Appendix G

smart Tectonics

B1 – New expected Brine & Gas caverns

$\sqrt{J_2}$, 2nd inv. deviatoric stress

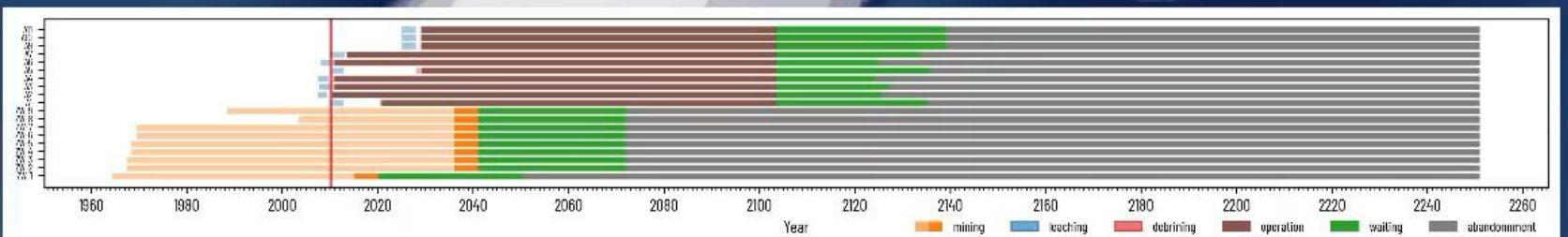
Hz. section at 1200 m depth

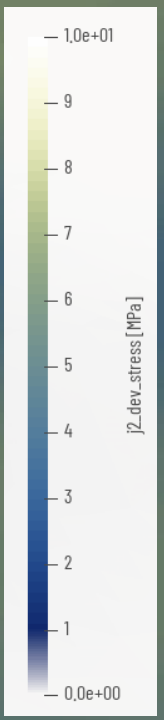
Disclaimer

(1) The stress may appear higher for some caverns, but this could be due to the selected depth of this visualization.

(2) The solution mining process is only approximated with a 5 yrs period of halmostatic pressure conditions. The stress distribution before 2040 is influenced by this assumption. Please refer to the report with the full list of model assumptions.

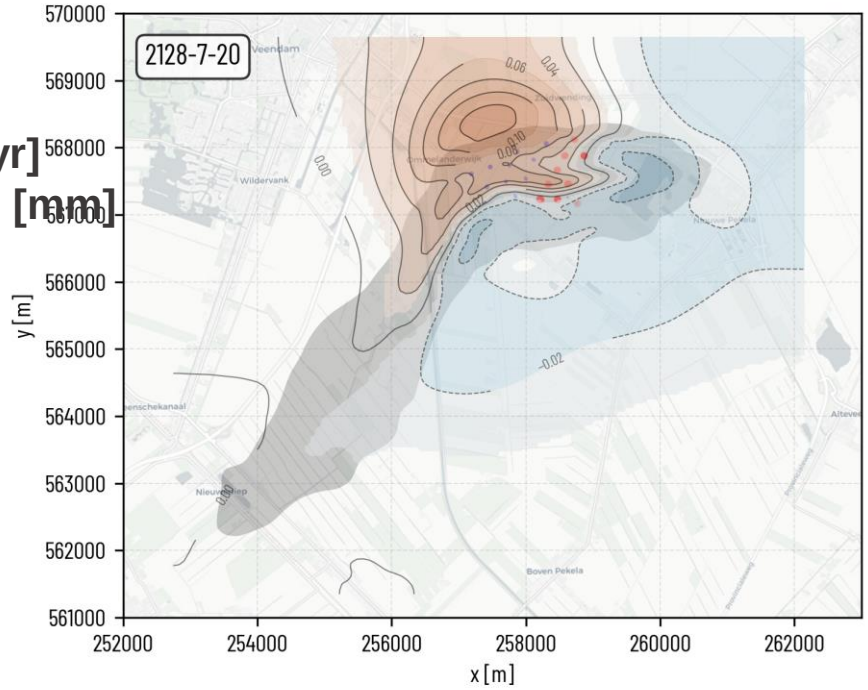
Tectonics

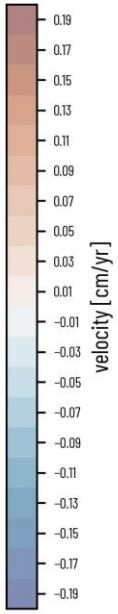


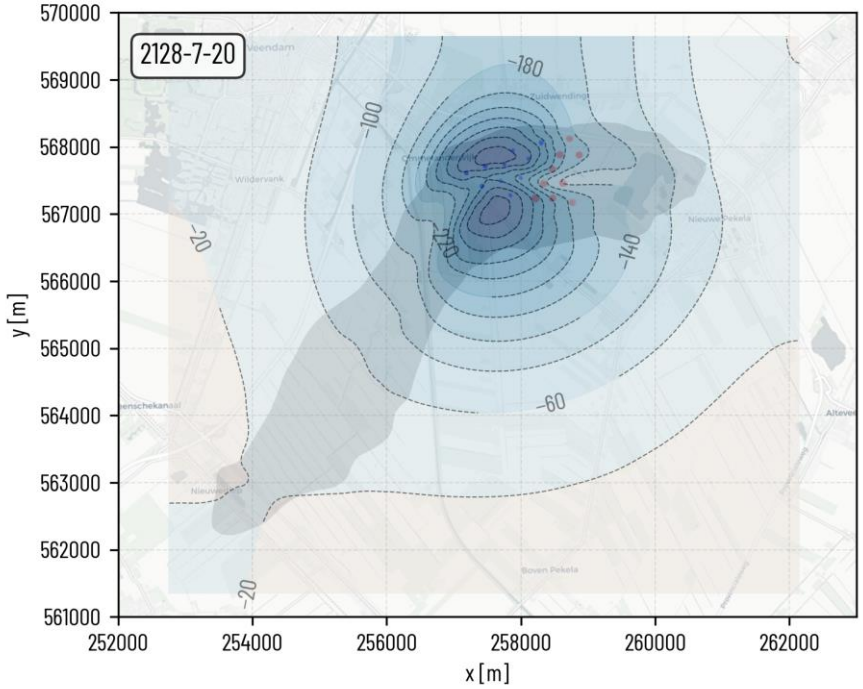


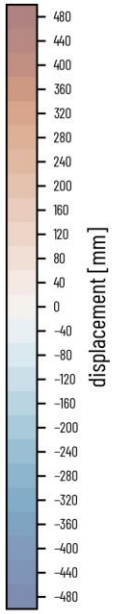
Scenario B1

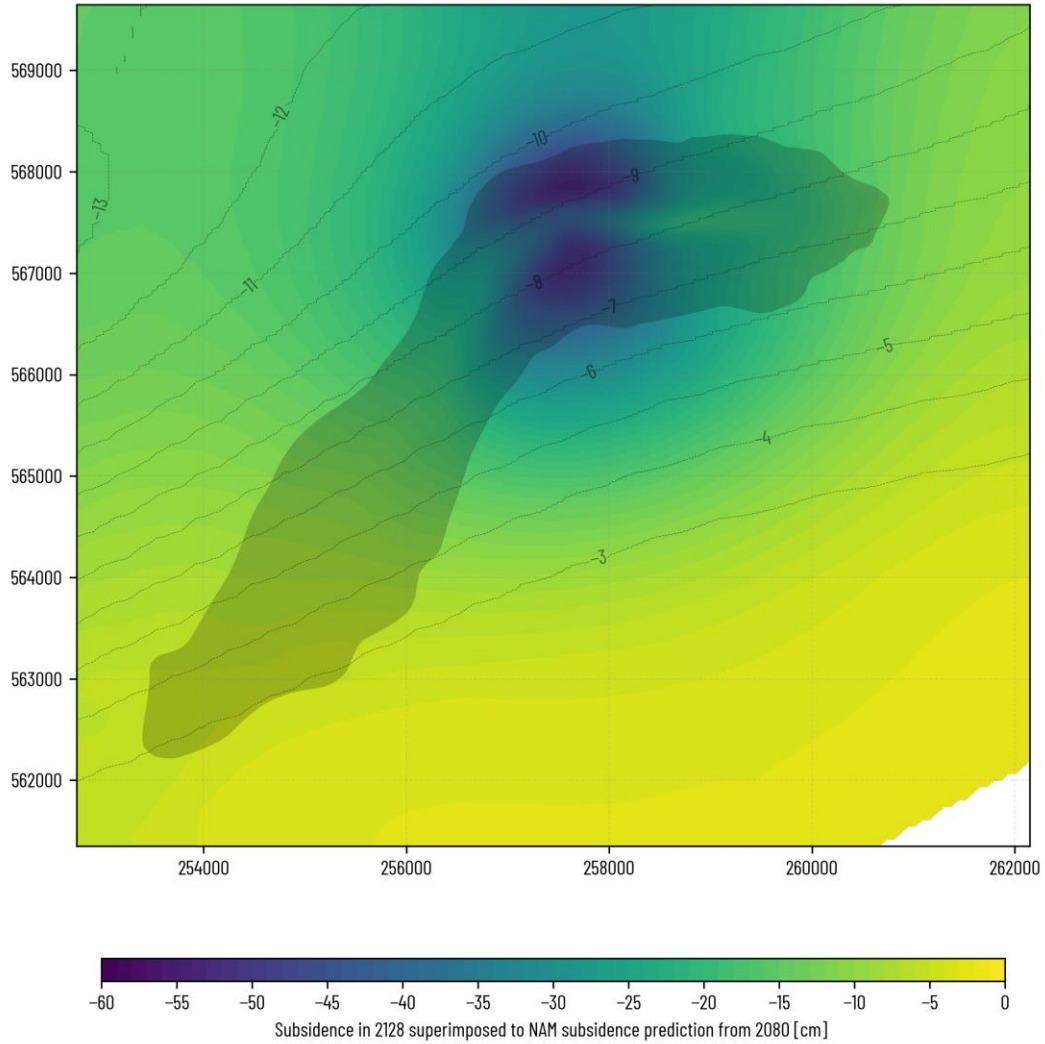
Vertical velocity [cm/yr]
Vertical displacement [mm]
at surface (2121)





