

Prototyping.

Space finding.

Analysis.

Inhabit.

Layout.

Studio Anne Holtrop
ETH Zürich

Gypsum Prototyping
Jonas Kissling

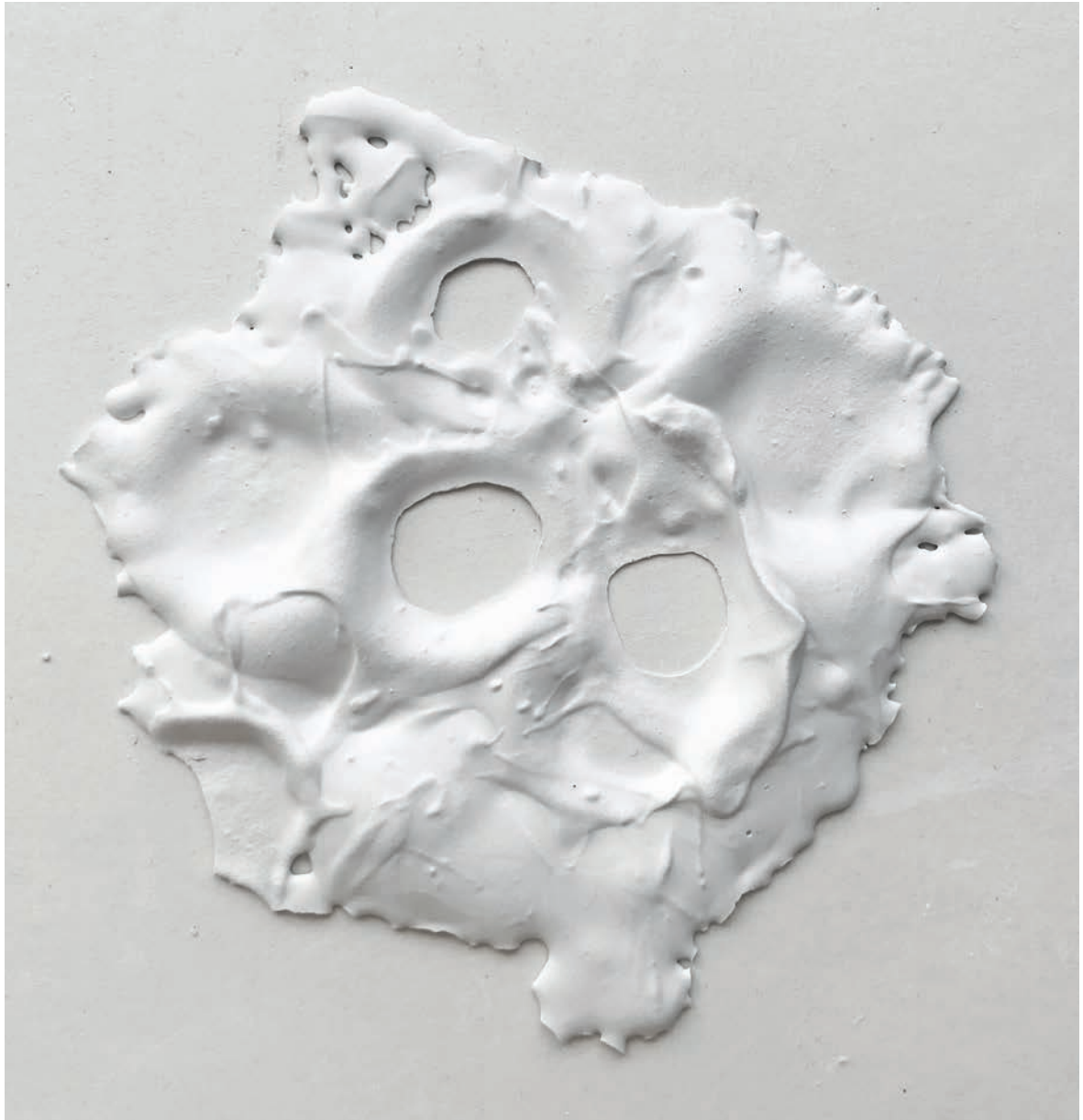
FS19

Prototyping.

Using Gypsum for Form Finding (Prototyping), particularly at the moment when Gypsum disconnects with the act of making (to drop gypsum of 0.75m). Gypsum freezes drops, splashes and still keeps a sense of homogeneity without representing an imprint of else. A process, created by chance thanks to gypsum's chemical features.

Two effortless samples are presented, one top and one bottom. A contrast between outside and inside has been revealed. Outside, they are not connected. Two sharp lines are moving separated from each other by defining various thresholds with covered and uncovered areas. Inside, they touch each other smoothly.

















































