

Itinerary for 2017 Geologists of Jackson Hole Trip to Iceland

September 18-October 2, 2017 (new moon Sept, 19, Sunset 6:13PM)



Day 0,1, Sept 18, Arrive and stay in Reykjavik, Stay at Hotel Leifur Eiríksón

Places to visit

Reykjanes Peninsula-Mid ocean rift, Gunnuhver thermal area, Þorbjarnarfel, Reykjavik city



Gunnuhver thermal area with geothermal plant in background

Mid ocean rift comes ashore at the very SW corner of the Reykjanes peninsula

Day 2,3, Sept 19,20 Selfoss, Stay at Hótel Hlíð

Places to visit

Day 2. Pillow lava and hyaloclastite, grabens + geothermal power plant visit, Hveragerði - hike around the hot springs, bath in warm river etc - dinner at restaurant Varmá?

Day 3. Þingvellir, Geysir Gullfoss.

Day4 enroute Hreppar Formation, Þjórsárdalur (Stöng viking farm, Gjáin, Hjálparfoss), Hekla etc



Above, Gullfoss

Left, mid ocean rift at Þingvellir



Lake Þingvallavatn, largest lake in Iceland, located in the 10-20km wide mid ocean ridge graben between the two normal faults bounding the rift

Day 4,5, Sept 21,22 Stay at Vik. Puffin Hotel

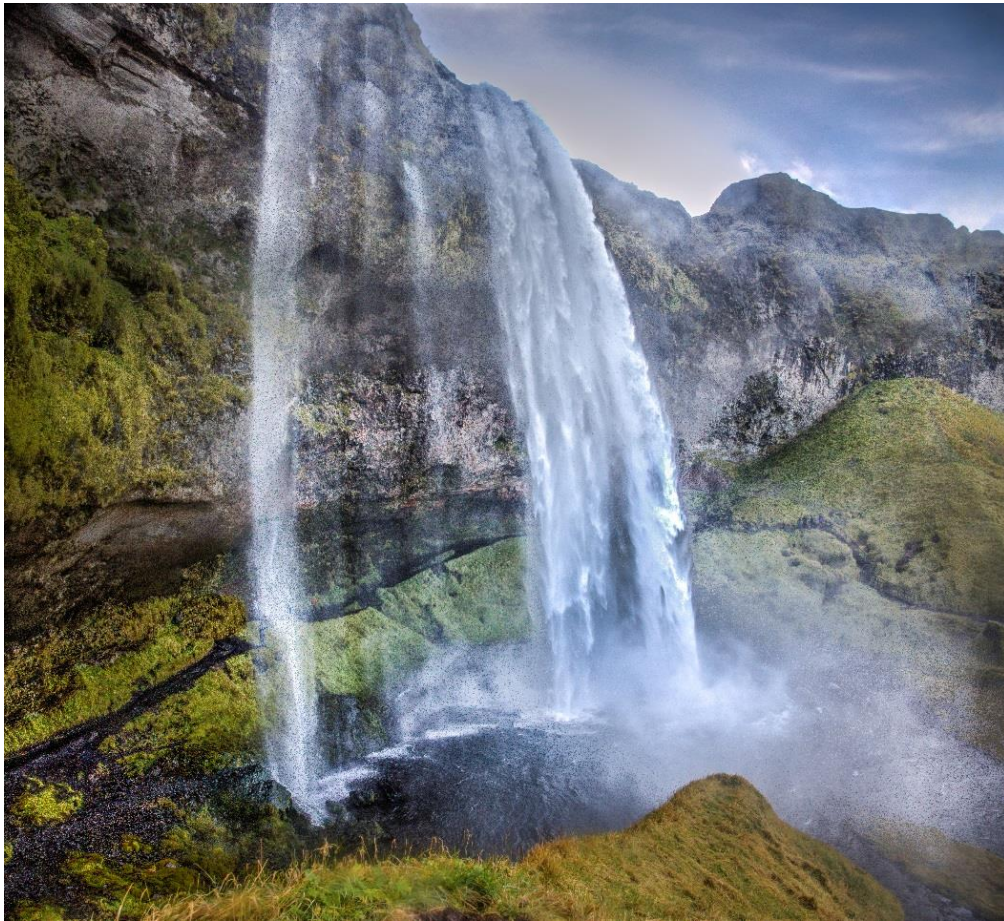
Places to visit

Day 4. En route, Seljalandsfoss, Hvammsmúli, Eyjafjallajökull eruption museum, Skógafoss, Dyrhólaey, Reynisfjara, Hjörleifshöfði, Fjaðrárgljúfur+Laki and Eldgjæa lava flow fields.

