Knut Vaage:

multiMORF 3

for trombone og foss for trombone and waterfall

2011

Sound design and programming by Thorolf Thuestad Video and programming by HC Gilje

TECHNICAL NEEDS (detailed setup on next two pages):

Surround PA with sub (extra: 1 central small speakers), 2 microphones, a computer running the multiMORF 3 software, a pedal trigger with 10 foot-switchers, and a eight channel sound card is required.

The video part needs a high quality video projector and a projection screen*, if not projected directly on e.g. a wall. Rear projection is preferred.

(*size of screen depending of size of room, but minimum 2,66 m wide and 2 m high)

General notes on video by HC. Gilje: "Each section of the score has a corresponding video section.

The video does not attempt at following the score directly, but instead is an expression of the various intensities and textures within a specific section.

Since the length and order of each section can vary from performance to performance, I decided to work with the idea of vertical time instead of horisontal time;

layering the contents of a section on top of each other instead of organising them in a chronological structure. What I hope to achieve is that every instant of the video contains the essence of that section.

Each section has it's unique identity, and it should be possible to morph from any section to another. Features which distinguishes each section from each other are degrees of intensity, which is dependent on speed, layering, colours and in constraining the image to only parts of the projection screen. Throughout all sections there is the vertical motion of the waterfall.

The contents of the video mirrors the process of constructing the sound textures: a combination of recorded waterfalls and digitally generated/manipulated material."

ABOUT THE PIECE:

multiMORF 3 is structured as a piece in open form. The performer is enabled to control the form of the piece, and to use the preprogrammed technology.

The performer should use a dynamic microphone on stand to be able to variate the distance to the mic.

This skill must be practiced with technology during preparing the performance of multiMORF 3.

The effect of the realtime treatment, and the quality of the output sound depends on this ability.

Accidentals apply for each note only. The performer must intonate partials without adaption to the tempered scale.

(In the score this kind of microtonality is not indicatet, but comes with the positions on the instrument)

There will be 10 triggers for 10 different parts. Each part provides 3 staffs for trombone-solo. Maximum time on each part is approx. tree minutes.

The soloist choose which staff to play and is free to jump between staffs inside each part, or make longer rests with background only.

The performer may omit parts and staffs, and may repite each part 3 times during one performance, but not more than 2 times directly repeated.

The patch includes a time-control. Shoving time, and alert when 30 sec left. Part 10 is empty for rapid fade of backgrounds, and for trombone solo only.

The number on each part of the score, 1 to 10 must match the number of the background choosen by the triggerpedal (1 to 10).

At some spots there will be cues (for part 1 marked: 1.1, 1.2, 1.3). To use the cues, the performer press the same pedal trigger again.

Press pedal once to go one step further. Pressing pedal one 3 times rapidly makes the patch jump to 1.3 etc.

To start over again from the beginning of the same part, press pedal 10, before pressing the wanted part, or press pedal "down".

All the triggers will allow a "hangover" fade from the previous part. To avoid "hangover", press pedal 10 and then the wanted part.

Total possible duration is approx. 82 min. Recommended duration: between 15 and 25 minutes.

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Detailed technical requirements for multiMORF 3.

The performer brings a computer running the multiMORF 3 video and audio software.

Audio needs.

Speaker system.

multiMORF3 may be run either on a 7.2/7.4 or 5.2/5.4 surround sound setup.

The speaker system should consist of high quality components, such as L'accoustics or Meyersound, and should be of suitable scale for the venue.

The center speaker should be placed on floor level in front of the performer, a high qualtiy stagemonitor is suitable.

2 stagemonitors for the Trombone player.

Refer to image below for example setup.

The outputs from the soundcards should be routed in the following manner:

- 1: Left
- 2: Right
- 3: Center
- 4: LFE channel, either to the subs if these are on seperate sends, or too L R if it is a system with crossover. It is preferable to have the subs on seperate sends in order to send to the subwoofers from all output channels.
- 5: Left mid surround. (optional)
- 6: Right mid surround (optional)
- 7: Left surround.
- 8: Right surround.

Mixer and effects.

Digital or analog mixer of good quality, with:

10 input channels

2 Vca or Dca (for digital mixer)

12 outputs.

All outputs driving speakers should go through a 31 band eq.

1 Digital reverb unit such as the Lexicon pcm 92

The reverb may be distributed in the surround system.

Microphones.