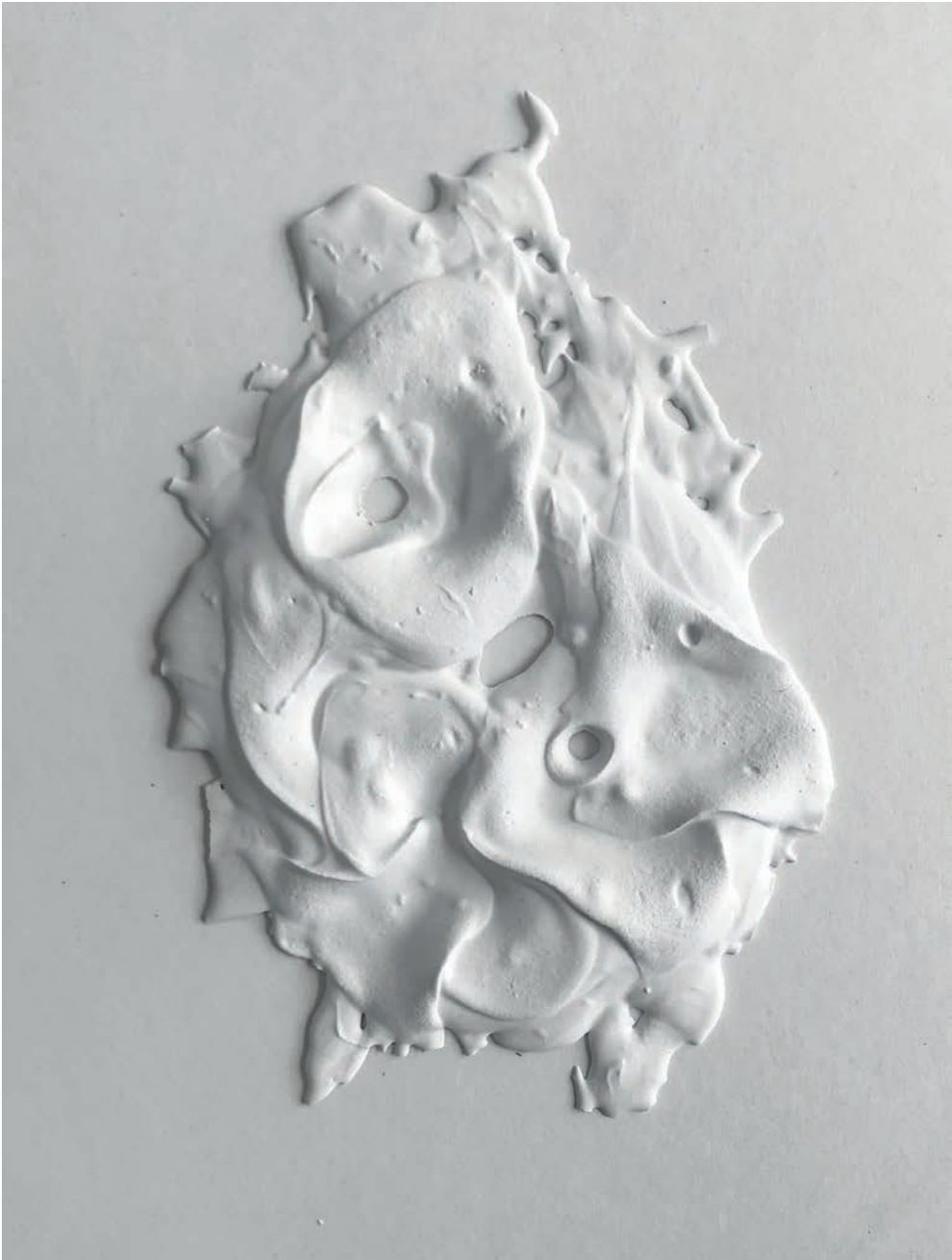










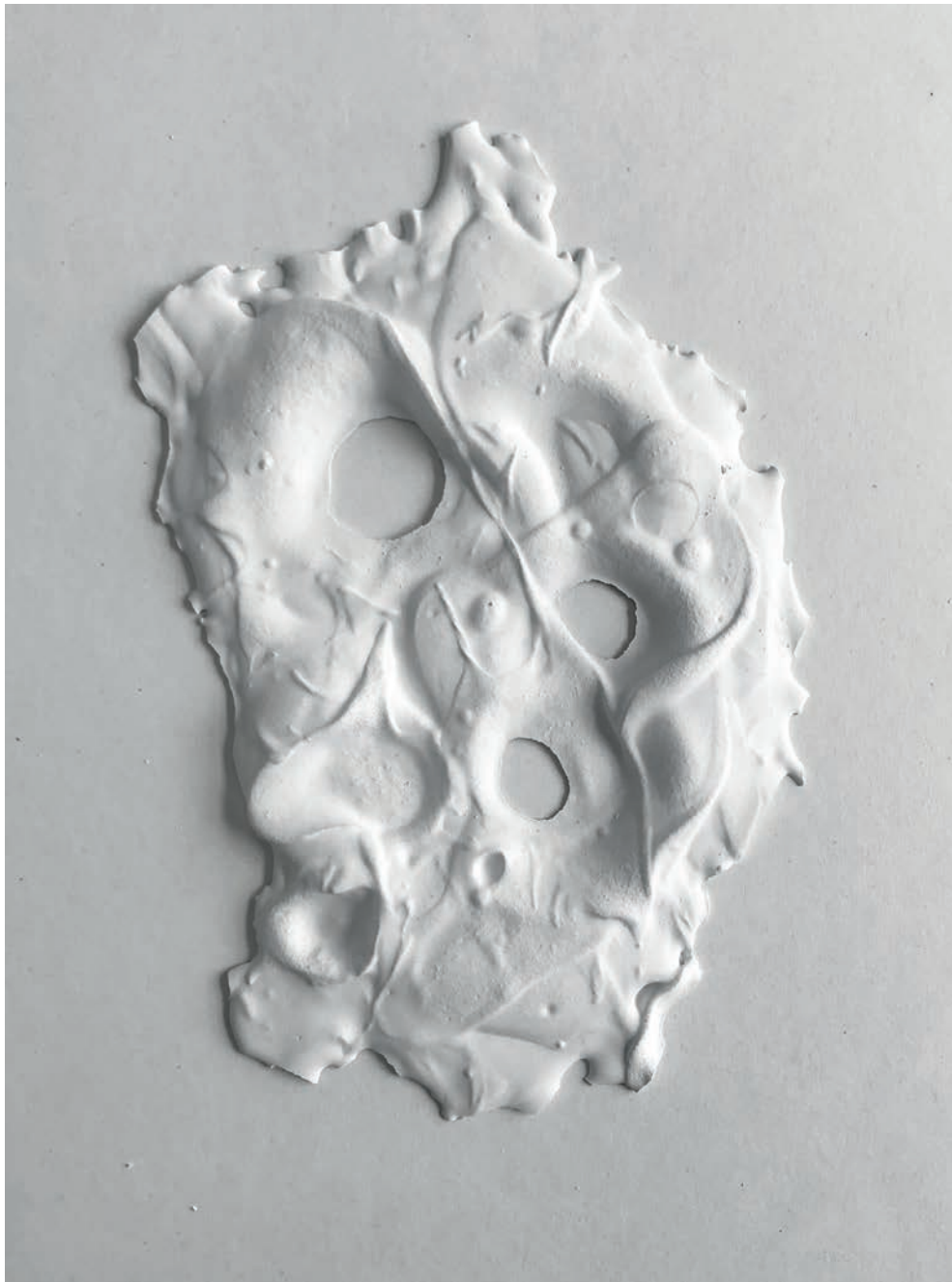


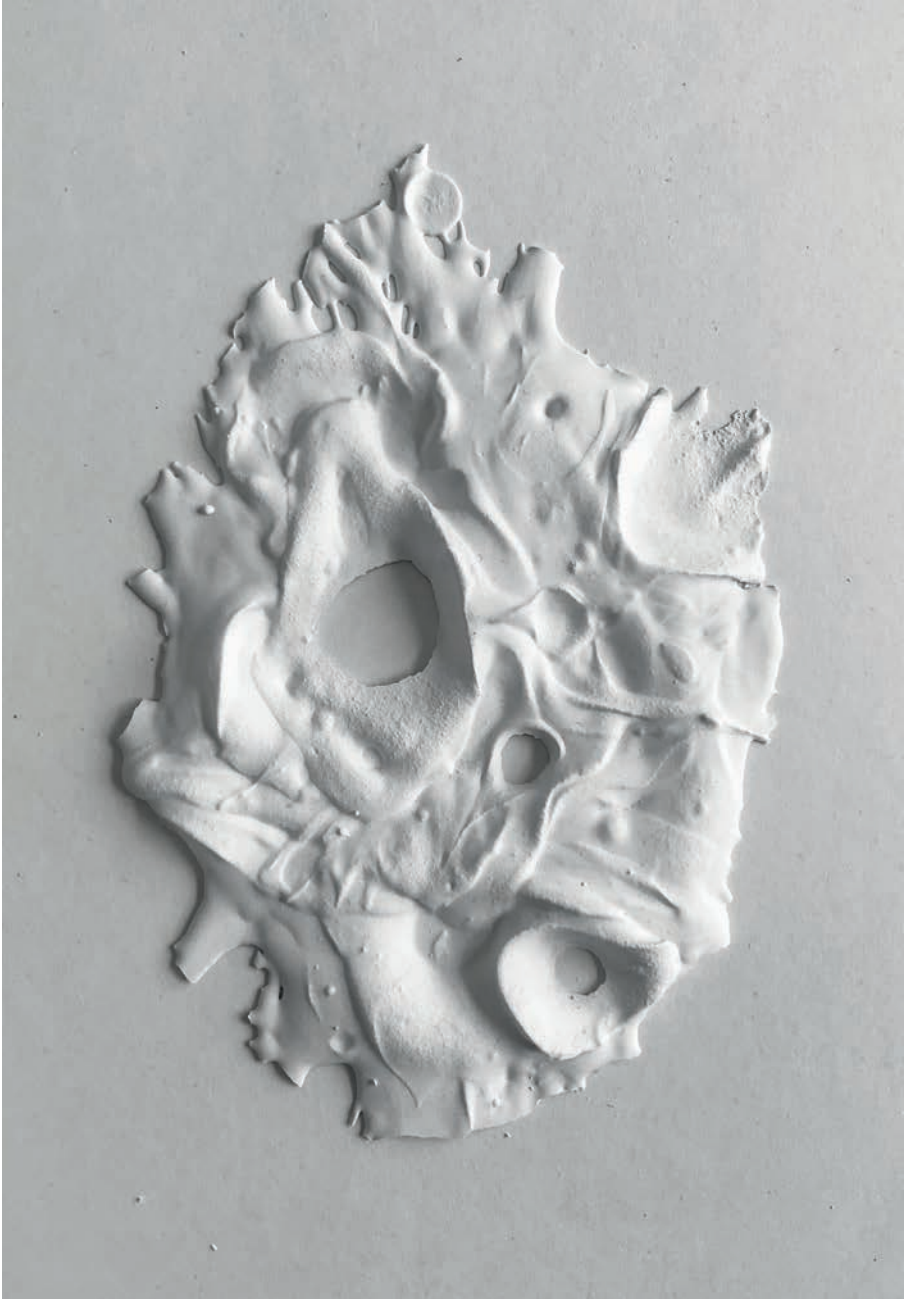


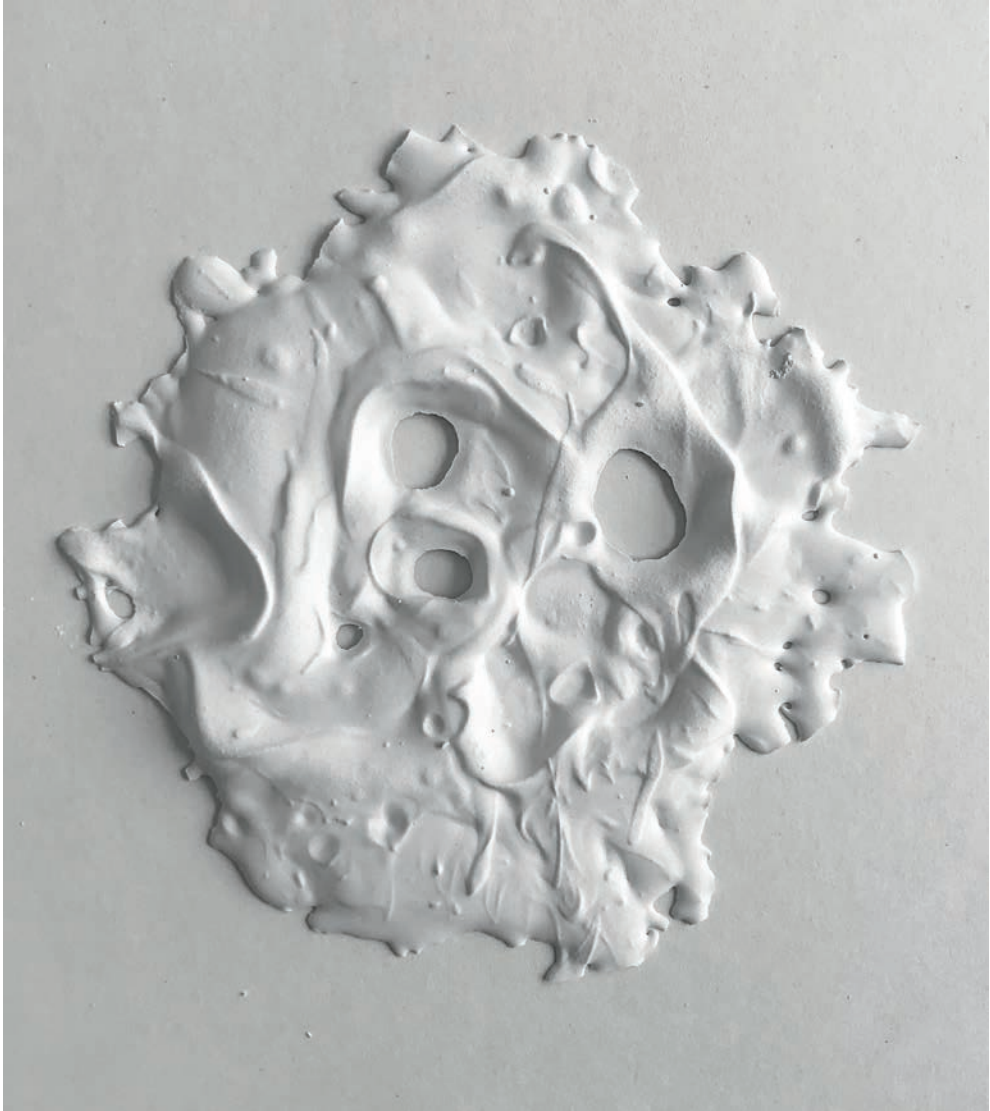


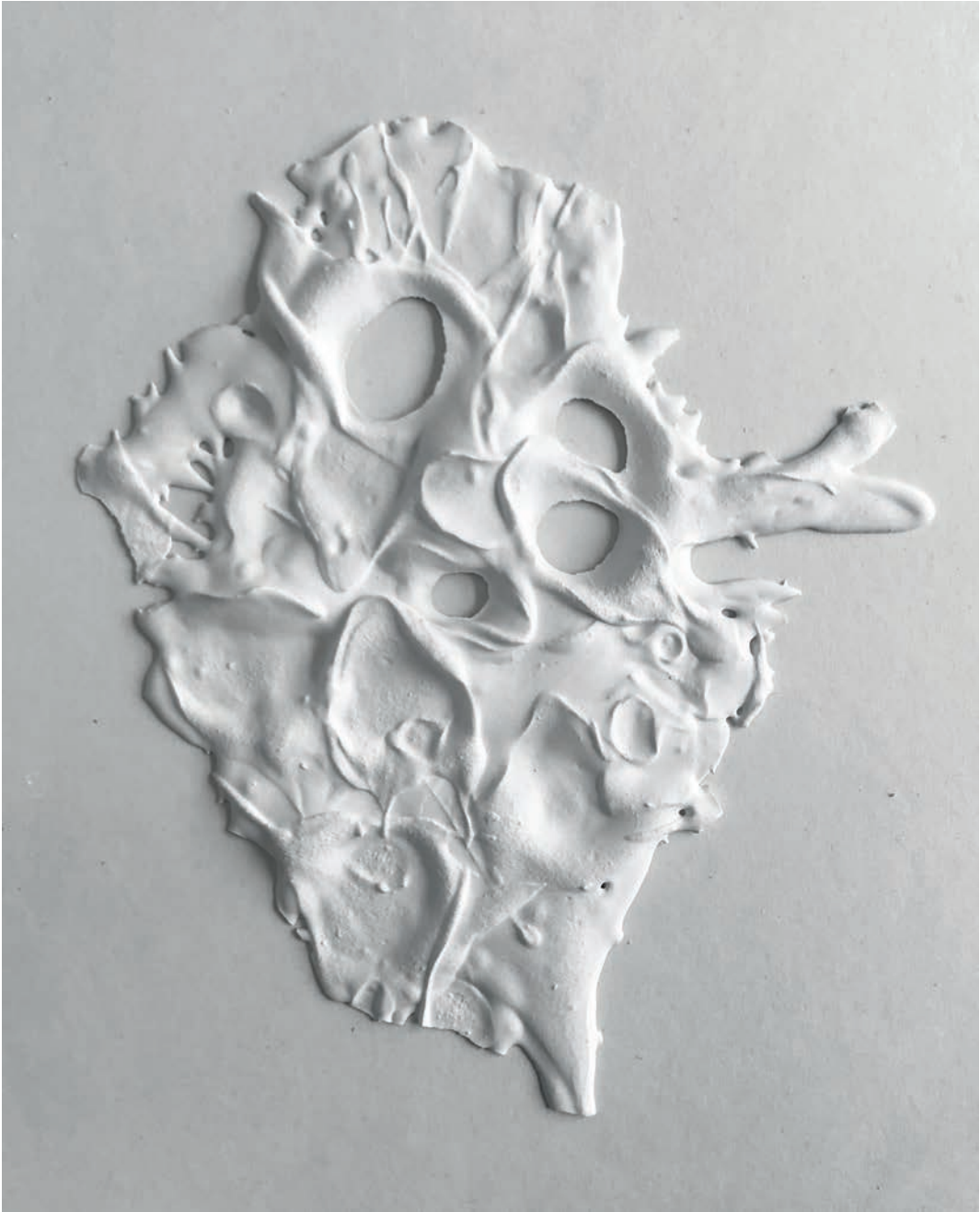




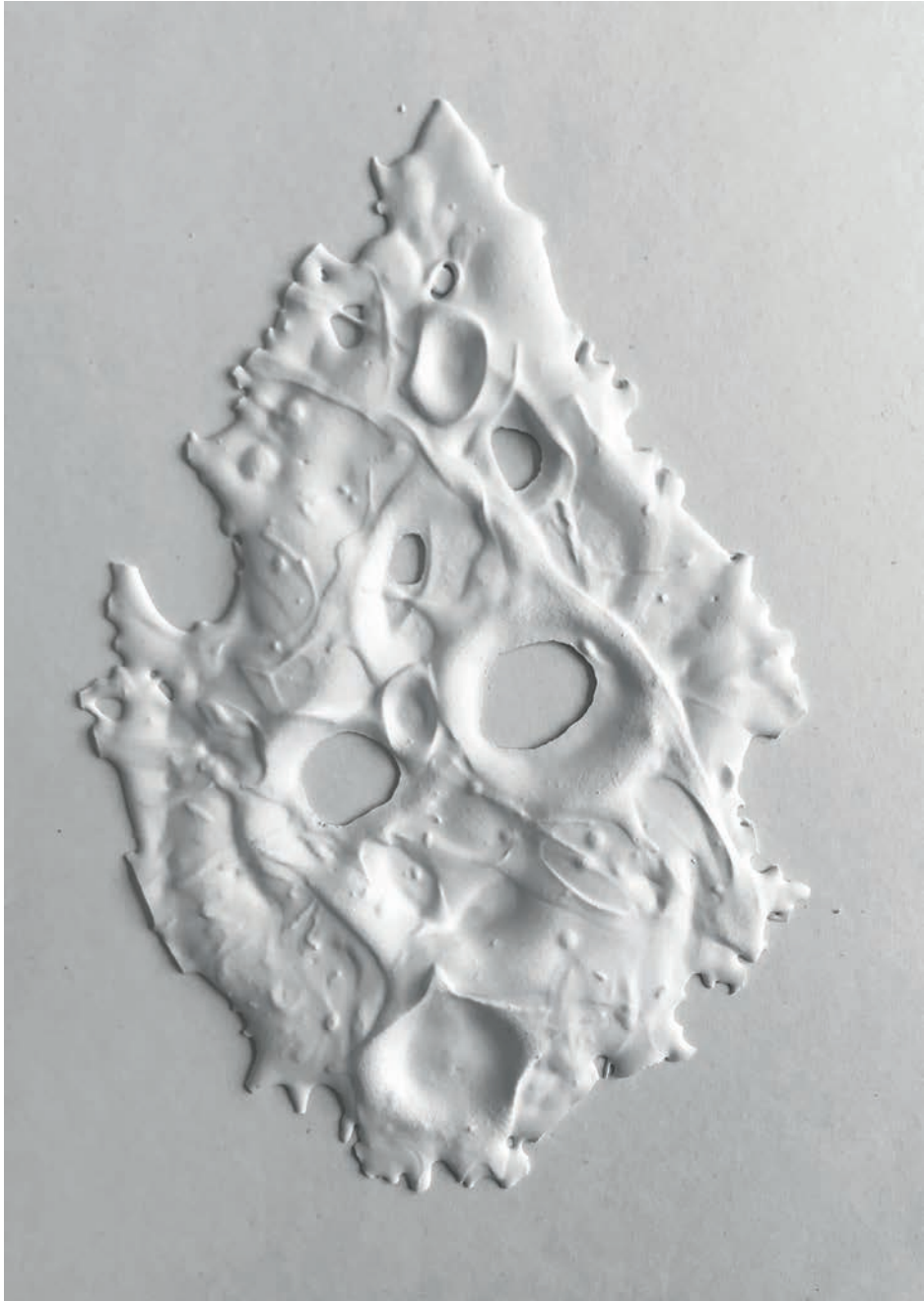




















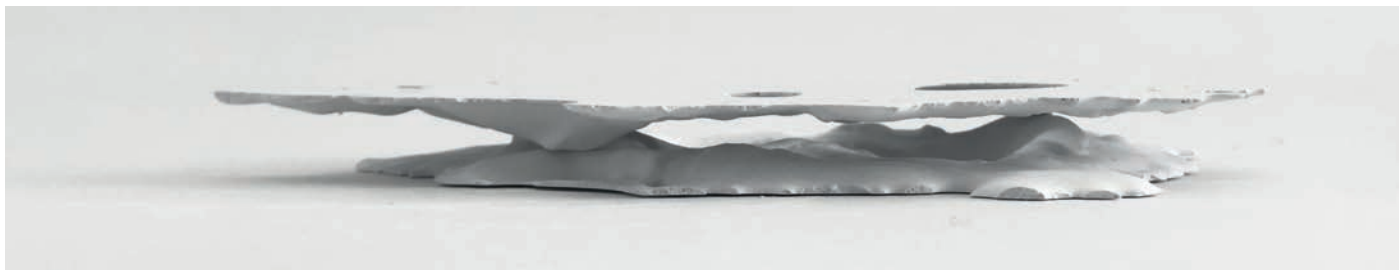
Space finding.

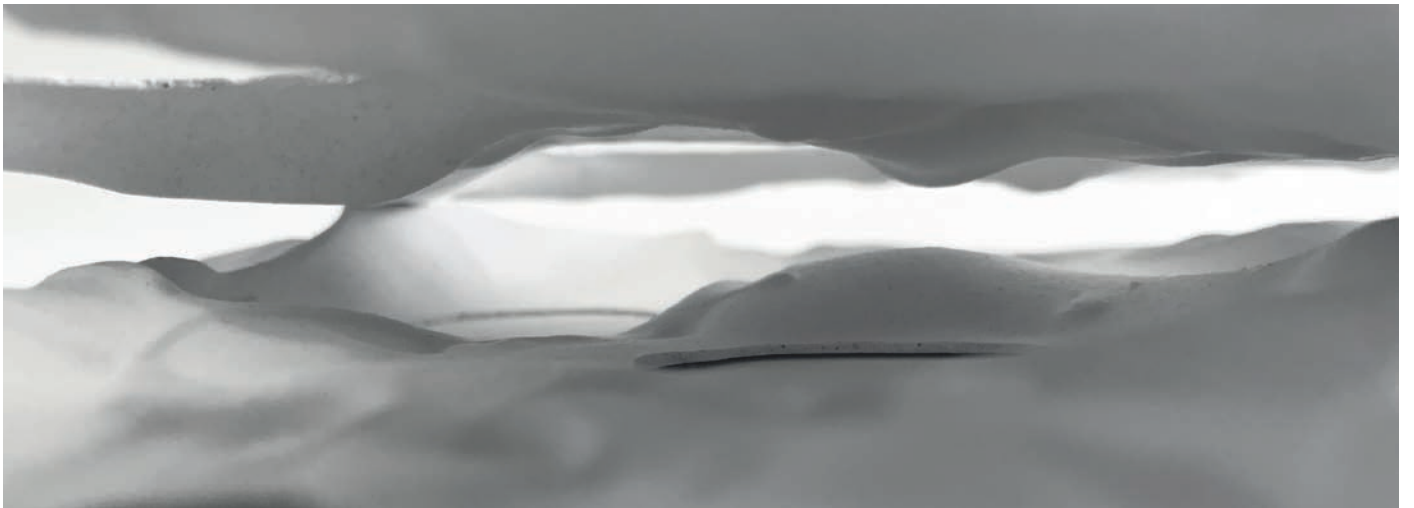
The samples create a potential area which is an open space that demonstrates a continuity and a strong connectivity. No given perspective can grasp the space. The notion and experience constantly change when moving around the space and a single point of view appears as a fragment of the whole.