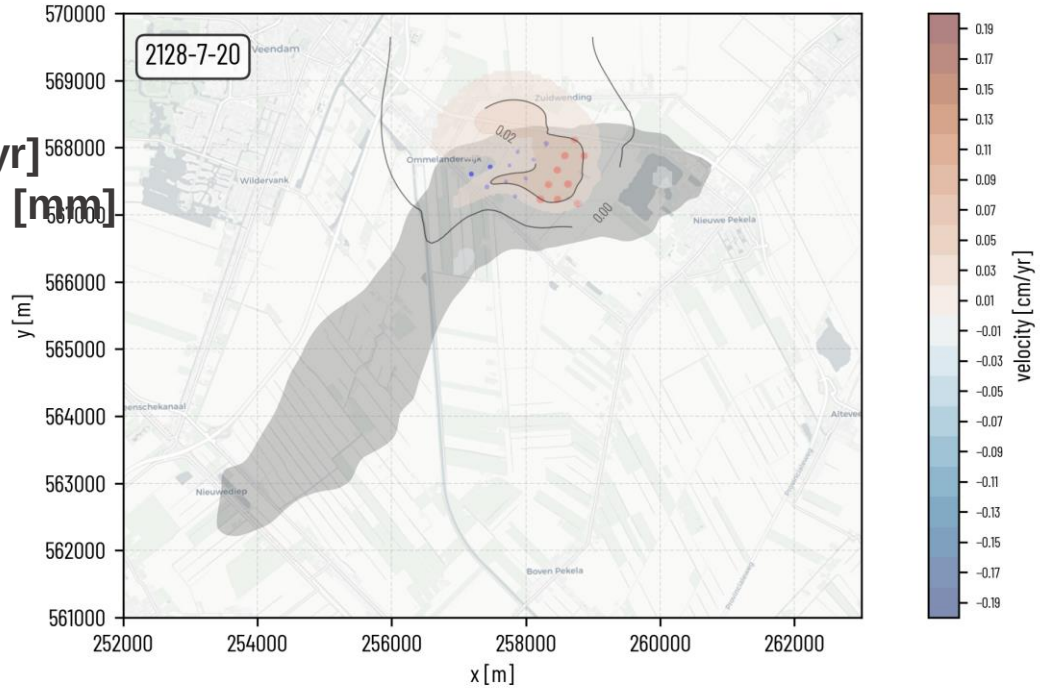


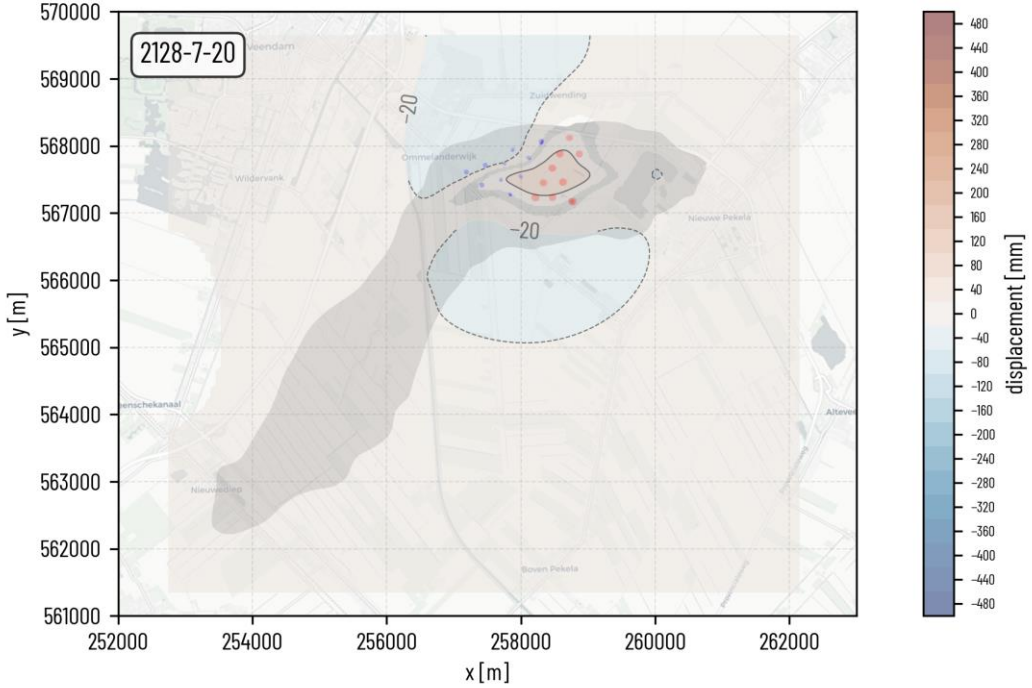


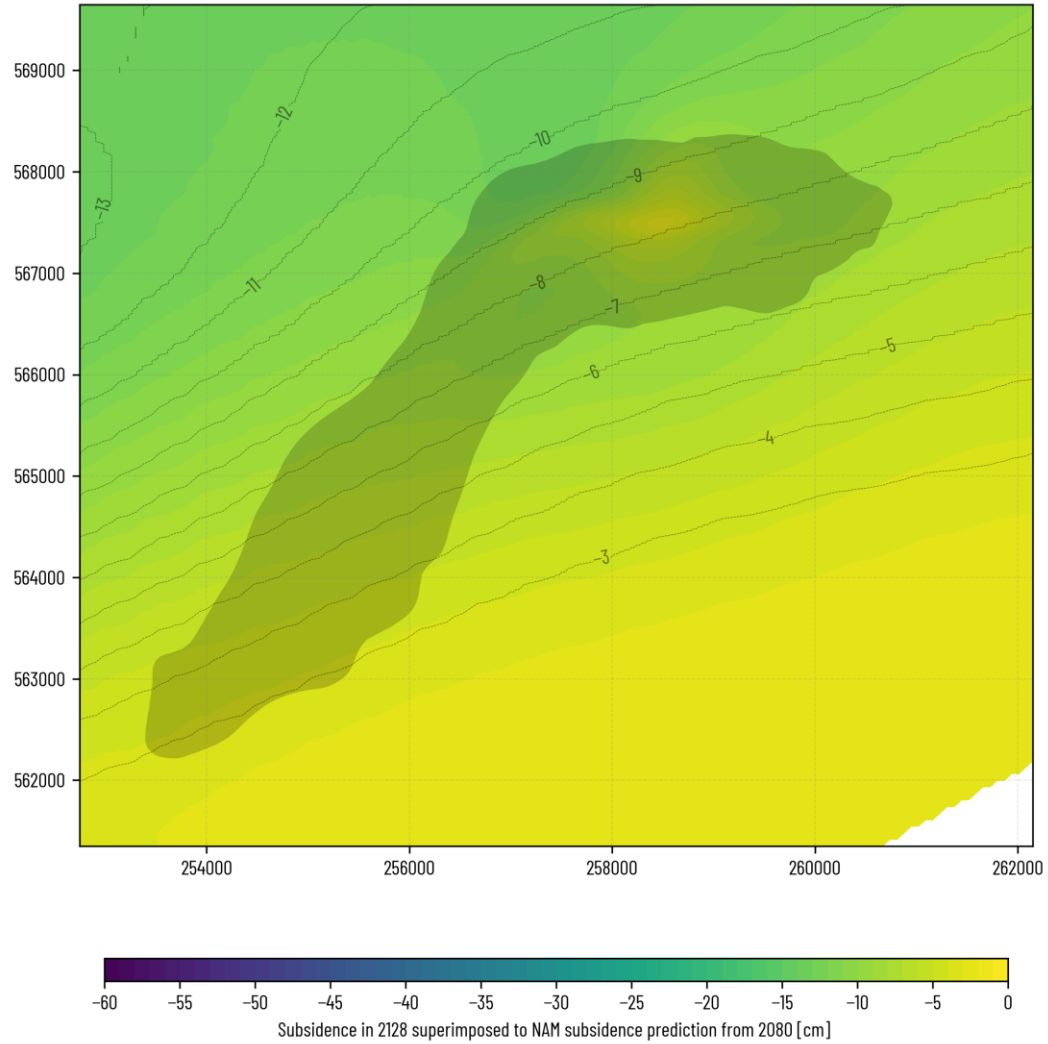


Scenario B5

Vertical velocity [cm/yr]
Vertical displacement [mm]
at surface (2121)