Condensator for amplification of the trombone, Akg 414. (This may be set to hypercardoid to minimize feedback)

Dynamic microphon prerferably a Sennheiser md 421, with tone control set in the middle. (But any dynamic that is eq ed on the mixer is OK.

The Akg 414 is routed to L - R for amplification and reverberation.

The dynamic is routed from FOH console via a stage return, to input 1 on the soundcard. This is the microphone that drives the live processing.

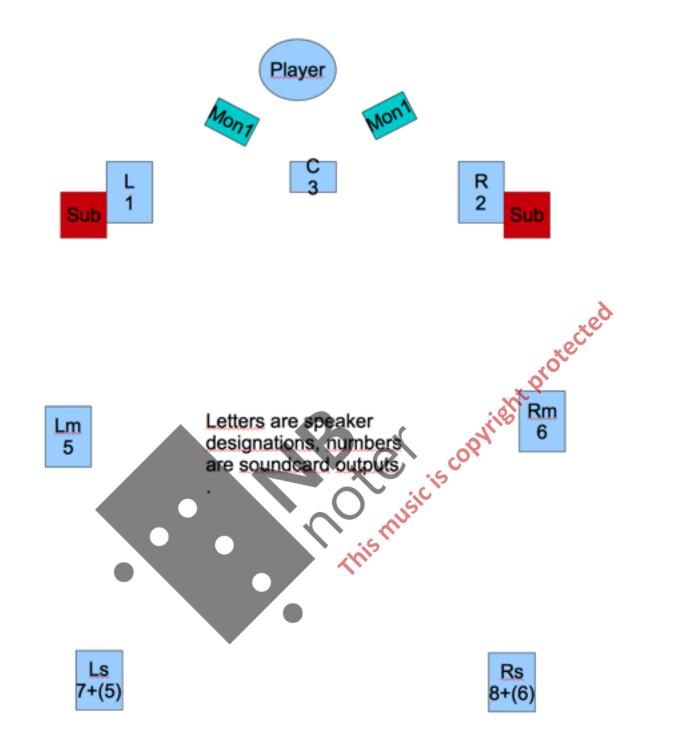
The live processing returned on channel 1 - 8 from the soundcard. This microphone is NOT routed to any speakers.

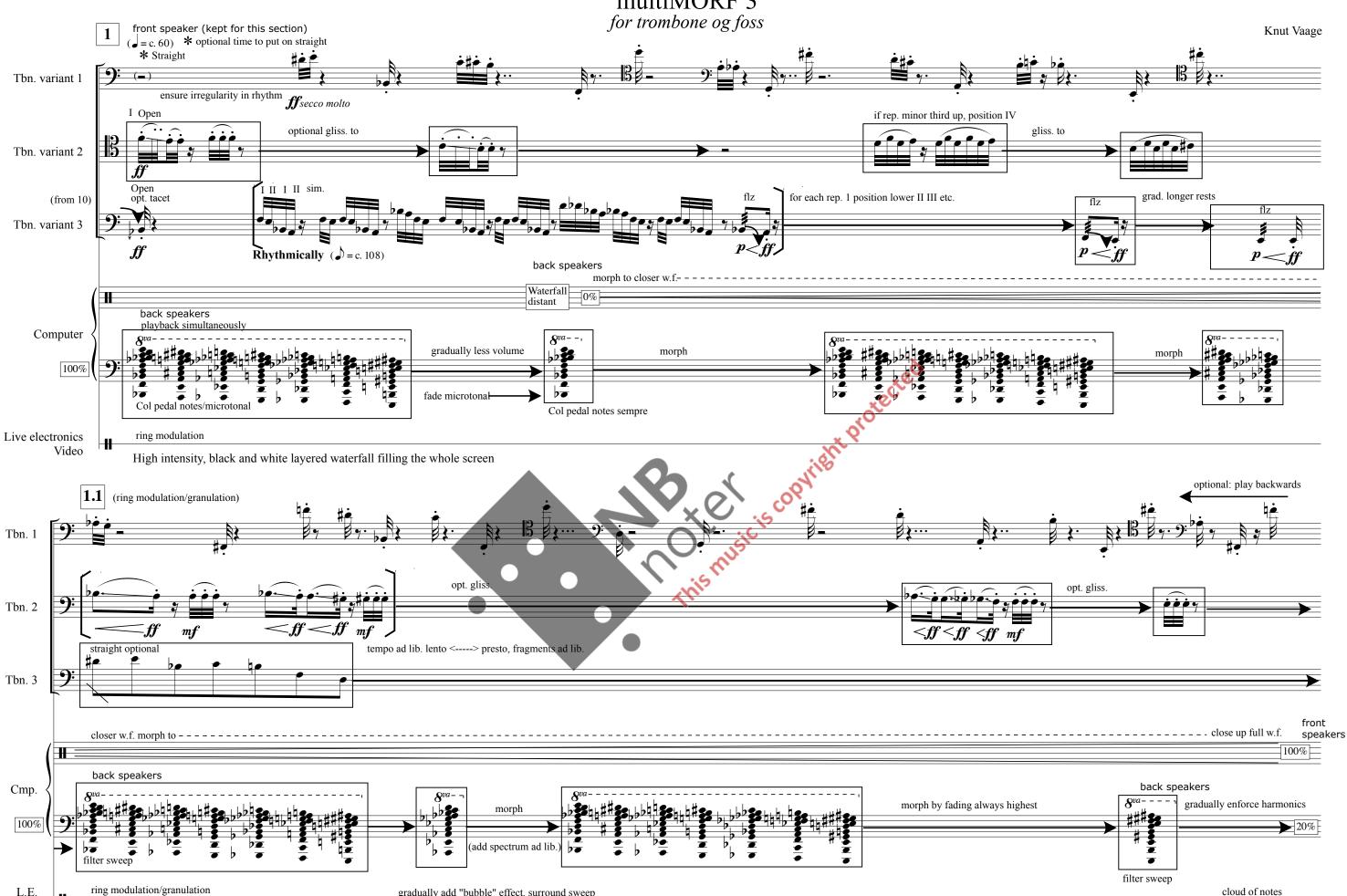
The dynamic is placed very close to the trombone bell for close microphone placement.

