

Final Assignment - Location photography

Hong Zhou

Teacher Kevin Gater
Models Models

Moodboard

Astrophotography Portraits



Location

Location and desired moments



16:15

Scouted the location in the afternoon
to see the location more clearly.



23:13

Desired moment, but the lights
of Sidsjönbacken were still on..



23:42

All of the sudden the lights switched
off. Perfect moment aquired, except
for the light pollution it's the perfect
moment.

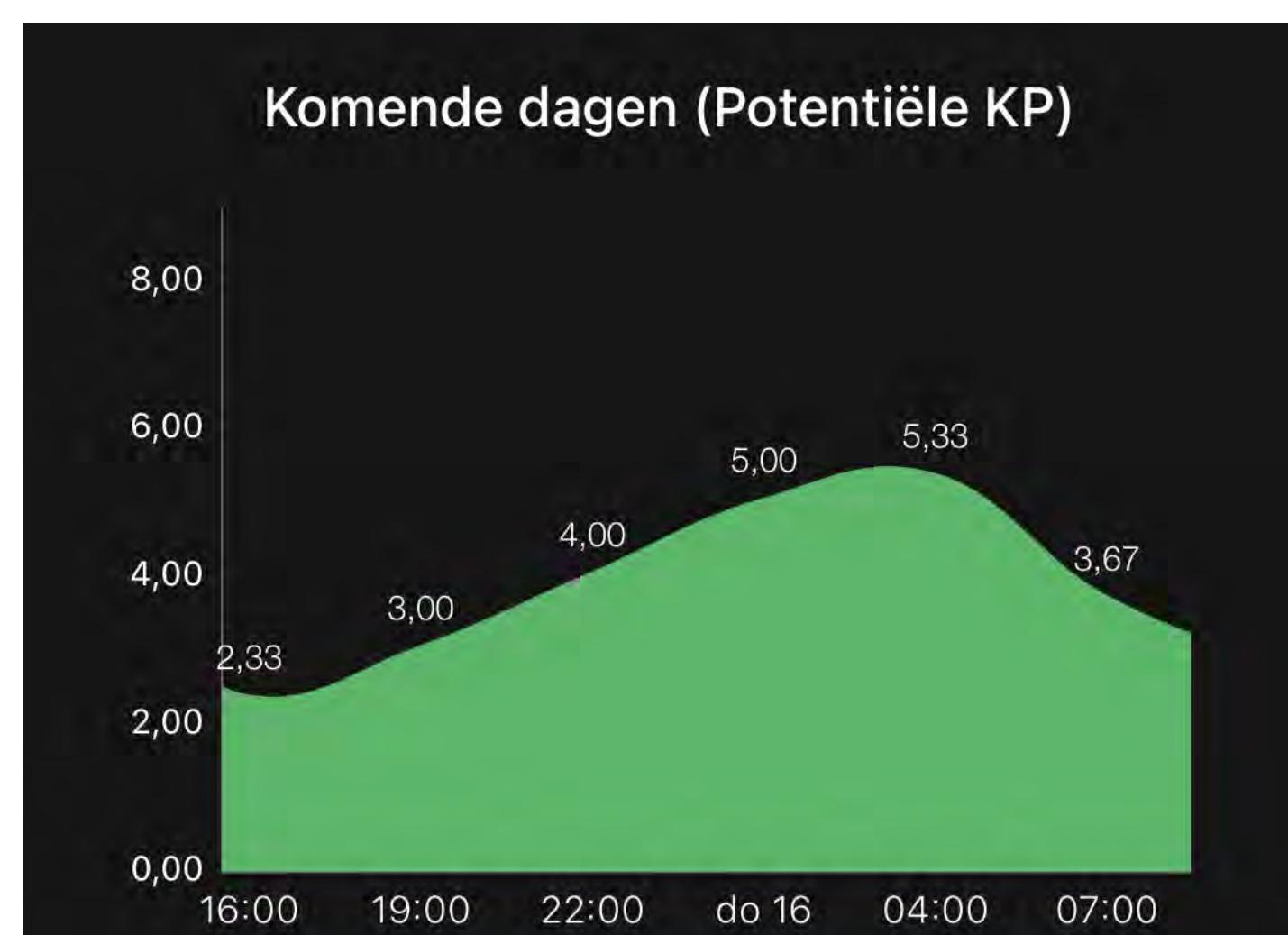
Location

Location and desired moments

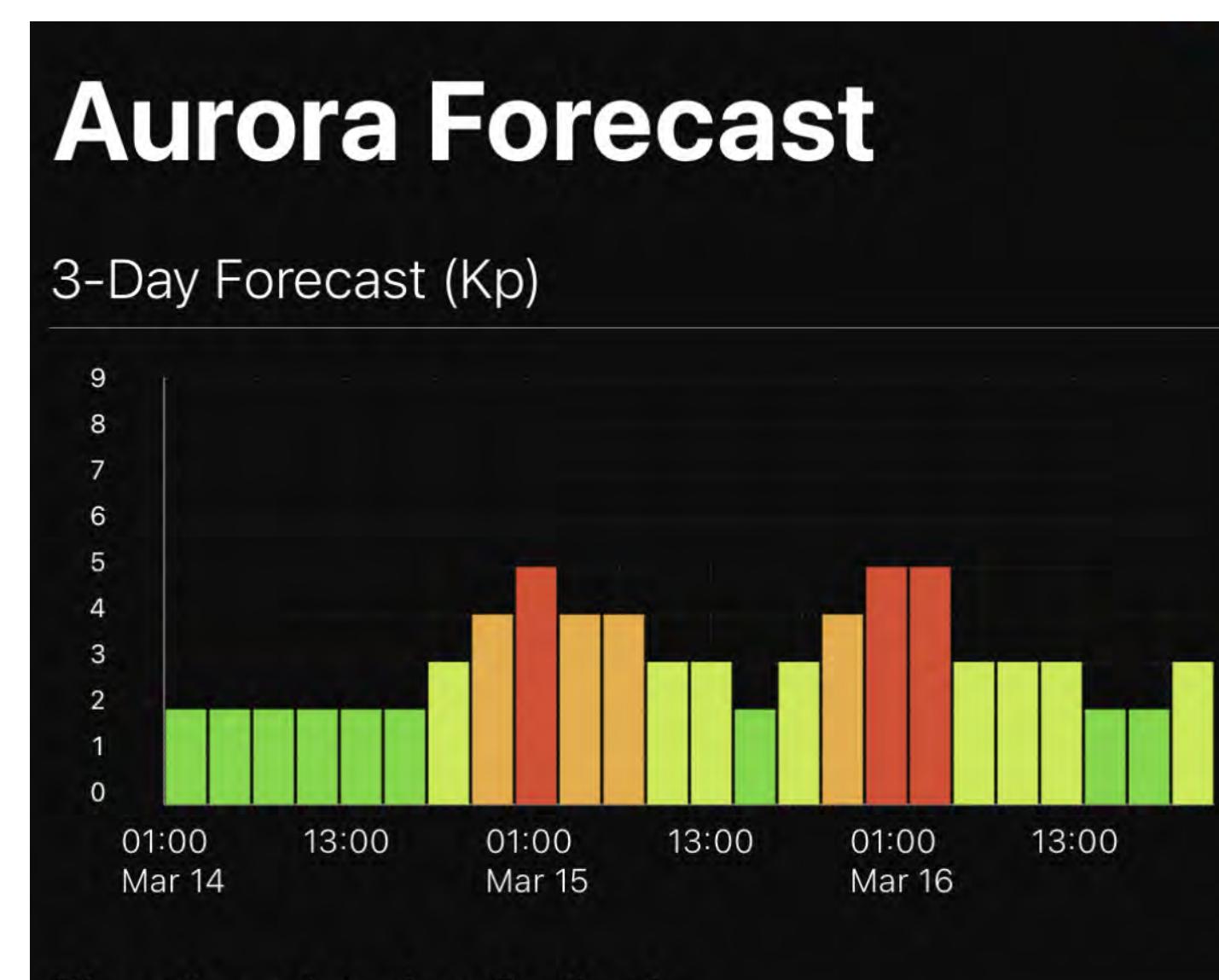
Wednesday 18:00 - Thursday 05:00 weather.

18		-1°	5 (9) →	Gentle breeze from west with gusts at 9 m/s
19		-2°	4 (8) →	Gentle breeze from west with gusts at 8 m/s
20		-4°	3 (6) →	Light breeze from west with gusts at 6 m/s
21		-5°	3 (6) →	Light breeze from west with gusts at 6 m/s
22		-5°	3 (6) →	Light breeze from west with gusts at 6 m/s
23		-5°	3 (6) →	Light breeze from west with gusts at 6 m/s
00		-6°	3 (6) →	Light breeze from west with gusts at 6 m/s
01		-6°	3 (6) →	Light breeze from west with gusts at 6 m/s
02		-7°	3 (6) →	Light breeze from west with gusts at 6 m/s
03		-7°	3 (5) →	Light breeze from west with gusts at 5 m/s
04		-7°	3 (5) →	Light breeze from west with gusts at 5 m/s
05		-8°	3 (5) →	Light breeze from west with gusts at 5 m/s