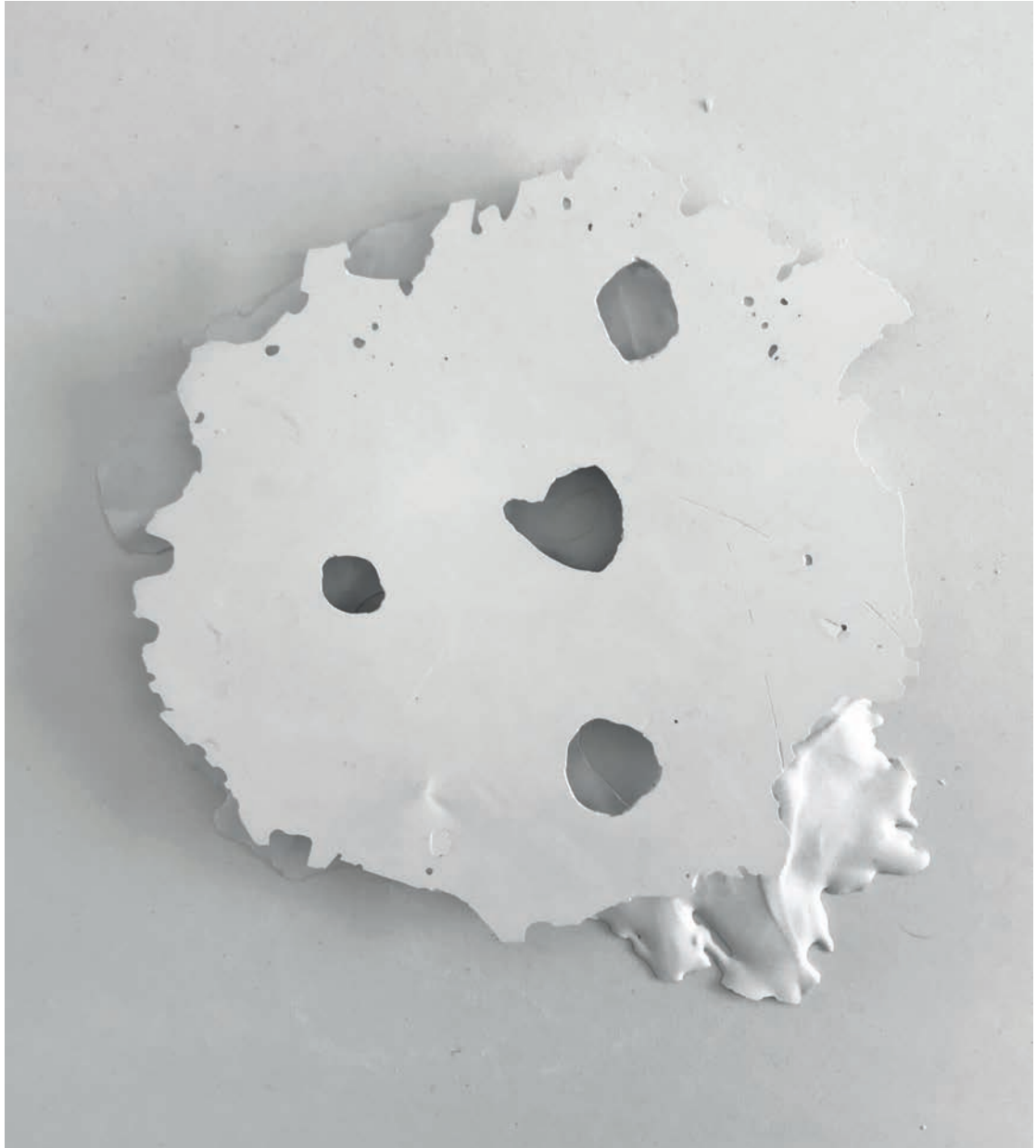
The continuous thresholds in three dimensions are influenced by transitions of high and low, wide and narrow. The form behaves liquid-like. Further criteria is the accessibility, contrast (pulling, hanging, overhang, nearly touch, mass and void), flat areas and direction.

