

William Kleinsasser

**RIVER PRISM**

for clarinet with computer processing

(2011)

Duration: c. 12 minutes



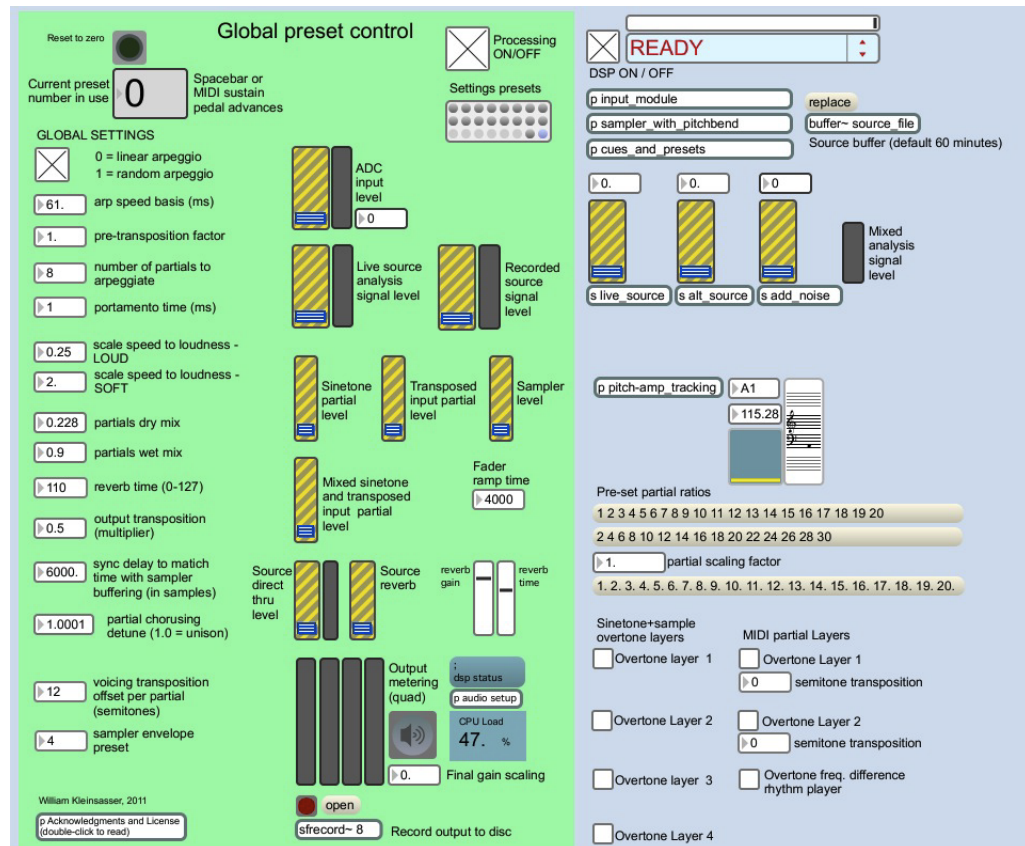
# PERFORMANCE NOTES

## Instrumentation

Bb clarinet

computer processing using composer-developed Max/MSP software entitled "Spectral Prism". See note below.

To use the software, a close-position microphone is used for the improvising instrument ideally with no pickup of instruments other than the improviser.



## ABOUT THE MUSIC

About this piece the composer writes: *River Prism* for clarinet with computer processing was composed in 2011 as a retreatment of his 1986 five-movement work for solo clarinet entitled *Frozen River*.

### The Computer Processing

The computer processing software for this composition tracks the pitches played by the clarinet (using Miller Puckette's sigmund~ Max/MSP external object) and creates synthesized and live-sample-based overtone harmonic and non-harmonic partial arpeggiation layers that are mixed in a quadrasonic speaker array around the audience with the slightly-amplified clarinet performance. The balance should add a layer of sound without obscuring the clarinet—in a sense augmenting the clarinet as a hybrid instrument. To achieve this blend the clarinet should be slightly amplified and mixed into the quad speakers along with the computer.

The computer software progresses through nine pre-set processing configurations as indicated in the score as computer cues 1-9. The software is designed so that the clarinetist can step through the pre-set configurations using a midi foot pedal or by pressing the computer space bar on stage. Alternatively, a computer operator can do this during performance.





River Prism

6

26 *cresc.* *f* *sub p* *f* *dim.* *mf*

30 *pp* *p* *pp* *mf* *f*

34 *pp* *mf* *n.* *p* *pp*

37 *p* *pp* *pp* *p* *pp*

River Prism

II.

COMPUTER  
CUE 2

40 *espressivo*  
♩ = c. 60

*pp* sempre *ppp* 5 *pp*

Musical staff 40-44: Treble clef, key signature of one sharp (F#). Measure 40 starts with a half note G4. Measures 41-42 contain eighth notes: G4, A4, B4, C5, B4, A4, G4. Measure 43 has a triplet of eighth notes: G4, A4, B4. Measure 44 has a half note G4, followed by a triplet of eighth notes: G4, A4, B4, and a quarter note G4. Dynamics: *pp* sempre, *ppp* (measures 43-44), *pp* (measure 44).