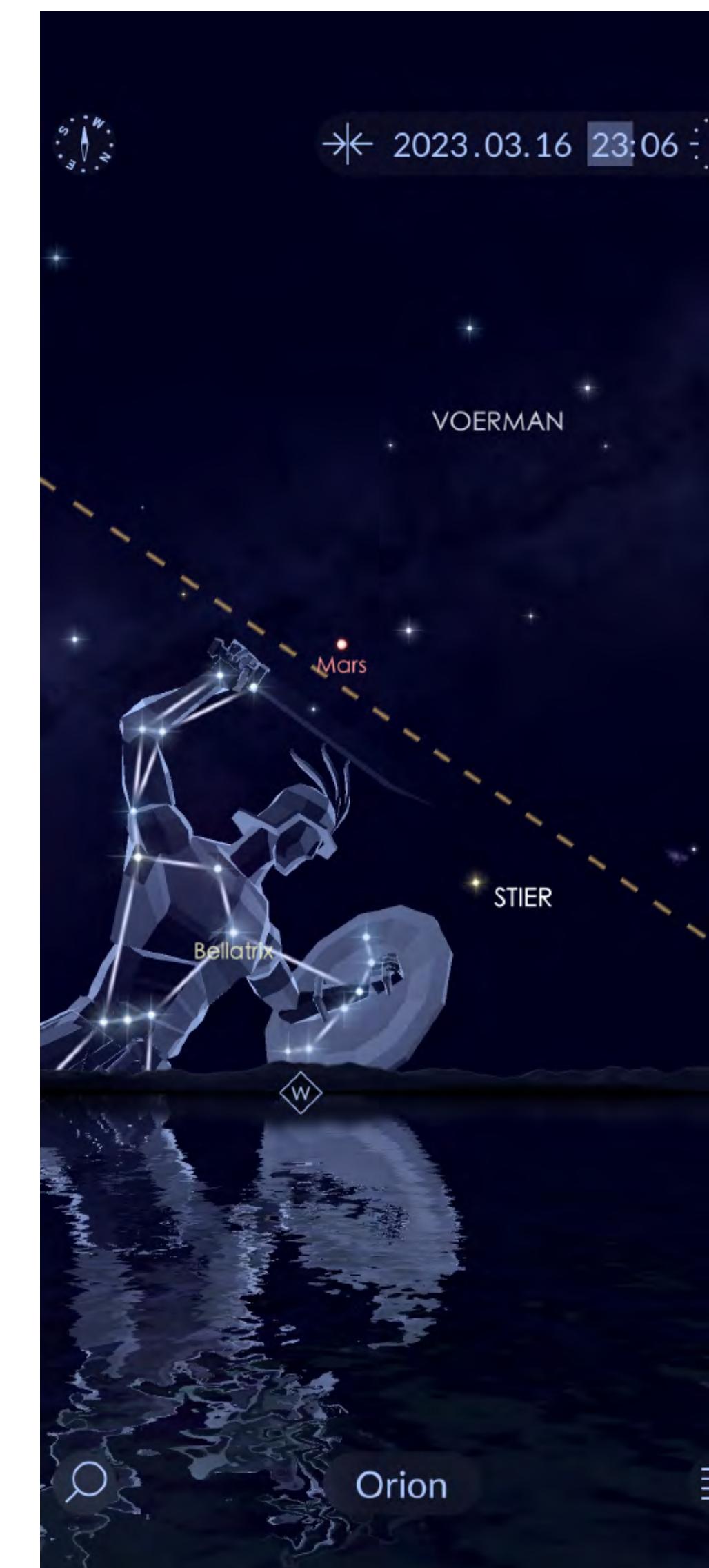
KP-index



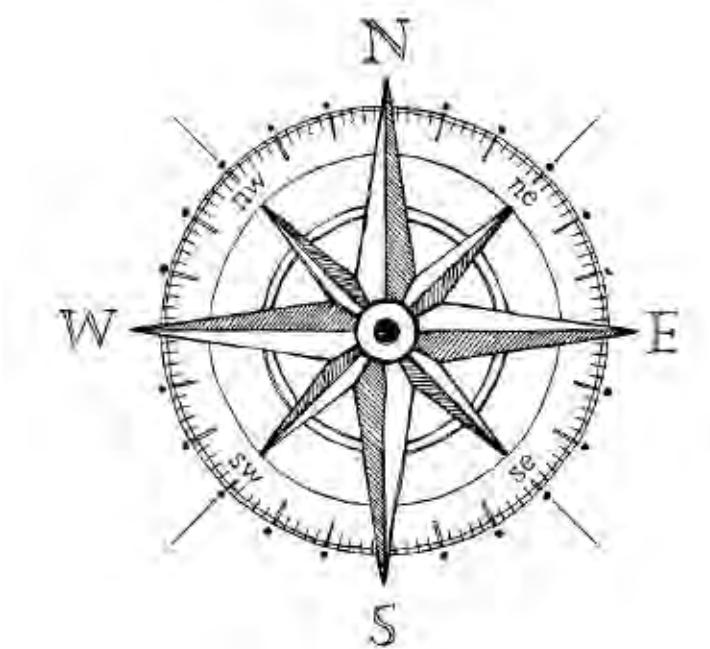
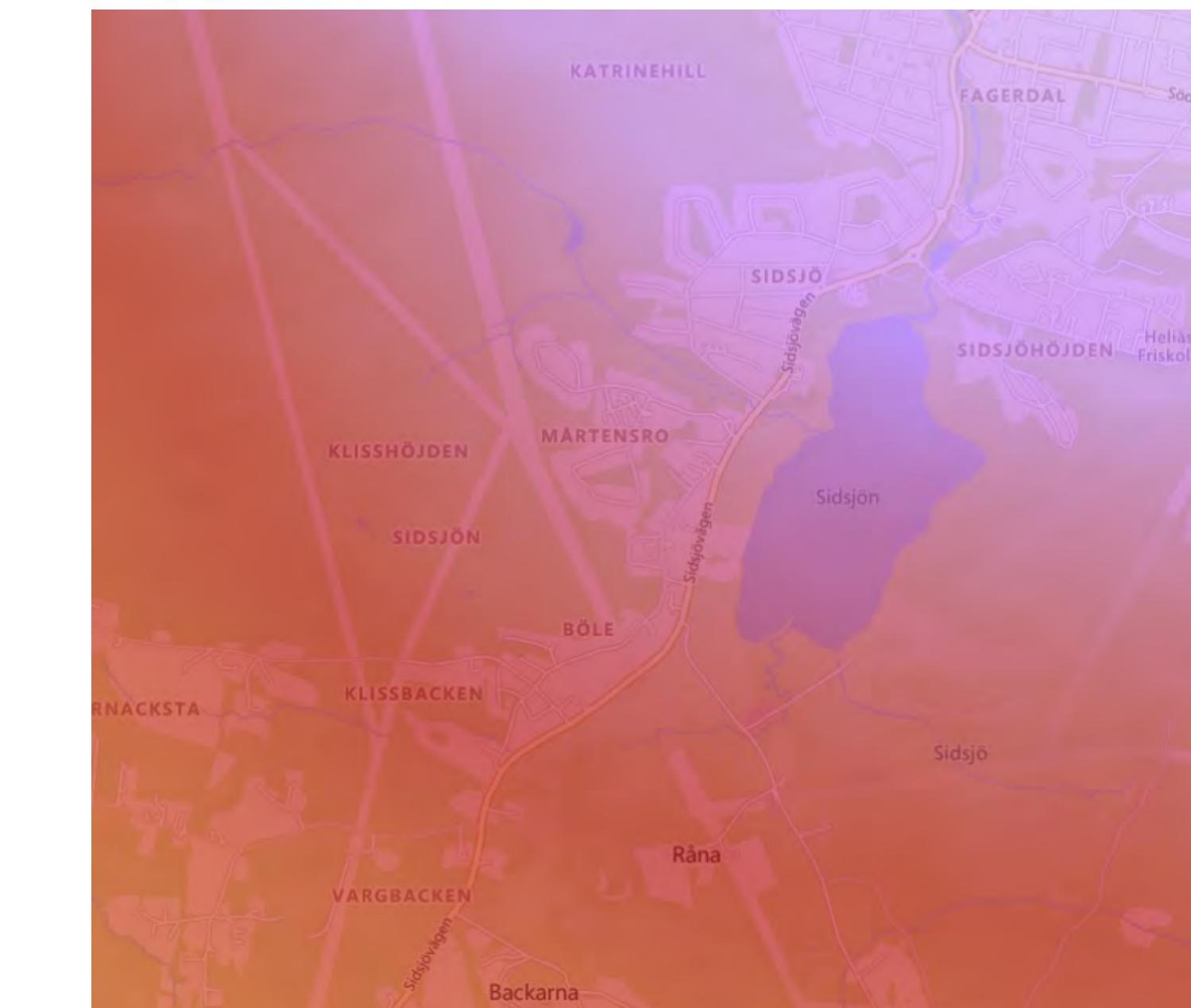
Aurora



