

Instruments:

- 2 Flutes (doubling piccolo)
- 2 Oboes
- 2 Clarinets (B-flat)
- 2 Bassoons
- 2 Horns (F)
- 2 Trumpets (B-flat)

- solo Trombone

- 2 percussion players

- 1 Piano

- 8 Violins I
- 6 Violins II
- 5 Violas
- 4 Cellos
- 2 Double Basses



Layout:

- 1 Flute
- 1 Oboe
- 1 Clarinet
- 1 Bassoon
- 1 Horn
- 1 Trumpet
- 1 Percussion
- 4 Violins I
- 3 Violins II
- 2 Violas
- 2 Cellos
- 1 Double Bass

R
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- solo Trombone
- 1 Viola
- Piano

L
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- 1 Flute
- 1 Oboe
- 1 Clarinet
- 1 Bassoon
- 1 Horn
- 1 Trumpet
- 1 Percussion
- 4 Violins I
- 3 Violins II
- 2 Violas
- 2 Cellos
- 1 Double Bass

Percussions

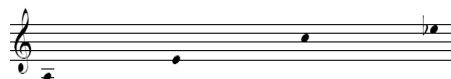
Right

- 2 tamtams (medium, and large)
- 1 bass drum
- 5 wood blocks
- 1 vibraphone
- 1 marimba
- 5 bongos
- 2 suspended cymbals (*medium, and large*)
- Lion's Roar
- 1 Snare Drum
- 4 Pitched Gongs



LEFT

- 2 tamtams (small, and small medium)
- 5 temple Blocks
- 1 vibraphone
- 2 Congas
- 2 suspended cymbals (*small, and medium small*)
- 1 Timpani (28")
- 4 Pitched Gongs



All tamtams, cymbals must be big enough to be able to play arco (by bows).

Vast Ocean is commissioned by SWR for Donaueschinger Musiktage.
Kompositionsauftrag des Sudwestrunfunks

First Performance: 15th October, 2005 at Donaueschinger Musiktage
performed by *Hilversum Radio Orchestra*, Experimentalstudio Heinrich-Strobel-Stiftung
Conductor: Peter Eötvös

All accented grace notes must be played rapidly and exaggerated.
The Score is in C.

ELECTRONICS: (all units are *milliseconds* for time, *scents* for pitches)

Solo Trombone and solo Viola (both seated in “Centre”) are amplified throughout the piece.

Although only the Trombone plays with live electronics *effects=VerticalDelay, HarmonizerDelay, HarmonizerGrain, 4Harmonizers*: see below

Trombone part: All and only the music which are surrounded by the dotted or non-dotted Box are fed into those effects.

Dotted Box: Program Changes are controlled by the pedal by the Trombone player.

Non-dotted box: Program Changes are controlled by the sound engineer (Klangregie)

P = program number change reflects the current set of the routing and the parameters.

Trigger mode = Program number is changed by 1 hit of the keyboard. (by the Klangregie)

Sticky mode = Program number changes twice. First, by pressing down the key and keep holding, then release the key.

Stated i.e. P3=====P4 in the score. It means:

“Press down”: P3

“Release the key”: P4

Halaphon: This Spatialization technique was invented by the Experimentalstudio der Heinrich-Strobel-Stiftung des SWR. (www.experimentalstudio.de)

Vast Ocean uses the following live electronics techniques (only with solo trombone).

- Vertical Delay = Multi Tap Delay Chain. Effect is creating by overlapping about 4000 slightly different delays.
- Harmonizer Delay = Tranposition+delay
- Harmonizer Grain= Tranposition+delay+Fragmentation
- 4 Harmonizers= Transposes and plays immediately with original sound. (in result, 5 note chord)

HarmonizerDelay are always through reverb except for *Vertical Delay*

Grain setup. (always the same as bellow)

Grain= Duration, Transposition, Variation of Transposition, Distance, Variation of Distance

	(gduration)	(gtransp)	(gtransvar)	(gdistance)	(gdistvar)
Grain1:	75	0	0	200	0
Grain2:	80	0	0	220	0
Grain3:	78	0	0	210	0
Grain4:	70	0	0	190	0

4 Harmonizers

Settings:

All DELAYs: 0

4Harmonizers set 1 (h1)

pitch: -200, 100, 600, 700,
speakers: 1+11 1+11 2+12 2+12

4harmonizers set 2 (h2)

pitch: -600, -200, 400, 500,
speakers: 1+11 1+11 2+12 2+12

4harmonizers set 3 (h3)

pitch: -800, -200, 500, 800,
speakers: 1+11 1+11 2+12 2+12

4haronizers set 4 (h4)

pitch: -400, -100, 200, 700,
speakers: 1+11 1+11 2+12 2+12

4harmonizers set 5 (h5)

pitch: -1900, -1100, -800, 1000,
speakers: 1+11 1+11 2+12 2+12

4harmonizers set 6 (h6)