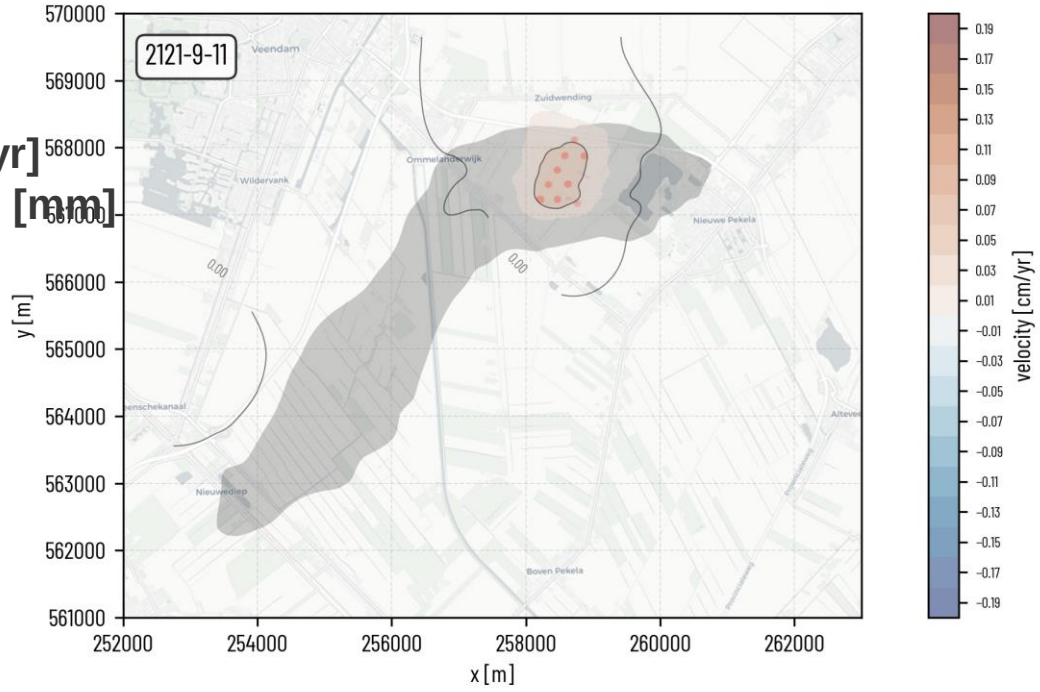


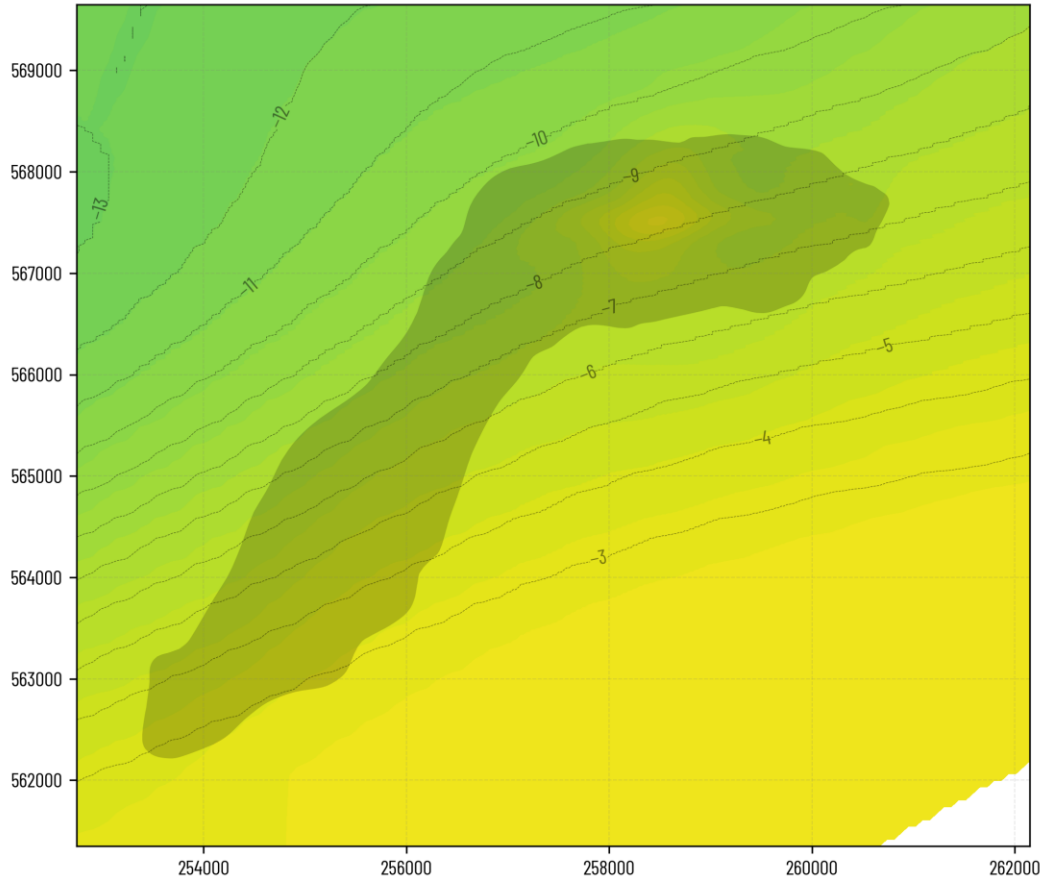


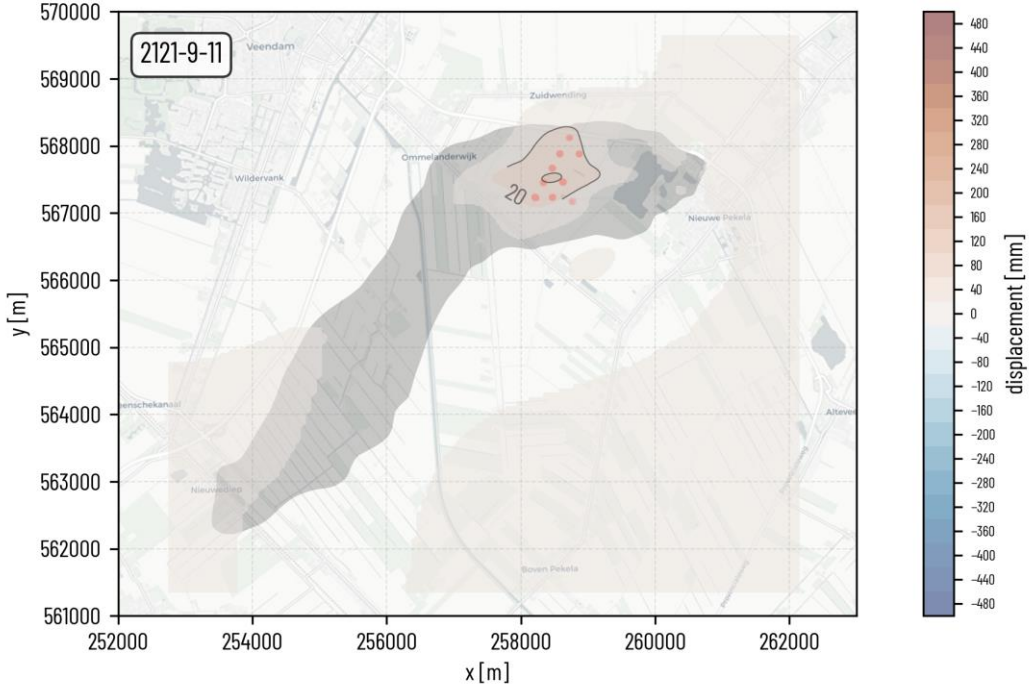


Scenario B

Vertical velocity [cm/yr]
Vertical displacement [mm]
at surface (2121)







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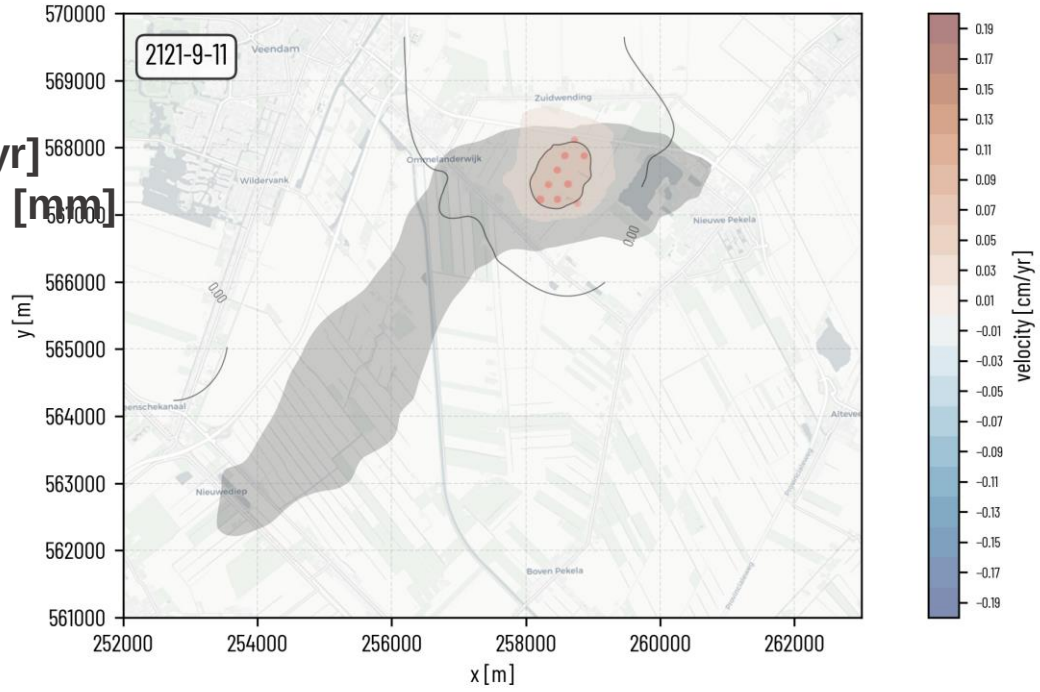
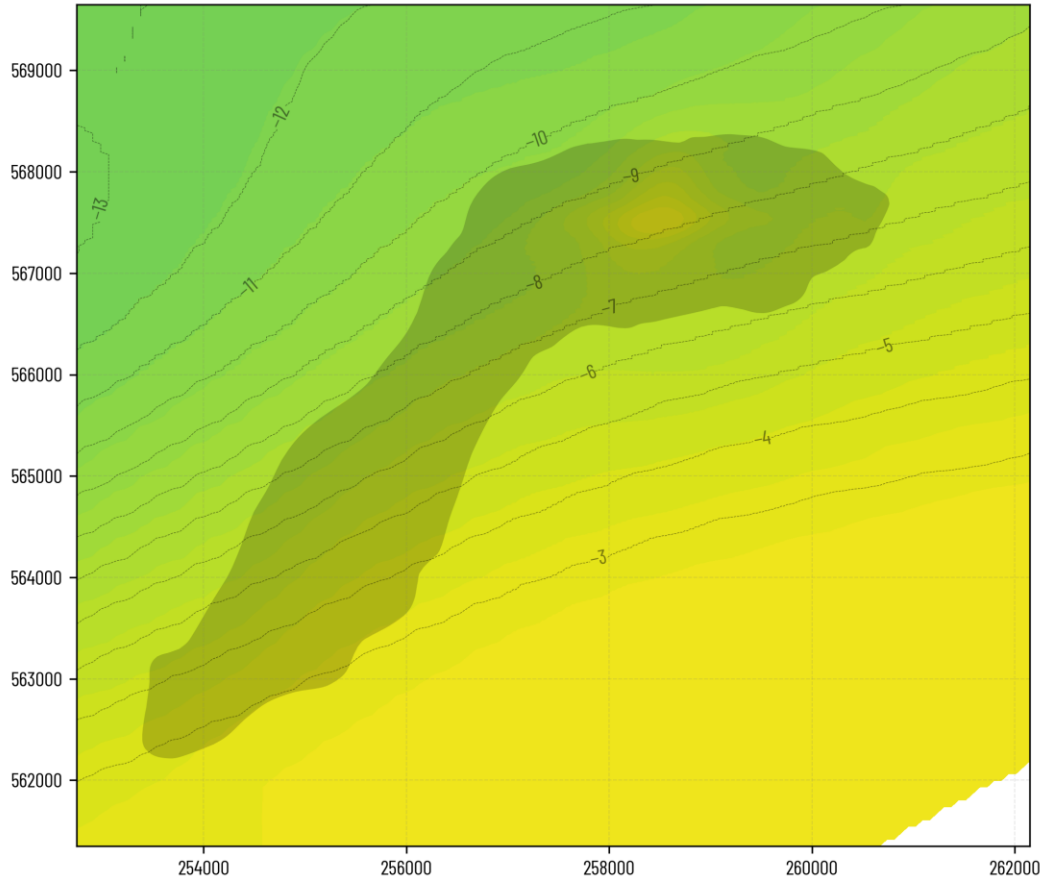
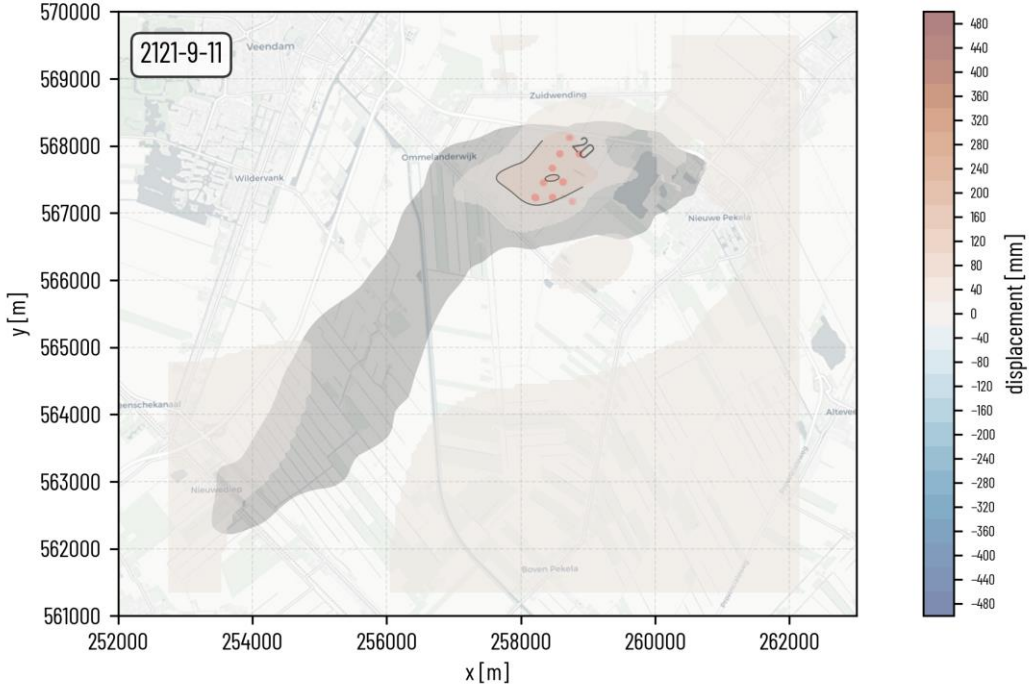
Scenario C

Vertical velocity [cm/yr]
Vertical displacement [mm]
at surface (2121)