The sound engineer is expected to balance the live processing level by adjusting the level of the dynamic microphone return.

There is a input level meter in the top left corner of the software, make sure there is a healthy input level here.

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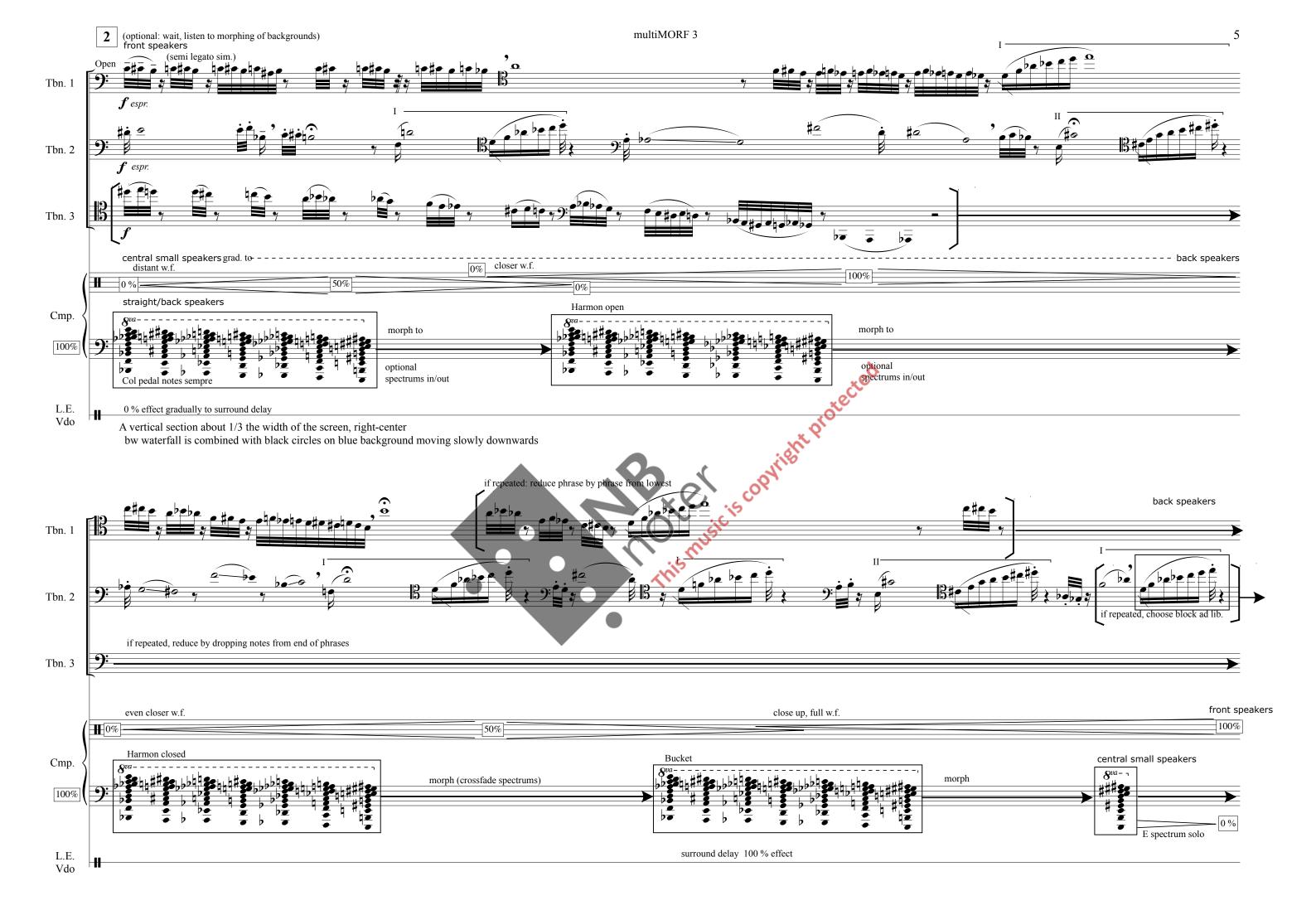
cloud of notes