Aurora Fcst



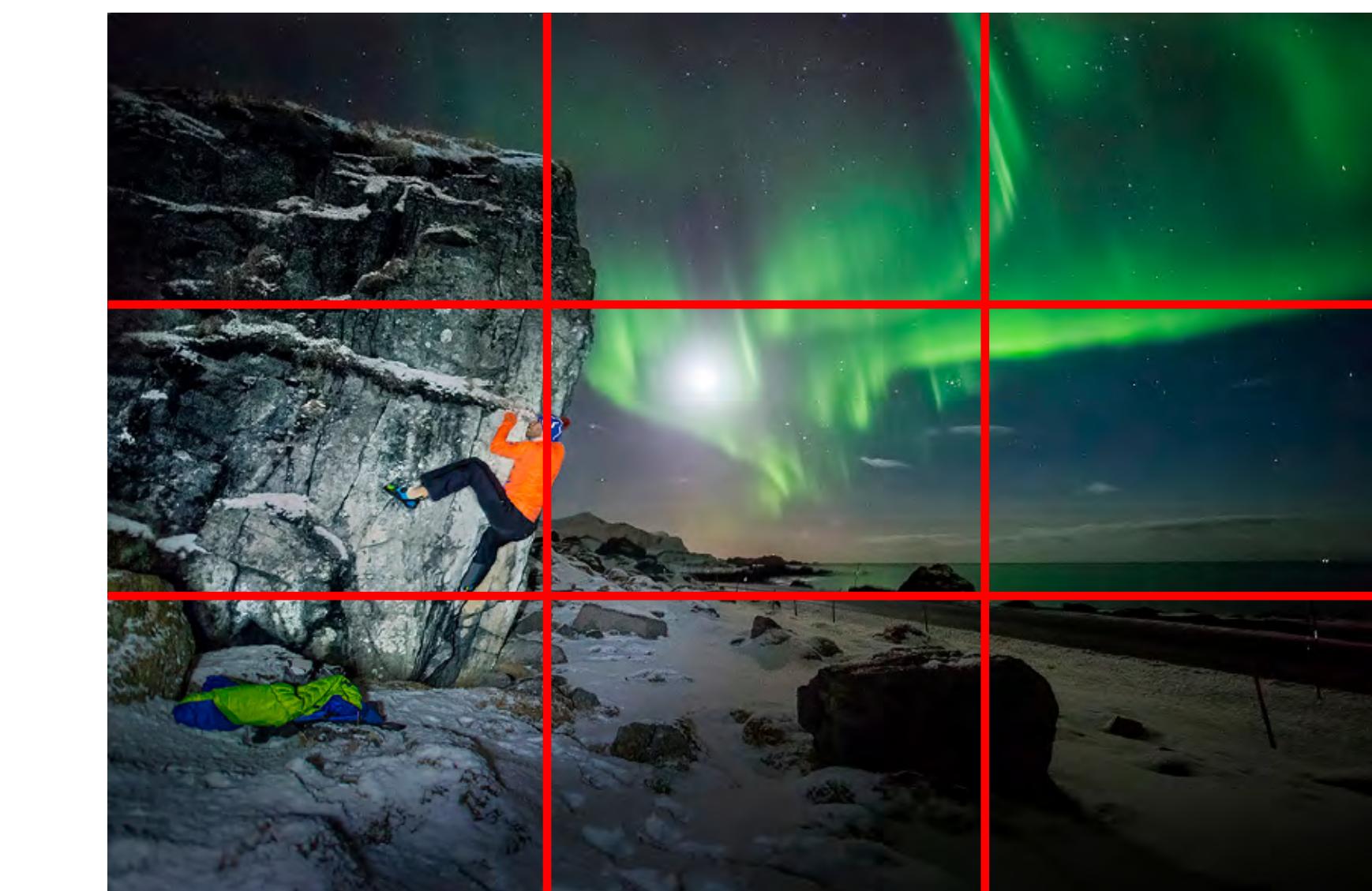
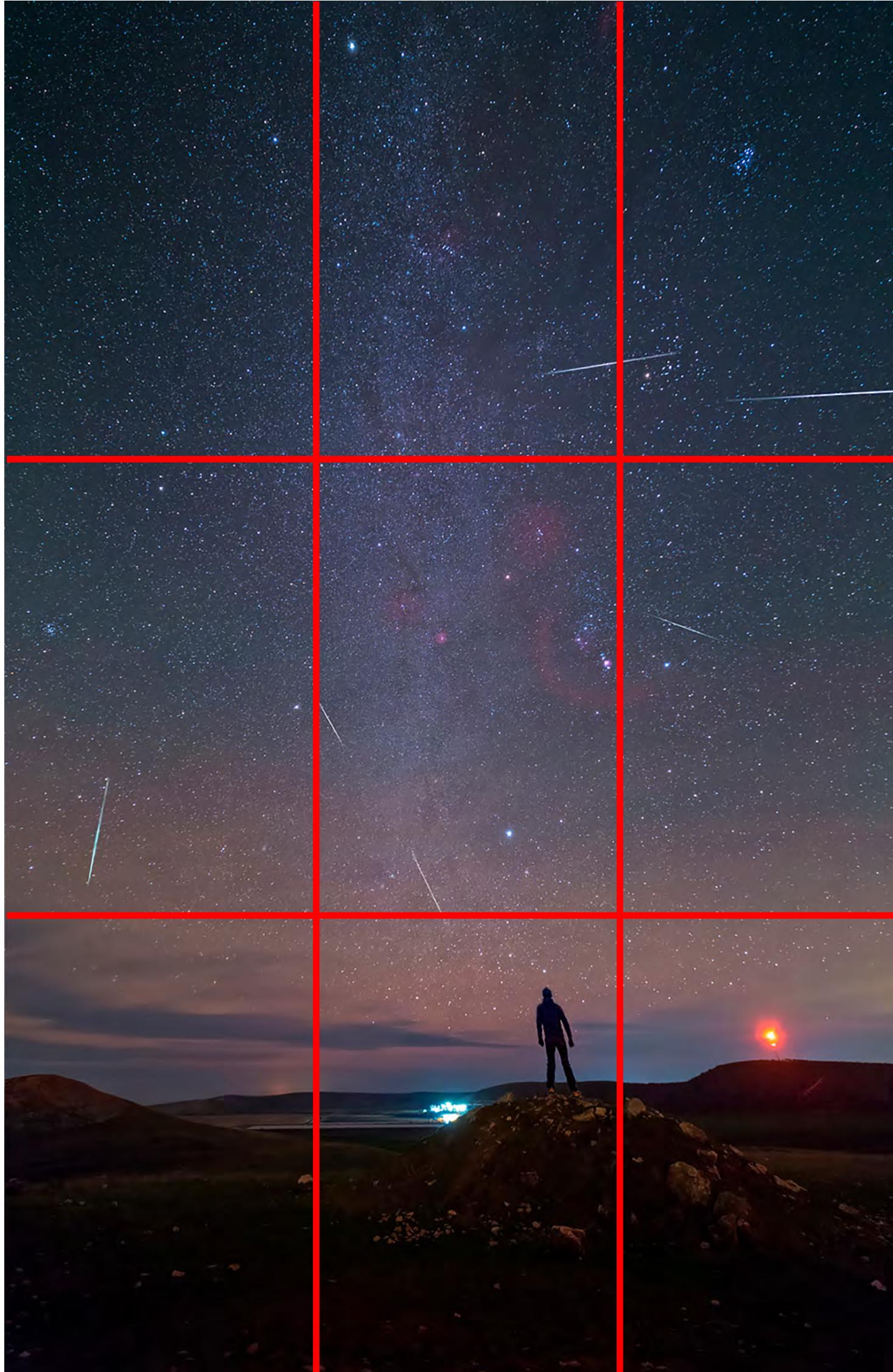
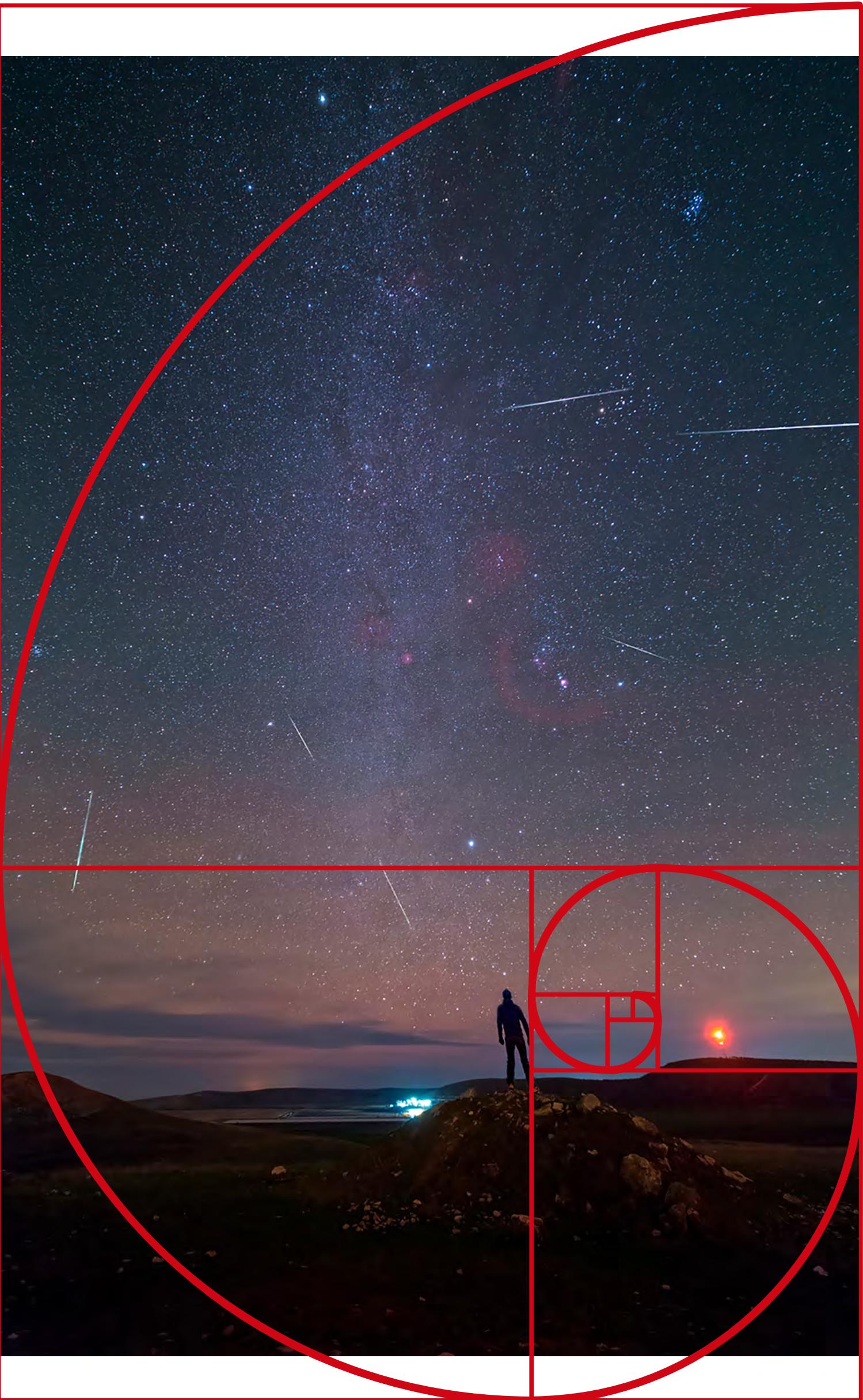
Light pollution