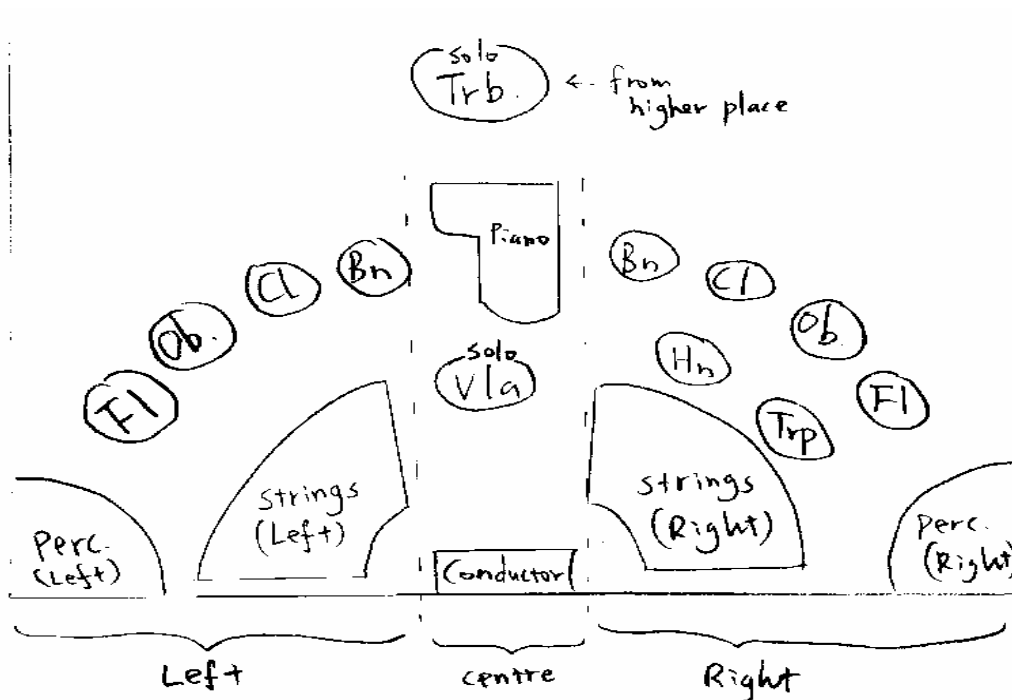
pitch: 800, 1000, 1500, 1600,
speakers: 1+11 1+11 2+12 2+12

Details on electronics for *Vast Ocean*, please contact:

Experimentalstudio der Heinrich-Strobel-Stiftung des SWR. (www.experimentalstudio.de)

The seating on the stage:

(Positions of the Loudspeakers: please see the other page.)



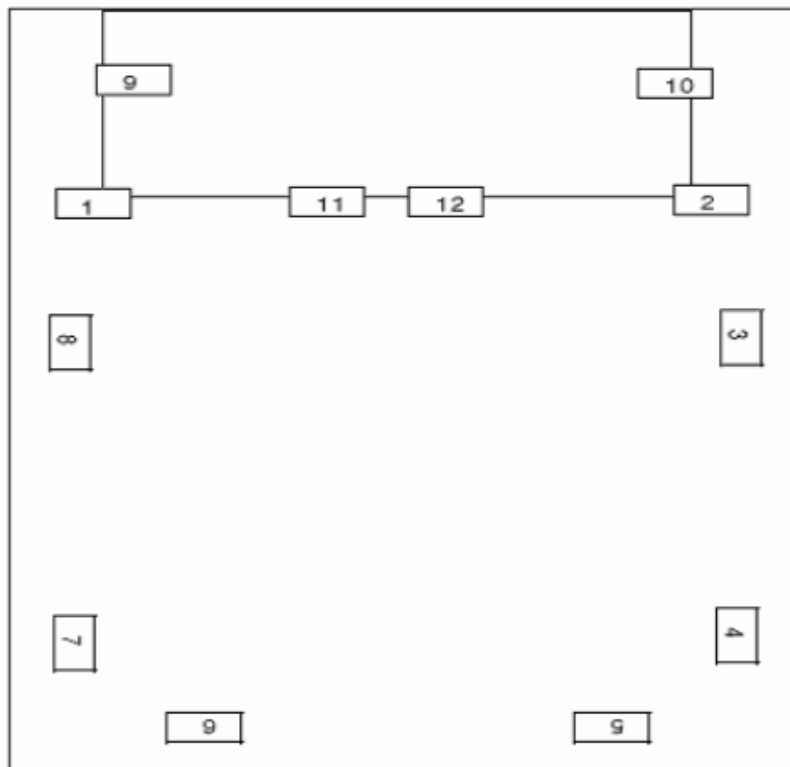
Trombone player also needs a Bucket Mute looking like this:



Dai Fujikura 2005

jo 21.04.2005

Loudspeaker Setup



Vast Ocean

for solo trombone and orchestra with live electronics

Dai Fujikura