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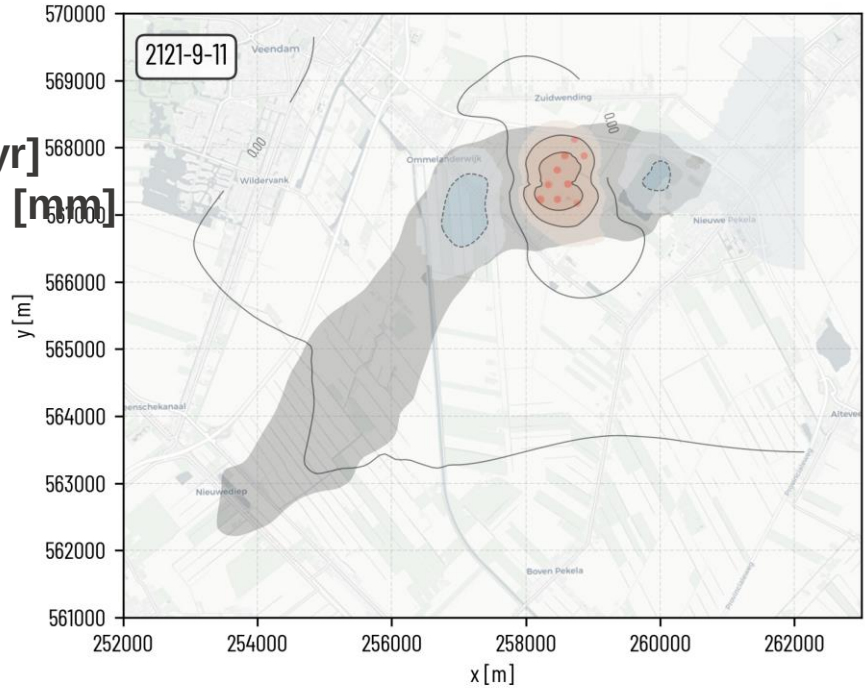
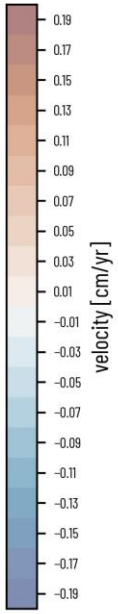
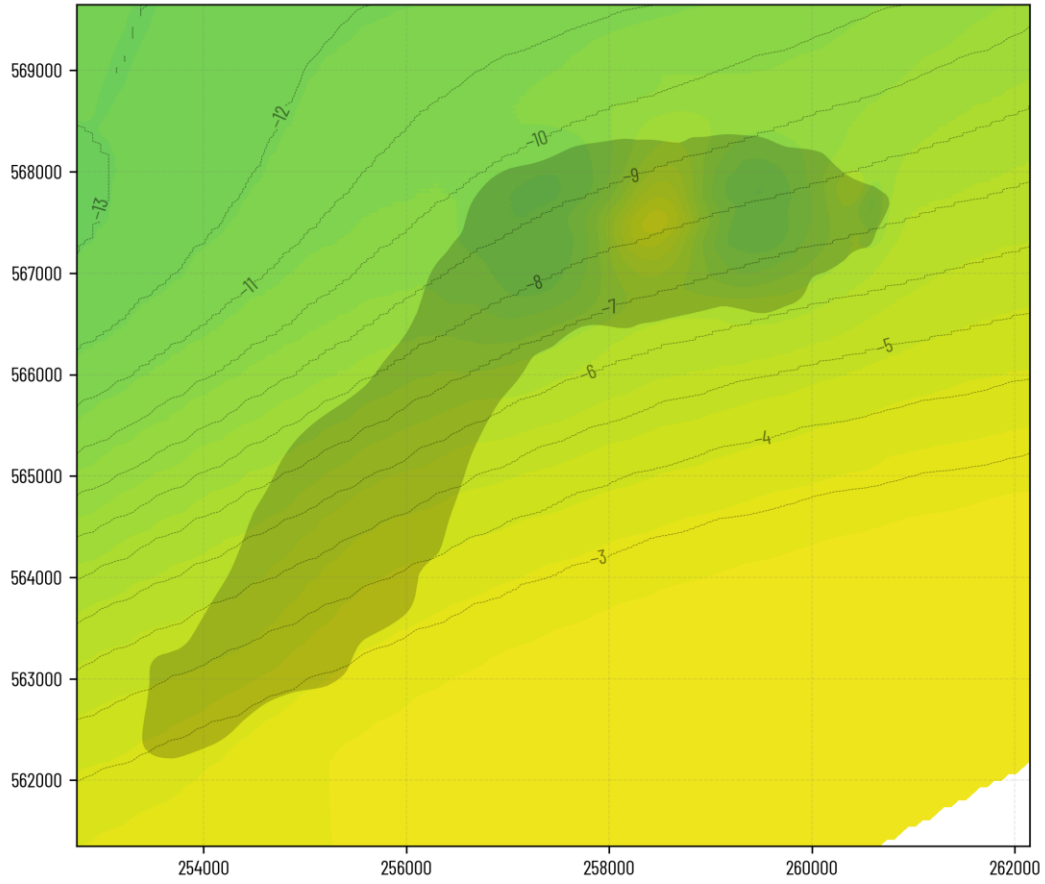
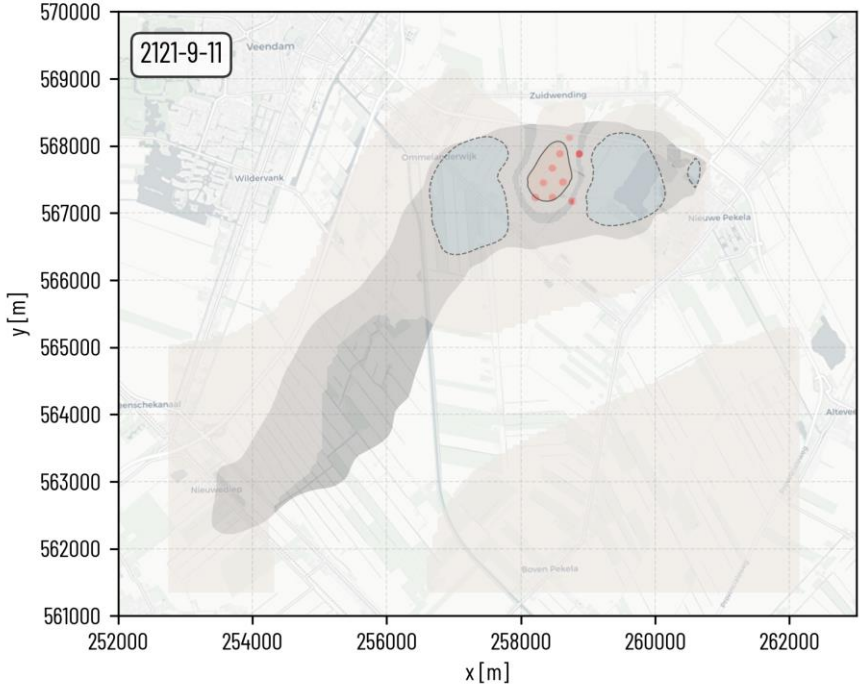
Scenario E

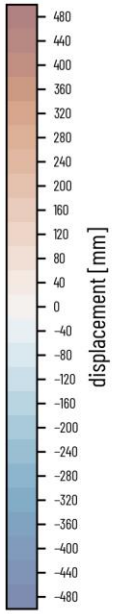
Vertical velocity [cm/yr]
Vertical displacement [mm]
at surface (2121)











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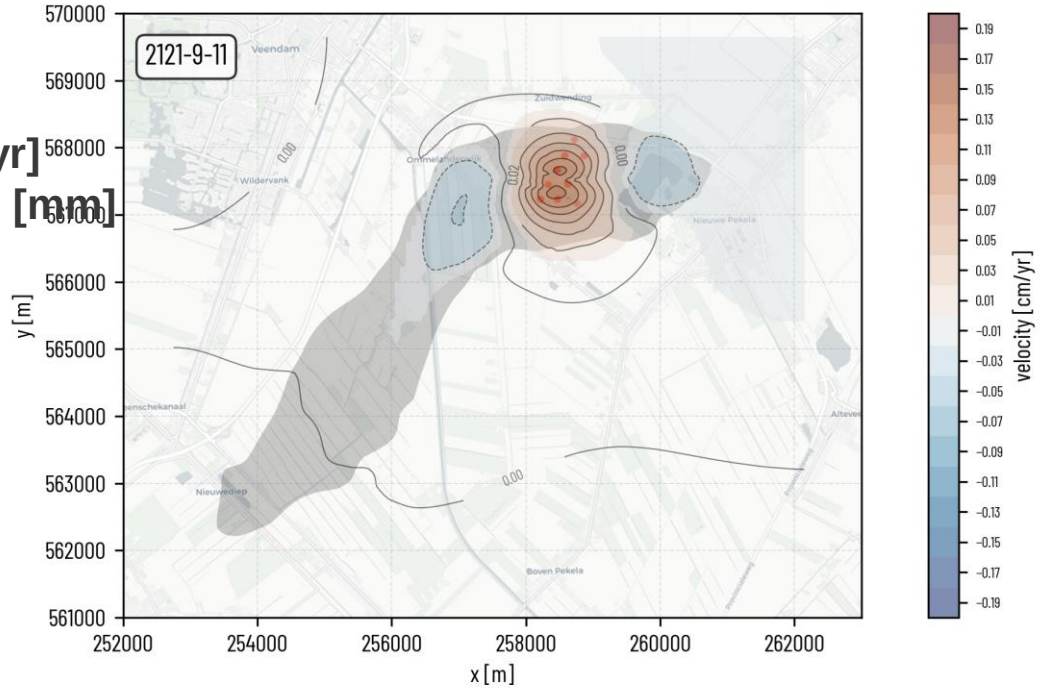
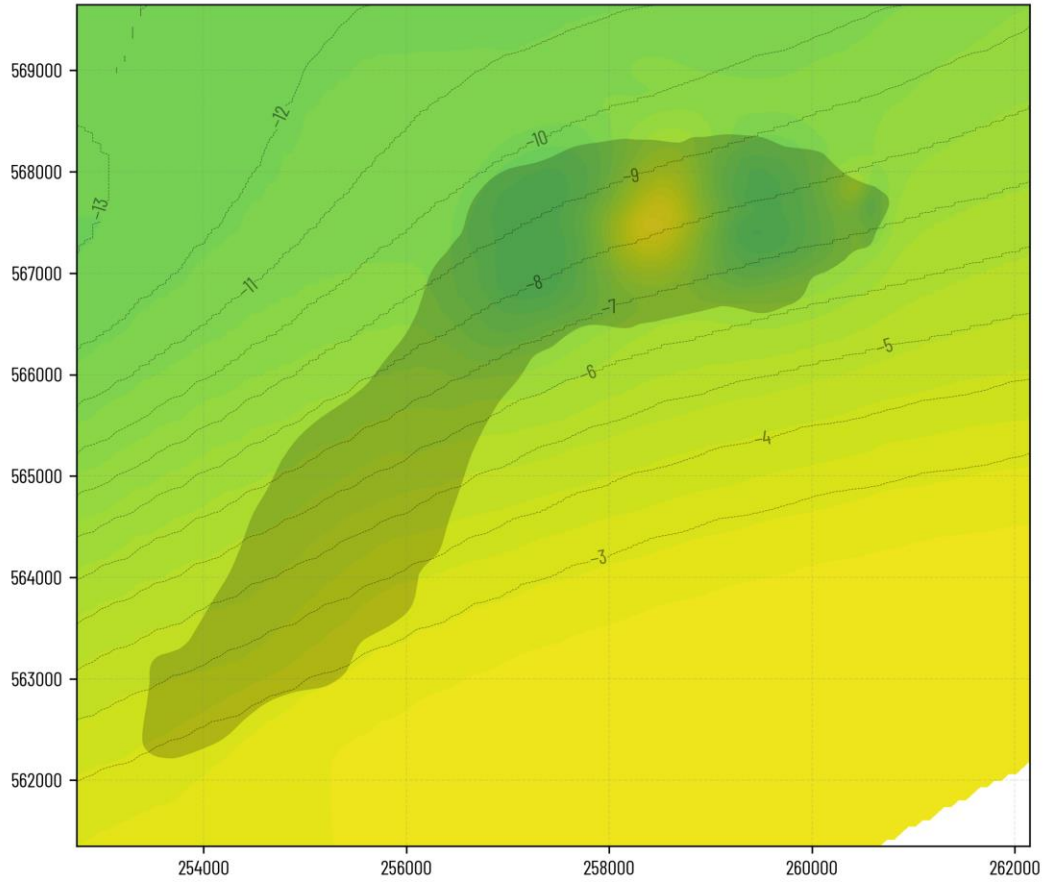
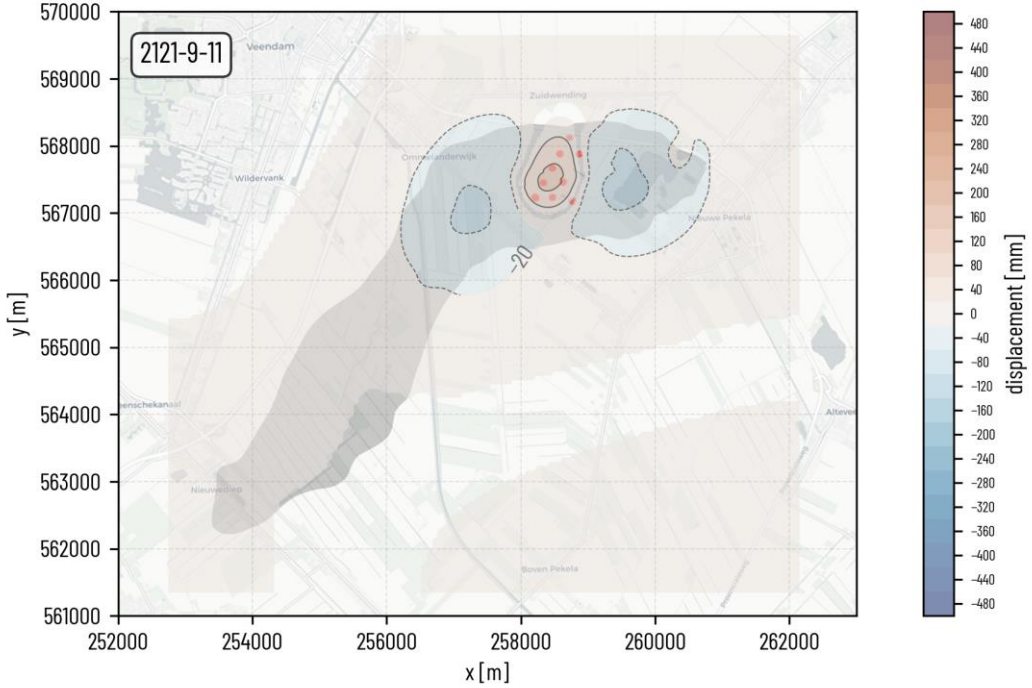
Scenario F

