Surface deformation at Askja Caldera during the period of 2021 to 2022

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(Drouin and

Sigmundsson, 2019)



elocity [mm/v

(Auriac et al., 2014)

fig 5. We have analysed continuous GNSS stations. InSAR is referenced to GNSS.

What it is producing the uplift? Is it a hazard for the population?

3. Results

A. InSAR

C. How has the deformation evolved in time?

LOS 009D



16°48'W 16°42'W 16°54'W 16°36'W 16°30'W 17°00'W

fig. 6. **Top**: Accumulative velocities in the LOS directions of the Ascending and Descending Frame. **Bottom:** Time series from InSAR for

Near Vertical Deformation (2021-07-19 to 2022-09-20)

Near Vertical Deformation (2021/07/19 to 2021/09/17)

Use micogravity to determine changes in magma mass below the volcano

New input of magma? movement?

Model to 1. Build a numerical undersatnd what is happened below the volcano