45

*pp* *mp*

Musical staff 45-49: Treble clef, key signature of one sharp (F#). Measure 45: quarter note G4, quarter note A4, quarter note B4, quarter note C5. Measure 46: quarter note B4, quarter note A4, quarter note G4, quarter note F#4. Measure 47: quarter note E4, quarter note D4, quarter note C4, quarter note B3. Measure 48: quarter note A3, quarter note G3, quarter note F#3, quarter note E3. Measure 49: quarter note D3, quarter note C3, quarter note B2, quarter note A2. Dynamics: *pp* (measures 45-49), *mp* (measure 49).

50

*pp* *p* *pp*

Musical staff 50-53: Treble clef, key signature of one sharp (F#). Measure 50: quarter note G4, quarter note A4, quarter note B4, quarter note C5. Measure 51: quarter note B4, quarter note A4, quarter note G4, quarter note F#4. Measure 52: quarter note E4, quarter note D4, quarter note C4, quarter note B3. Measure 53: quarter note A3, quarter note G3, quarter note F#3, quarter note E3. Dynamics: *pp* (measures 50-51), *p* (measures 52-53), *pp* (measures 52-53).

54

*ppp* *pp*

Musical staff 54-57: Treble clef, key signature of one sharp (F#). Measure 54: quarter note G4, quarter note A4, quarter note B4, quarter note C5. Measure 55: quarter note B4, quarter note A4, quarter note G4, quarter note F#4. Measure 56: quarter note E4, quarter note D4, quarter note C4, quarter note B3. Measure 57: quarter note A3, quarter note G3, quarter note F#3, quarter note E3. Dynamics: *ppp* (measures 54-55), *pp* (measures 56-57).

58

*ppp* *n.*

Musical staff 58-62: Treble clef, key signature of one sharp (F#). Measure 58: quarter note G4, quarter note A4, quarter note B4, quarter note C5. Measure 59: quarter note B4, quarter note A4, quarter note G4, quarter note F#4. Measure 60: quarter note E4, quarter note D4, quarter note C4, quarter note B3. Measure 61: quarter note A3, quarter note G3, quarter note F#3, quarter note E3. Measure 62: quarter note D3, quarter note C3, quarter note B2, quarter note A2. Dynamics: *ppp* (measures 58-61), *n.* (measures 61-62).

River Prism

8

COMPUTER  
CUE 3

III.

62 *with intensity*  
♩ = c.120-126

*f*

64

*mf*

66

*f* *cresc.* *f* *mf*

69

*f* *cresc.* *ff* *ffp*

72

*mf* *f* *fp* *ff* *p* *p* *cresc.*

*harshly*

75

*mf* *f* *mf*

*harshly* *norm.*

78

80 *ff* << *mf* *ff* *dim.*

83 *mp* *ff* *ff* <<< *ff* *mf*

87 *ff*

90 *mf* *cresc.*

92 *f* *p* *cresc.*

95 *fp* < *fp* *ff* *sub p*

98 *cresc.* *f* *mf* *ff* (wide vibr.)

River Prism

10

101

(sim) *harshly* *ff* *p* *ff*

to.....non vibr.

Detailed description: This block contains the first four measures of the piece. Measure 101 starts with a treble clef, a key signature of one flat, and a 4/4 time signature. It features a series of eighth notes with accents, marked *ff*. Measure 102 continues with eighth notes, marked *ff*, and includes a wavy line above the staff labeled "(sim)". Measure 103 has eighth notes with accents, marked *p*. Measure 104 features a five-fingered chord (5) marked *ff*. A wavy line above the staff in measure 104 is labeled "to.....non vibr."

105

slight vibr.....to..... non vibr. *sub p* *pp* *ppp sempre*

legato without pause (blurred)

COMPUTER CUE 4

Detailed description: This block contains measures 105 through 109. Measure 105 starts with a treble clef, a key signature of one flat, and a 4/4 time signature. It features a series of eighth notes with a wavy line above the staff labeled "slight vibr.....to..... non vibr.", marked *sub p*. Measure 106 has eighth notes marked *pp*. Measure 107 has eighth notes marked *ppp sempre*. Measure 108 has eighth notes marked *ppp sempre*. Measure 109 has eighth notes marked *ppp sempre*. A box labeled "COMPUTER CUE 4" is positioned above measure 107. A wavy line above the staff in measure 107 is labeled "legato without pause (blurred)".

110

5

Detailed description: This block contains measure 110, which features a series of eighth notes with a five-fingered chord (5) above the staff.

112

5

Detailed description: This block contains measure 112, which features a series of eighth notes with a five-fingered chord (5) above the staff.

114

5

*dim.* ..... *n.*

Detailed description: This block contains measure 114, which features a series of eighth notes with a five-fingered chord (5) above the staff. The measure is marked *dim.* and ends with a fermata. A dashed line extends from the end of the measure, and the letter "n." is written at the end of the line.