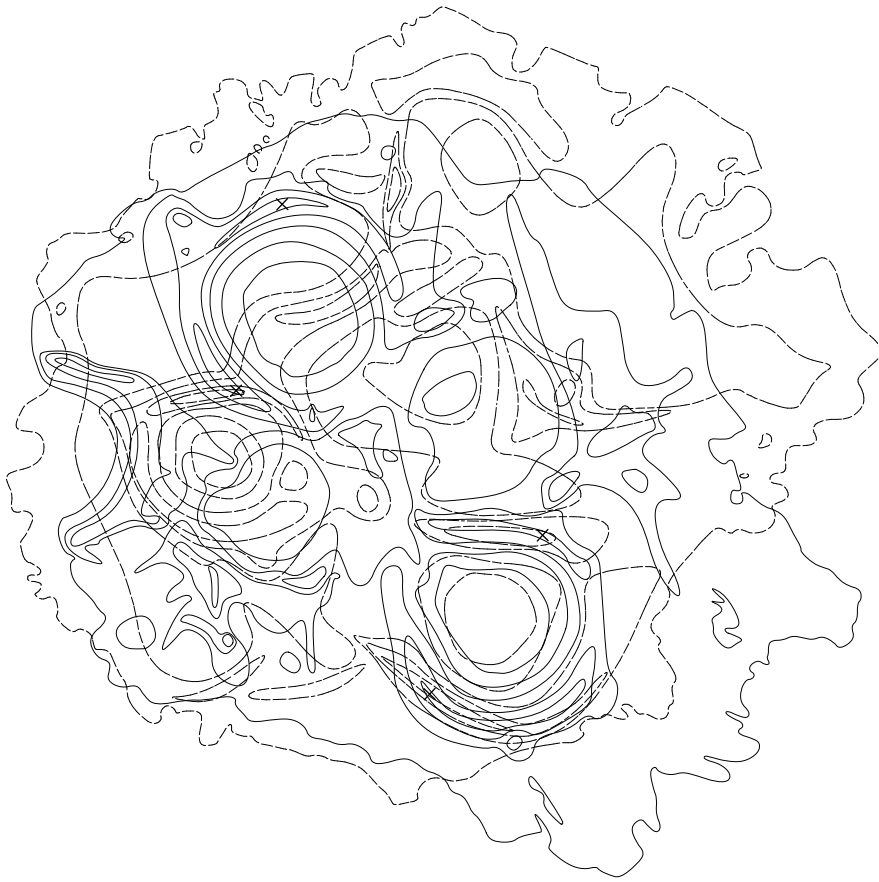


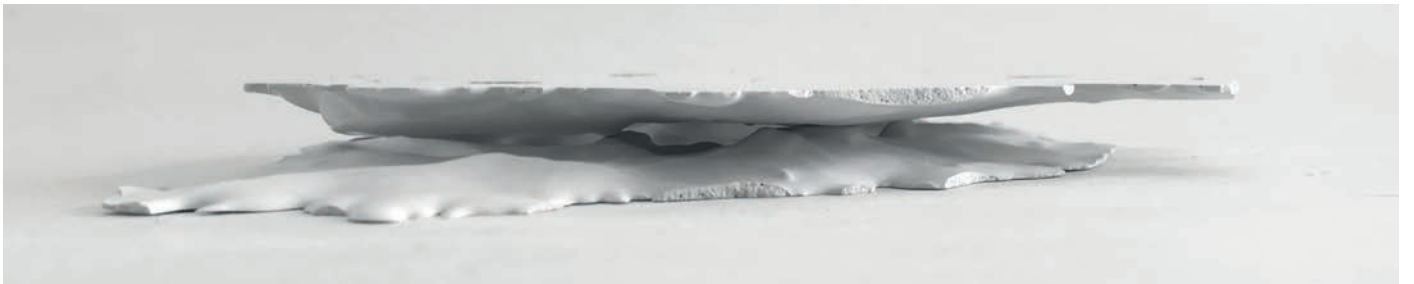






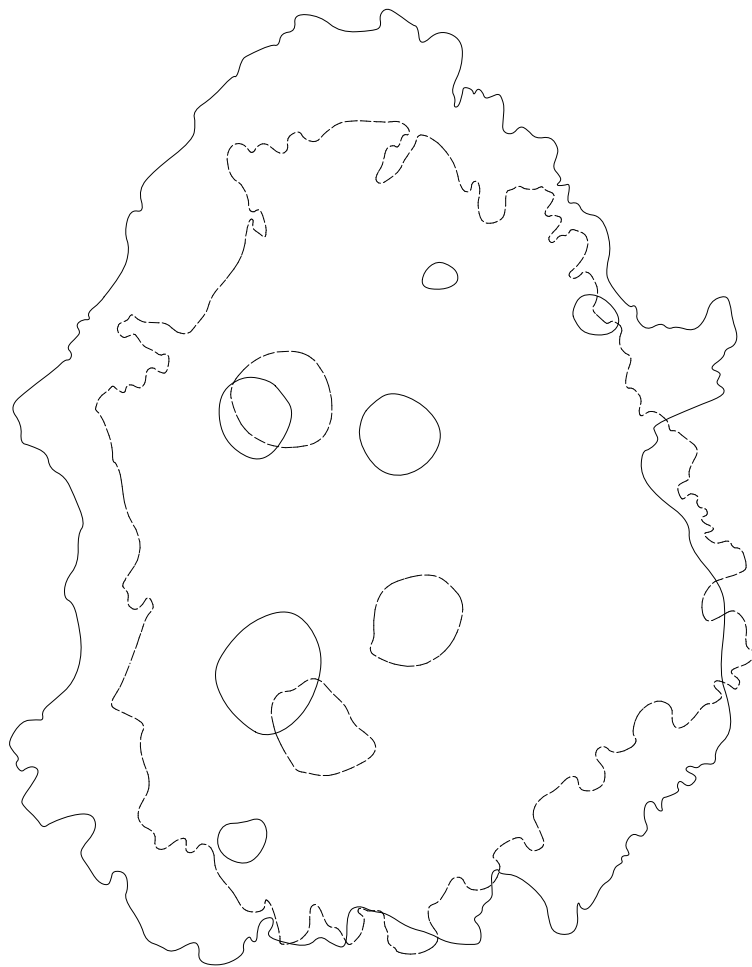


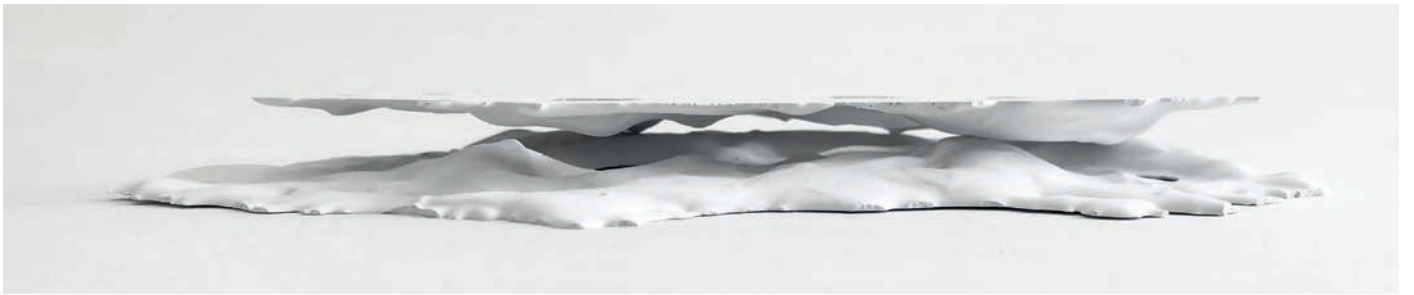


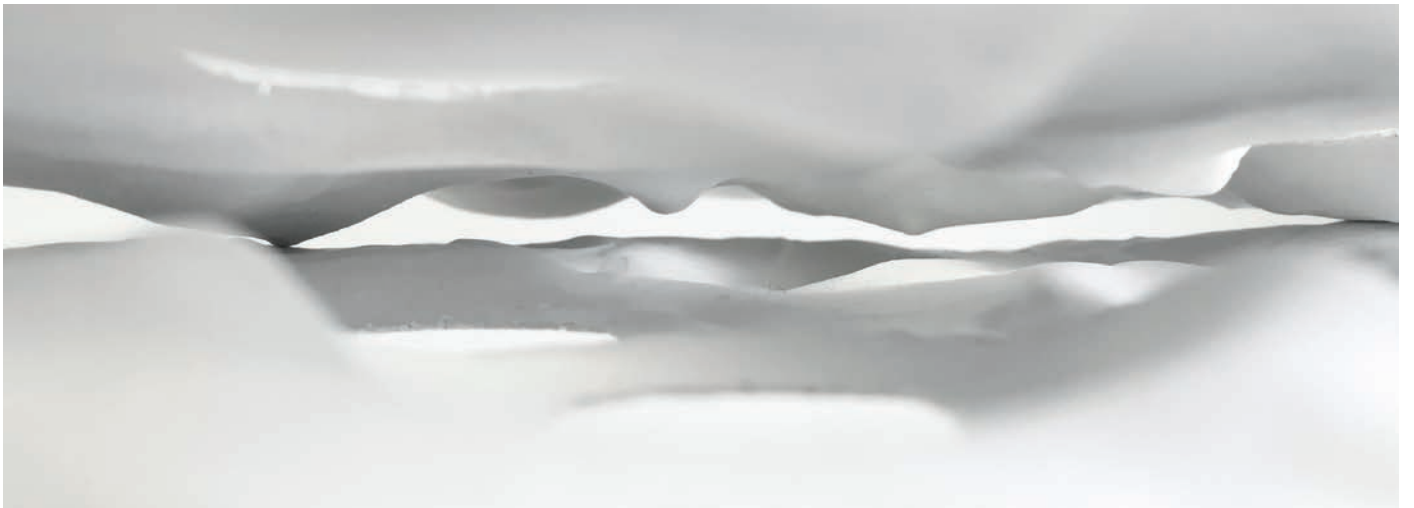




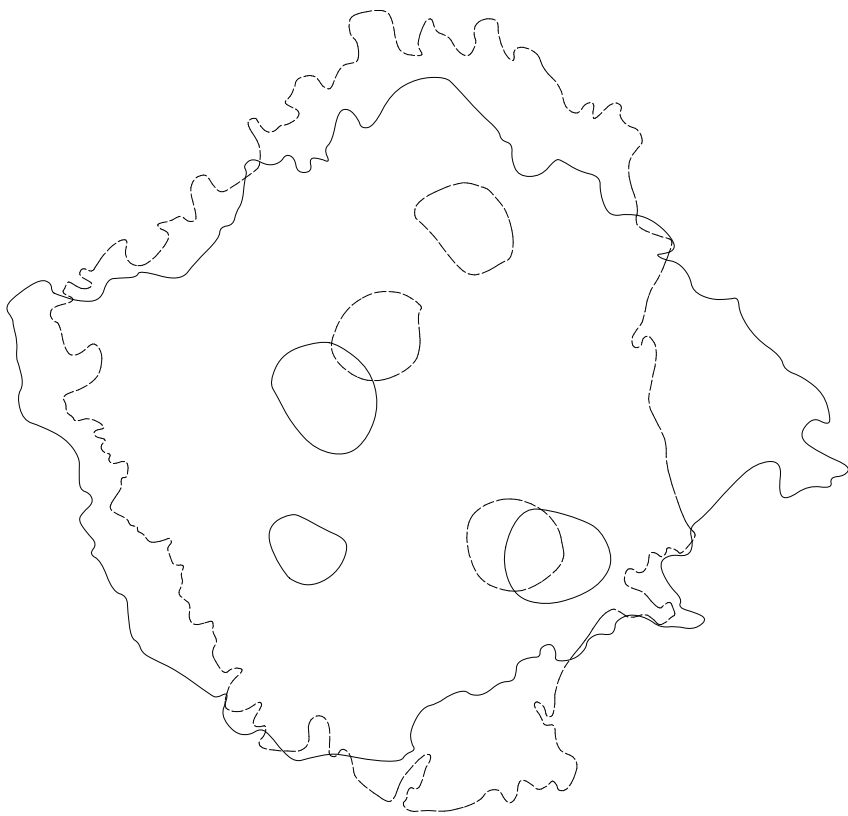


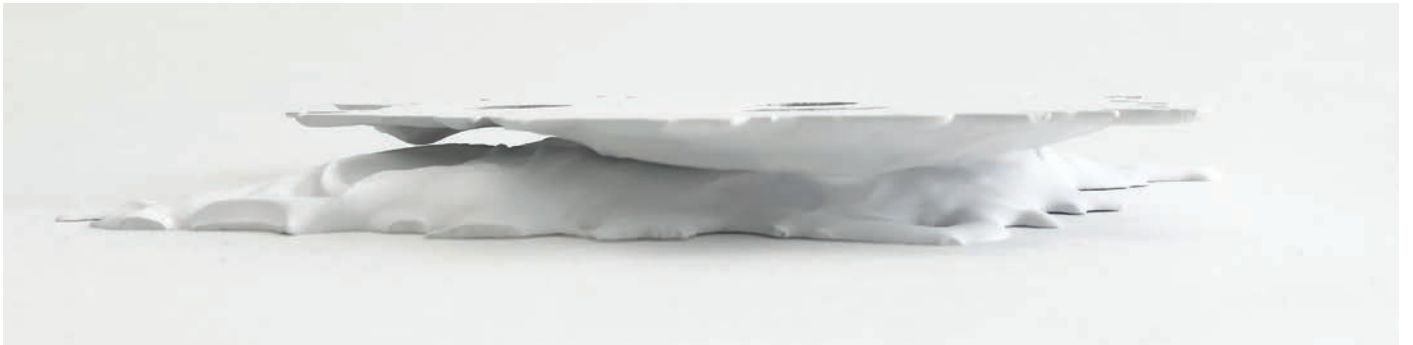






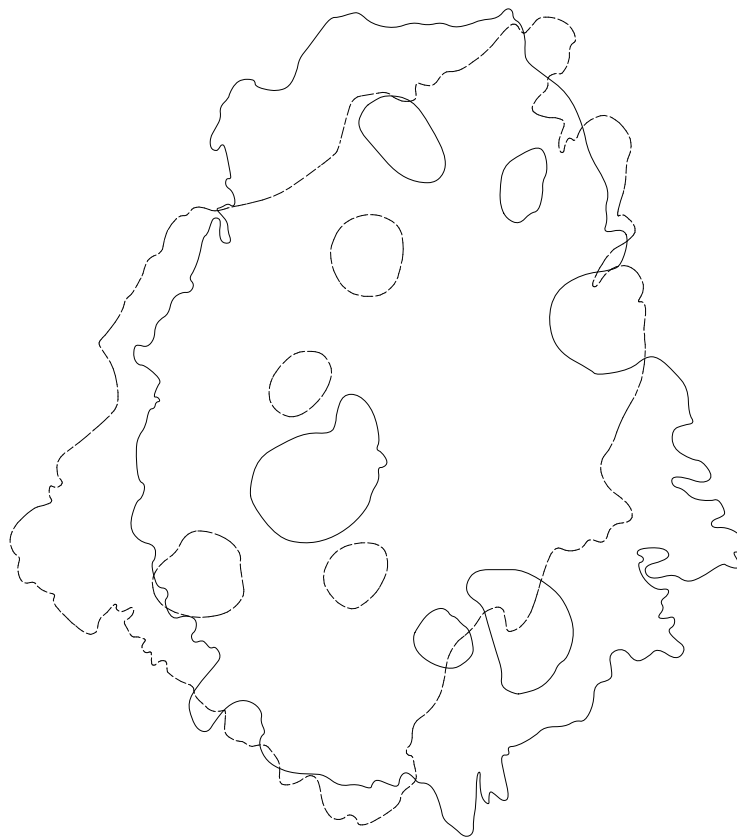


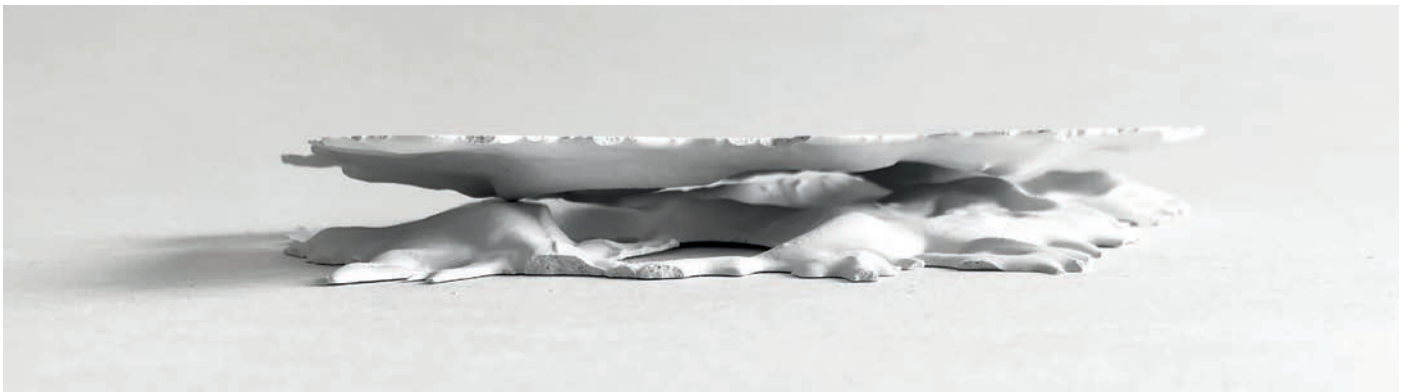




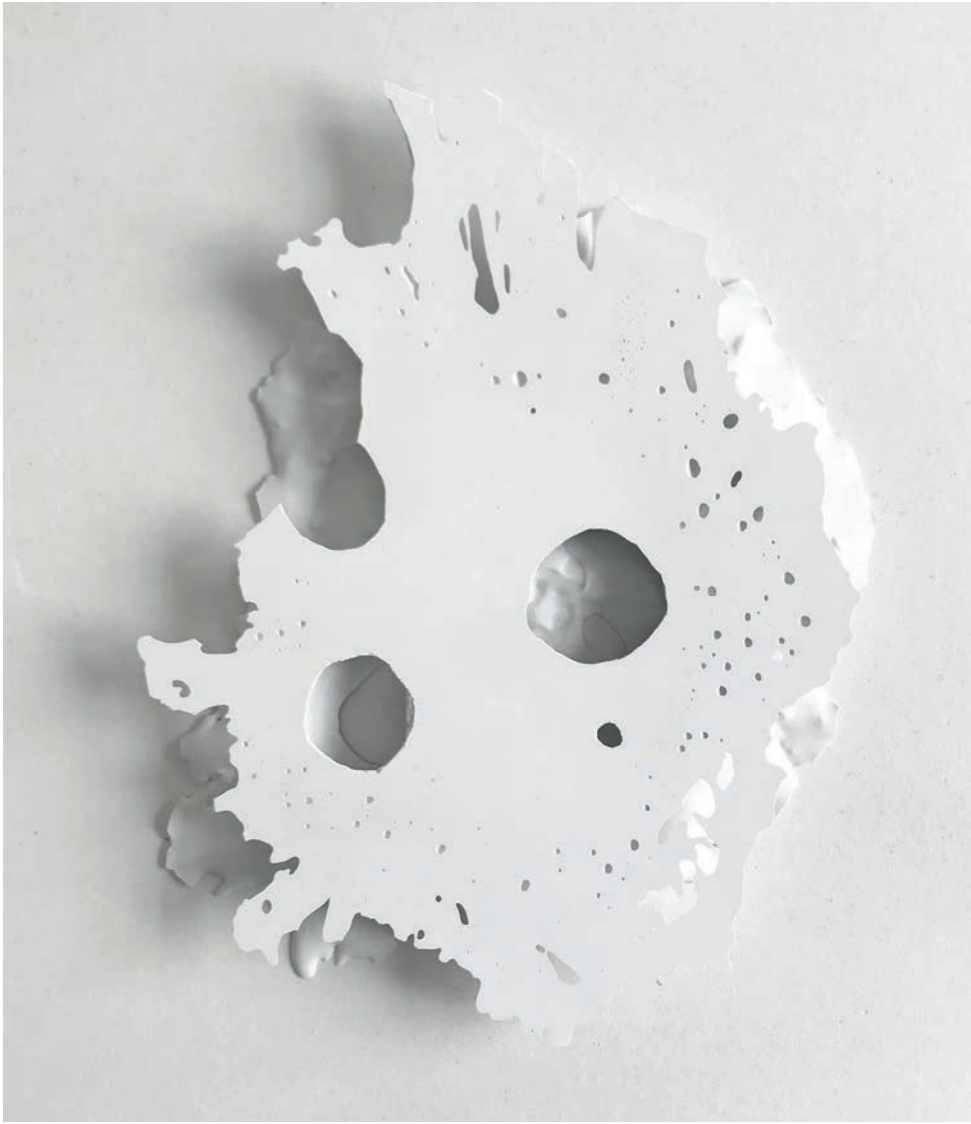


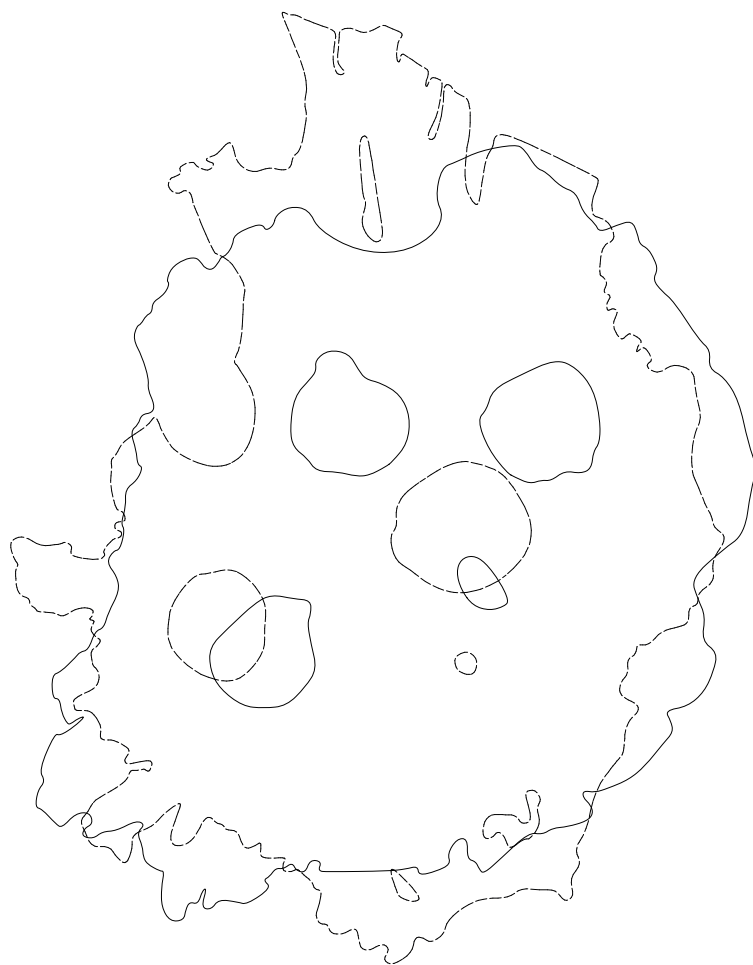


