet marked *p*, followed by a sixteenth-note triplet marked *p*, and then a sixteenth-note triplet marked *p*.
System 2 (Measures 44-45):
- Treble clef: Measure 44 has a sixteenth-note triplet marked *sfz*. Measure 45 has a sixteenth-note triplet marked *sfz*, followed by a sixteenth-note triplet marked *sfz*, and then a sixteenth-note triplet marked *sfz*.
- Bass clef: Measure 44 has a sixteenth-note triplet marked *p*. Measure 45 has a sixteenth-note triplet marked *p*, followed by a sixteenth-note triplet marked *p*, and then a sixteenth-note triplet marked *p*.

Piano score for measures 43-45. The score is divided into two systems, each with a grand staff (treble and bass clefs).
System 1 (Measures 43-45):
- Treble clef: Measure 43 has a sixteenth-note triplet marked *sfz*. Measure 44 has a sixteenth-note triplet marked *sfz* and a sixteenth-note triplet marked *6*. Measure 45 has a sixteenth-note triplet marked *sfz* and a sixteenth-note triplet marked *sfz*.
- Bass clef: Measure 43 has a sixteenth-note triplet marked *6*. Measure 44 has a sixteenth-note triplet marked *6*. Measure 45 has a sixteenth-note triplet marked *6*.
System 2 (Measures 46-47):
- Treble clef: Measure 46 has a sixteenth-note triplet marked *6*. Measure 47 has a sixteenth-note triplet marked *6*.
- Bass clef: Measure 46 has a sixteenth-note triplet marked *6*. Measure 47 has a sixteenth-note triplet marked *6*.

44 19

Pno.

6

3

Pno.

45

Pno.

6

3

sfz

6

3

Pno.

46

Pno. *sfz*
mp *sfz*

Musical score for measures 46-47. The system consists of two grand staves. The upper staff (treble clef) has a whole rest in measure 46 and a half note chord in measure 47. The lower staff (bass clef) contains a continuous eighth-note accompaniment. Dynamics include *sfz* and *mp*. Fingerings are indicated with numbers 1-5. A repeat sign is present at the end of measure 47.

47

Pno. *p* *sfz* *sfz*

Musical score for measures 47-48. The system consists of two grand staves. The upper staff (treble clef) features a sixteenth-note melody in measure 47 and a half note chord in measure 48. The lower staff (bass clef) features a sixteenth-note accompaniment. Dynamics include *p* and *sfz*. Fingerings are indicated with numbers 1-5. A repeat sign is present at the end of measure 48.

48

Pno.

sfz

Pno.

3

sfz

49

Pno.

mf

sfz

6

6

sfz

6

sfz

Pno.

mf

6

6

m.s.

m.d.

50

Pno.

6

6

6

pp

51

Pno.

6

6

3

6

p

p

52 ♩ = 50
Cantabile

Pno. *mp*

mp *mp* *Ped.*

Pno. *pp*

ppp

♩ = 50

pp *ppp* *Ped.*

54

Pno. *pp*

p

Ped. *

pp *p* *Ped.* *

57 $\text{♩} = 60$

Pno.

ppp 6 6 6

ppp 3 3 3

ppp 3 3 3

Ped. *

$\text{♩} = 60$

Pno.

ppp *mp* *mf*

Ped. * Ped.

60

Pno.

mp *mf*

Pno.

mp *mf* *sfz*

Ped. * *

68 *rall.*

Pno. *p* 6

rall.

Pno. *fff sfz mp* 6

Ped. *

Ped. *

70 *mp*

Pno. *mp* 6 6

Ped. * *Ped.* *

mp

Pno. *mp* 6

poco accel.

27

72

Pno.

Ped. * Ped. * Ped. *

poco accel.

Pno.

* Ped. * Ped. * Ped. *

74

Pno.

Ped. * Ped. *

Pno.

Ped. *

Piano score for measures 77-79. The score is written for two grand staves, each with a treble and bass clef. The first grand staff (top) contains measures 77 and 78. The second grand staff (bottom) contains measures 78 and 79. Dynamics include *sfz* and *ff*. Fingerings are indicated with numbers 1-5. A sixteenth-note triplet is marked with a '6' in both staves.

accel.

Piano score for measures 78-79. The score is written for two grand staves, each with a treble and bass clef. The first grand staff (top) contains measures 78 and 79. The second grand staff (bottom) contains measures 78 and 79. Dynamics include *sfz*, *ff*, and *ff*. Fingerings are indicated with numbers 1-5. A sixteenth-note triplet is marked with a '6' in both staves.

accel.

Piano score for measures 79-80. The score is written for two grand staves, each with a treble and bass clef. The first grand staff (top) contains measure 79. The second grand staff (bottom) contains measures 79 and 80. Dynamics include *ff*. Fingerings are indicated with numbers 1-5. A sixteenth-note triplet is marked with a '6' in both staves.

79

Piano score for measures 79-80. The first system (measures 79-80) features a treble and bass clef staff. The treble clef staff contains a melodic line with a *sfz* dynamic marking. The bass clef staff contains a bass line with a *mf* dynamic marking. The second system (measures 81-82) continues the piece, with the bass clef staff featuring a *sfz* dynamic marking.

80 **Pesante**

Piano score for measures 80-82, marked **Pesante**. The first system (measures 80-82) features a bass clef staff with a *sfz* dynamic marking and a *ff* dynamic marking. The second system (measures 81-82) features a bass clef staff with a *ff* dynamic marking and a triplet of eighth notes. The third system (measures 82-83) features a bass clef staff with a *ff* dynamic marking and a triplet of eighth notes.

87

Piano score for measures 87-91. The score is written for two grand pianos (Pno.). Each piano part consists of two staves. The music features a series of chords in the right hand, with a triplet of eighth notes in the left hand starting at measure 90. The dynamic marking *fp* (fortissimo piano) is present in measures 90 and 91.

92

Piano score for measures 92-96. The score is written for two grand pianos (Pno.). Each piano part consists of two staves. The music features a series of chords in the right hand, with a triplet of eighth notes in the left hand starting at measure 95. The piece concludes with a double bar line at the end of measure 96.