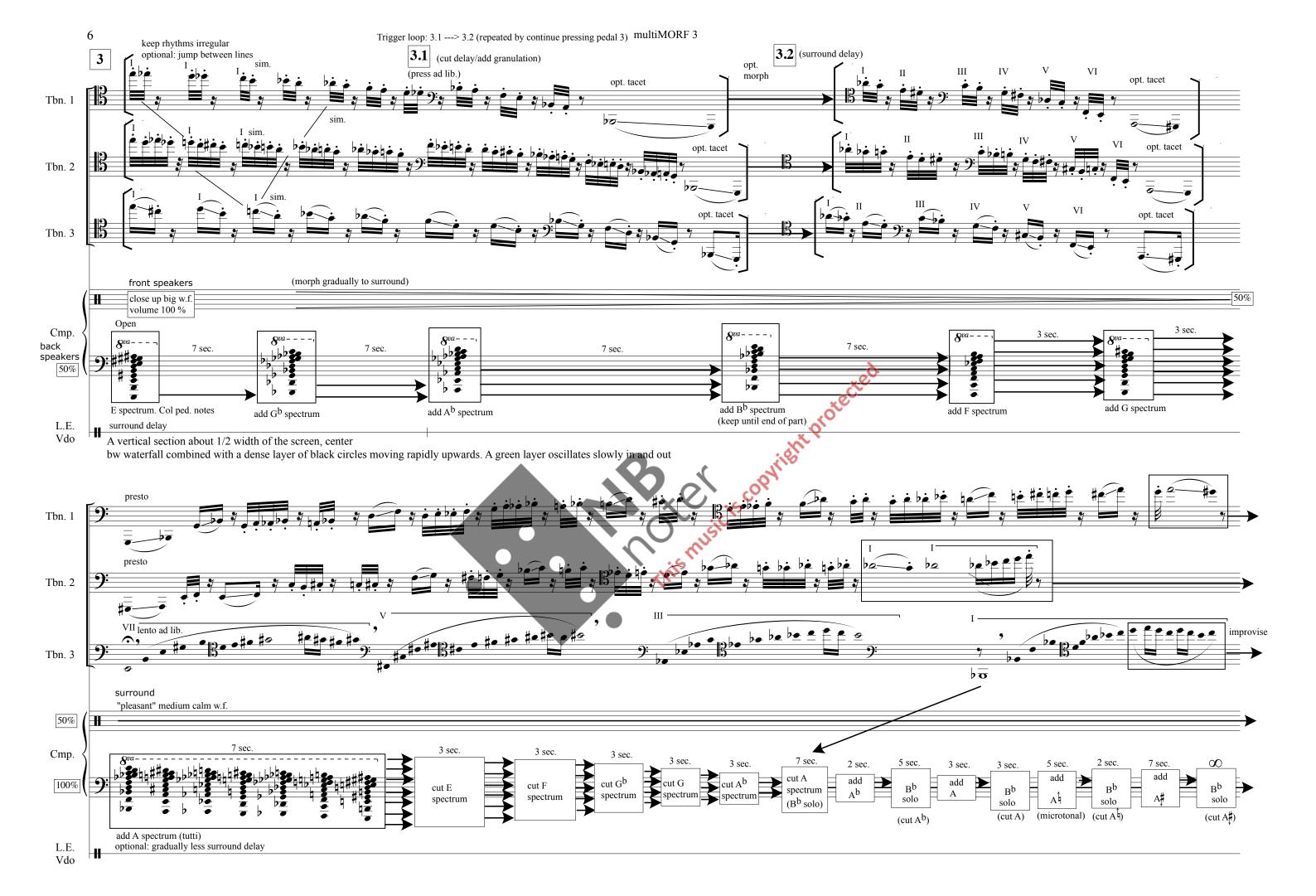
back speakers

gradually add "bubble" effect, surround sweep

L.E.