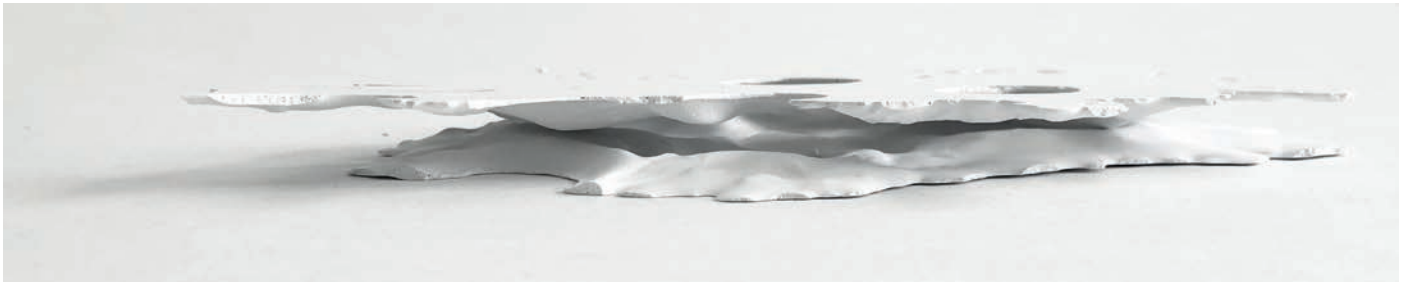












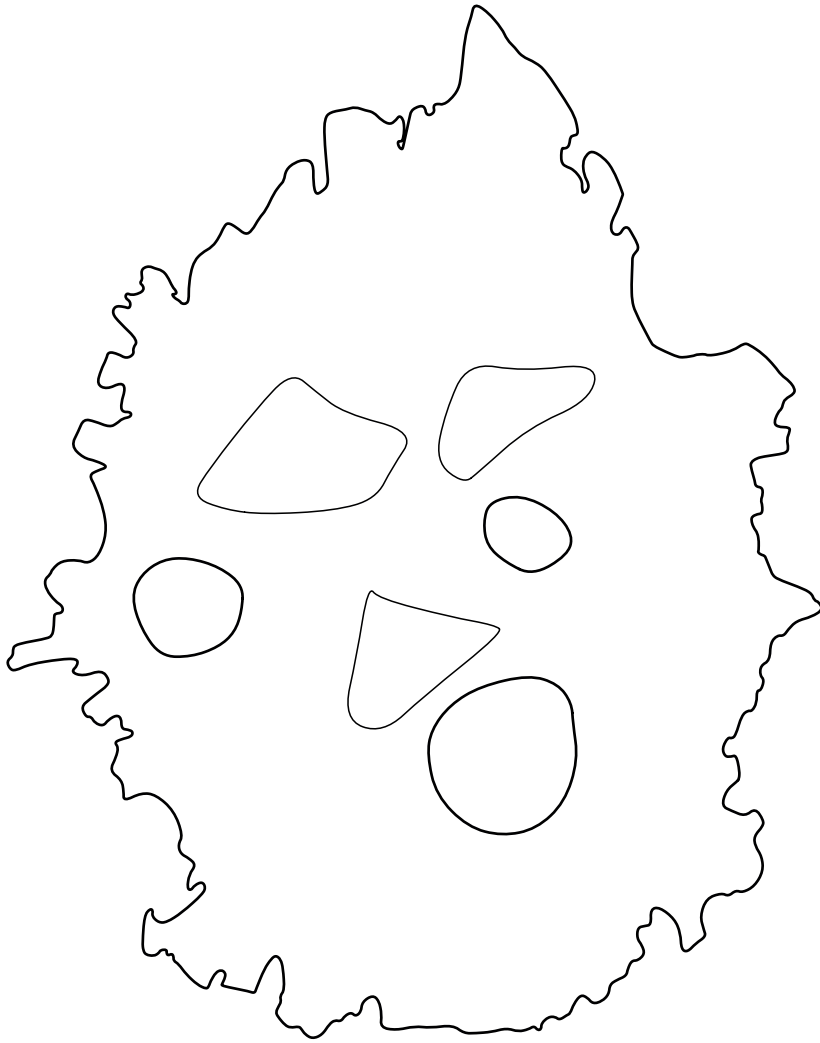


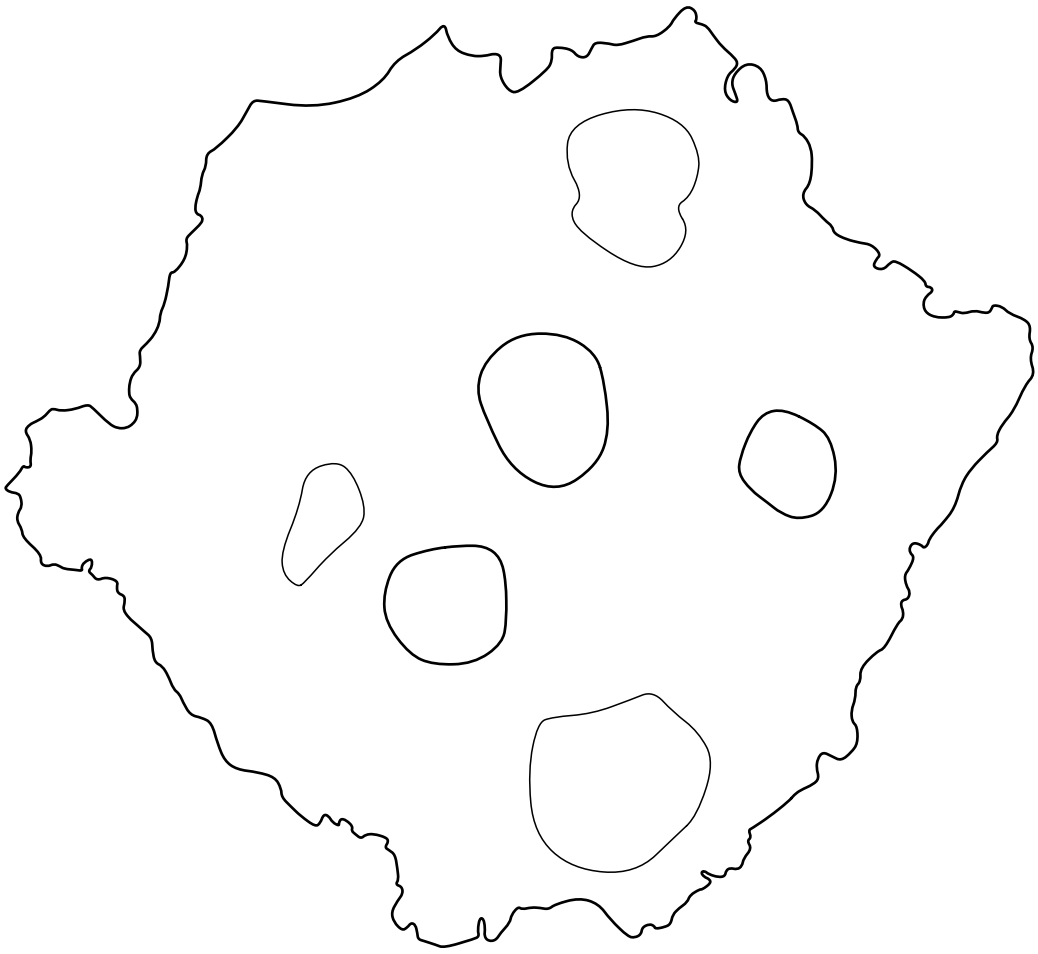


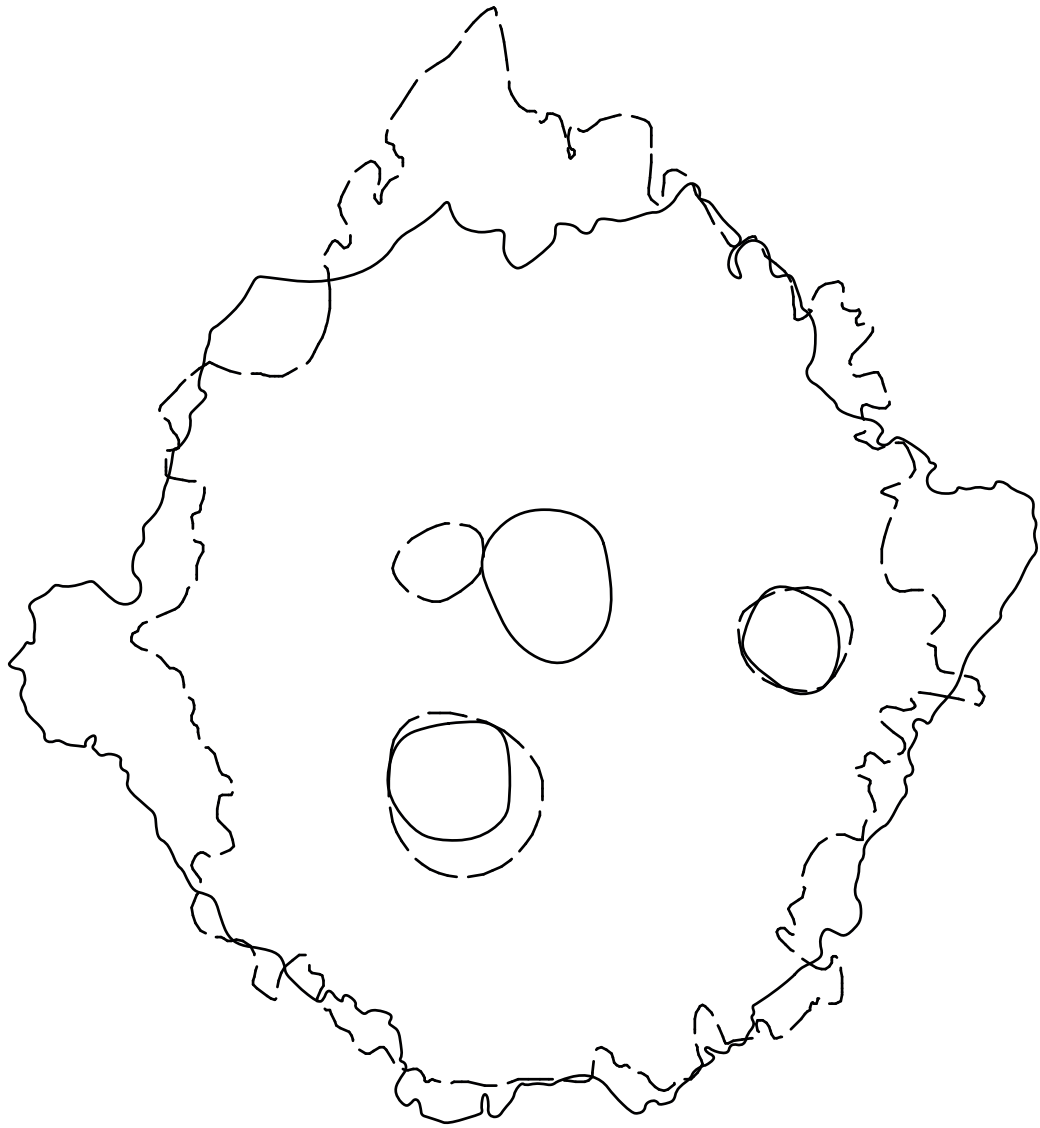


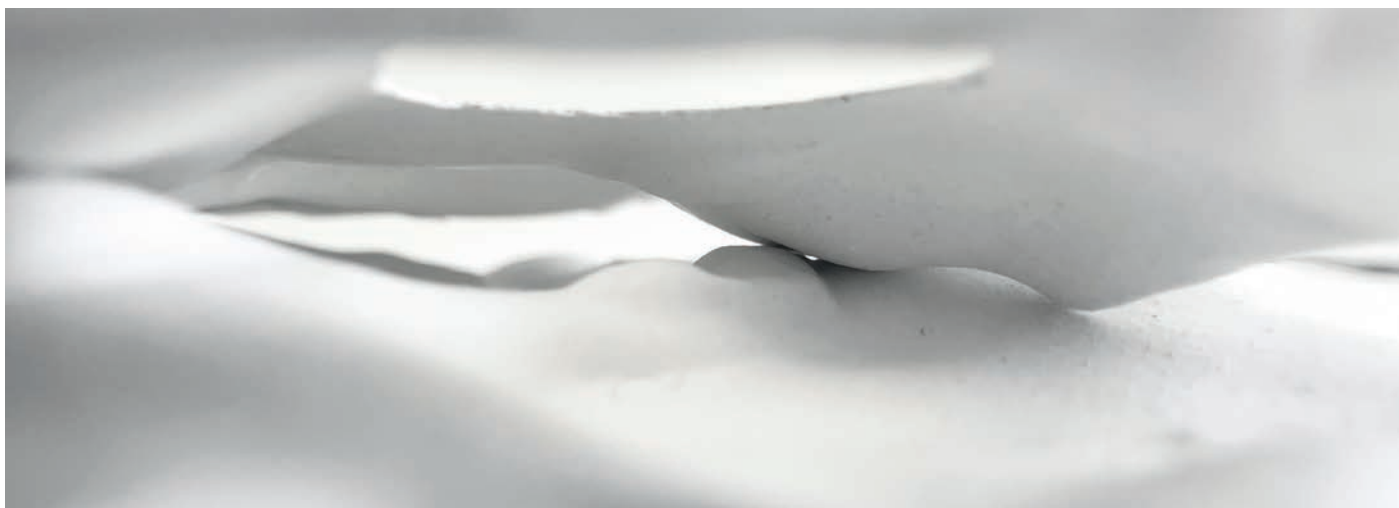








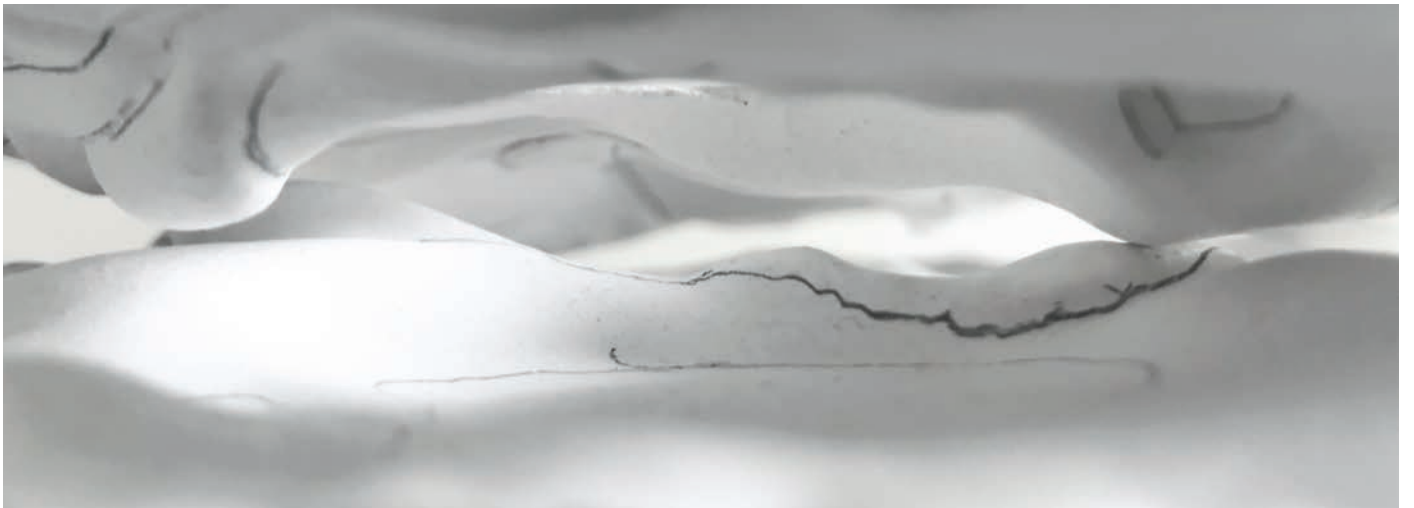




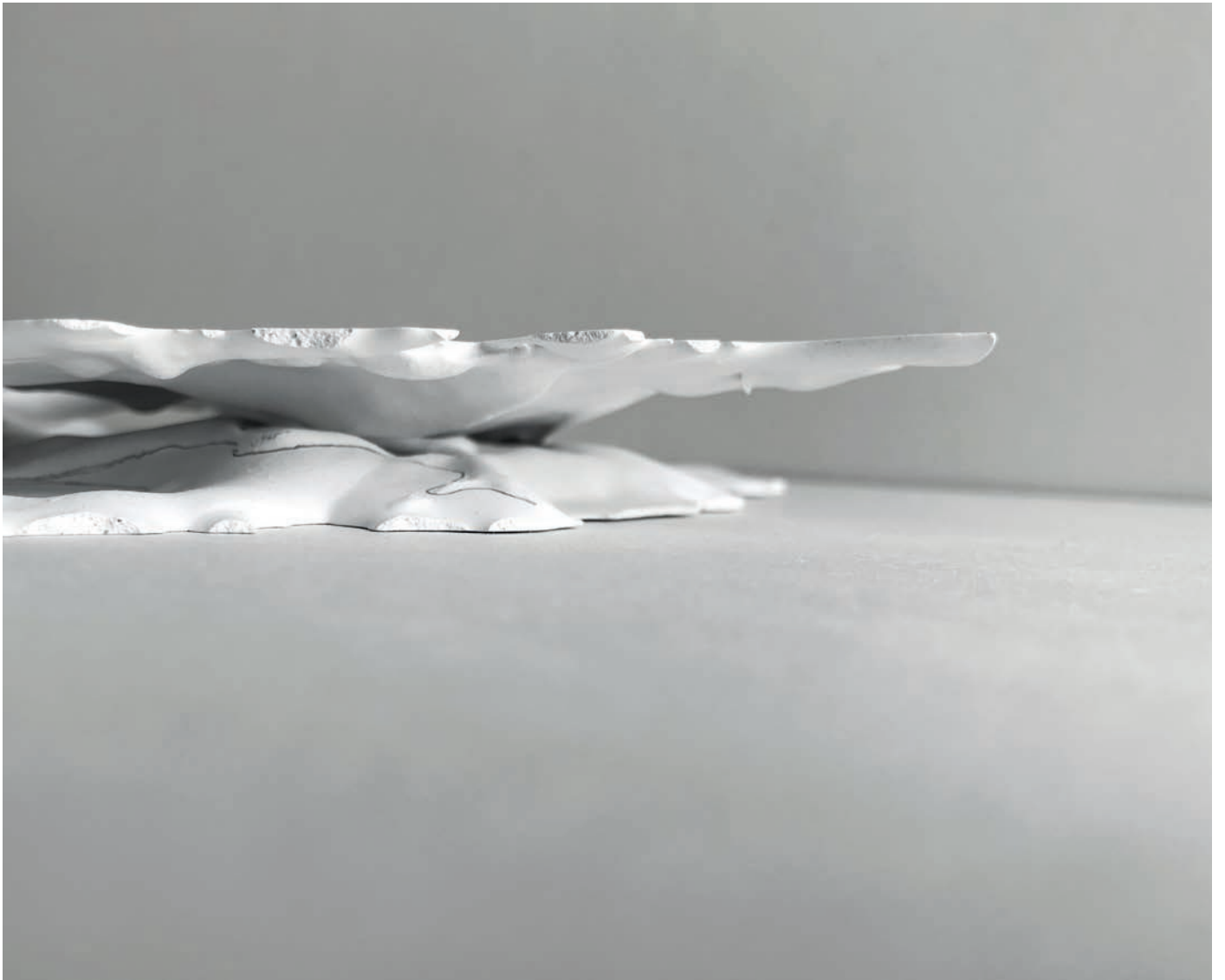


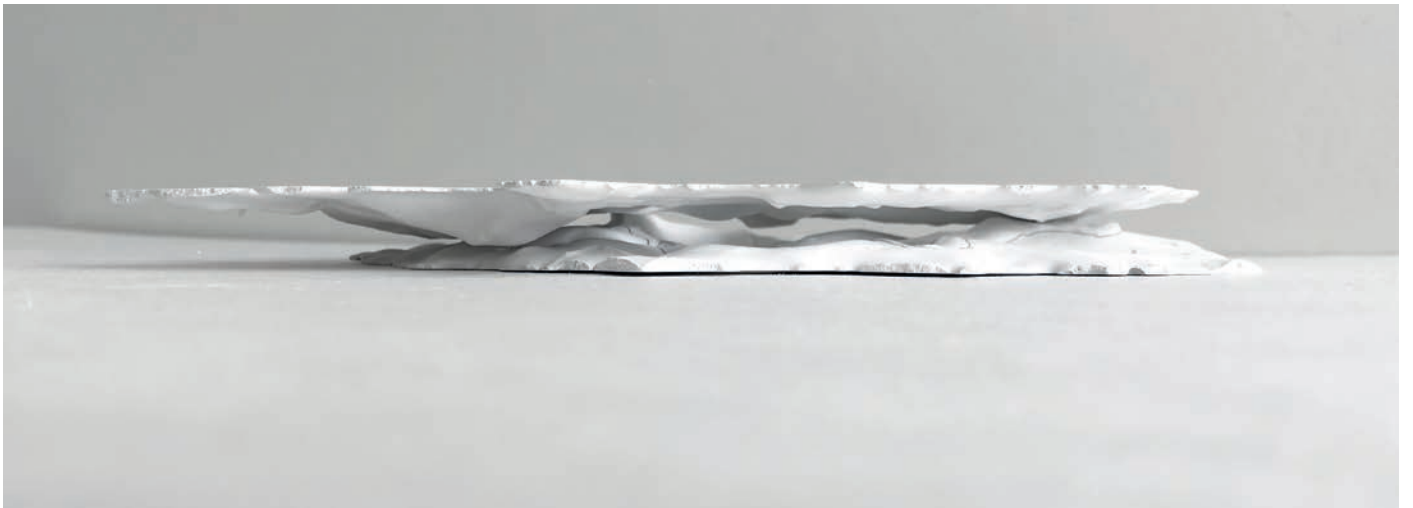


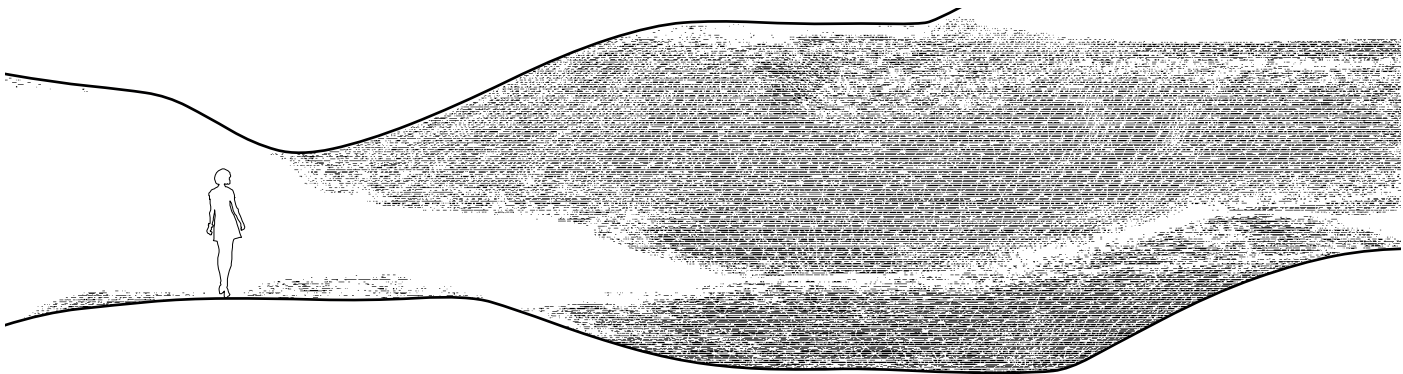
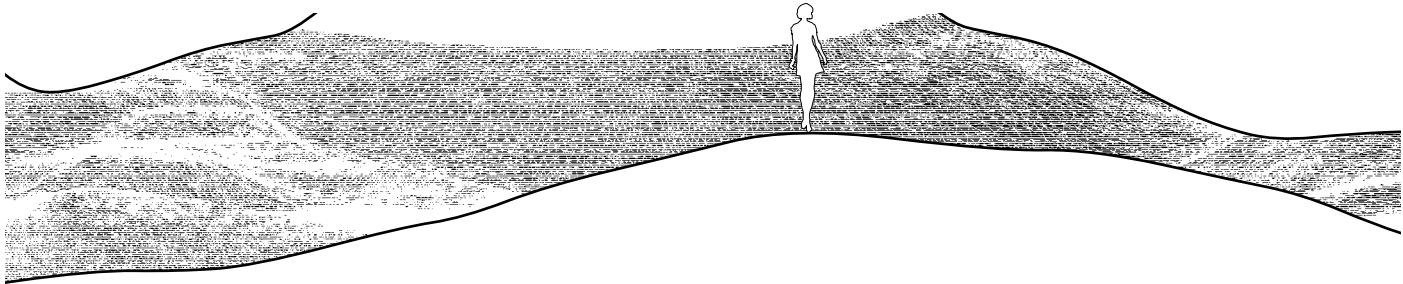
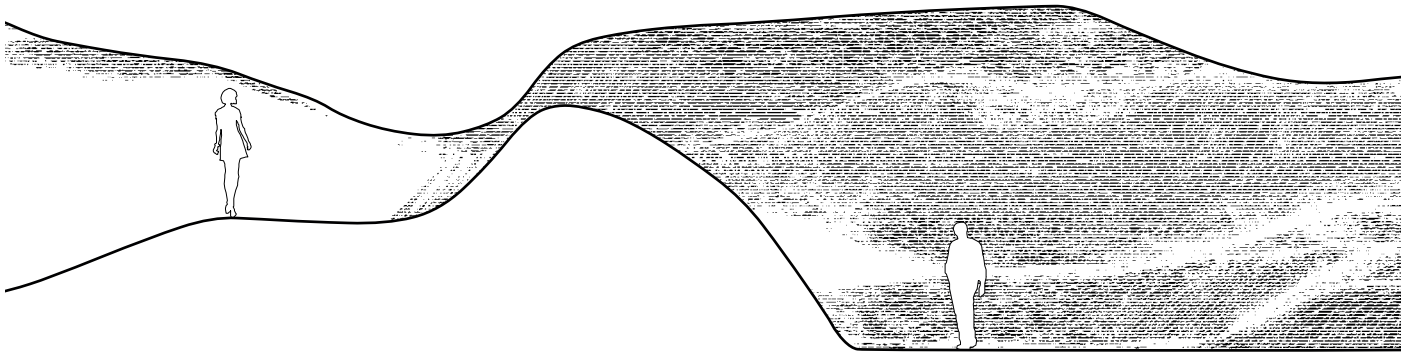
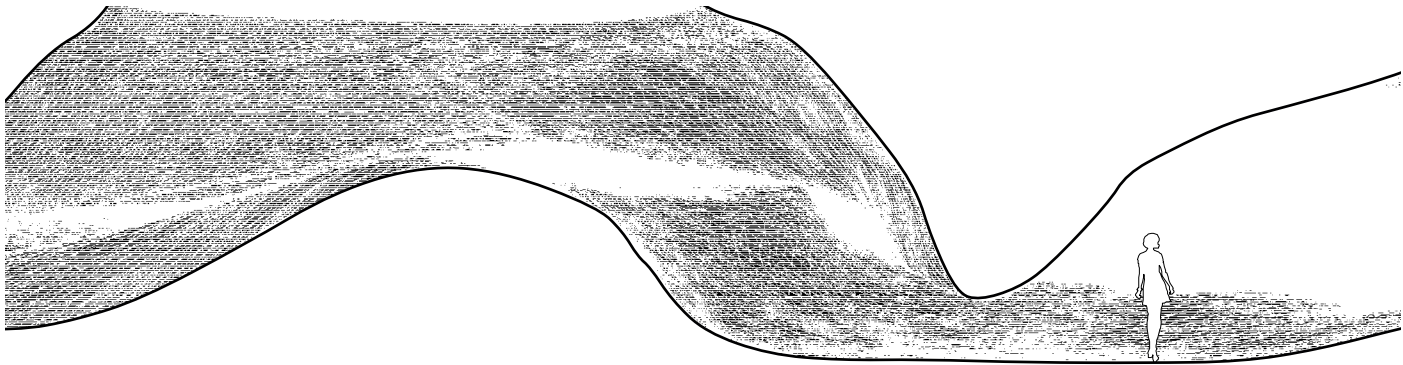