After around 23:00 the lights will go off around the lake

Composition

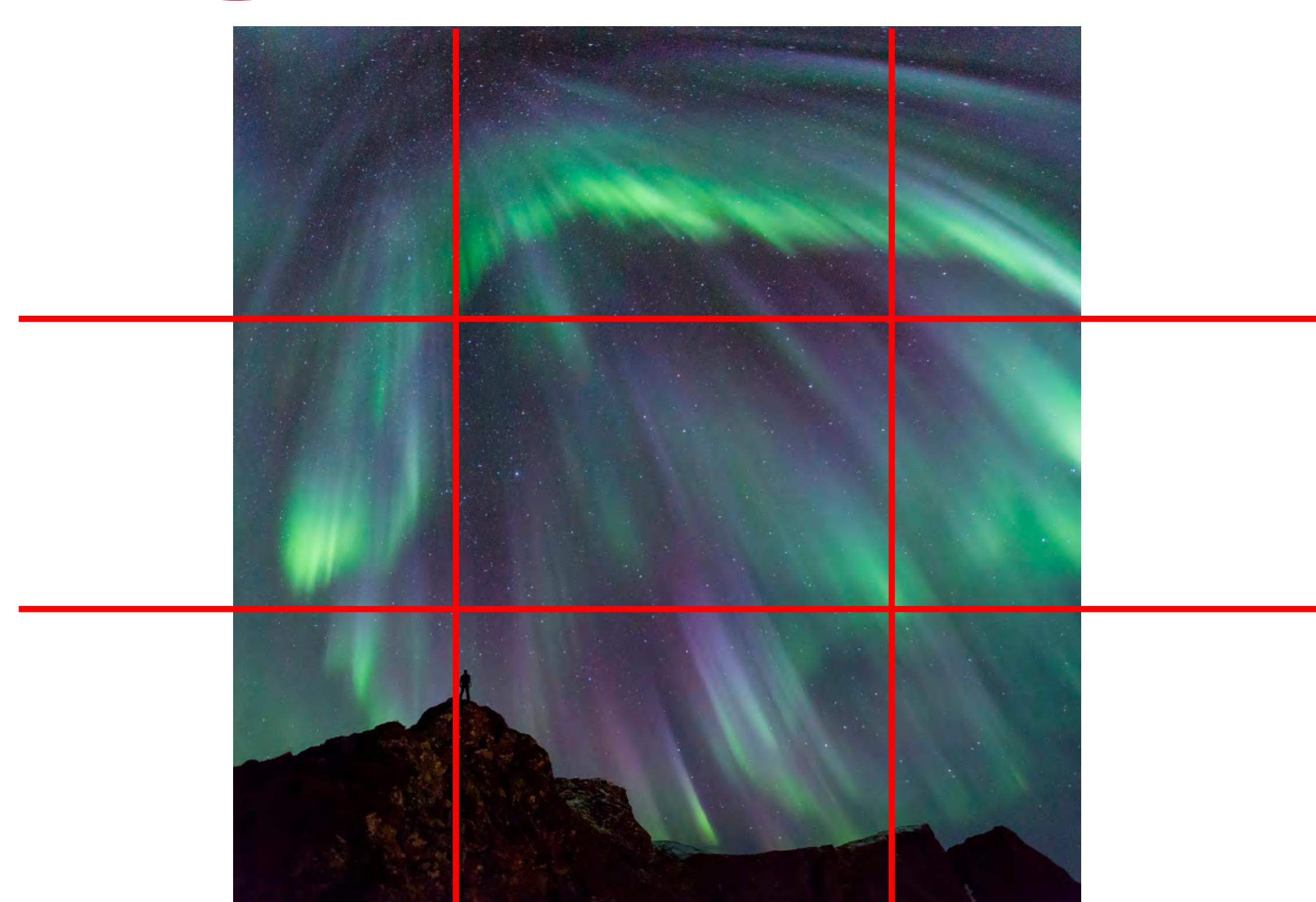
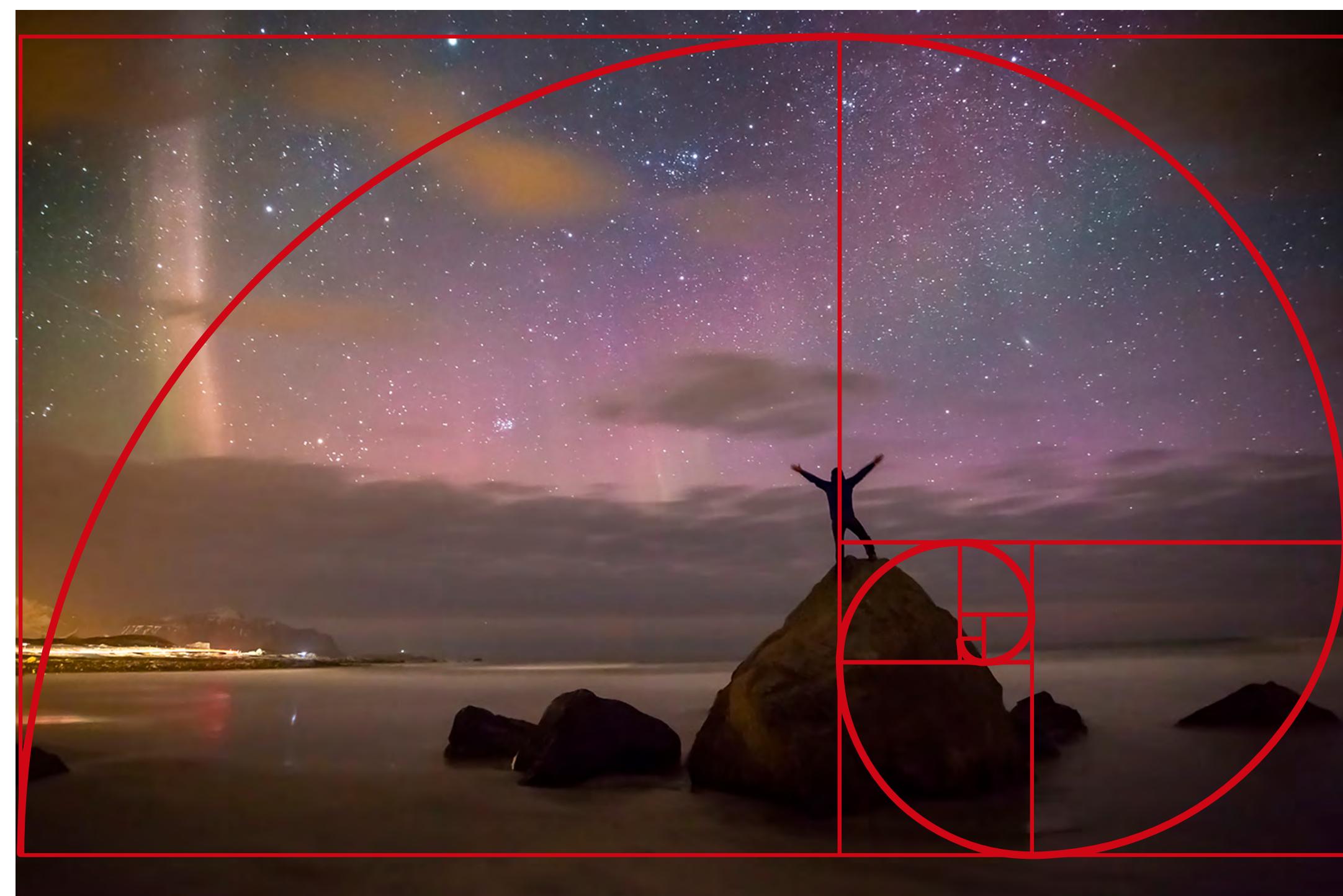