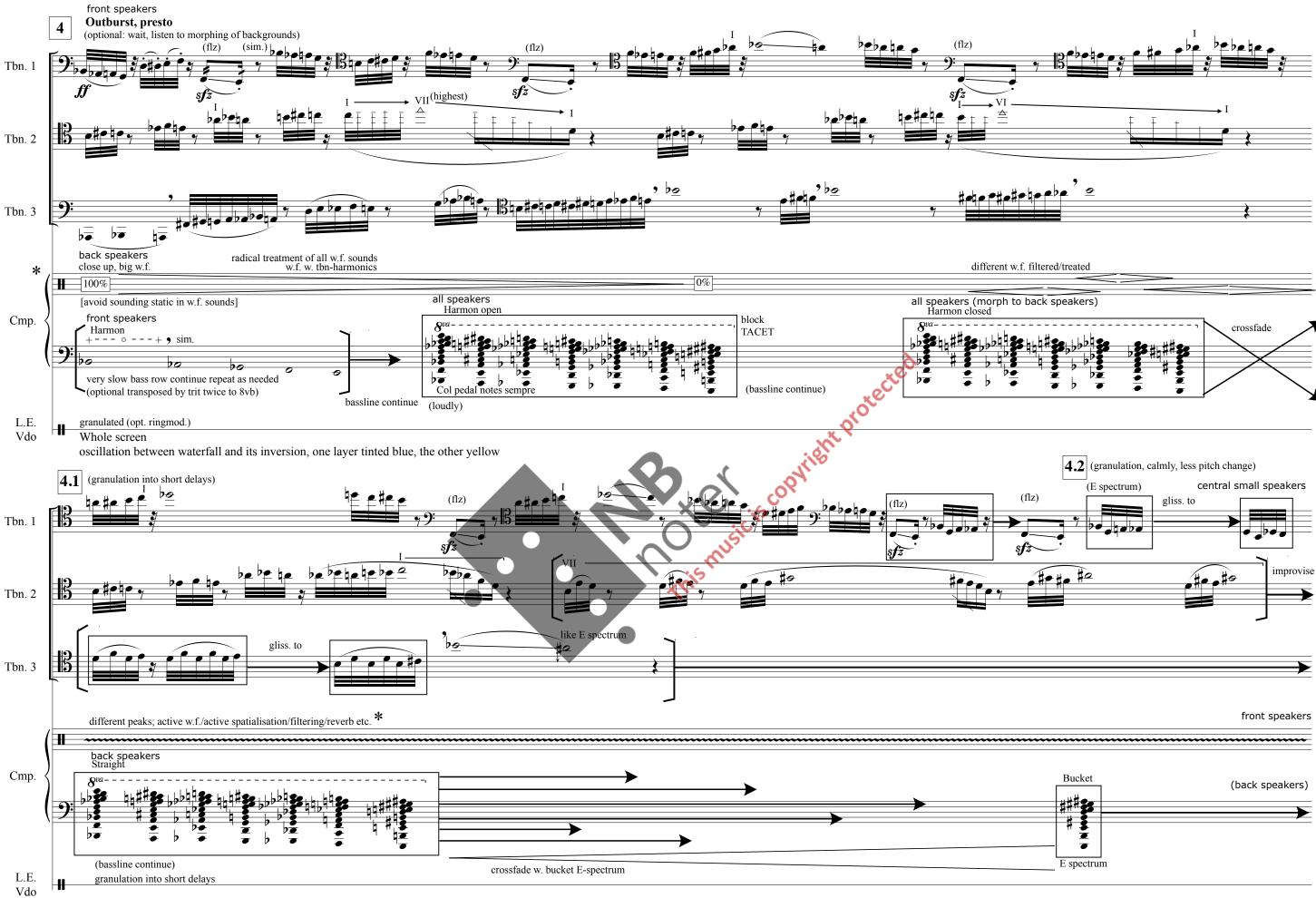
Vdo



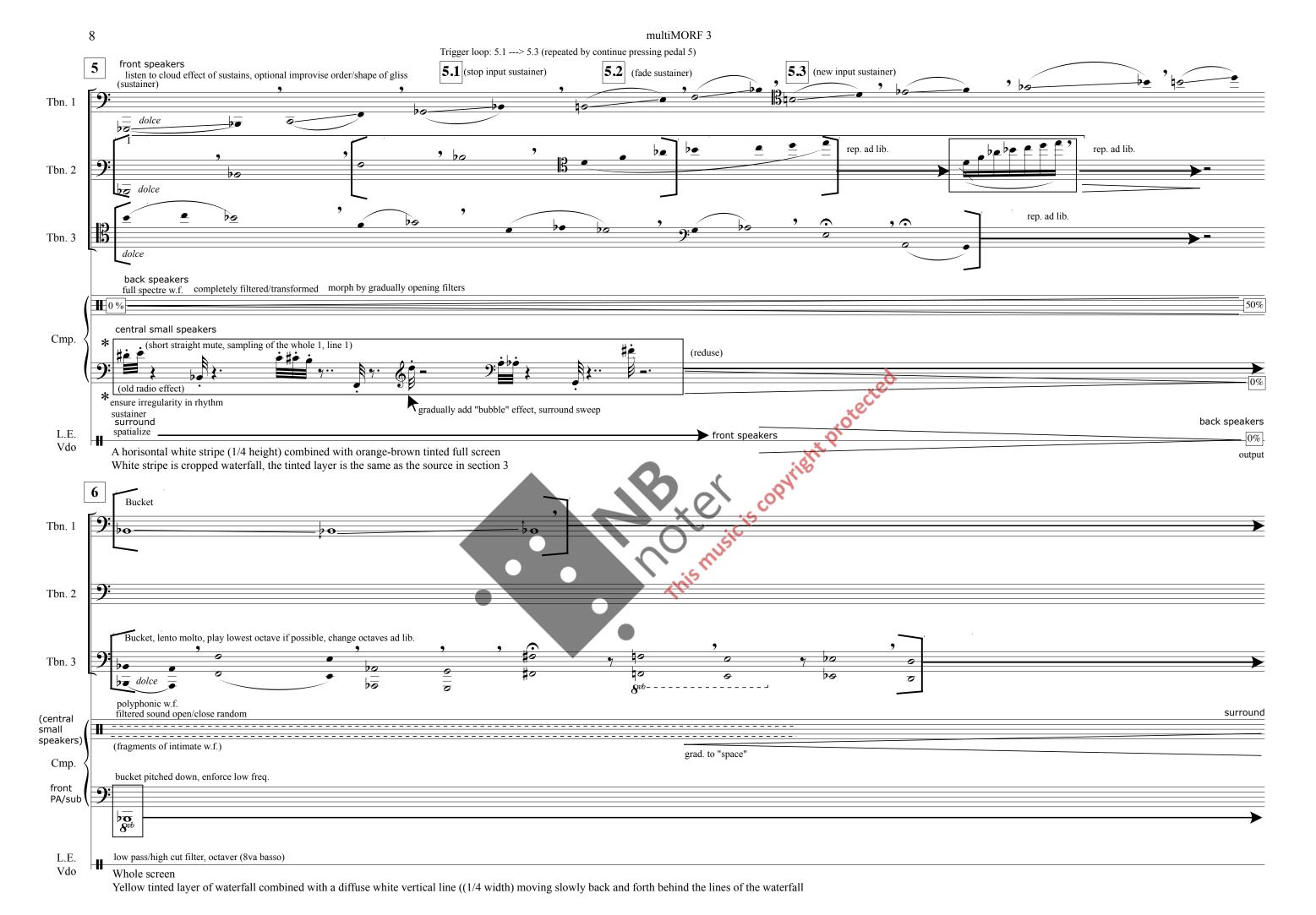


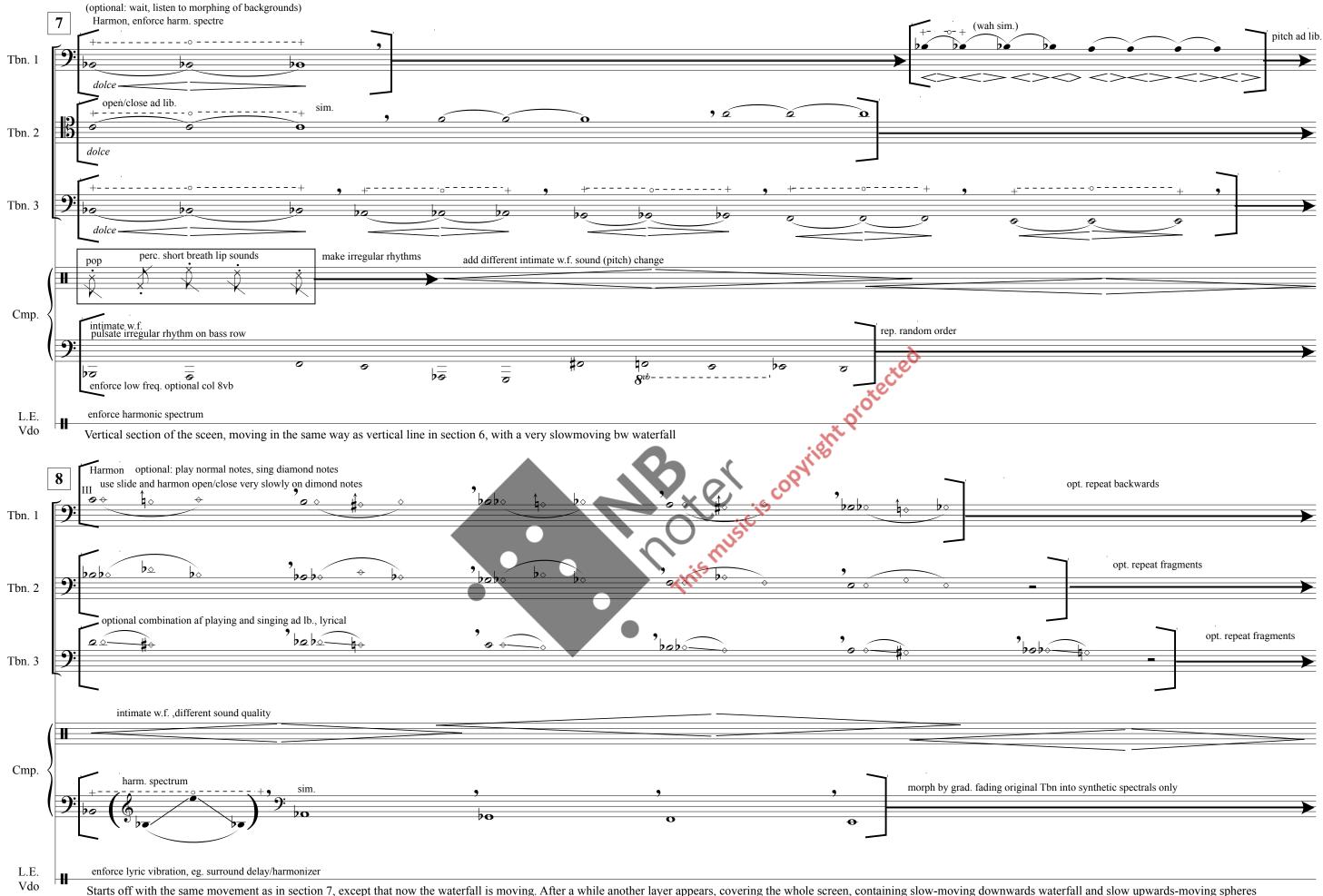
multiMORF 3

7



 $[\]star$ for the w.f. in this section: create a feeling of activity in different rooms/spaces





Starts off with the same movement as in section 7, except that now the waterfall is moving. After a while another layer appears, covering the whole screen, containing slow-moving downwards waterfall and slow upwards-moving spheres. It is faded from a brown-orange tint up to greyscale, then the brown-orange tint slowly appears again

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