

*Invisible Cities (ii):*

# ARMILLA

*(a botanical survey of the uninhabited southern isles)*

*for Elizabeth Weisser and John Pickford Richards*

♩ = 36

Josiah Wolf Oberholtzer (1984)

$\frac{5}{8}$  A Far Sorr

Violin 1

Violin 2

ORD. -----> S.T.

D.P.

④

$\frac{3}{4}$   $\frac{3}{8}$   $\frac{3}{8}$

Va. 1

Va. 2

S.T.

M.S.T.

⑦

$\frac{3}{8}$   $\frac{2}{4}$   $\frac{3}{8}$

Va. 1

Va. 2

ORD. -----> S.T.

11

38

24

58

S.T.

M.S.T.

Va. 1

58-34-78-11

4:3

ppp

p

ppp

58-11-01-18-14-38

5:4

f

p

ppp

Va. 2

11

3:2

f

p

ppp

p

ppp

78-11-01-18-01-18

6:5

ppp

15

24

58

ORD.

S.T.

Va. 1

78-11-01-18-01

4:3

p

ppp

p

ppp

Va. 2

14-18

ppp

14-18

p

18

68

24

ORD.

S.T.

Va. 1

11

01-18-14-38-12

4:5

p

ppp

p

ppp

58-34-78-11-01

5:4

ppp

p

Va. 2

14-38-12

ppp

p

ppp

p

ppp

58-34-78-11-01

5:4

ppp

f

p

(25)

(29)

3

33

3/8 2/4 5/8

ORD. M.S.P. S.P. M.S.P.

Va. 1

Va. 2

ppp

6:5

37

8/8 2/4 3/8

ORD. S.T. ORD. S.T. M.S.P.

Va. 1

Va. 2

ppp

4:5

4:3

♩ = 36

41

8/8 3/8 5/8

M.S.T. S.T. (S.T.) M.S.P. M.S.T. S.T. D.P.

Va. 1

Va. 2

ppp

4:5

4:5

45

34

*D.P.*

The image displays a musical score for two violas, labeled Va. 1 and Va. 2. Each part consists of a staff with a treble clef and a key signature of one flat (B-flat). The score is divided into three measures, each containing a series of frequency ratios and a dynamic marking.

**Va. 1:**

- Measure 1:** Ratios  $\frac{0}{1}$  and  $\frac{1}{8}$ . Dynamic *p*. A slur connects the two ratios.
- Measure 2:** Ratios  $\frac{1}{4}$  and  $\frac{3}{8}$ . Dynamic *ppp*. A slur connects the two ratios.
- Measure 3:** Ratios  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ , and  $\frac{7}{8}$ . Dynamic *p* followed by *ppp*. A slur connects the four ratios.

**Va. 2:**

- Measure 1:** Ratios  $\frac{0}{1}$ ,  $\frac{1}{8}$ , and  $\frac{1}{4}$ . Dynamic *f*. A slur connects the three ratios.
- Measure 2:** Ratios  $\frac{3}{8}$  and  $\frac{1}{2}$ . Dynamic *p*. A slur connects the two ratios.
- Measure 3:** Ratios  $\frac{5}{8}$ ,  $\frac{3}{4}$ , and  $\frac{7}{8}$ . Dynamic *ppp* followed by *p*. A slur connects the three ratios.

48

155

8

24

V

( D.P. )

The image displays a musical score for two violas, labeled 'Va. 1' and 'Va. 2'. Each part consists of a melodic line with frequency ratios and a corresponding piano (p) or forte (f) line with dynamic markings. The ratios are indicated by a 'V' above the notes, and the dynamics are indicated by 'p', 'ppp', or 'f' below the notes. The ratios are as follows:

