

## Nordic Geological Winter Meeting 2022

### Day tour to the pristine Reykjanes peninsula, 10<sup>th</sup> of May

This approximately 10-hour long round-trip across the Reykjanes Peninsula highlights the most recent volcanic and tectonic events and volcanic systems of Reykjanes Peninsula. An introduction to SW-Iceland's unique tectonic setting and a visit to the 2021 Fagradalsfjall eruption site.

#### Guides:

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#### **Stops.**

Reykjavík. Quick on-the-bus introduction to the geology of Reykjanes, plate boundary, and geothermal utilization.

Seltún: Visit to the Krýsuvík geothermal field Seltún, as a part of the Holocene Krýsuvík-Trölladyngja volcanic system.

2021 Fagradalsfjall eruption site. Hike to the Fagradalsfjall volcanic system and 2021 eruption site. The walk duration about 4 hours or 8 km long with an elevation gain of about 250 m. We will see the newest lava in Iceland, eruptive vents that intersected the Pleistocene sub-glacial volcanic system.

Stampahraun and the onset of the mid-oceanic ridge. This stop leads us to the tip of the southwestern most part of the Reykjanes peninsula, where the mid-oceanic ridge rises out of the sea with its fissure dominated volcanic system, lava flows and shield volcanoes. The latest activity was in 1210-1240 CE called the Reykjanes Fires, the Younger Stampahraun was formed in the beginning of that Fires, most probably in 1211 CE.

„Bridge between continents“. Visit to the plate boundary and a brief stop at the "Bridge Between Continents", before heading back to Reykjavik.

Please dress according to the weather. The day trip includes a short hike. Please come with good shoes.