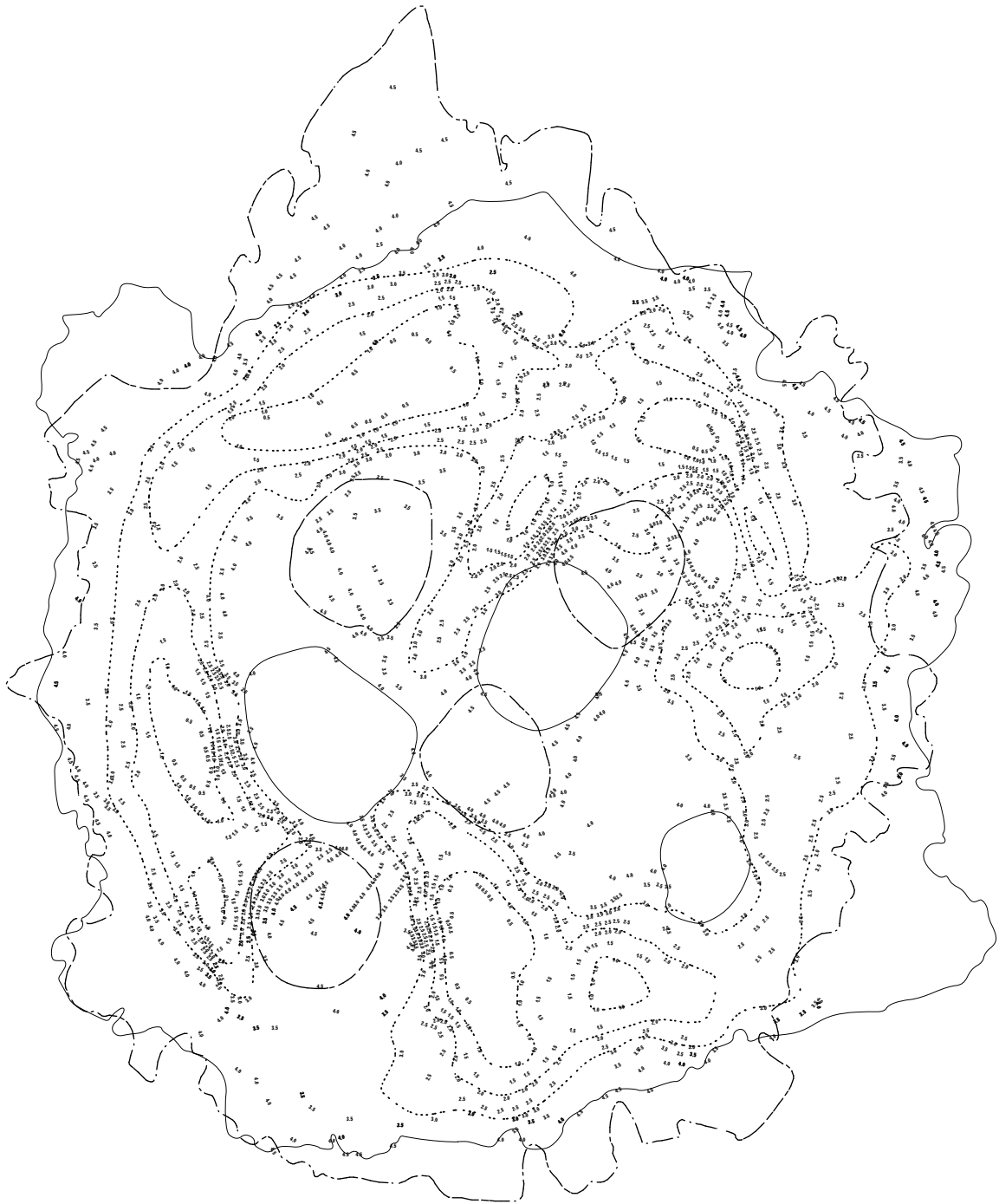




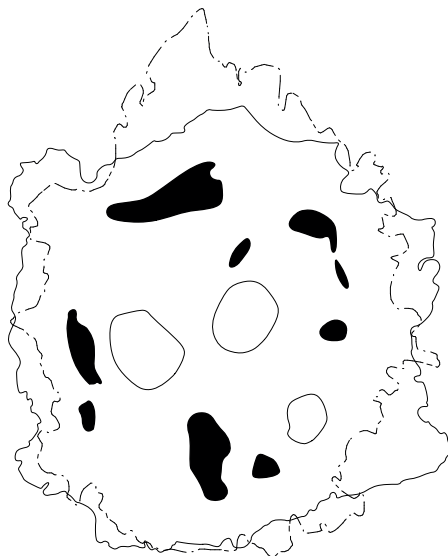
Analysis.

Regarding an aesthetic and analogue selection of samples and their fragments, the analysis through digital tools becomes a powerful tool to take prototyping further into architecture. It mainly consists of making the space visible through the behavior possibilities with the parameters of spaceheight, slope and paths. Tools: 3D-Fotogrammetry (Metashape Agisoft), Rhinoceros, Grasshopper.