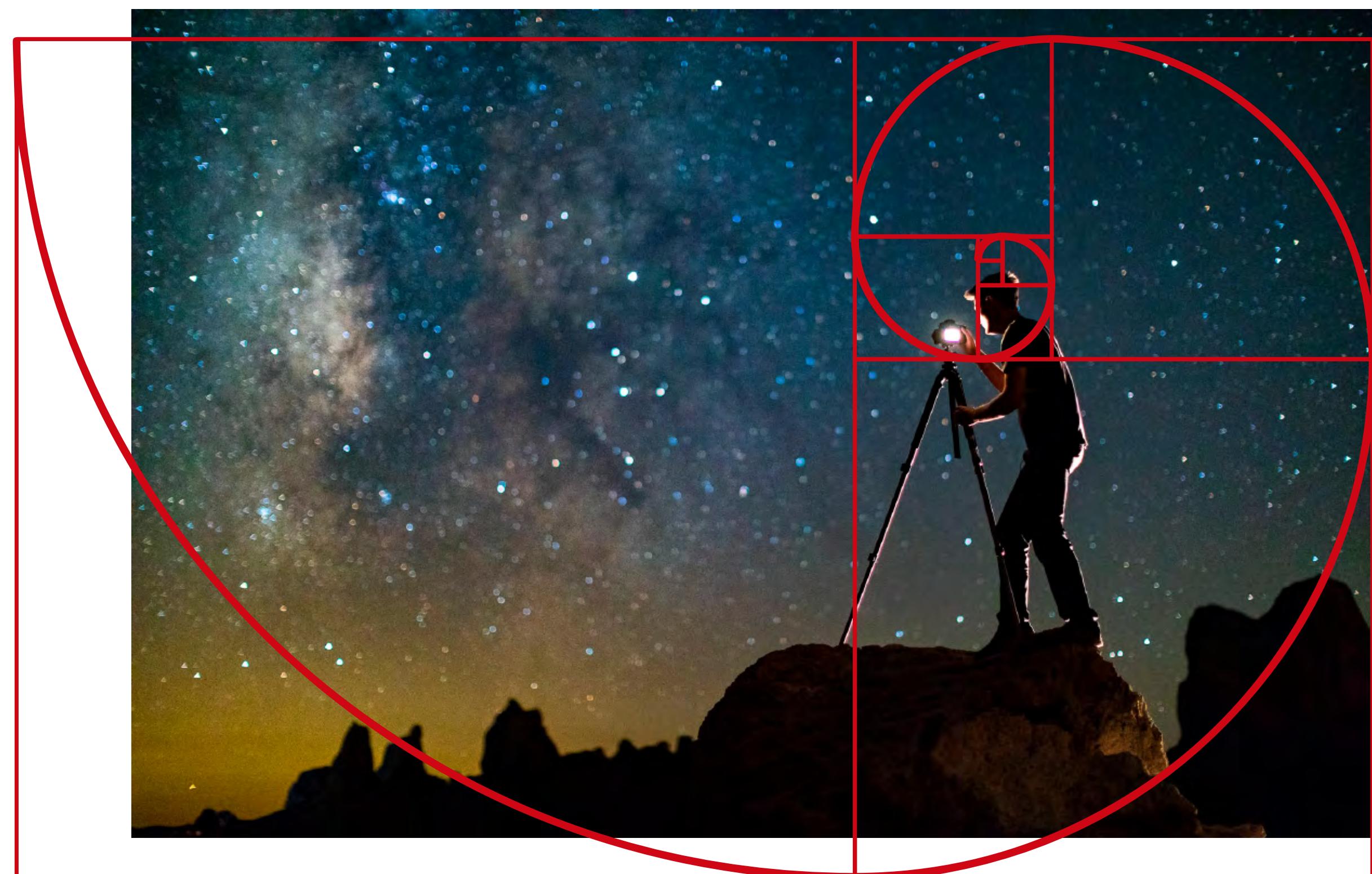
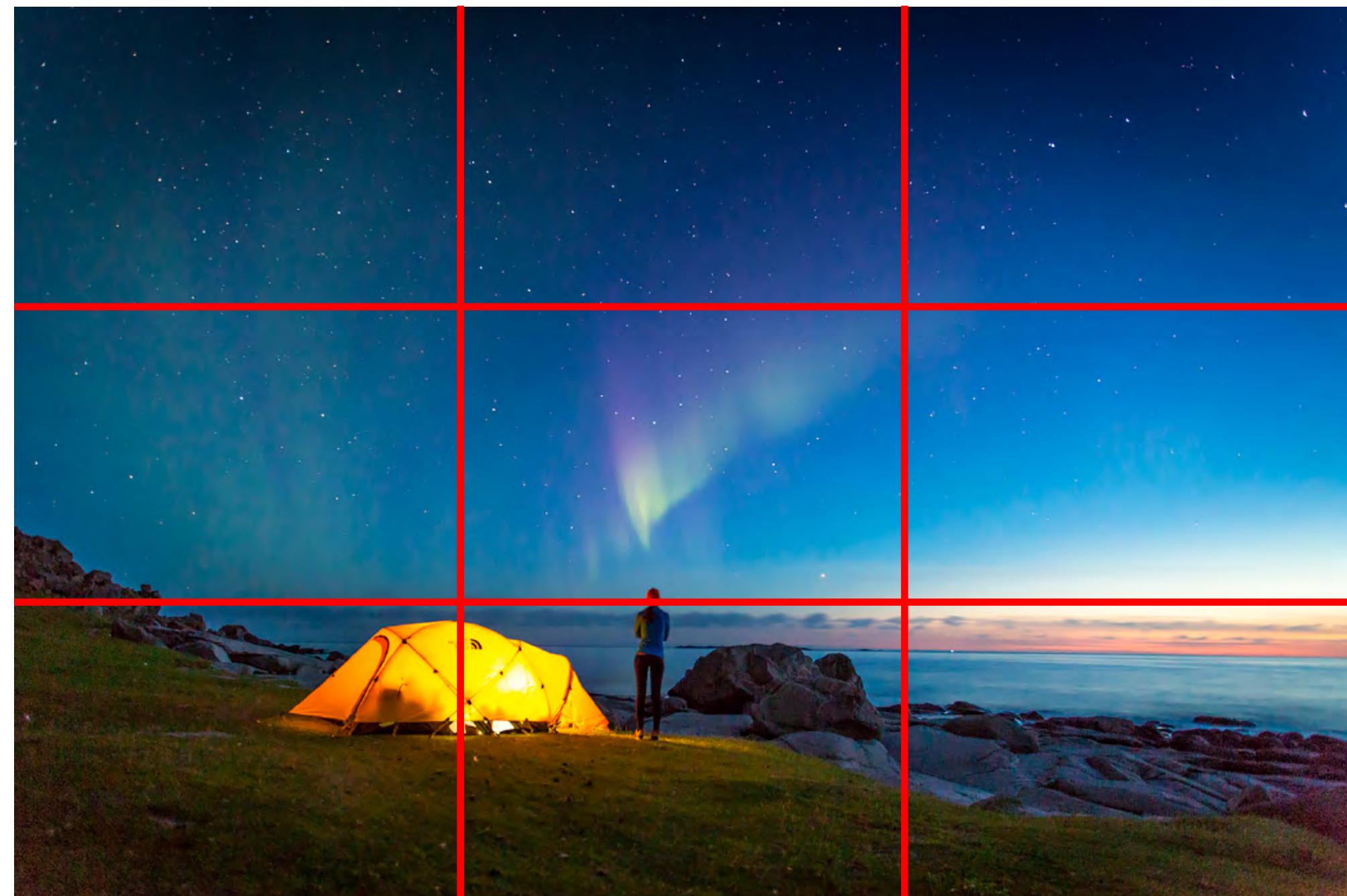
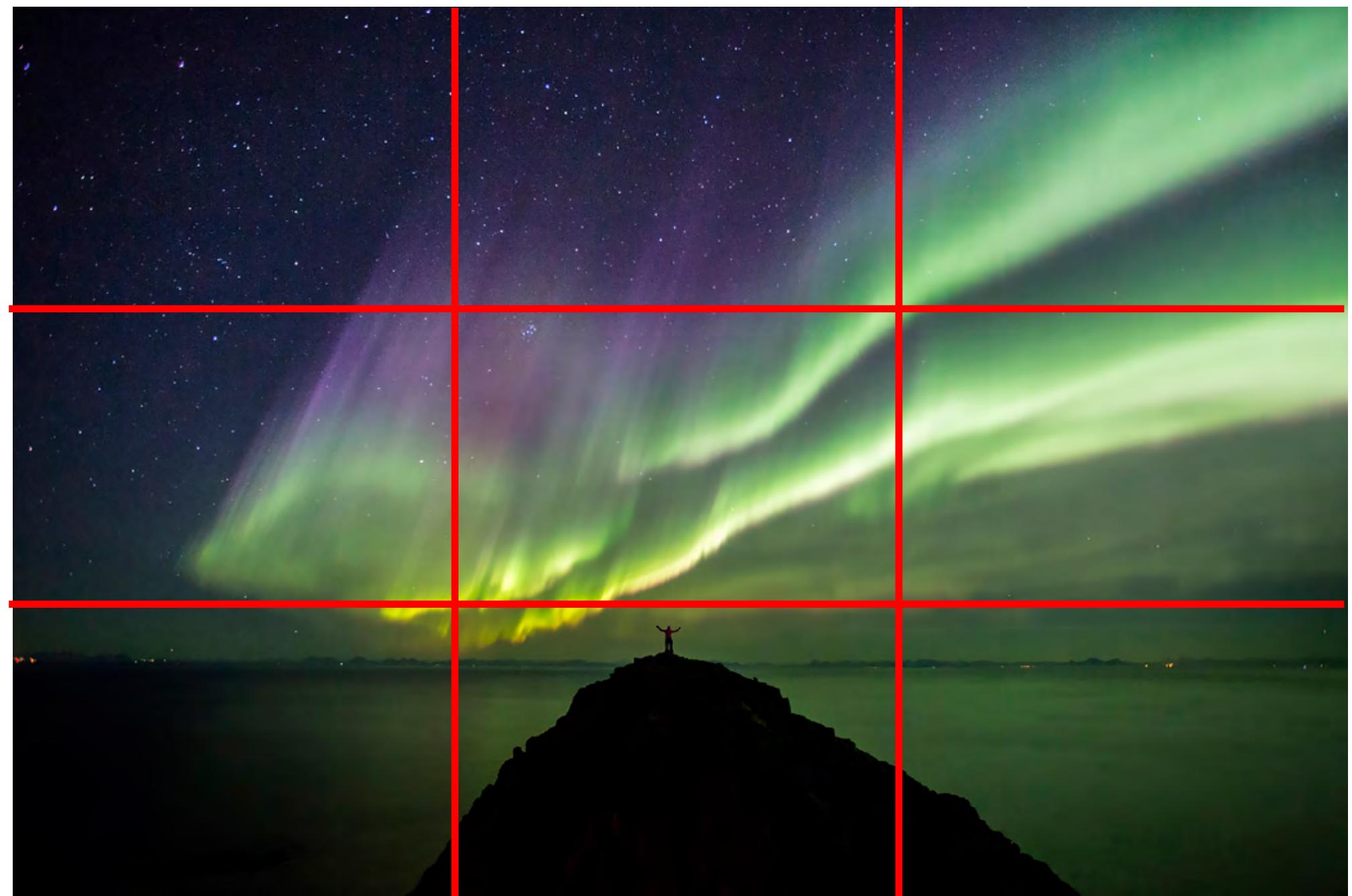
Framing with Light



