From Fiallabak

In Landmannalaum

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caving into the chamber. On this hypothesis, the mountains of Háalda, Sudurnám, Nordur-Barmur, Torfajökull, Kaldaklofsjökull and Ljósártungur are the remains of the magma chamber's rim.

Weather

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The average annual temperature in the protected areas of the Fiallabak outback is estimated at 0-1°C. July is the warmest month of the year, with average temperatures of 7-8°C. The average temperature in January and February is around

West, and drops down to 1,000 mm

in the northernmost parts.

Vegetation

Plants grow for, at

most, two months

formation of soil is

extremely slow. The lack of fully rotted and

weathered materials

makes the soil rough

grazed through the

ages, it should come as no surprise that it

is sparsely vegetated.

Green areas are small

mainly in the vicinity

of rivers and lakes. The

and scarce, found

and loose; winds and water shift

the soil easily, and sandstorms

the fact that the area has been

are common. Given this, and

per year, and the

area of Kýlingur is rich in ponds, lakes and various wetland plants. The 🥟 acidic rhyolite rock is mostly devoid

Least willow

but bright green moss adorns many of the tuff mountains. Approximately 150 species of flowers and ferns have been found in the protected area. Willow is prevalent in dry gravel areas and lava fieldss, while cottongrass is prevalent in the

of vegetation,

-6°C. The average temperature of individual months is very variable from year to year, and frost is possible at any time of year. In the South-East corner of the reserve, the annual precipitation is 2,000marsh cinquefoils. 3,000 mm. Precipitation decreases sharply to the North and North-

In times gone by, more of the resources of the area were utilised than today. People collected Iceland moss and roots, fished for trout and hunted whooper swan. Sheep were, and still are, let loose to graze here from spring until mid September.

Aquatic Life

The lakes in the Fjallabak outback are cold. They harbour various small animals and trout as well as plants. For as long as men remember, there have been brown trout and Arctic char in lakes Ljótipollur and Frostastadavatn. From circa 1970, Arctic char were released into other lakes in the area, and the stock has grown so much that most of the lakes in the area are seething with small char.

Water chestnut

Cottongrass

wetlands. Due to the geothermal heat, the vegetation around Landmannalaugar resembles that of the lowlands. Here you will find water chestnuts and delightful

Ancient Resources



Kirkjufellsvatn. Harlequin duck is

river and is known to have laid

The ancient settlers' route of

Landmannaleid lies between land

through the Fjallabak outback. The

and Skaftártunga, cutting right

eggs in the area.

Roads

occasionally seen by Jökulgilskvísl



rock is very loose and all climbing is dangerous. It is best to follow mountain ridges or ravine floors. Streams and rivers are common. Please take special care around



Laugahraun lava fields in Landmannalauga



Birds

As is common for the Icelandic interior, birdlife here is meagre. Great northern diver lays eggs by lakes Frostastadavatn and



joins Landmannaleid just north of lake Frostastadavatn. Few locations are more sensitive to damage from encroachment. Travellers are requested to enquire about the condition of roads before setting off on their trip and to restrict their driving to roads shown on maps.

Hiking Routes

The Fjallabak outback has hiking routes at all levels, a few of which are marked in on the map in this brochure. Hikers are asked to keep the following in mind: the

> is available in hikers' huts in Hrafntinnusker, by Álftavatn lake and in Emstur. Accommodation in these huts needs to be booked in advance.

hot springs, and avoid stepping

you should walk around green

patches, as they are often wet

and are easily trodden out. The

temperature can change verv

is dangerous but easy to avoid

by wearing good sweaters and

wind-proof jackets. You can walk

from Landmannalaugar over to

mapped, and most of it is staked.