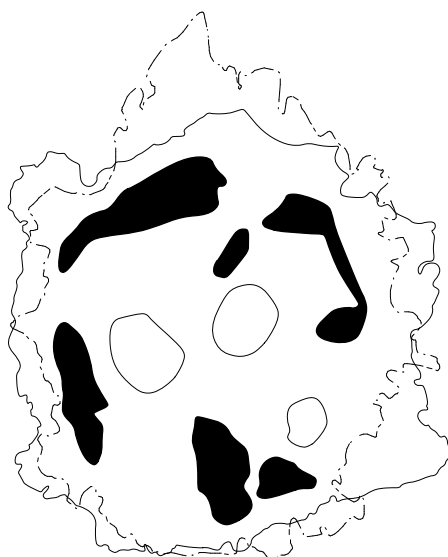
Hight



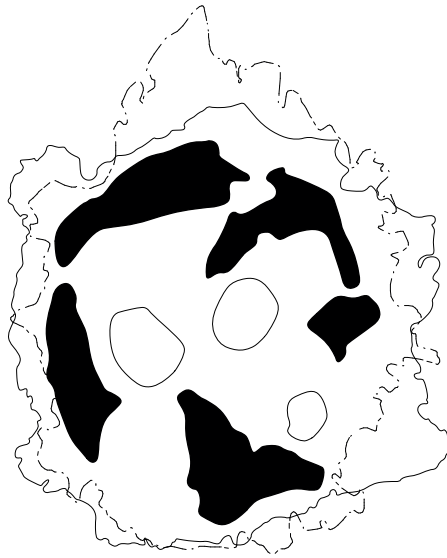
0-1m (189m²)



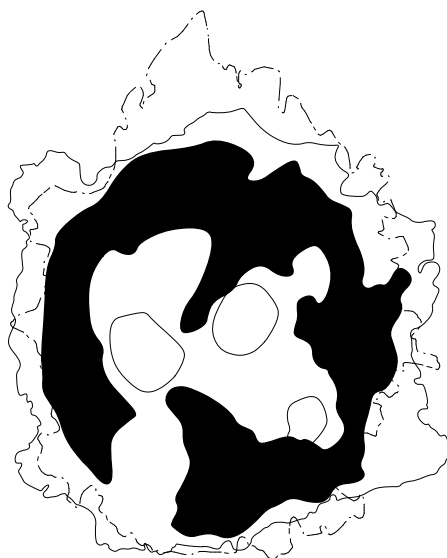
1-1.5m (200m²)



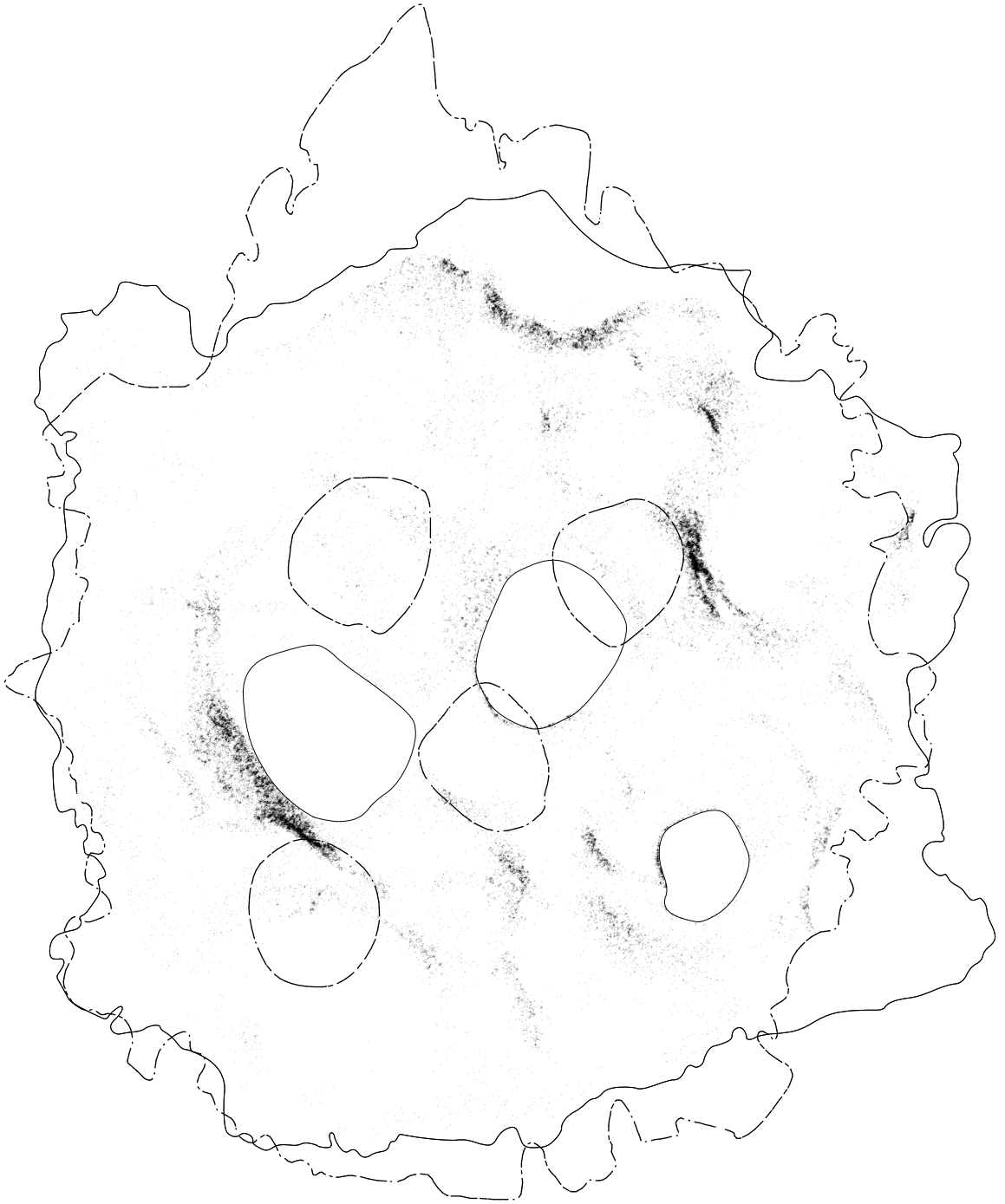
1.5-2m (189m²)



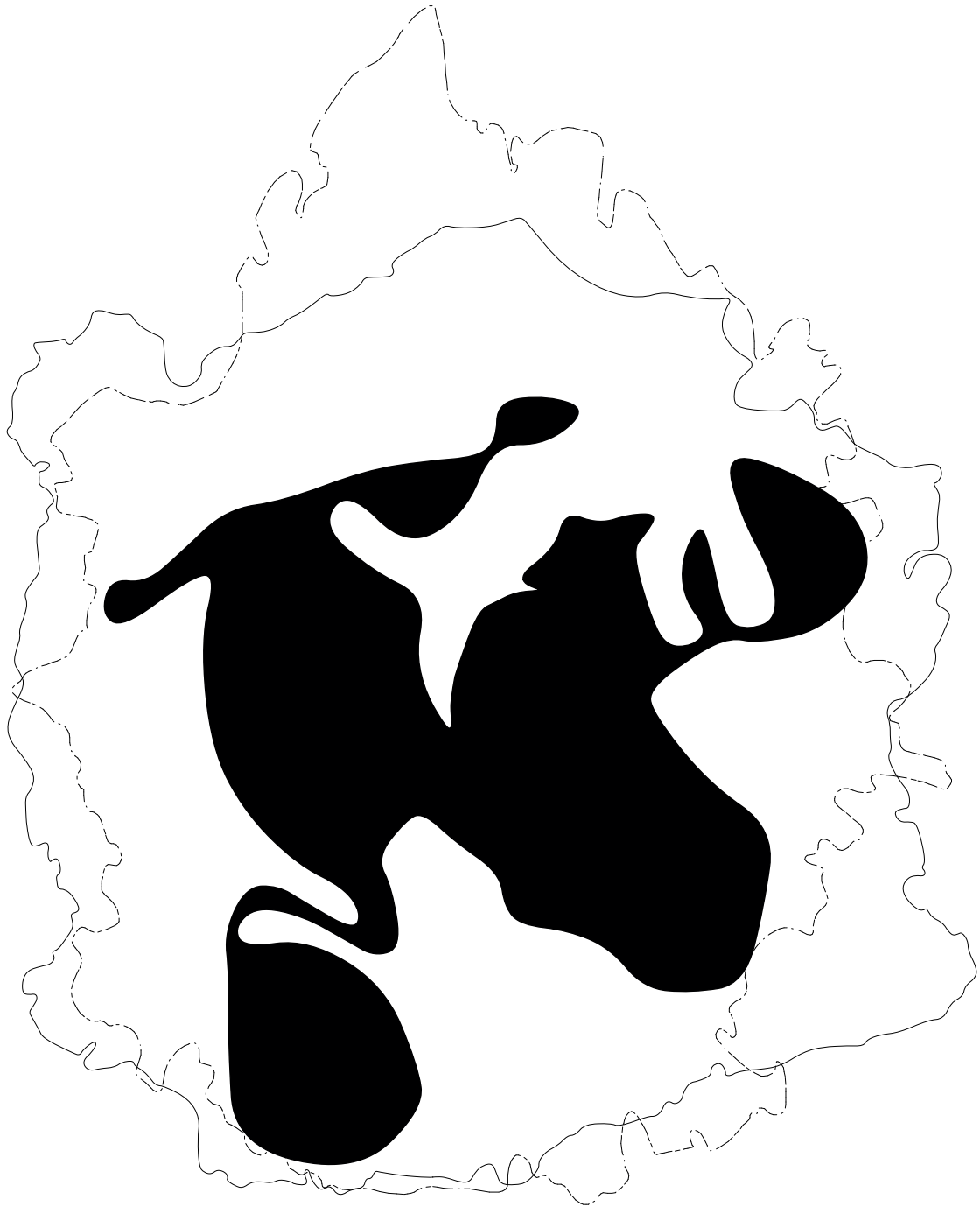
2-3m (548m²)



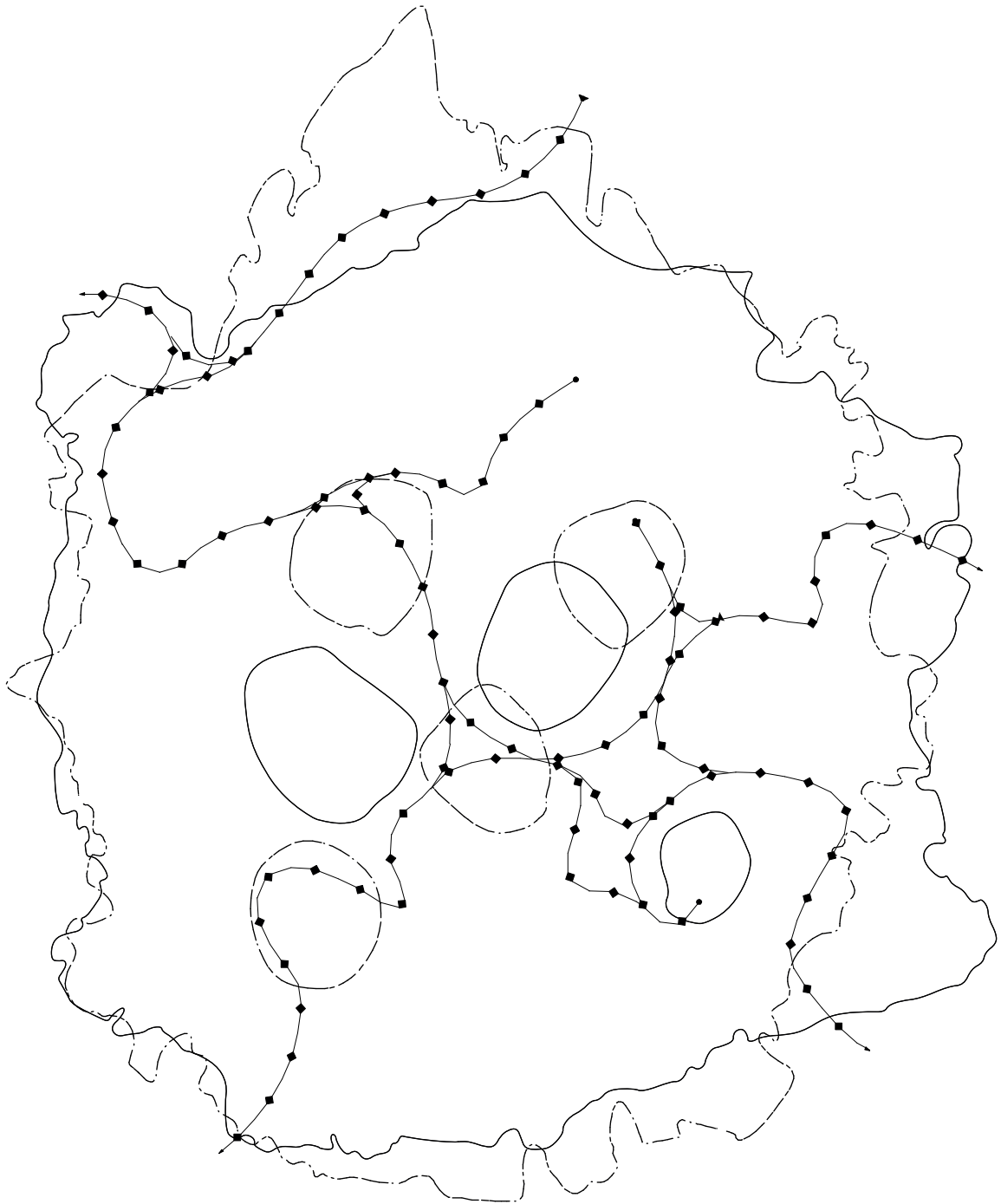
Slope



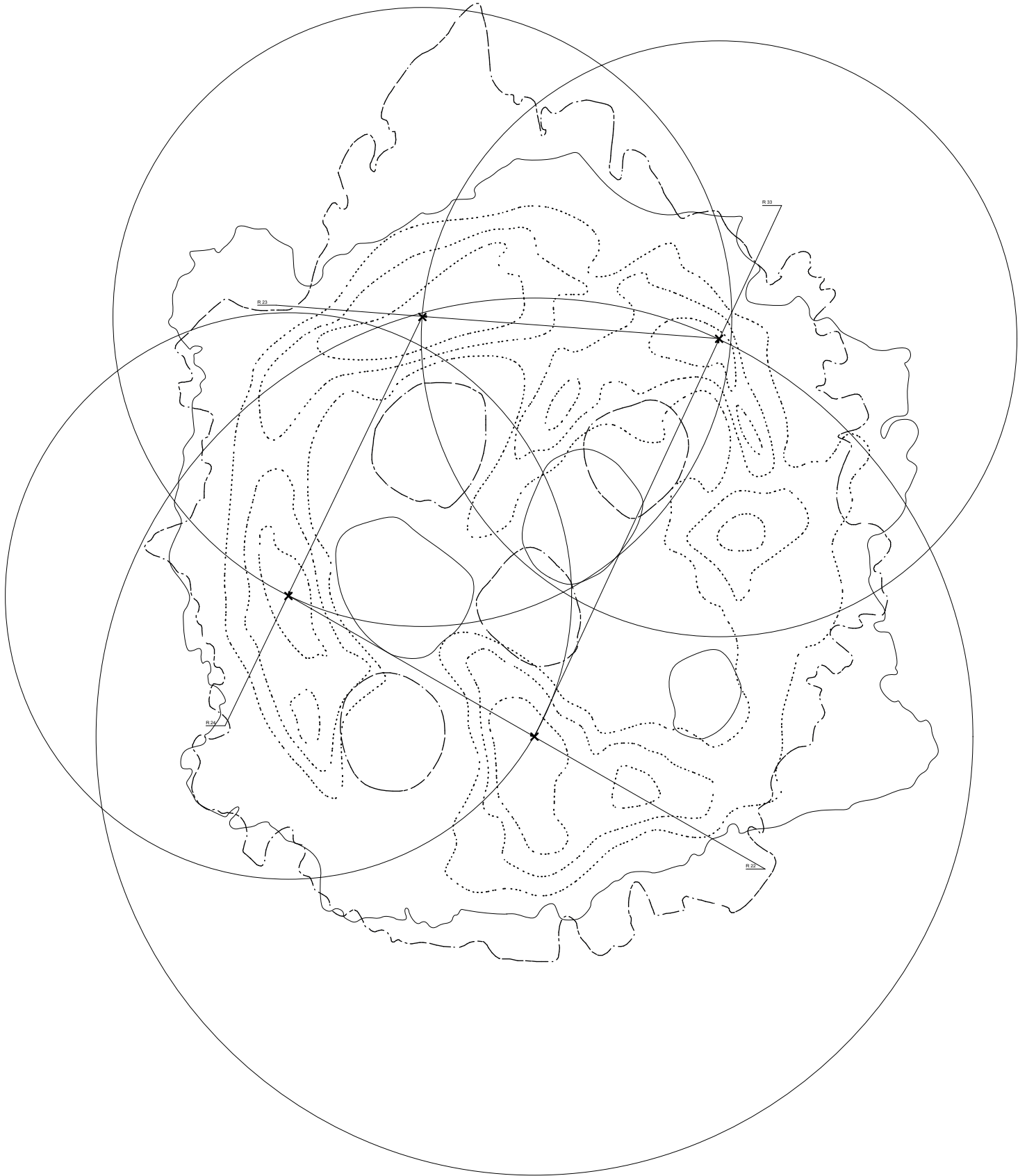
Walkable 0-12% (870m²)



Paths



Supports (spanlength 23-33m)



Inhabit.

