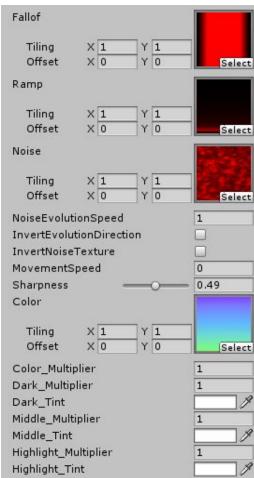
AuroraBorealis Pack v1.0

How the package works:

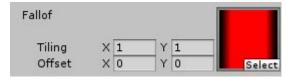
This model pack contains different aurora borealis models. This little guide will help you to understand how to use it. The volume effect is achieved due to 3D models with a large number of overlapping planes. Then these planes was cut outed using alpha clipping in the shader which helps with performance. At the end, the shader draws for each plane an individual layer and they all add up to create this volumetric effect.

All these models should be used with AuroraBorealis shader which ships with this pack.

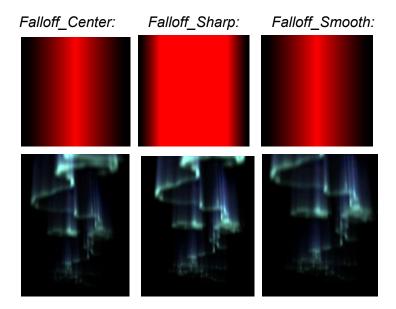
AuroraBorealis shader parameters



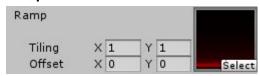
Fallof texture



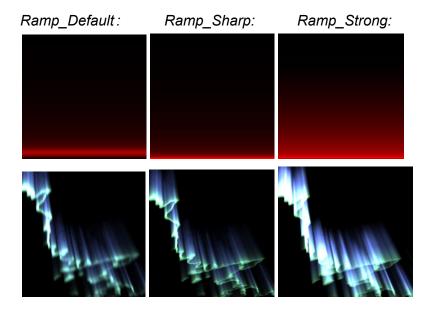
This texture controls the masking on the edges of the model. You can use any texture from "AuroraBorealisPack/Textures/Falloff"



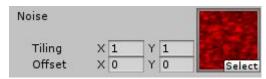
Ramp texture



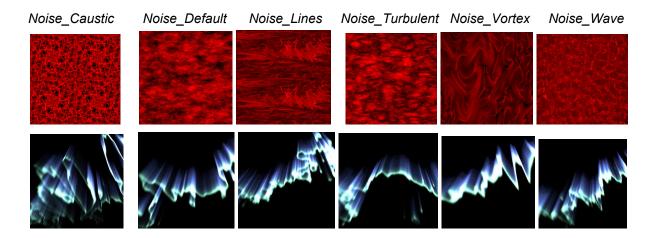
This texture controls the vertical distribution of density.
You can use any texture from "AuroraBorealisPack/Textures/Ramps"



Noise texture



This texture controls movement and overall shape of the effect. You can use any texture from "AuroraBorealisPack/Textures/Noises"



NoiseEvolutionSpeed



Controls the speed of shape animation.

InvertEvolutionDirection

InvertEvolutionDirection

If enabled this parameter will invert the direction of shape animation.

InvertNoiseTexture

InvertNoiseTexture

If enabled this parameter will invert the noise texture.

MovementSpeed



This parameter controls the offset speed of the effect.

Sharpness

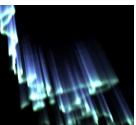


Controls the sharpness of the shape.

Sharpness = 0



Sharpness = 1

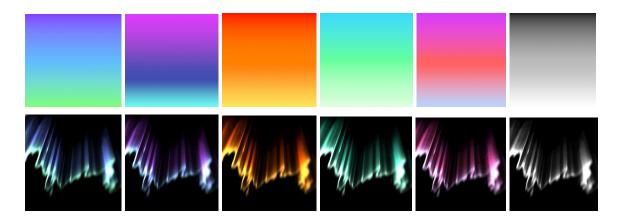


Color texture



This texture controls the vertical distribution of color.

You can use any texture from "AuroraBorealisPack/Textures/Colors"



If you want a custom color for your effect then you should use "Color_Grayscale" texture with combination of "Dark_Tint", "Middle_Tint" and "Highlight_Tint" parameters.

Color_Multiplier



Color of effect will be multiplied by this value.

Dark_Multiplier



Color of dark zones will be multiplied by this value.

Dark_Tint



Color of dark zones will be tinted by this color.

Middle_Multiplier



Color of middle zones will be multiplied by this value.

Middle_Tint



Color of middle zones will be tinted by this color.

Highlight_Multiplier



Color of highlight zones will be multiplied by this value.

Highlight_Tint



Color of highlight zones will be tinted by this color.

Using AuroraBorealis Pack in your scene.

In this pack you can find 4 different types of models:

- Plane
- Arc 90 degrees
- Arc 180 degrees
- Curves

Each of these model types have 5 levels of quality (50, 100, 150, 200, 300).

These quality levels define the count of overlapping planes. More overlapping planes means the better quality, but this affects the performance.

For example if you want very high quality straight auroras you should use

"Plane_Subdivs300" model. If you creating a game for mobile device and you want a very curved auroras then you should use "Curve01_Subdivs50".

To create a new aurora you should add any model from this pack to your scene.

Then create a new material and apply "AuroraBorealis_Pack/AuroraBorealis" shader to it. In the end you should add the textures to your material. You can use any textures from corresponding folders. For example for "Falloff" texture you can use any texture from "AuroraBorealisPack\Textures\Falloff".

Or just apply any material that ships with this package to the model.