- Researched astrophotographs of other people to see what their composition looked like especially where they put their subject

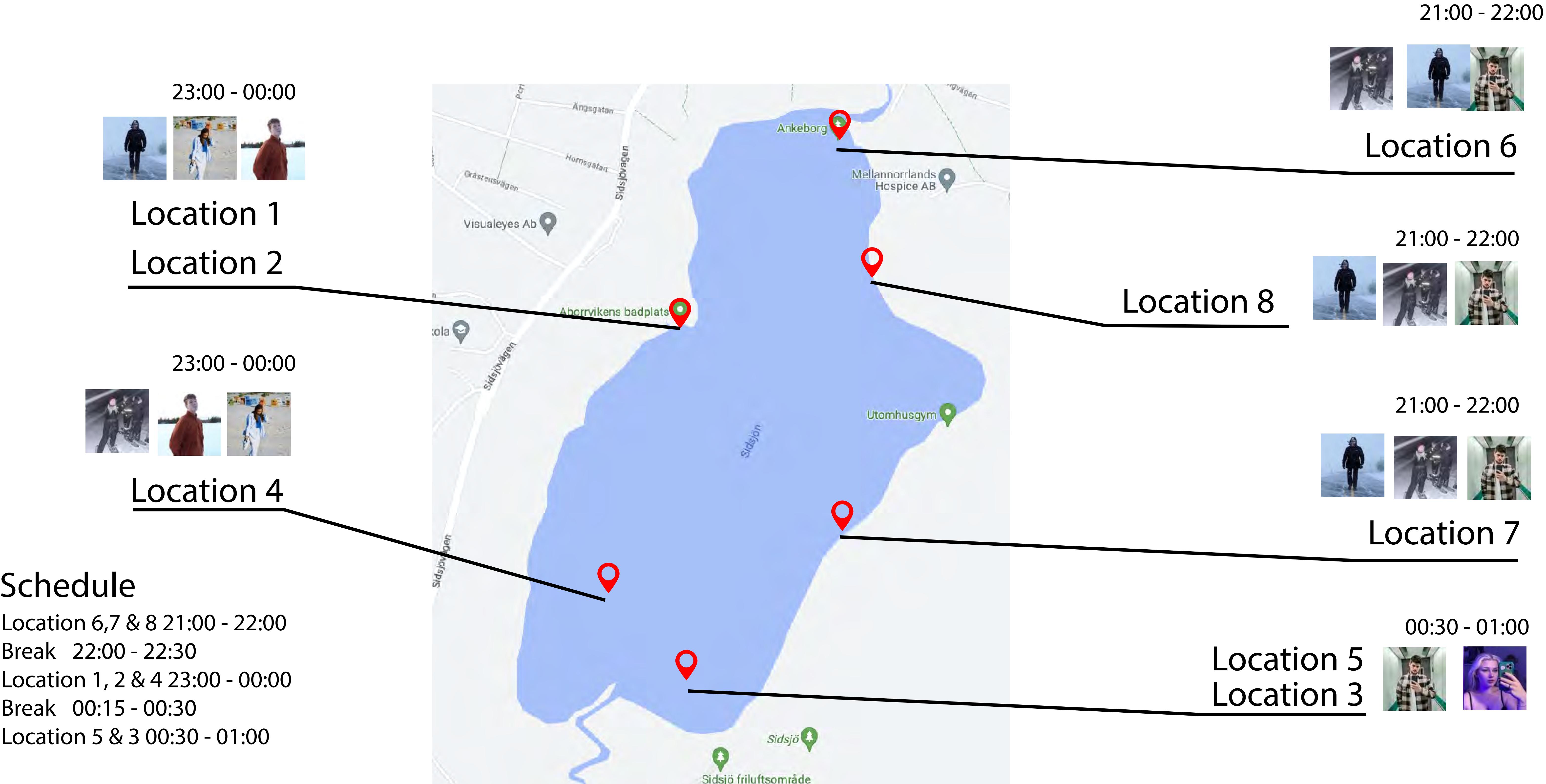
Composition

Framing with Light



Schedule 15.3.2023

Locations



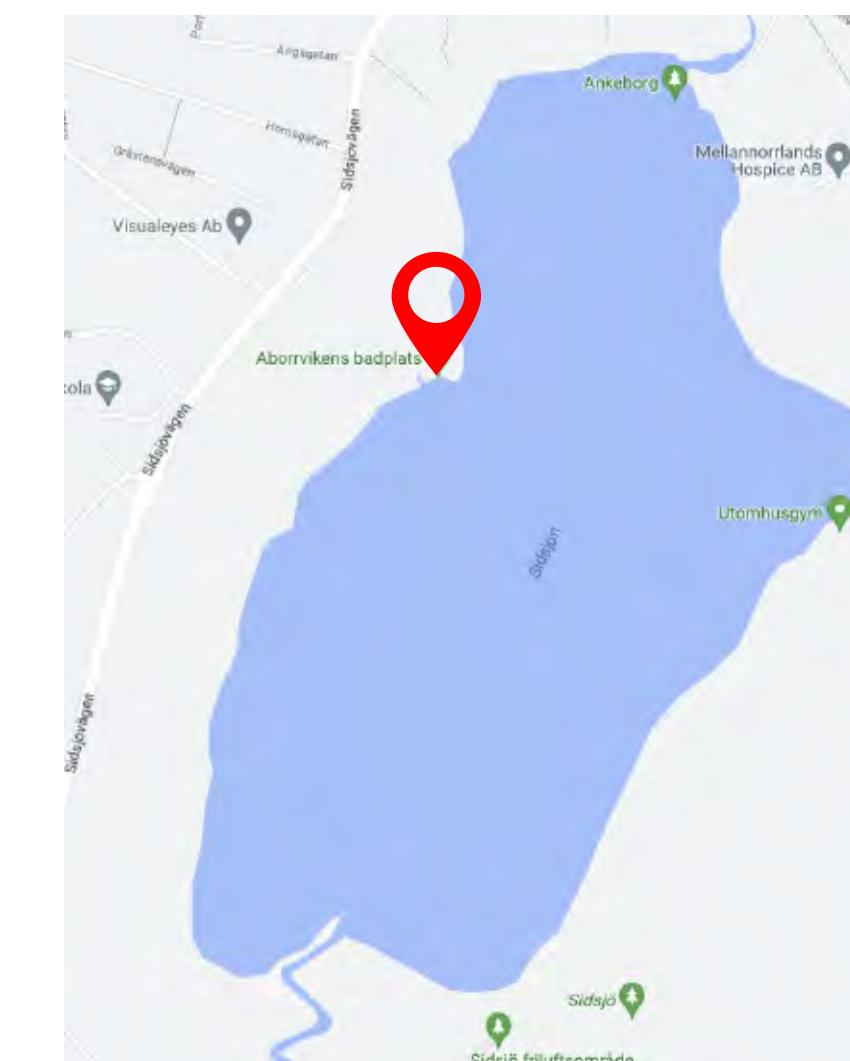
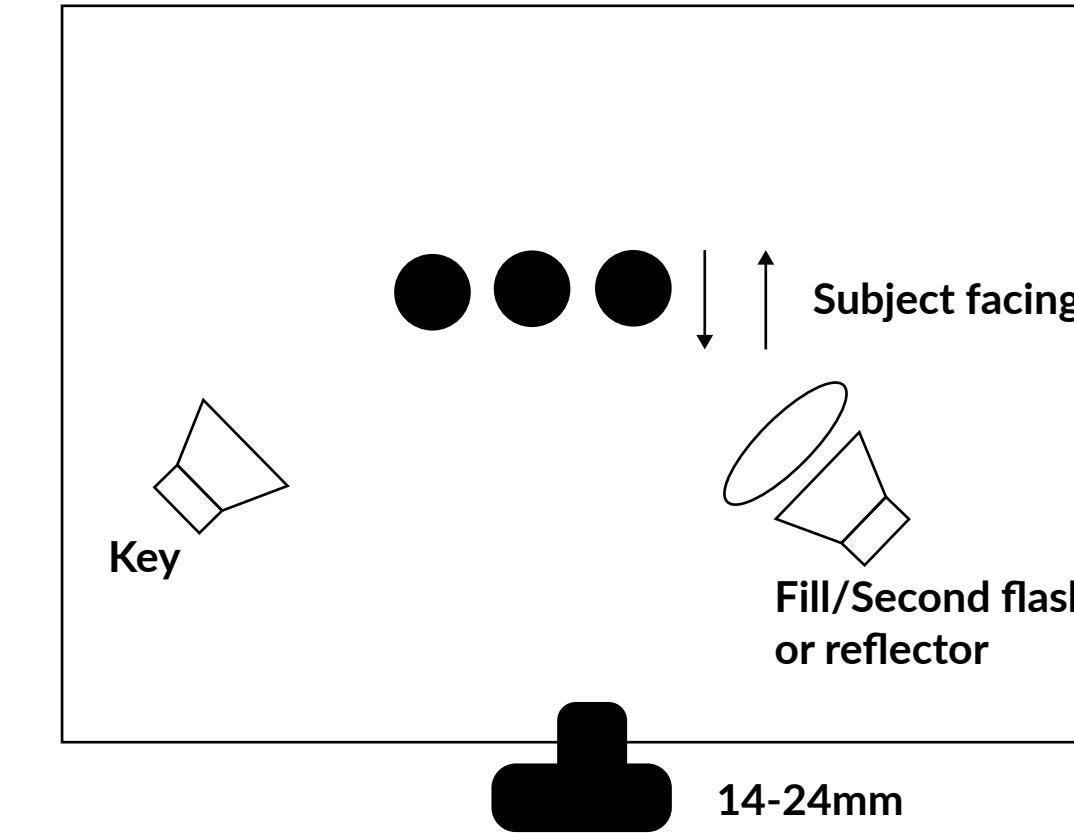
Flash equipment

Set ups

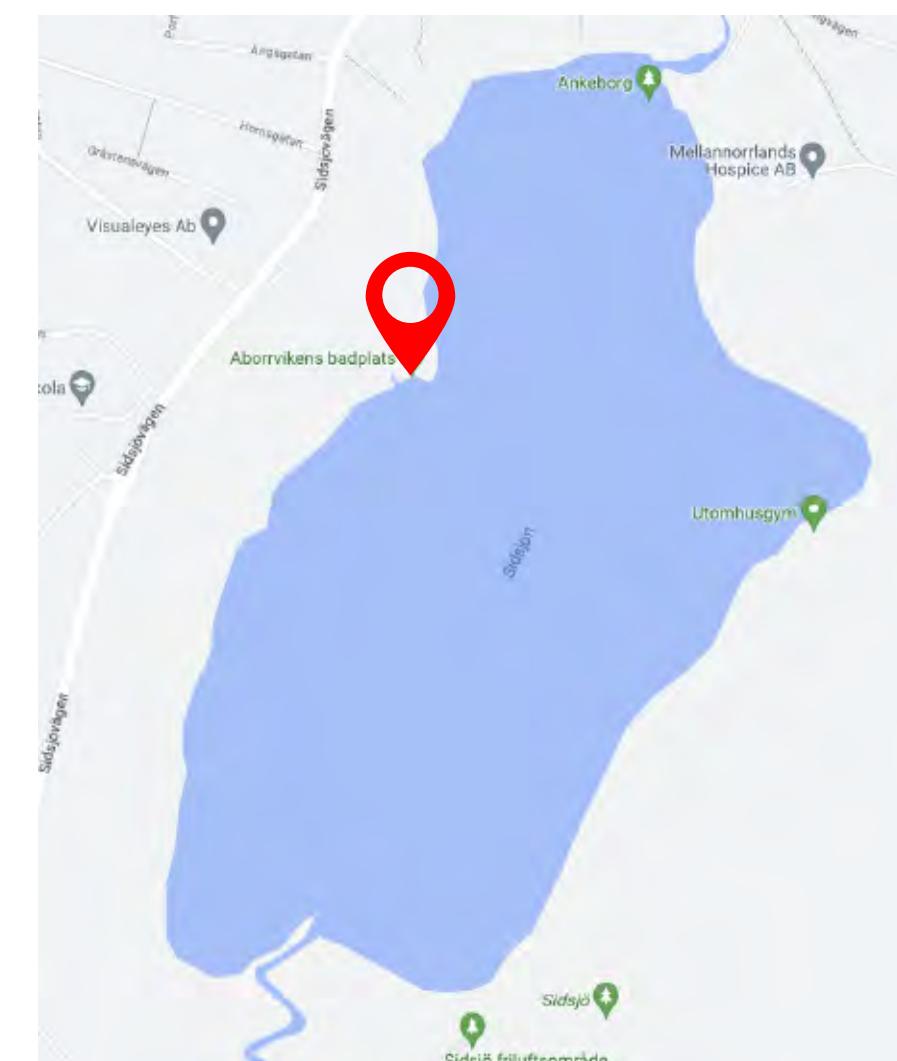
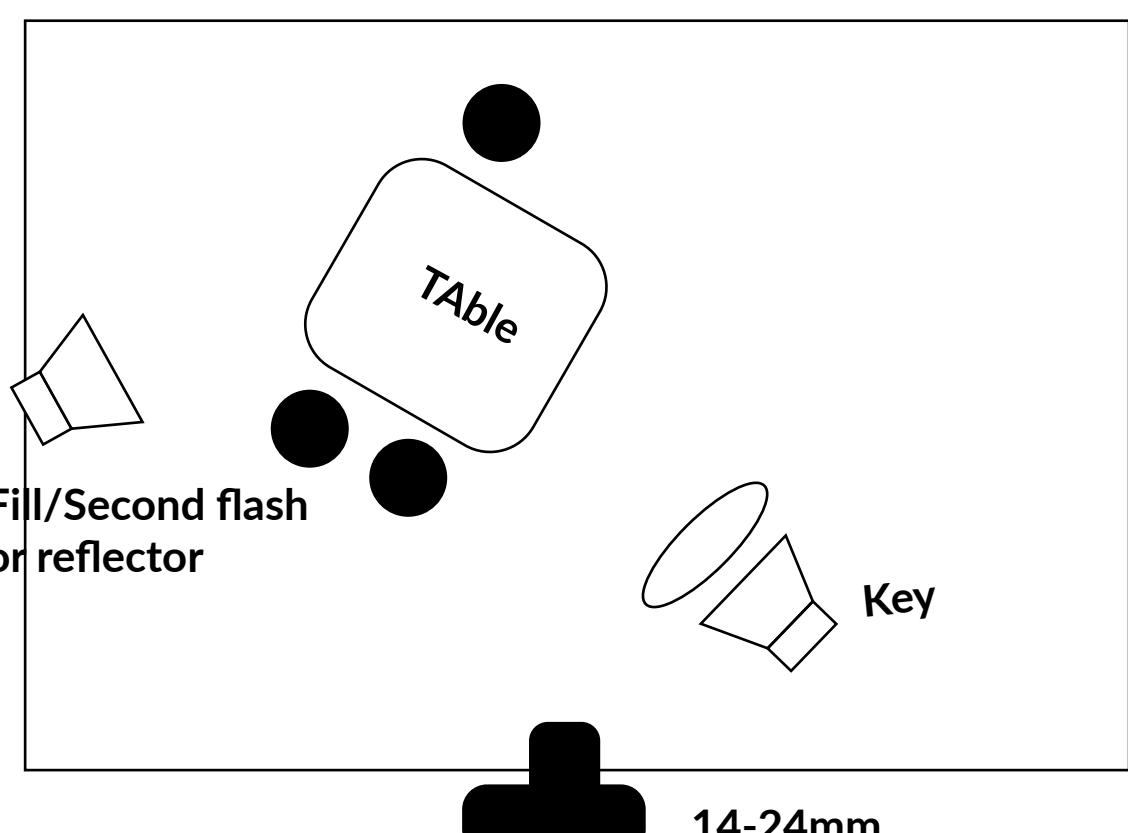
All photos are double exposure one foreground and one background