The figure (1800 m²), with a walkable area of 870 m² (0-12% slope), is accessible from all sides and framed through a threshold that follows the 2m height line. The superposition of different heights and the walkable areas suggest a use and understanding of an architectural proposal.

Mass and void (hight 2m)



Threshold outside - inside



Access



Services



Walkpaths



Moments next to the walkpaths



Happenings

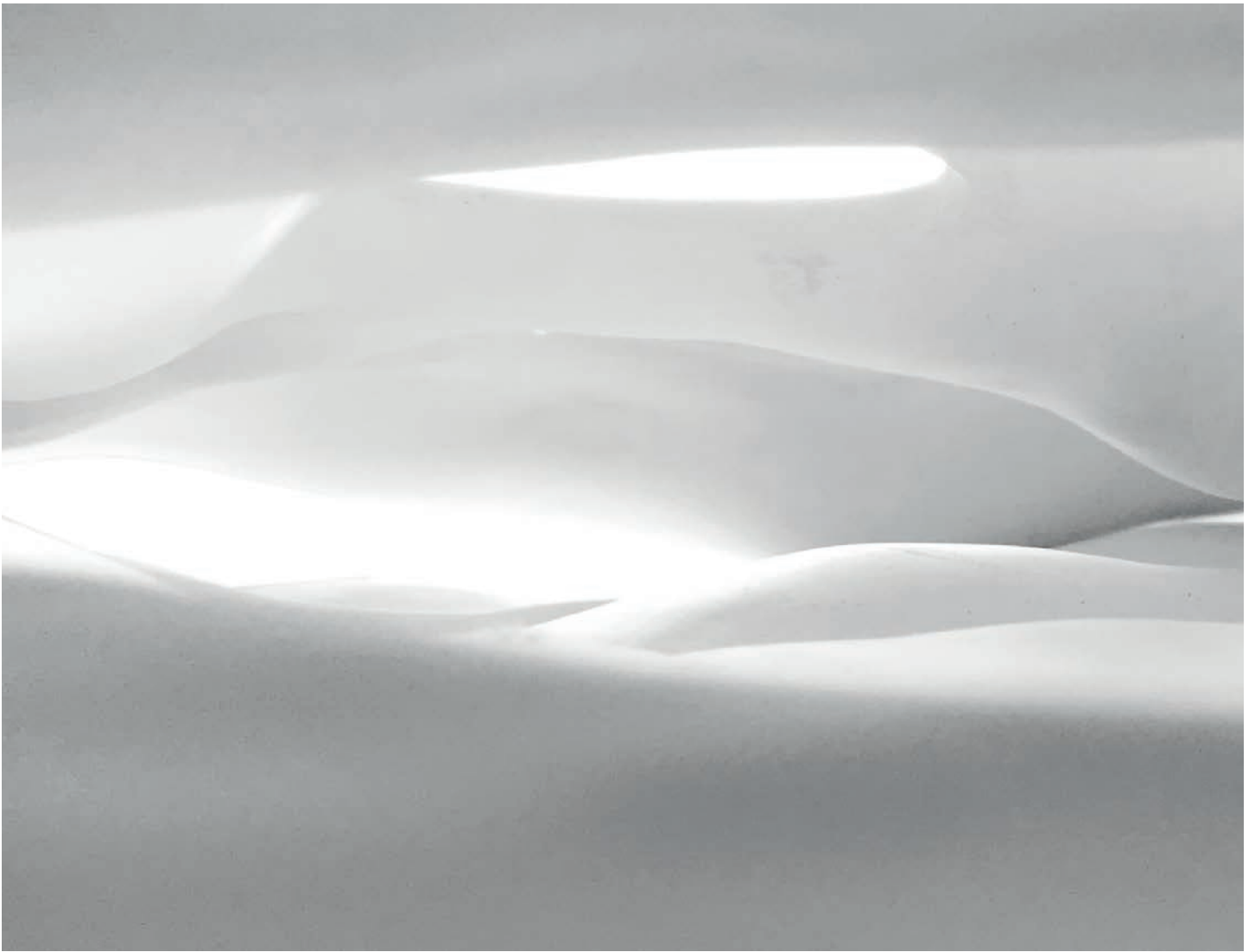


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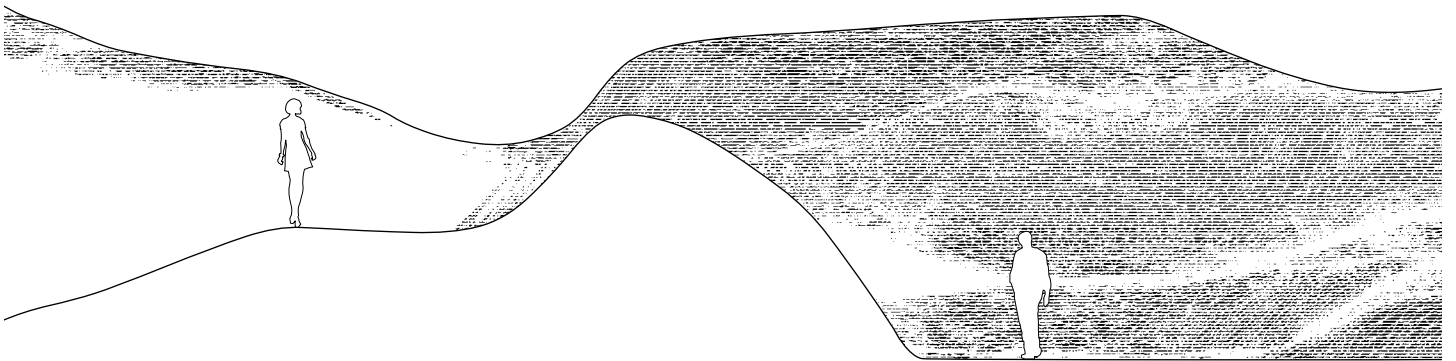
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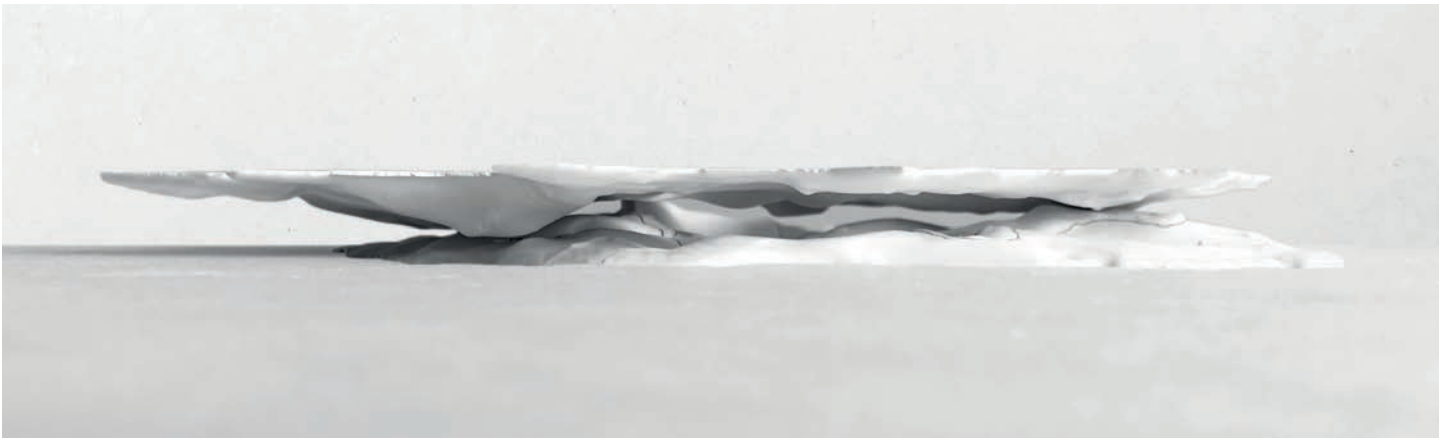


Fragment in scale 1:50.

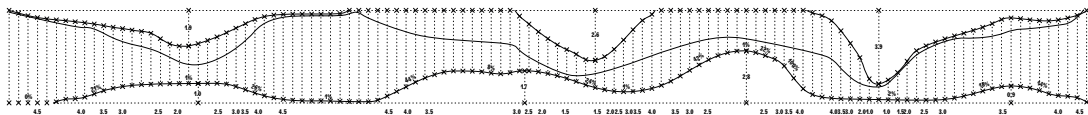


Fragment in scale 1:50.

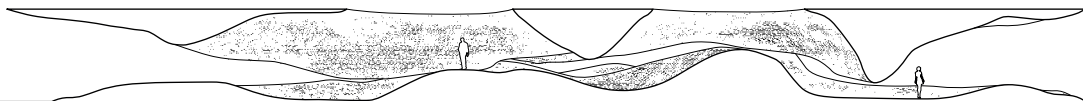
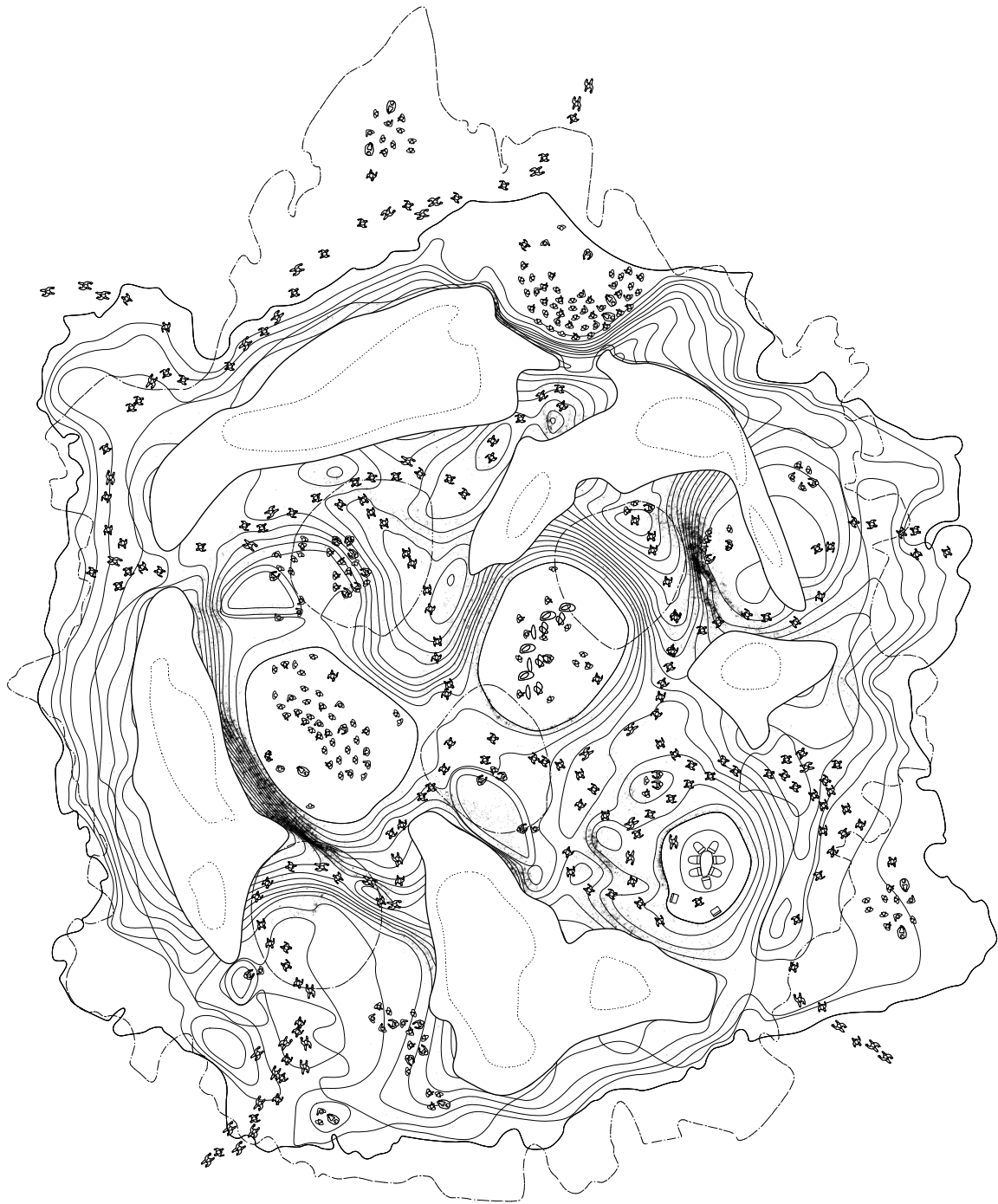




Prototyping. Using Gypsum for Form Finding (Prototyping), particularly at the moment when Gypsum disconnects with the act of making (to drop gypsum of 0.75m). Gypsum freezes drops, splashes and still keeps a sense of homogeneity without representing an imprint of else. A process, created by chance thanks to gypsum's chemical features. Samples in scale 1:333.



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Inhabit. The figure (1800 m²), with a walkable area of 870 m² (0-12% slope), is accessible from all sides and framed through a threshold that follows the 2m height line. The superposition of different heights and the walkable areas suggest a use and understanding of an architectural proposal. Inhabitplan and section in scale 1:200.