Vertical velocity [cm/yr]
Vertical displacement [mm]
at surface (2121)







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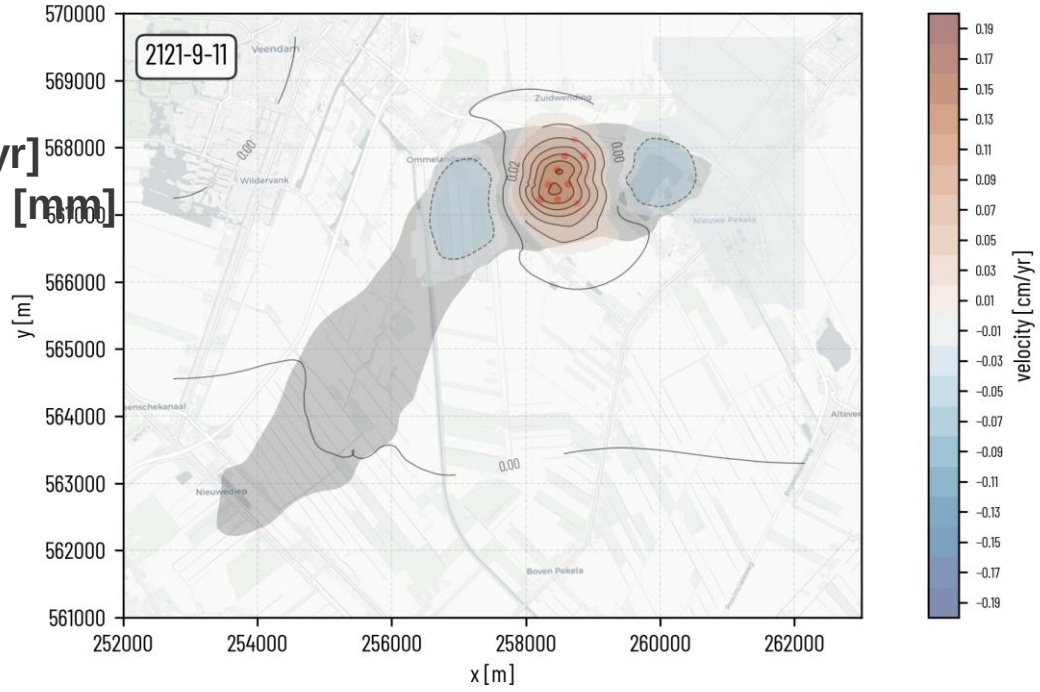
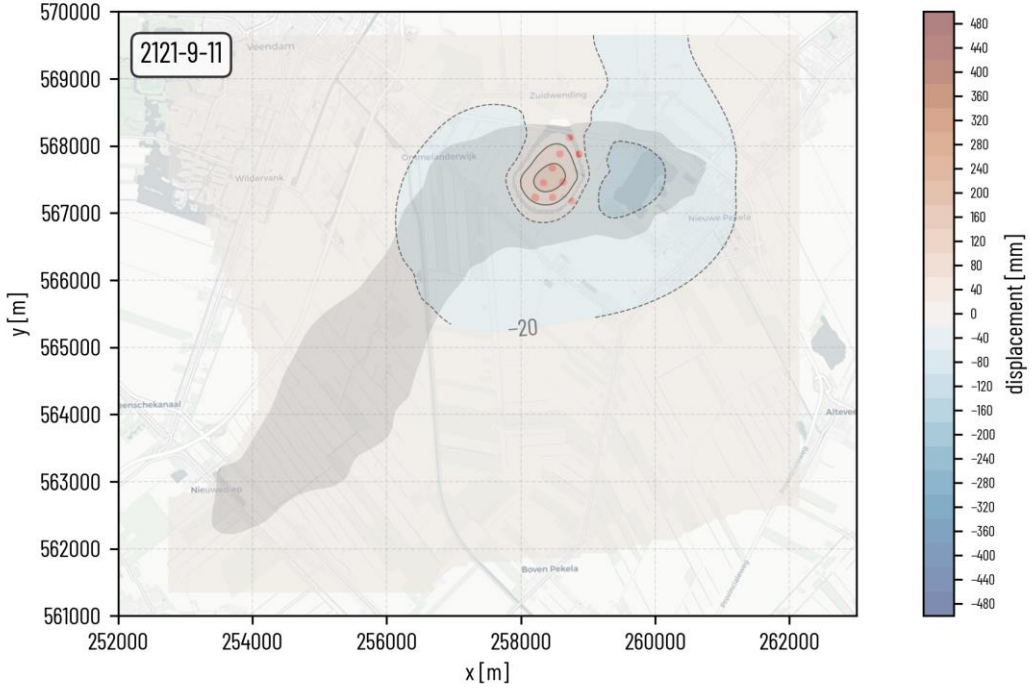
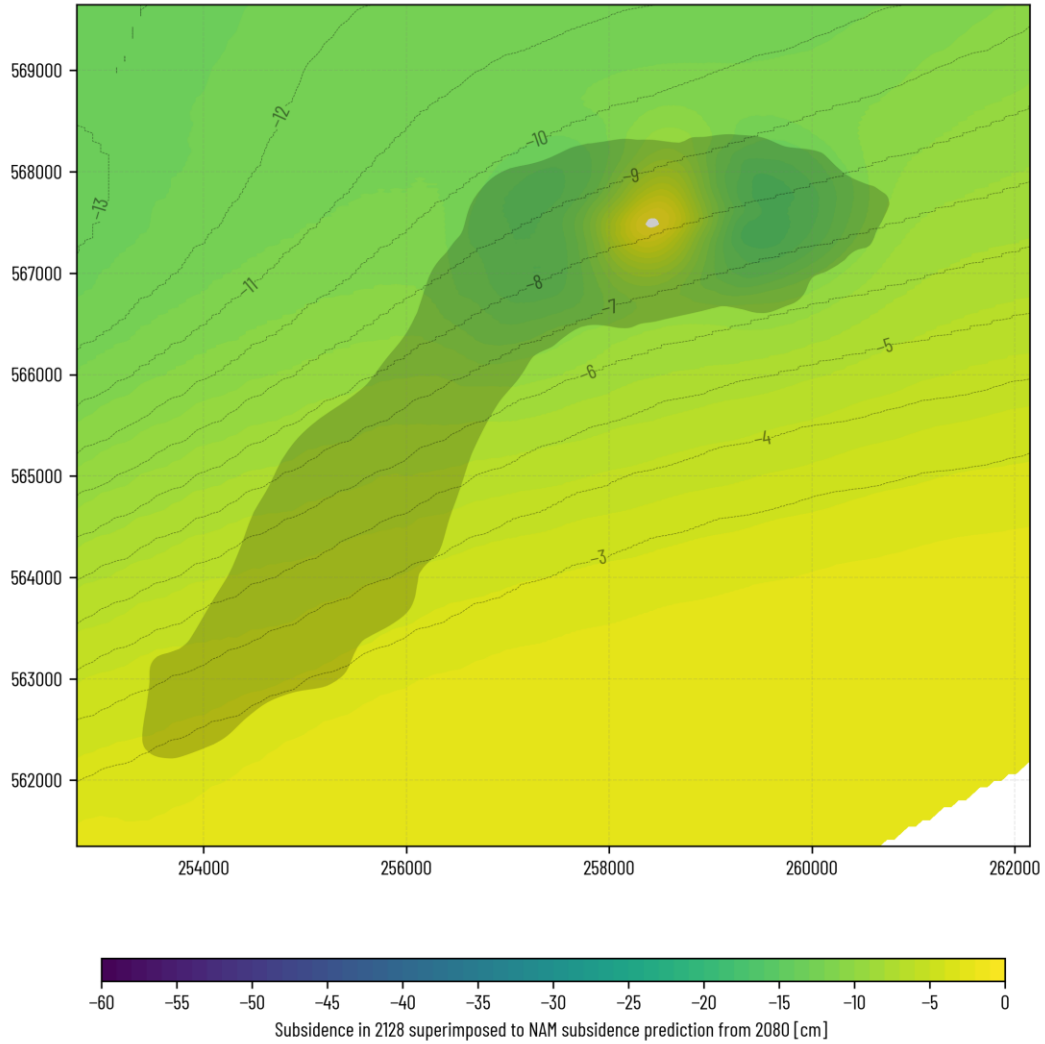
Scenario G

Vertical velocity [cm/yr]
Vertical displacement [mm]
at surface (2121)