Location 1



Location 2



► Location 1

- ◀ Ideal situation
 - Stars
 - Aurora Borealis

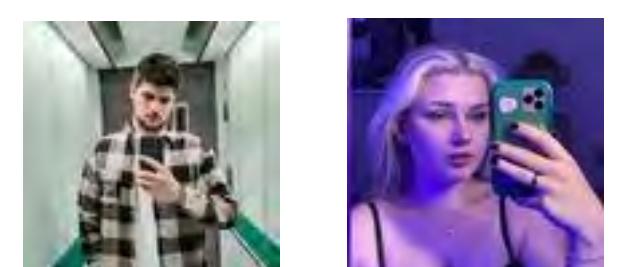
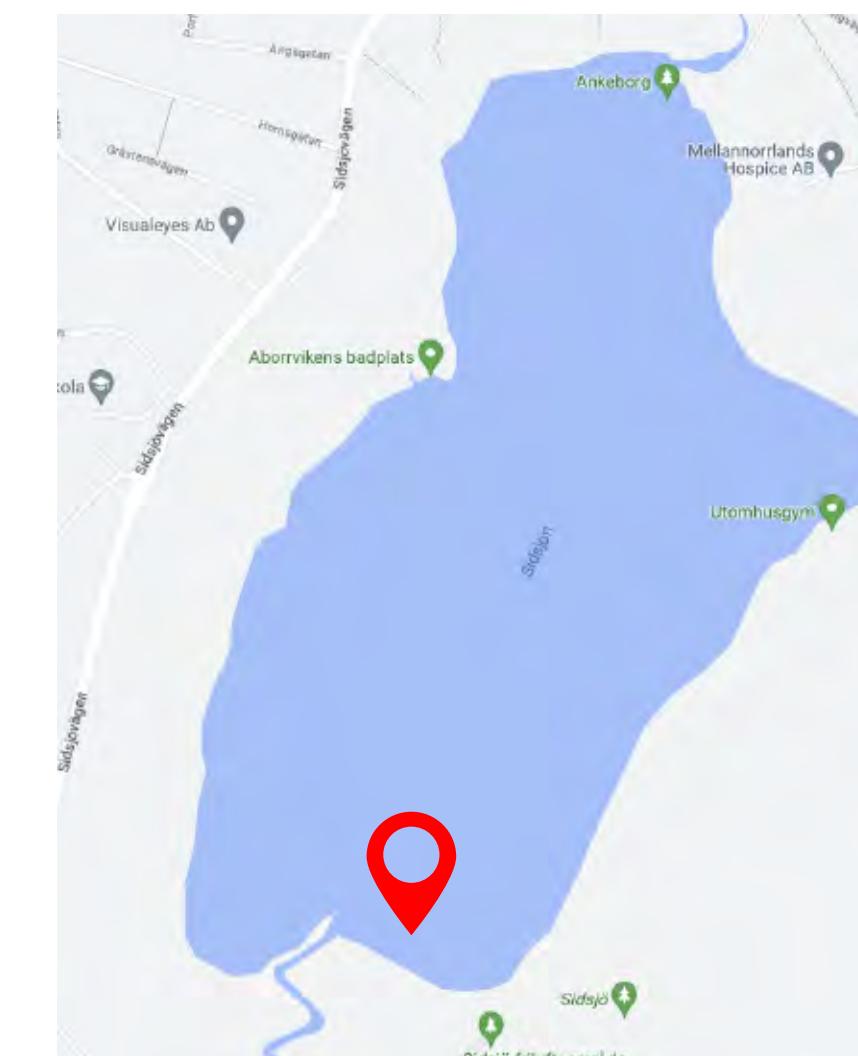
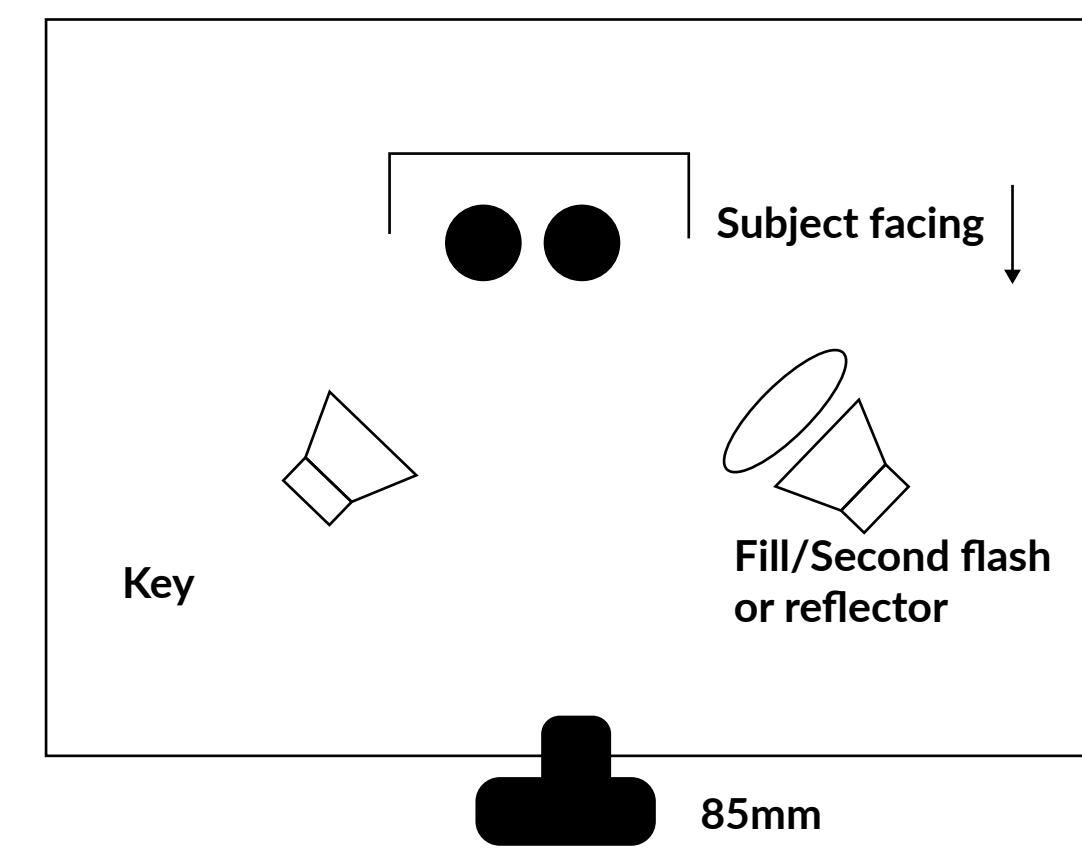
► Location 2