- Va. 1:**
  - First measure:  $\frac{1}{1}$  to  $\frac{0}{1}$  (ratio 4:5), then  $\frac{1}{8}$  to  $\frac{0}{1}$  (ratio 1:8).
  - Second measure:  $\frac{1}{8}$  to  $\frac{0}{1}$  (ratio 1:8), then  $\frac{0}{1}$  to  $\frac{1}{8}$  (ratio 1:8).
  - Third measure:  $\frac{1}{1}$  to  $\frac{0}{1}$  (ratio 1:1), then  $\frac{0}{1}$  to  $\frac{1}{8}$  (ratio 1:8).
- Va. 2:**
  - First measure:  $\frac{1}{1}$  to  $\frac{0}{1}$  (ratio 6:5), then  $\frac{1}{8}$  to  $\frac{0}{1}$  (ratio 1:8).
  - Second measure:  $\frac{1}{8}$  to  $\frac{0}{1}$  (ratio 1:8), then  $\frac{1}{8}$  to  $\frac{1}{8}$  (ratio 4:5).
  - Third measure:  $\frac{1}{4}$  to  $\frac{1}{8}$  (ratio 1:2), then  $\frac{1}{8}$  to  $\frac{1}{8}$  (ratio 1:1).
  - Fourth measure:  $\frac{1}{8}$  to  $\frac{3}{8}$  (ratio 3:2), then  $\frac{1}{4}$  to  $\frac{1}{4}$  (ratio 1:1).

The dynamic markings are as follows:

- Va. 1:**
  - First measure: *p* (piano).
  - Second measure: *ppp* (pianissimo).
  - Third measure: *f* (forte).
- Va. 2:**
  - First measure: *ppp* (pianissimo).
  - Second measure: *p* (piano).
  - Third measure: *ppp* (pianissimo).
  - Fourth measure: *f* (forte).

52

3

15

The image displays a musical score for two violas, labeled Va. 1 and Va. 2. The score is divided into two systems, each with two staves. The first system for Va. 1 shows a sequence of intervals:  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $\frac{7}{8}$ ,  $\frac{1}{1}$ ,  $\frac{0}{1}$ , and  $\frac{1}{8}$ . The dynamics are marked *p*, *ppp*, *p*, *ppp*, *p*, and *ppp*. The second system for Va. 1 shows intervals  $\frac{3}{4}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{1}{1}$ ,  $\frac{0}{1}$ , and  $\frac{1}{8}$ , with dynamics *p*, *ppp*, *p*, and *ppp*. The Va. 2 part follows a similar pattern with intervals  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{1}{1}$ ,  $\frac{0}{1}$ , and  $\frac{1}{8}$ , and dynamics *p*, *ppp*, *p*, and *ppp*. The score includes various musical notations such as stems, beams, and dynamic markings.

56

8

3/4

2/4

Va. 1

V

0 1 1 8 1 4

4.5

*f* *p* *ppp* *p* *ppp*

Va. 2

1 4 3 8 1 2 5 8 3 4 7 8 1 1 0 1 1 8 0 1

4.3

*f* *p* *ppp* *p* *ppp* *p*

59

**3**  
**8**

( D.P. )

**6**  
**4**

Va. 1

0  $\frac{1}{8}$   $\frac{1}{4}$   $\frac{3}{8}$   $\frac{1}{2}$   $\frac{5}{8}$   $\frac{3}{4}$   $\frac{7}{8}$   $\frac{1}{1}$

*p* *mf* *p*

ORD. S.T. M.S.T.

Va. 2

0  $\frac{1}{8}$   $\frac{1}{4}$   $\frac{3}{8}$   $\frac{1}{2}$   $\frac{5}{8}$   $\frac{3}{4}$   $\frac{7}{8}$   $\frac{1}{1}$

*p* *mf* *p* *ppp*

3:2

The musical score is for two violas, Va. 1 and Va. 2, in 3/4 time. The score is divided into two systems, each with two staves. The first system (Va. 1) features a complex rhythmic pattern with notes marked with 'V' and 'D.P.' (Dotted Quarter). The second system (Va. 2) features a complex rhythmic pattern with notes marked with 'V' and 'D.P.' (Dotted Quarter). The score includes dynamic markings such as *ppp*, *f*, *ff*, *p*, *mf*, and *pp*. The score also includes a section marked 'M.S.T.' (Musical Score Template) and a section marked 'ORD.' (Order).



[illegible]

The musical score for two violas, Va. 1 and Va. 2, is presented in a single system. The score is divided into four measures, each with a different time signature: 3/4, 3/8, 2/4, and 5/8. The first measure is marked 'ORD.' and the second 'S.P.' and 'ORD.'. The third measure is marked '(ORD.)' and the fourth 'M.S.P.' and 'ORD.'. The score includes various dynamic markings such as *p*, *ppp*, and *ppp* *<* *p*. The notation includes slurs, ties, and various accidentals. The bottom staff of each viola part includes a series of notes and rests, with some notes marked with a '3' and a '2'.