Day 5. Eldgja (if possible) otherwise

Holocene tephra sequences in Skaftártunga, Laki lava in the Skaftá River gorge, Brestir, Rootless cone groups

Day 6 enroute-Laki cone row if possible, alternative Leiðólfsvellir or Eldgjá lava and Ytri Dalbær section, Brestir, Laki and Eldgjá at Botnar - inverted landscape, Systrafoss and Systravatn etc.



Left, Seljalandsfoss
Right, Skógafoss





Dyrhólaey,
southern most
point in
Iceland, cube
jointed lava
from water
cooling.
Myrdalsjokull
in background



Fjallsarlon, glacial lake at base of Fjallsjokull, part of Vatnajokull

Day 6,7, Sept 23,24 Stay at Hofn,Hotel Hofn

Places to Visit

Day 6 En route

Laki lava rise pits, Lómagnúpur, Skeiðarárhlaup, Skaftafell, Salthöfði, Kvíárjökull, Jökulsárlón, Reynivellir porphyry, Hestgerðismúli, Heinabergsjökull

Day 7. Roots of the volcanos Geitafell cone sheets, Slaufudalur magma chamber roof and associated stoping, Ketillaugarfjalla and the ring dyke etc

Day 8 enroute-Moore roots Almannaskarð, Slaufudalur, Lón, Eystrahorn.



Svartifoss, Skaftafell National Park, basalt pillars



Jökulsárlón, glacial lake at base of Vatnajökull



Skeidararsandur, largest glacial outwash plain and Oraefajokull & Hvannadalshnjukull, 2119m, Iceland 's highest

Aurora at Hofn



Day 8, Sept 25 Stay at Blafell, Hótel Bláfell

Places to Visit

Day 8 en route to Breiðdalsvík.

Fauská sequence and landscape, Álftarfjörður volcano and dyke swarm, Teigarhorn mineral museum, Breiðdalur volcano and associated volcanics in Berufjörður and Breiðdalur

Stay in Breiðdalsvík

Day 9 enroute- Stöðvarfjörður, Sandfell in Fáskrúðsfjörður, Reyðarfjörður volcanics and Neskaupsstaður. Or possibly drive up to



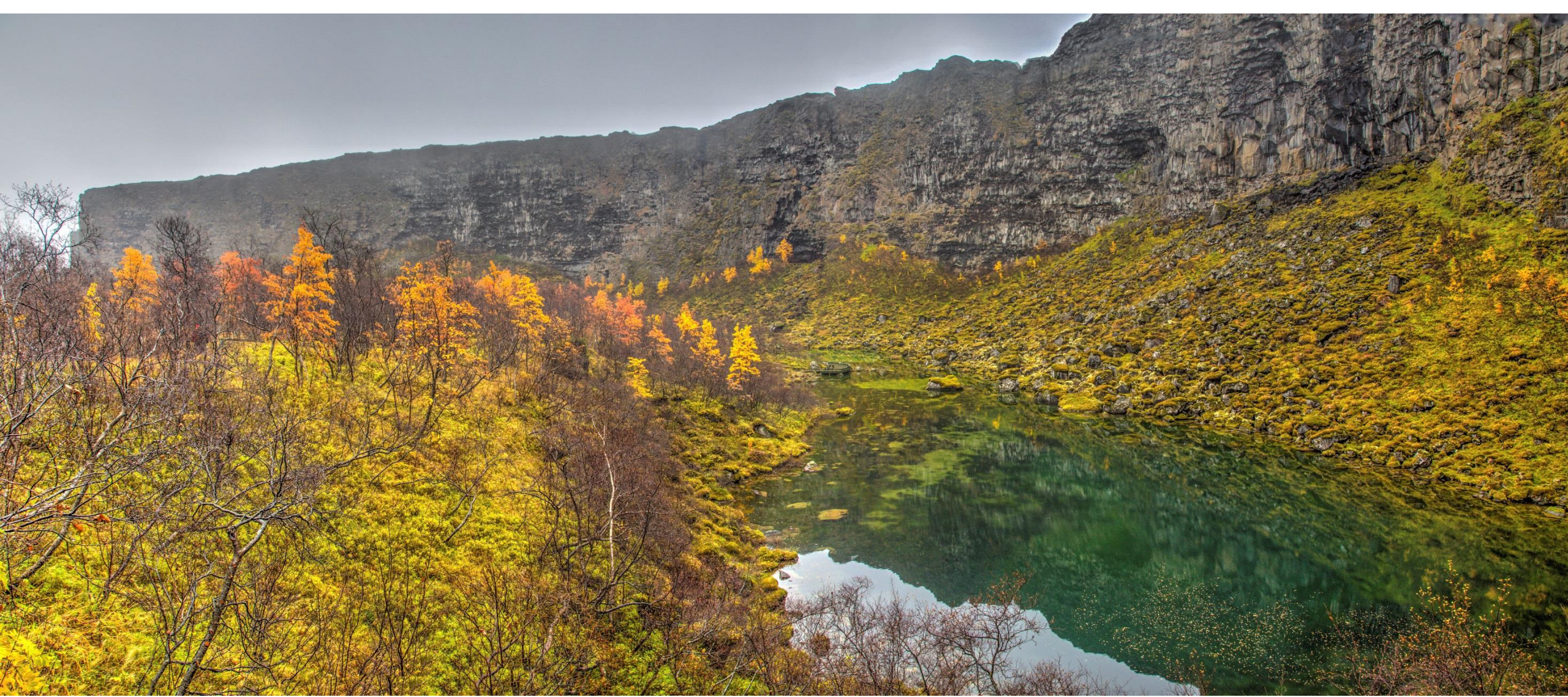
Dykes cross
cutting basalt
layers, Berufjordur