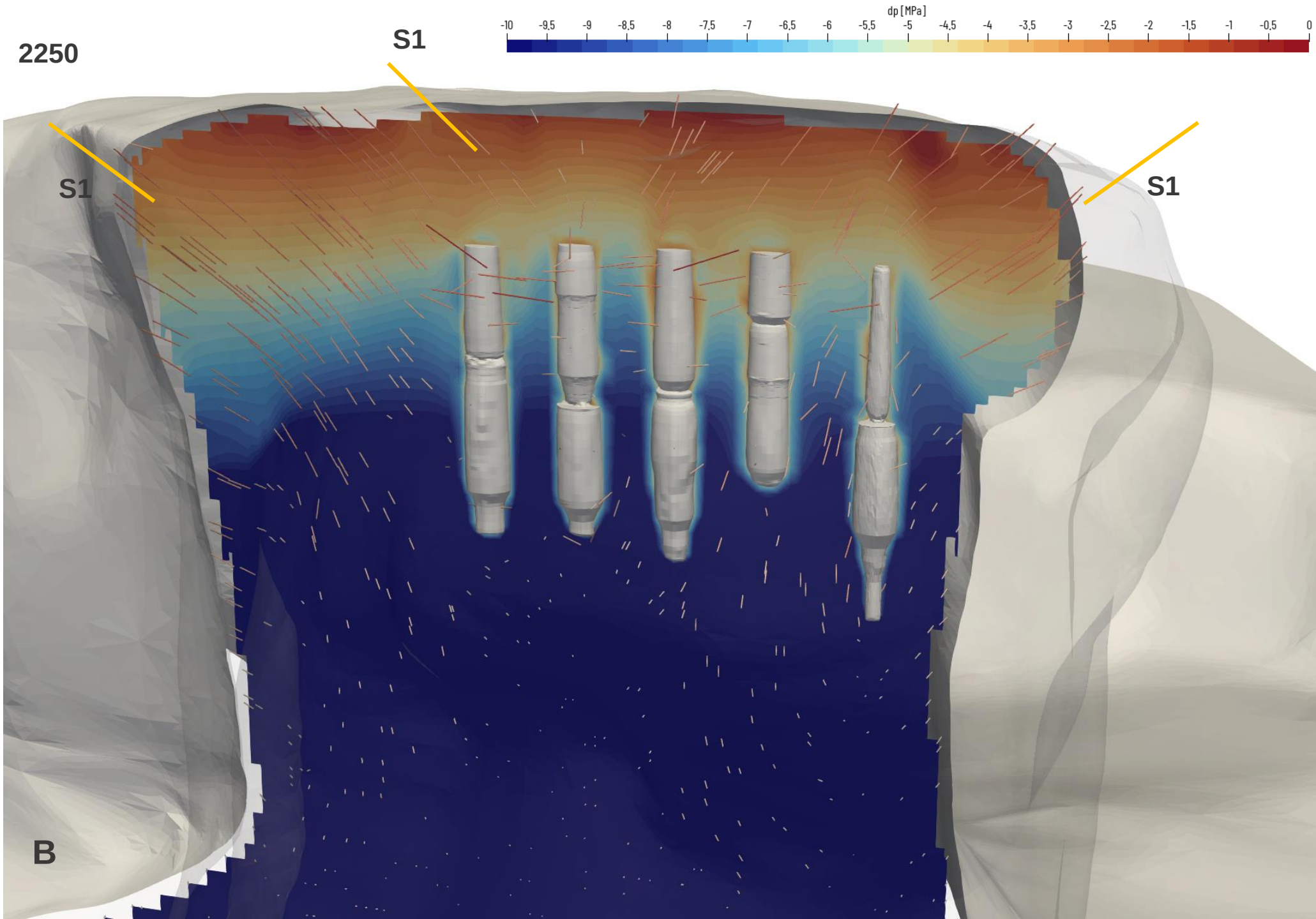




Scenario B

$\Delta p\ [MPa]$

S_1 orientation in 2250



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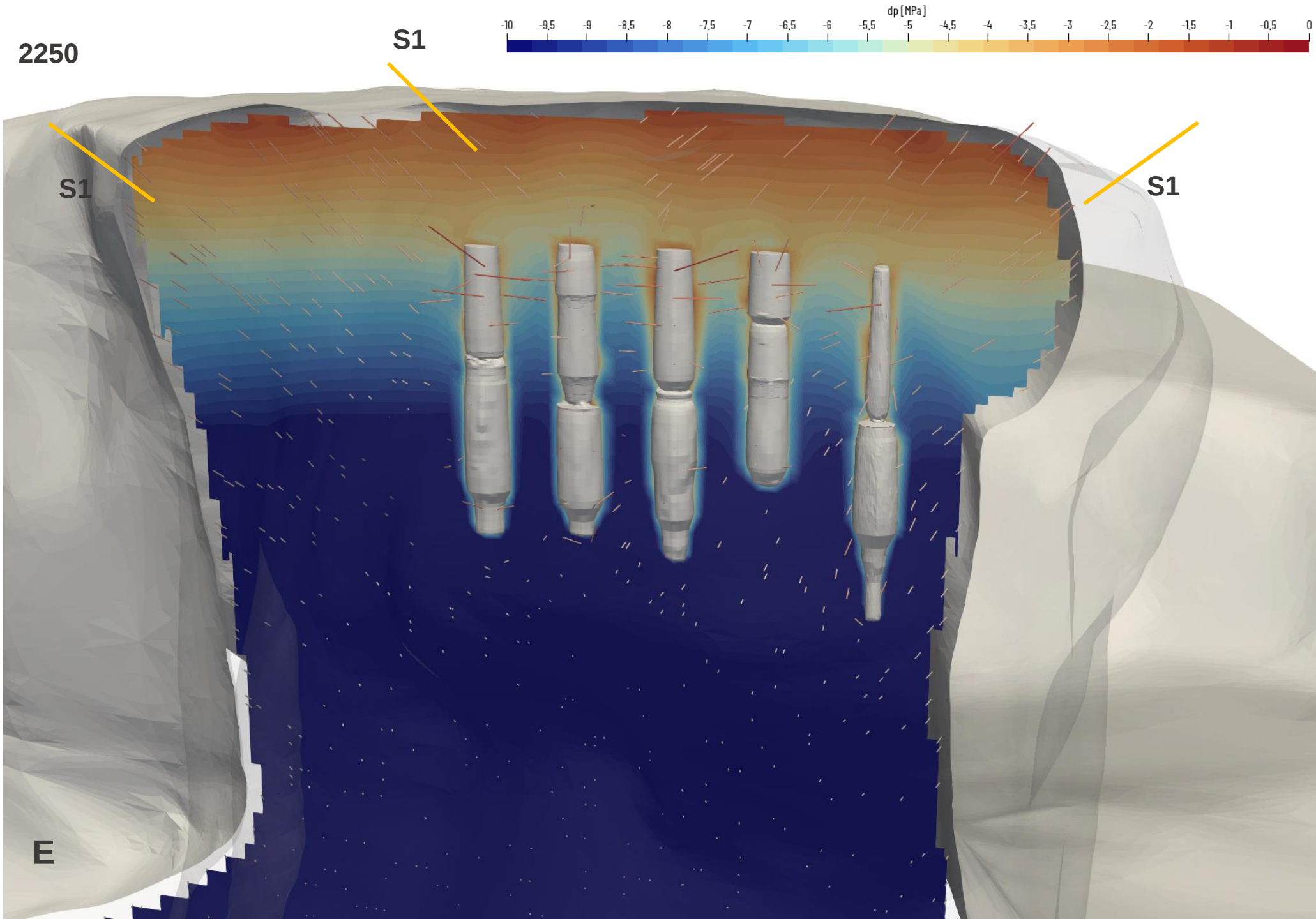
Scenario E

$\Delta p\ [MPa]$

S_1 orientation in 2250



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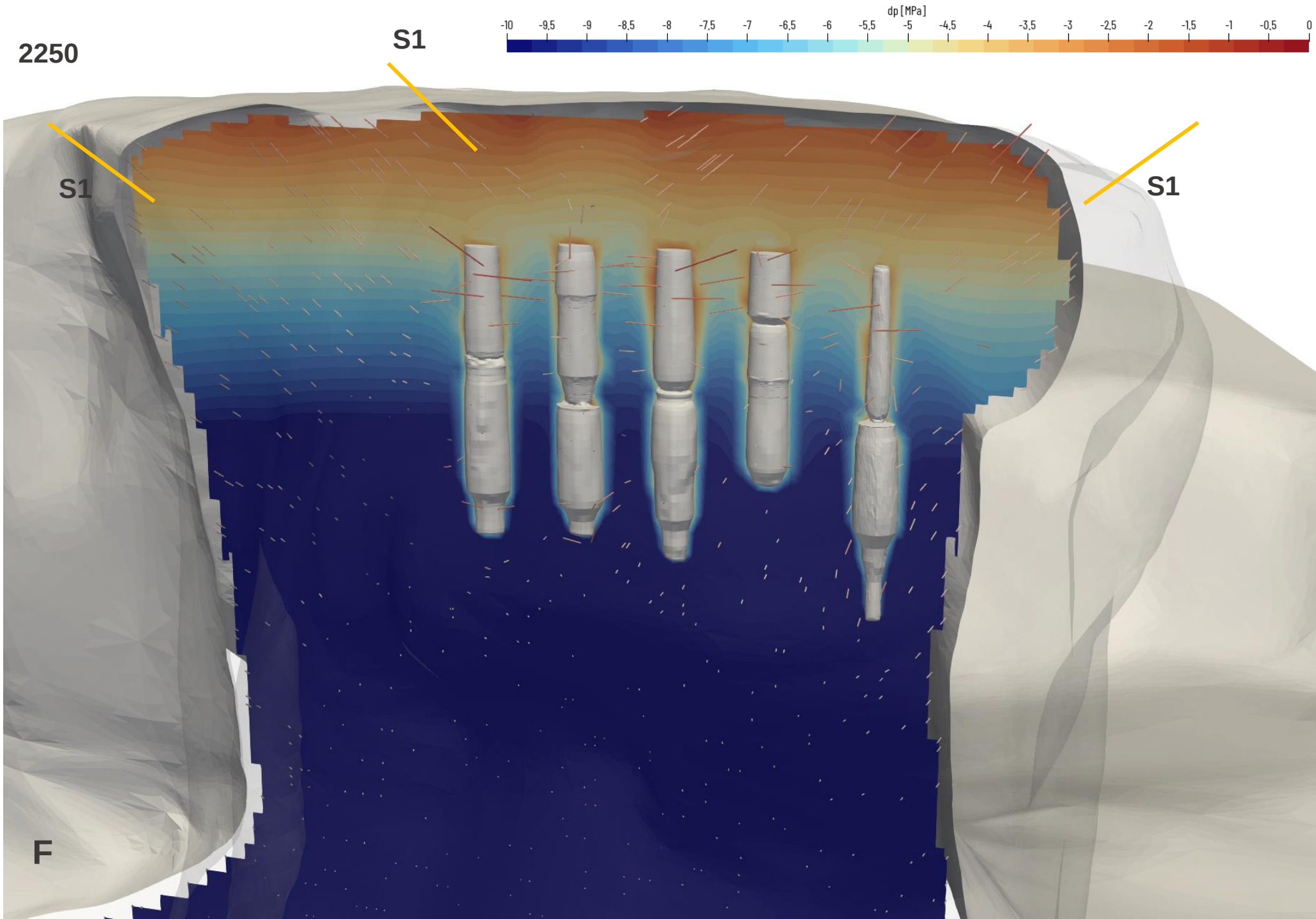
Scenario F

$\Delta p\ [MPa]$

S_1 orientation in 2250



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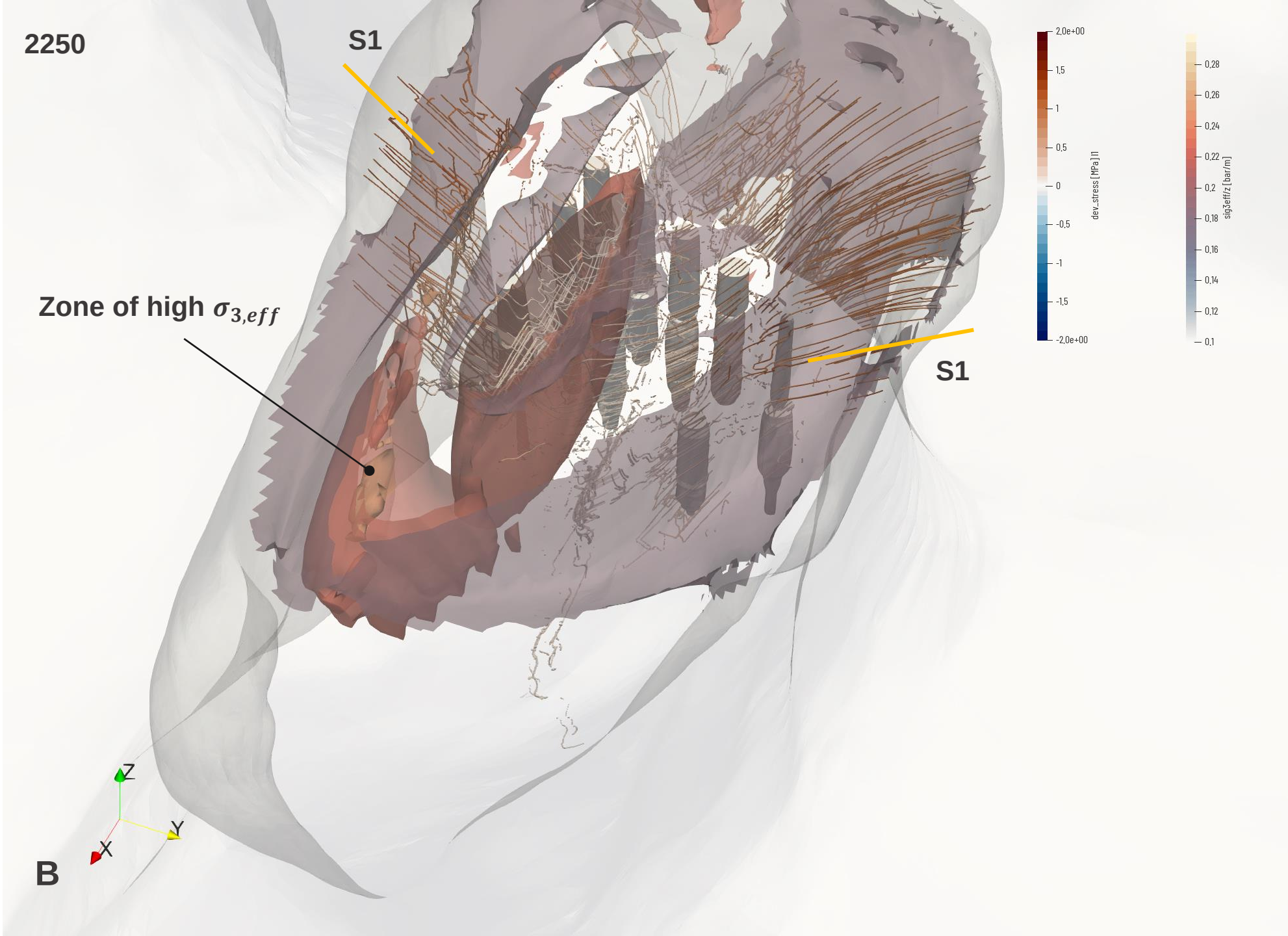
Scenario B