Thórsmörk, on a route called

Laugavegurinn. The route is

Overnight accommodation

rapidly due to wind. Hypothermia

into hot mud and water. As a rule,

Sheep farming

In Iceland, sheep are set loose to graze in the mountains over the summer months, with search expeditions setting out to gather them back in autumn. of Landmannaafrétt have long been perilous. The landscape is harrowing, with expanses of gloomy lava meeting black sand deserts, and the weather is harsh and unpredictable. The awe

Such expeditions in the area



was compounded by fear of the unknown, of hidden people, trolls and outlaws. Search parties did not enter Jökulgil gorge in search of sheep until after 1850, for fear of outlaws. The chief resting places are found at Landmannahellir cave and in Landmannalaugar. The cave is said to have held up to 70 horses, while a small hut nestled under the rock slept four men. Others slept in tents around the cave. Since 1907, there has





been an emergency shelter at Landmannahellir cave.

The Landmannalaugar pools have long been a sanctuary for search parties. There was enough grass here to bait 30 horses for up to three days, and the "laugakaffi" coffee made with hot spring water - was thought to have healing powers in addition to being exceptionally tasty. The hut by the stream in Laugar is thought to be very old indeed.

Huts and Camping

The protected area has campsites in Landmannalaugar, Landmannahellir and Hrafntinnusker. There are also hiking huts in Landmannalaugar, Hrafntinnusker and Landmannahellir. There is a caretaker in all huts over the summer months.

Fjallabak Nature Reserve

Fjallabak was designated a nature reserve by a directive in 1979. The reserve reaches over 47 thousand hectares and stands at 500 metres above sea level at its lowest points. The purpose of protecting the area is to preserve it for the enjoyment of many future generations.

Guests are kindly asked to respect the rules of conduct and to do their bit to ensure that both present and future generations get the most out of the area.

Enjoy Your Stay!



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Rules of Conduct:

- Do not drive off roads
- Do not spoil or destroy vegetation
- Do not interrupt wildlife
- Do not liaht campfires
- Dispose of all rubbish in rubbish bins
- Do not build cairns
- Do not write on natural formations
- Do not spoil hot springs and pools
- Do not camp outside designated camp grounds unless you have secured a special permission
- Do not disturb the peace and quiet of the outback unnecessarily



The hut of Iceland Touring Association in Landmannalaugar



Plate tectonics in Iceland



Geology

Along the Mid-Atlantic rift that splits the country from South-West to North-East, two of Earth's tectonic plates are slowly pulling apart. The gap between them is filled by basalt magma that flows up from the Earth's mantle to form new land. The bedrock of the Fjallabak outback was formed some 8-10 million years ago along the North American plate. Volcanic activity restarted in the area around two million years

last inter-glacial period of the ice age can be found under Nordur-Barmur and in Brandsgil gorge. The last eruptions in this area were in the 15th century, North-East of Landmannalaugar. These eruptions resulted in the formation of lakes Veidivötn and Ljótipollur, of lava fieldss Námshraun and Nordurnámshraun and of much of the black sand that covers the northern parts of the nature reserve. The area surrounding Torfajökull glacier contains the country's largest expanse of

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ago, triggered by a southward drift of the Eurasian plate. Hot basalt magma forces its way south, melts the Earth's crust and blends in with it in various proportions. Mixed rock of this sort is found, for instance, in the lava fieldss of Laugahraun, Námshraun, Dómadalshraun and Hrafntinnuhraun. There was much volcanic activity in the area in the last glacial period of the ice age, creating the tuff mountains Lödmundur and Mógilshöfdar, as well as the rhyolite mountains Bláhnúkur, Brennisteinsalda and Kirkjufell. Rhyolite lava from the

terrain, etc.

terrain. Can be dangerous in poor conditions for the inexperienced.

rhyolite. When cooled abruptly, rhyolite magma turns into shiny black volcanic glass (obsidian). Otherwise, rhyolite normally comes in grey, yellow, pink or green. As testified by the numerous pools and hot springs found here, the Torfajökull area is one of the country's main geothermal areas. It is classified as an active central volcano. Some geologists believe that there was once an enormous volcano here sitting on a magma chamber underneath, and that a drop in the chamber's pressure resulted in the volcano's top



Fjallabak reserve border





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