

**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
  
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 solo Trombone
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 Piano

- 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**

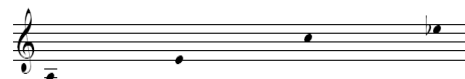
Right

- 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.**

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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](http://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

#### 4harmonizers 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)

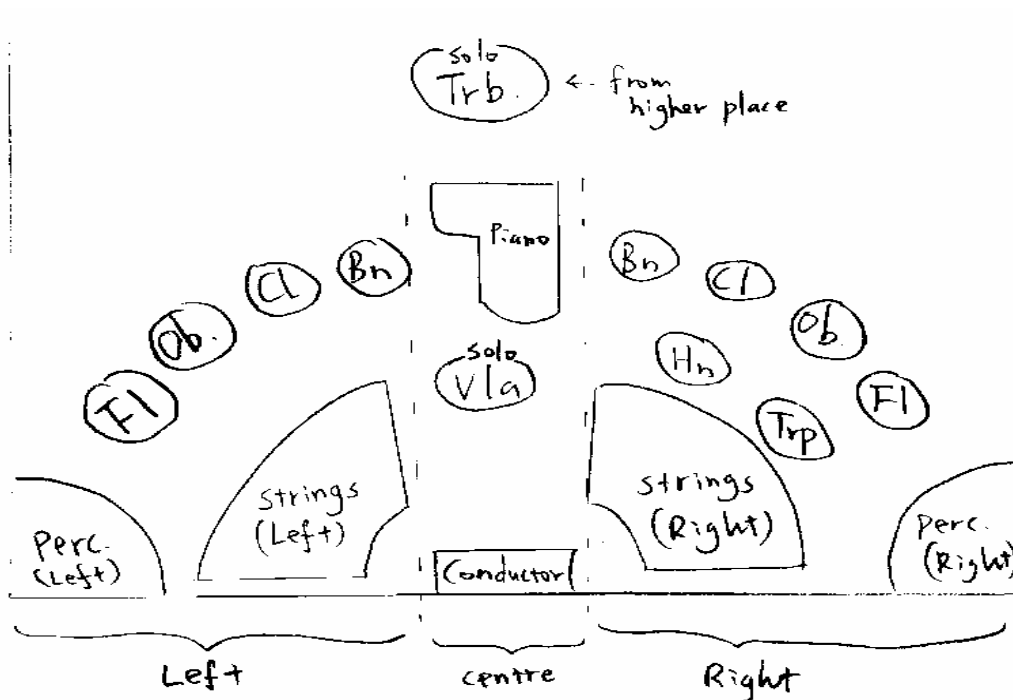
pitch: 800, 1000, 1500, 1600,  
speakers: 1+11 1+11 2+12 2+12

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

Experimentalstudio der Heinrich-Strobel-Stiftung des SWR. ([www.experimentalstudio.de](http://www.experimentalstudio.de))

### The seating on the stage:

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



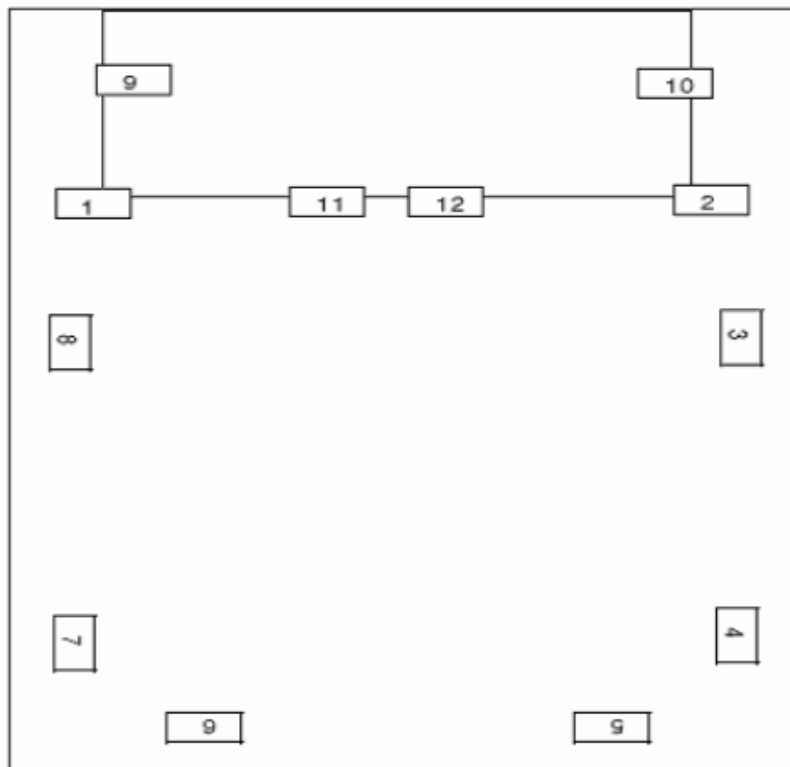
Trombone player also needs a Bucket Mute looking like this:



Dai Fujikura 2005

jo 21.04.2005

### Loudspeaker Setup



# ***Vast Ocean***

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*for solo trombone and orchestra with live electronics*

***Dai Fujikura***