$\frac{\sigma_{3,eff}}{z}$ $[\frac{bar}{m}]$ (contours)

S_1 orientation in 2250



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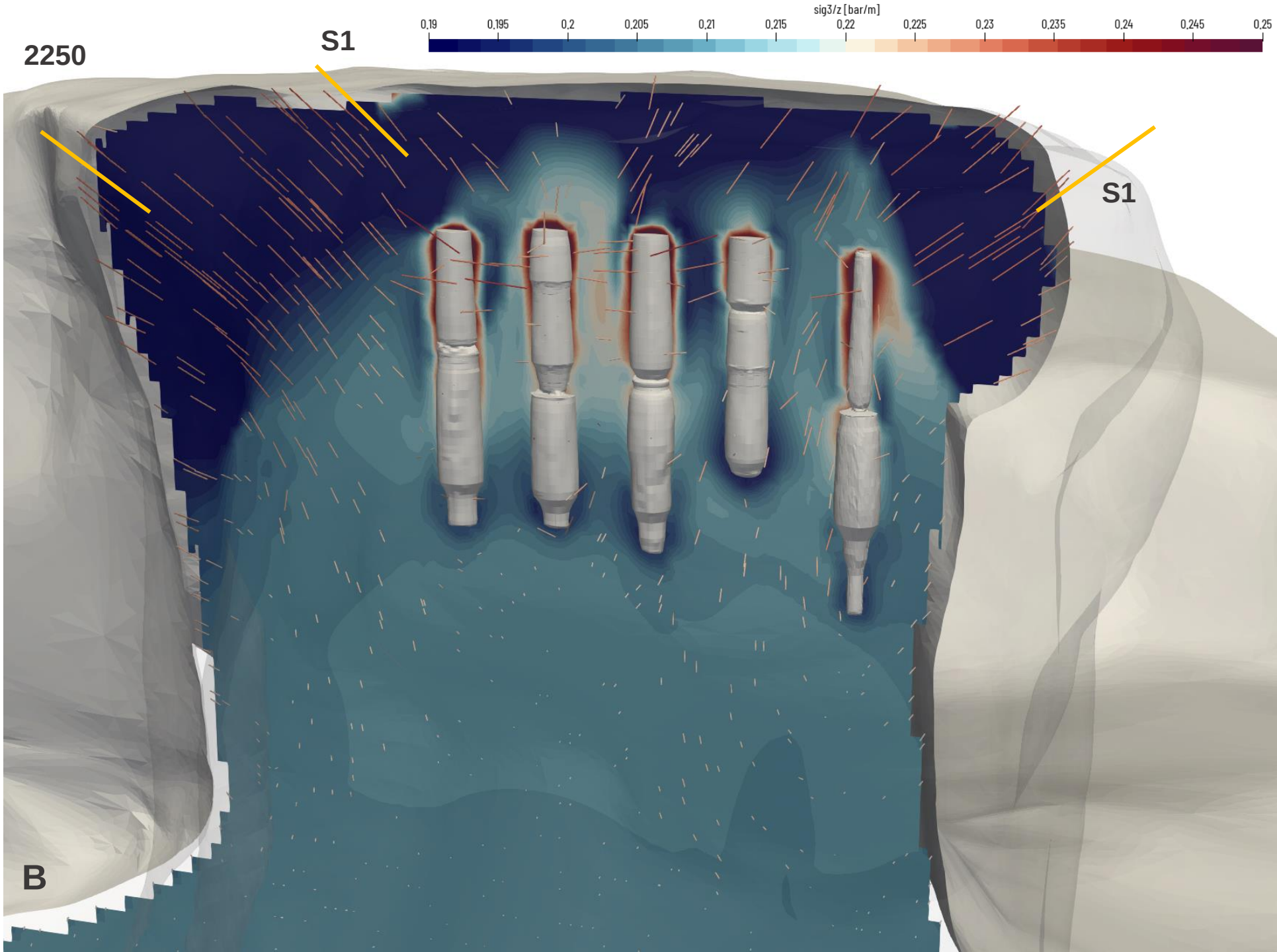
Scenario B

$\frac{\sigma_{3,eff}}{z}$ $[\frac{bar}{m}]$ in 2250



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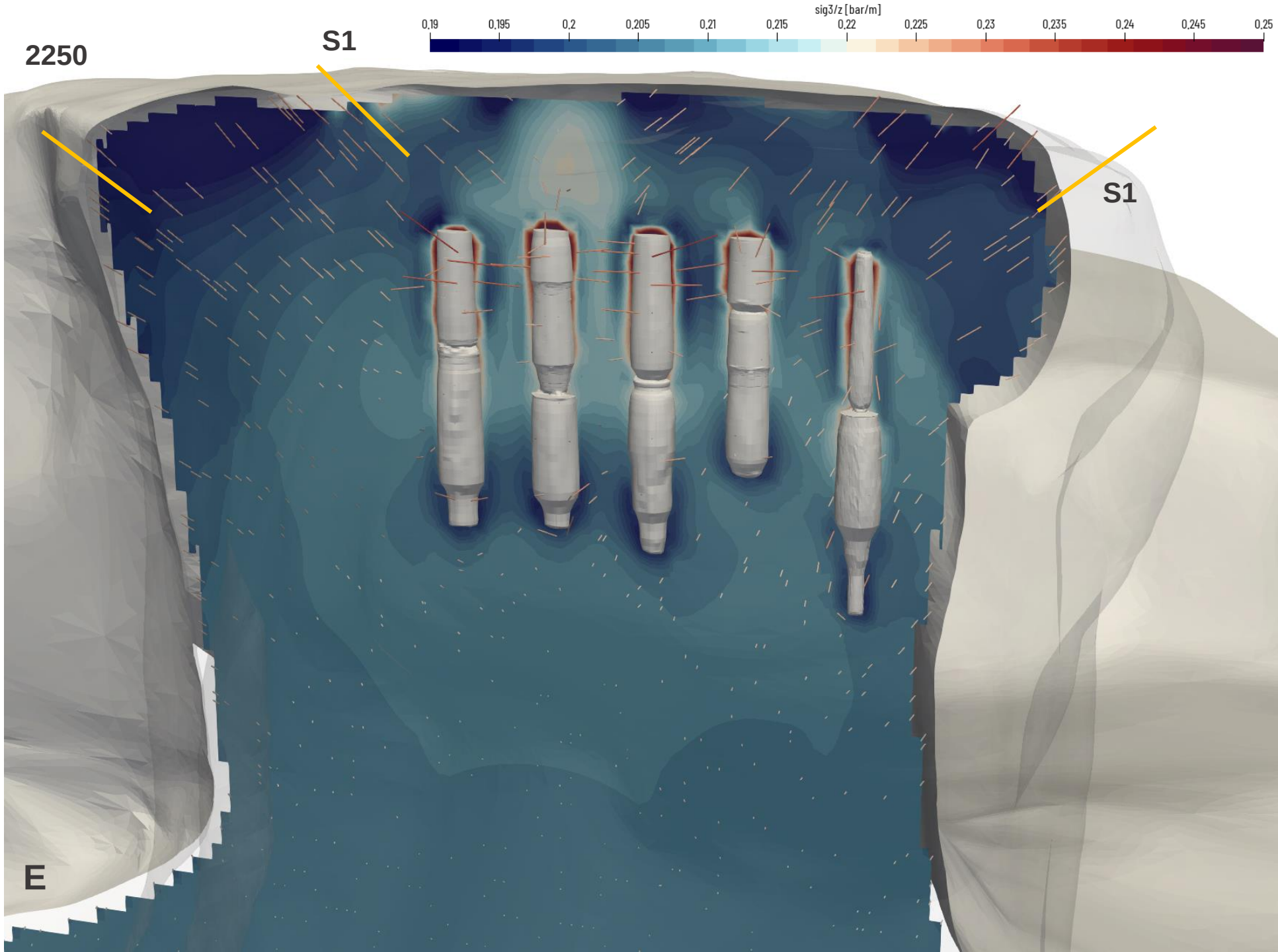
Scenario E

$\frac{\sigma_{3,eff}}{z}$ $[\frac{bar}{m}]$ in 2250



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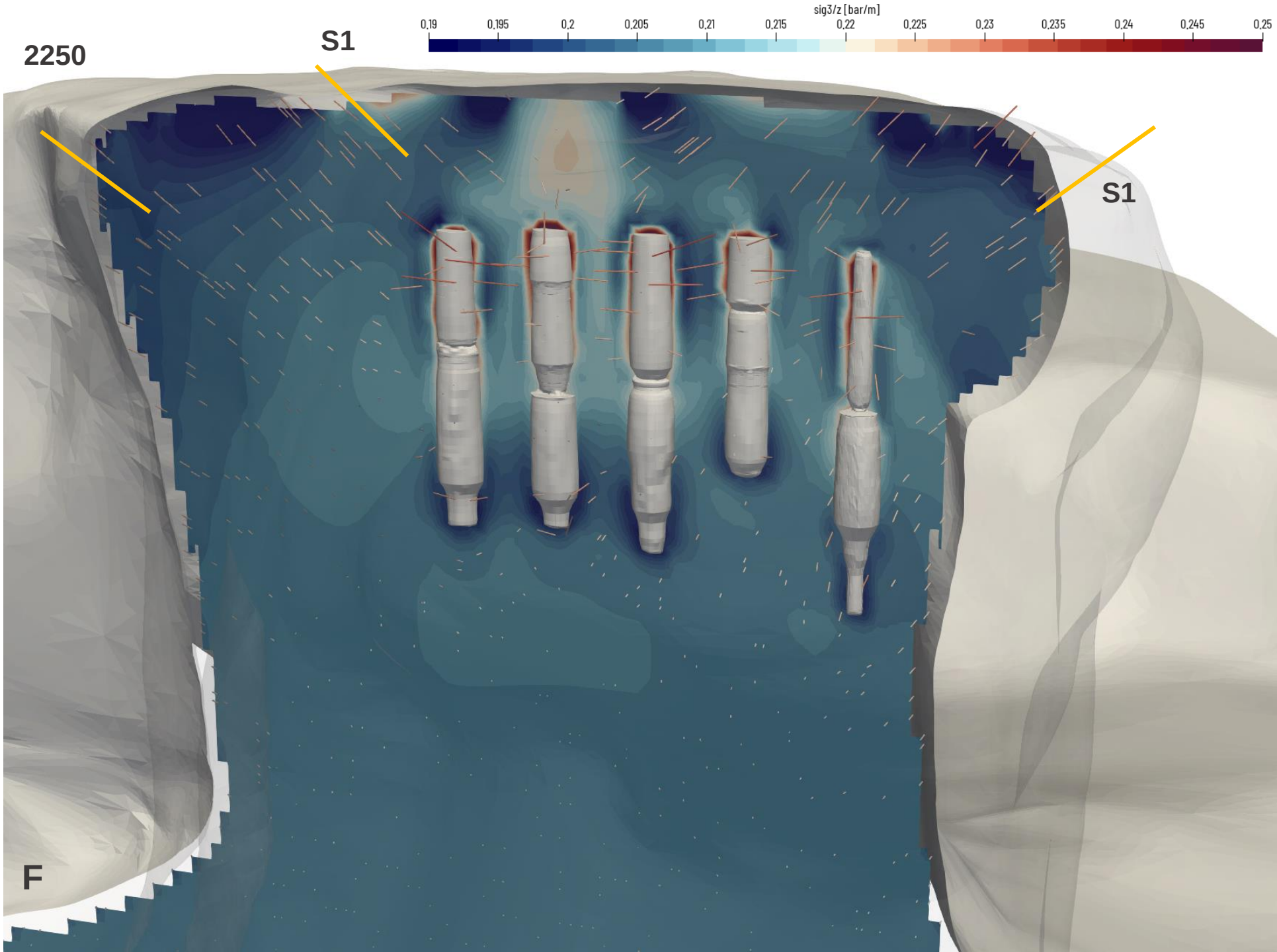
Scenario F