Reydarfjordur,
welded
rhyolite tuff



Jokulsargljufur
9km canyon
formed by a
jokulhlaup(mas
sive glacial
melting caused
by a volcanic
eruption) 2500
years ago



Asbyrgi at northern end of Jokulsargljufur

Day 9,10,11, Sept 26,27,28 Stay at Myvatn, Hótel Laxá / Hótel Reynihlíð

Places to Visit

Day 9 En route to Myvatn

Egilsstaðir, Dimmifjallgarður/Möðrudalur, Hrossaborg, Jökulsárgljúfur, Dettifoss.

Day 10. Asbyrgi, Tjörnes, Húsavík, Peistareykir etc.

Day 11. Mývatn area, Lake Myvatn, Viti crater, Krafla, Namafjall, Grjotagja, Hverfjall volcano, Mid ocean rift, Godafoss



Dettifoss, largest waterfall in terms of water volume discharge



Selfoss
next to
Dettifoss



Husavik fishing village on Tjornes Peninsula



Tjornes Peninsula





Overlook of Lake Myvatn, a paradise of volcanology, from the North. Shown in the background is the conical Hverfjall crater and the Ludent crater. The lava in the foreground is $<0.8\text{Ma}$ (Upper Pleistocene).



View of Lake Myvatn and rootless volcano cones
from the Hverfjall Crater Rim



The northern end of the mid Atlantic rift and the Grjotagja, a hot pool in the rift, was a popular bathing place until the 1975-1984 eruptions which caused the water to become too hot.

Day 12,13, Sept 29,30 , Stay at Blönduós, Hótel Blanda

Places to Visit

Day 12 En route

Ljósavatnskarð, Akureyri, Tröllaskagi, Hofsós, Sauðakrókur.

Day 13 Skagi roundtrip, propagating rift+extreme environment.



Godafoss at sunset, waterfall of the gods, is 12m high and 30m wide named after a priest threw his statues of the Norse gods into the waterfall, hence Godafoss.

Day 14, Oct 1, Stay at Stykkishólmur Fosshótel

Places to Visit

Day 14 .en route to Snæfellsnes through Laxárdalur? Stykkishólmur, Kolgrafarmúli, Búlandshöfði etc

Day 15 Snæfellsjökull, Jökulhálsaleið,

Arnastapi, Hellnar, Búðahraun, Eldborg á Mýrum, Borgarnes anticline, Hafnarfjall, end up in Reykjavik



Snæfellsnes, Stykkisholmur and basalt columns

Black sand beach near Olaesvik





The near perfect Eldborg splatter cone volcano formed 5000 years ago and is 250m long, 180m wide and 50m above the surrounding terrain with 40-60° steep rims

Lava caves and lava tubes Snæfellsnes peninsula



Day 15, Oct 2 Stay at Reykjavik, Hótel
Leifur Eiríksson

Depart on October 3





Day 12,13
Blönduós

Day 9,10,11
Myvatn

Day 14
Stykkishólmur

Day 1,15
Reykjavik

Day 8
Blafell

Day 6,7
Hofn

Day 2,3
Selfoss

Day 4,5
Vik

-AC
-POI
-ROAD

0.14 flood basin H
160-0918
P. 112
7 apr 1783

Lobster

ÍSLAND

ÍSKU