$\text{♩} = 108$

83

The Isle  
Of the Ear

Va. 1

Va. 2



86

3

6

2

4

S.T.

Va. 1

*mp*

M.S.P. ----- S.T.

V

V

Va. 2

*mf*

[illegible]

93

8

6

S.T. M.S.T.

Va. 1

(V) 1/1 1/1 2/5 1/1 (V) 1/1 4/5 V 1/1 4/5 1/1

3:2 4:5

*p* *ppp* *p* *ppp* *p*

ORD.

Va. 2

1/1 2/5 1/1

*p* *ppp* *p*

S.T.

V 1/1 2/5 1/1 1/1

*p* *ppp* *p*

S.P.

3/5

*mp*

24

38

68

M.S.P

S.P.

ORD. -----> S.P.

Va. 1

Va. 2

mf

mp

mf

mf

mp

mp

♩ = 72

58

G

Selidor (iii)

38

ORD.

(ORD.) S.P. -----> ORD.

(ORD.) -----> M.S.P

Va. 1

Va. 2

ppp < p

ppp

p

ppp

ppp < p

ppp

p

4:5

4:5

6:5

4:5

34

68

58

M.S.P

(M.S.P) -----> ORD.

ORD.

S.P. -----> ORD.

Va. 1

Va. 2

ppp

ppp

p > ppp

p

ppp

p

ppp < p

ppp

3:2

4:5

6:5

4:5

3  
4

ORD. (ORD.) M.S.P. ORD. M.S.P. ORD.

Va. 1

Va. 2

6:5

6:5

3  
8

2  
4

5  
8

( ORD. ) (ORD.) M.S.P. ORD. (V) (ORD.) S.P.

Va. 1

Va. 2

3:2

6:5

4:5

♩ = 36

3  
8

5  
8

H The Long Dune (ii)

S.P. ORD. (V) ORD. S.T.

Va. 1

Va. 2

M.S.T.

6:5

The image displays a musical score for two violas, Va. 1 and Va. 2, across three measures. The notation includes interval ratios, fingerings, and dynamics.

**Measure 1:**

- Va. 1:** Interval ratios  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ . Fingering: 1, 3, 2. Dynamics: *p*.
- Va. 2:** Interval ratios  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ . Fingering: 1, 5, 3. Dynamics: *f*.

**Measure 2:**

- Va. 1:** Interval ratios  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $\frac{7}{8}$ ,  $\frac{1}{1}$ . Fingering: 5, 3, 7, 1. Dynamics: *f* (with accent), *mf*. A 3:2 ratio is indicated between the 7/8 and 1/1 intervals.
- Va. 2:** Interval ratios  $\frac{1}{1}$ ,  $\frac{0}{1}$ . Fingering: 1, 0. Dynamics: *ff*. A 4:5 ratio is indicated between the 1/1 and 0/1 intervals.

**Measure 3:**

- Va. 1:** Interval ratios  $\frac{1}{8}$ ,  $\frac{0}{1}$ . Fingering: 1, 0. Dynamics: *ff*, *p*. A V (Vibrato) marking is present above the 0/1 interval.
- Va. 2:** Interval ratios  $\frac{1}{8}$ ,  $\frac{0}{1}$ . Fingering: 1, 0. Dynamics: *p*. A V (Vibrato) marking is present above the 0/1 interval.

Additional markings include a dashed line labeled "S.T." (Sordano) above the first measure, and "ORD." (Ordinary) above the second measure. A "M.S.T." (Mordant) marking is present above the third measure.

121

3/8

3/8

3/8

ORD. -----> S.T.

Va. 1

M.S.T.

S.T.

ORD.

Va. 2

fff > f

mf

p

ppp

p

4:5

125

2/4 6/8 2/4

M.S.T.

Va. 1

$\frac{3}{4}$   $\frac{7}{8}$   $\frac{1}{4}$   $\frac{3}{8}$

$f$   $p$   $ff$   $p$

6:5

S.T.

M.S.T.

Va. 2

$\frac{1}{8}$   $\frac{1}{4}$   $\frac{3}{8}$   $\frac{1}{2}$   $\frac{5}{8}$   $\frac{3}{4}$   $\frac{7}{8}$   $\frac{1}{4}$   $\frac{3}{8}$

$mf$   $p$   $pp$   $f$   $p$   $ff$

3:2

Portland, OR  
Fresh Meadows, NY  
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