$\frac{\sigma_{3,eff}}{z}$ $[\frac{bar}{m}]$ in 2250



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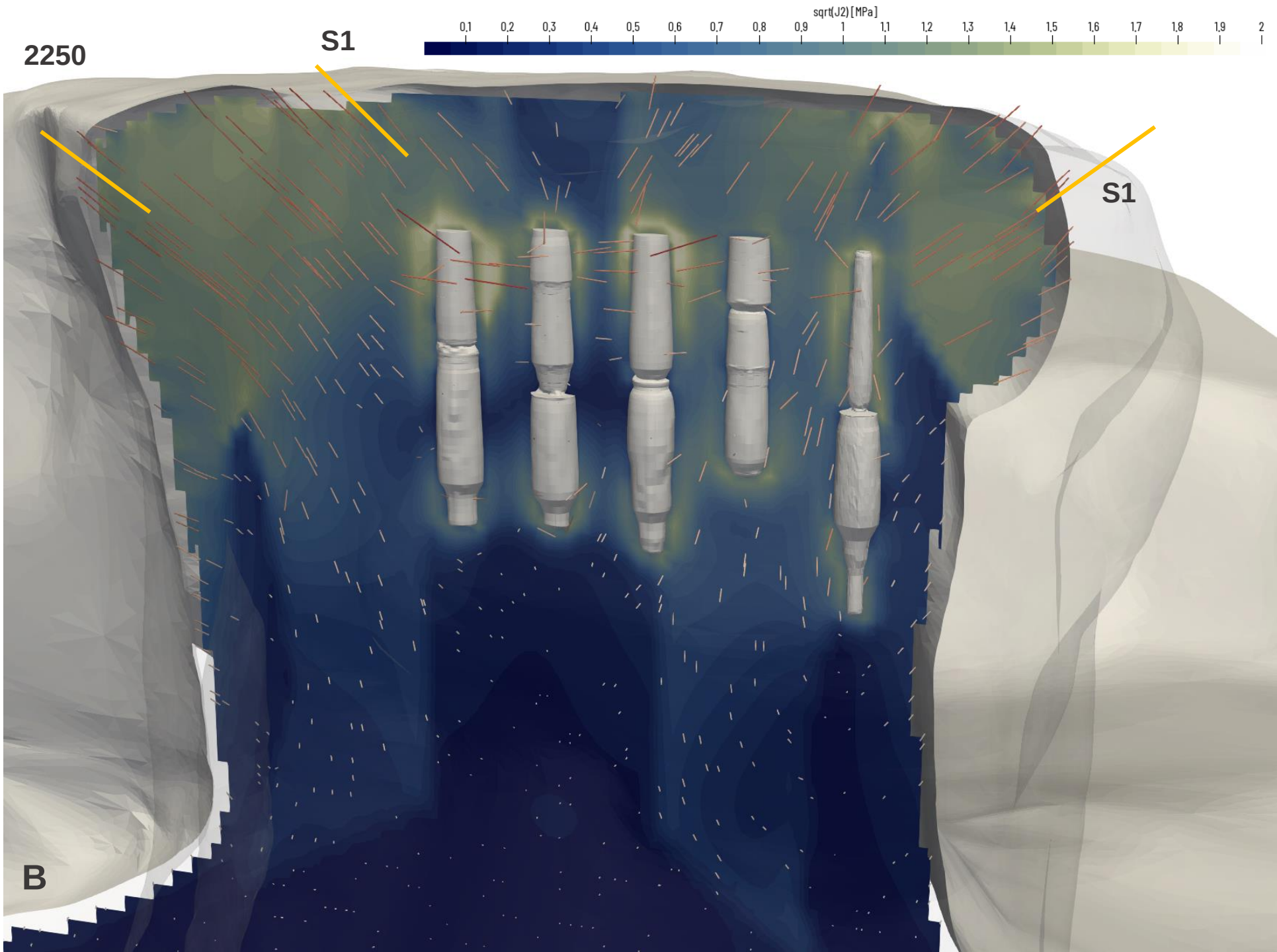
Scenario B

$\sqrt{J_2}[MPa]$ in 2250



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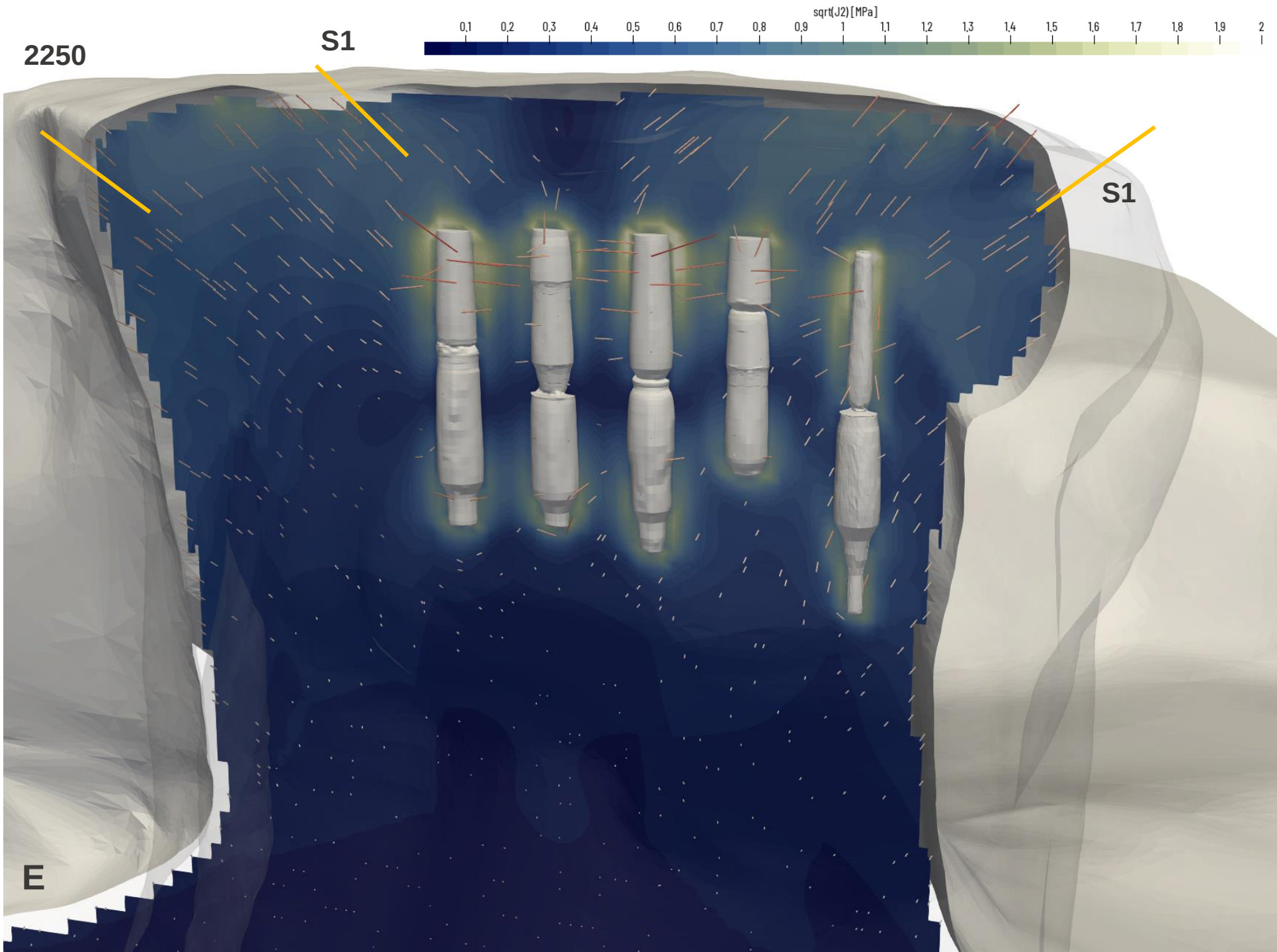
Scenario E

$\sqrt{J_2}[MPa]$ in 2250



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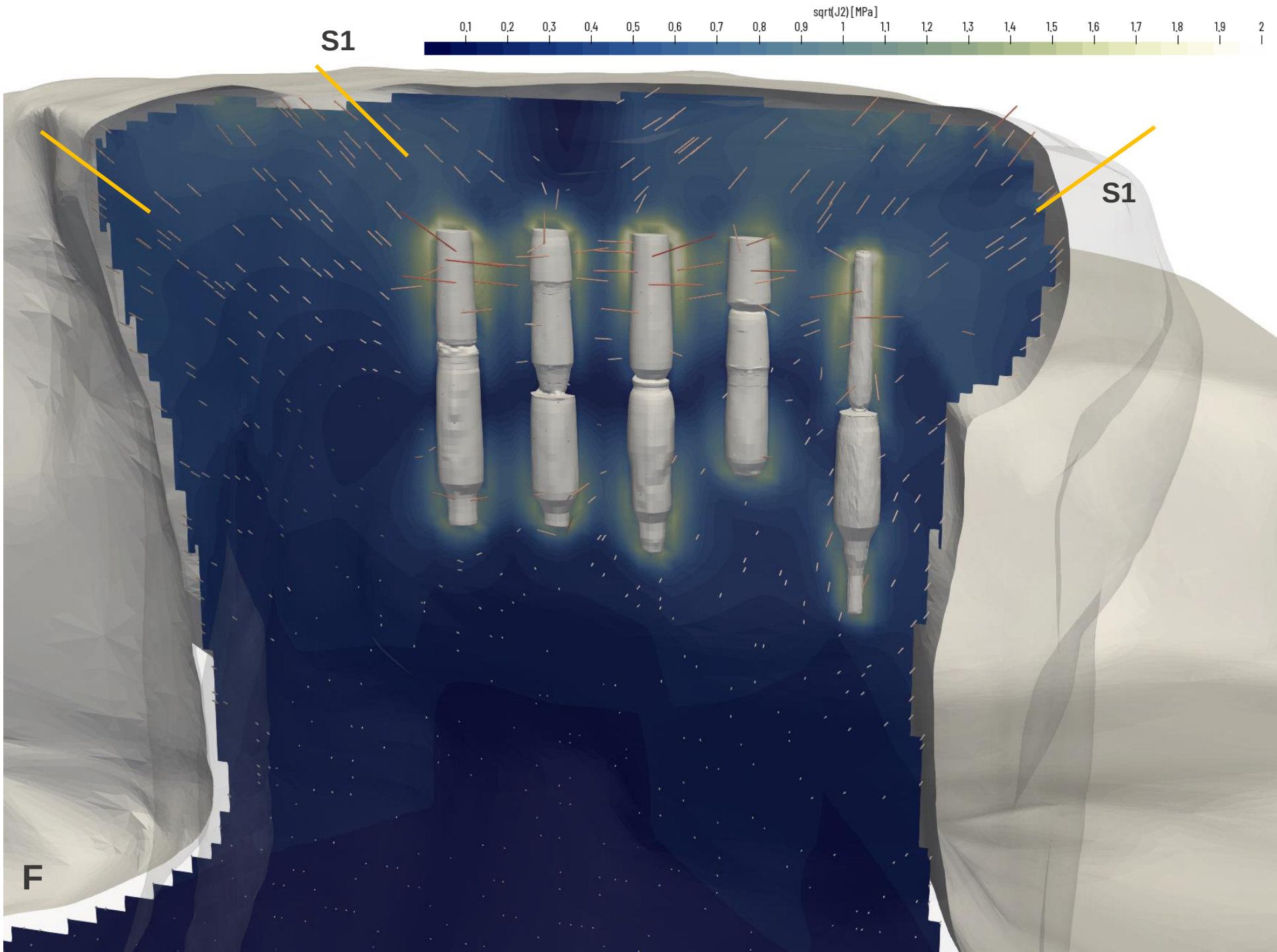
Scenario F

$\sqrt{J_2}[MPa]$ in 2250



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