- ◀ Ideal situation
 - Aurora Borealis
 - Stars

Flash equipment

Set ups

All photos are double exposure one foreground and one background

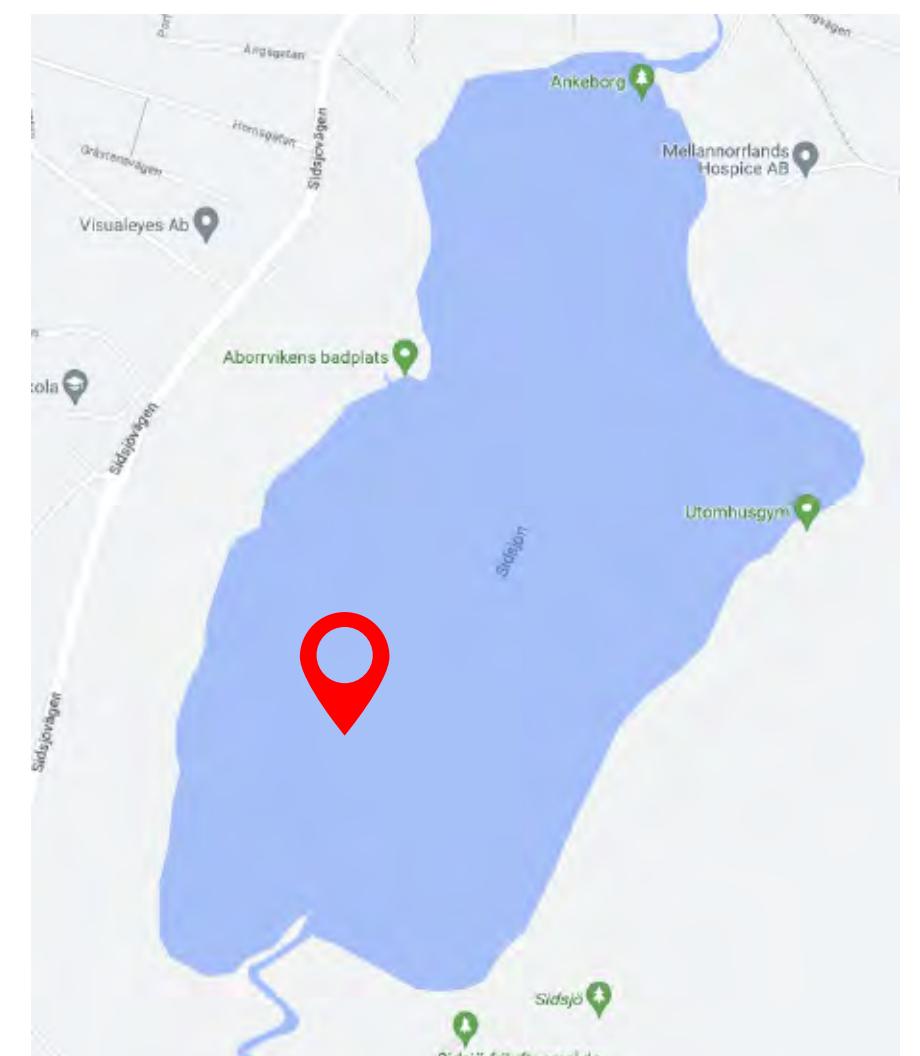
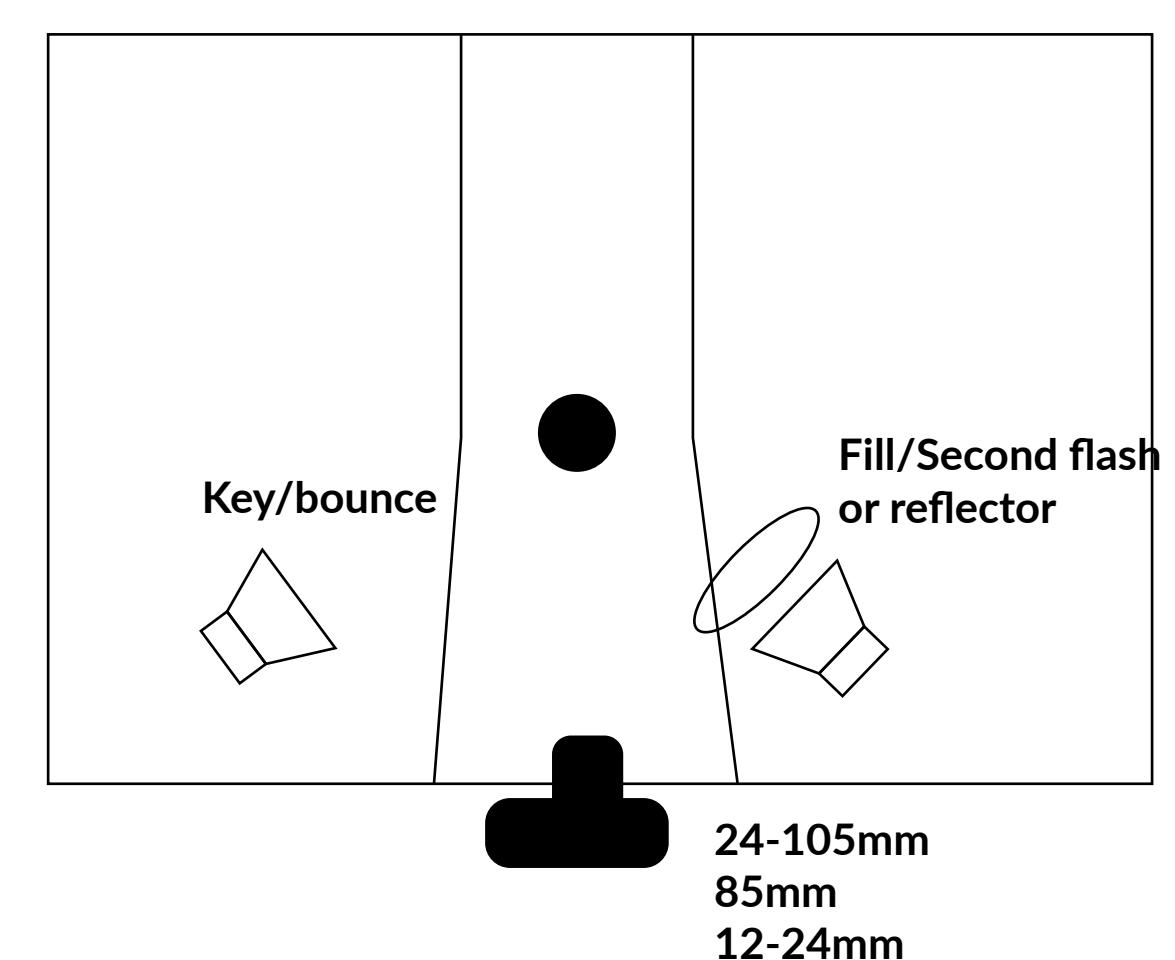


Location 3

► **Location 3**

-

- ◀ **Ideal situation**
- Orion Nebula



Location 4

► **Location 4**

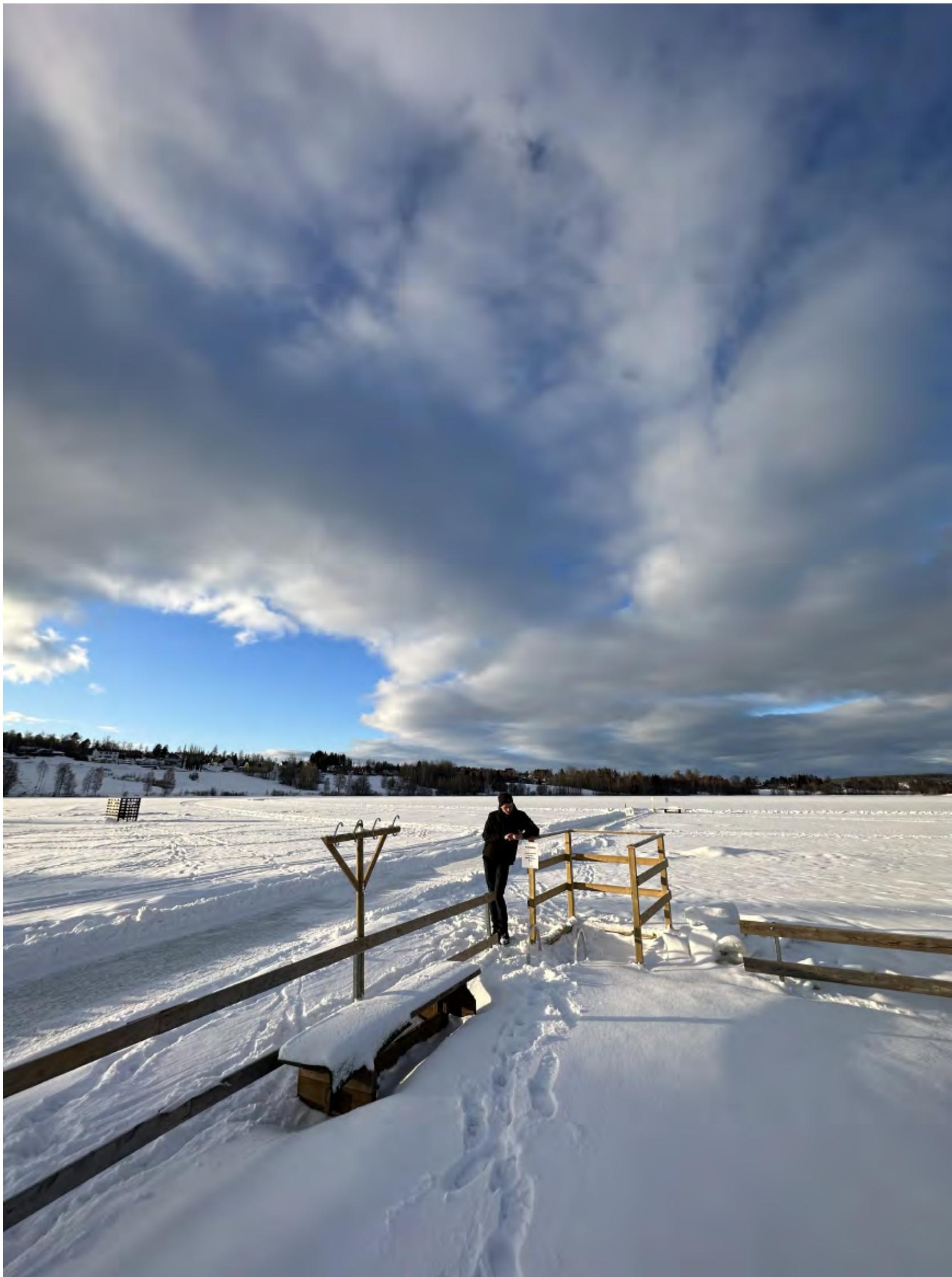
-

- ◀ **Ideal situation**
- Aurora Borealis, Stars

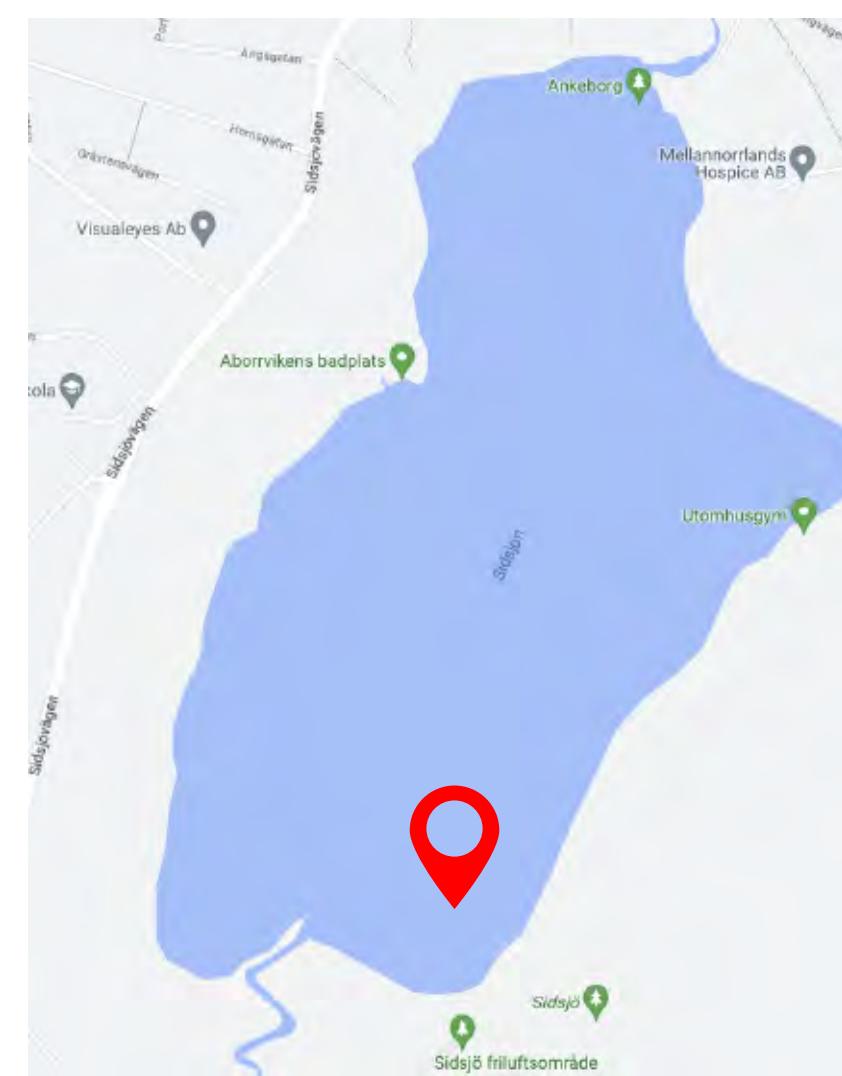
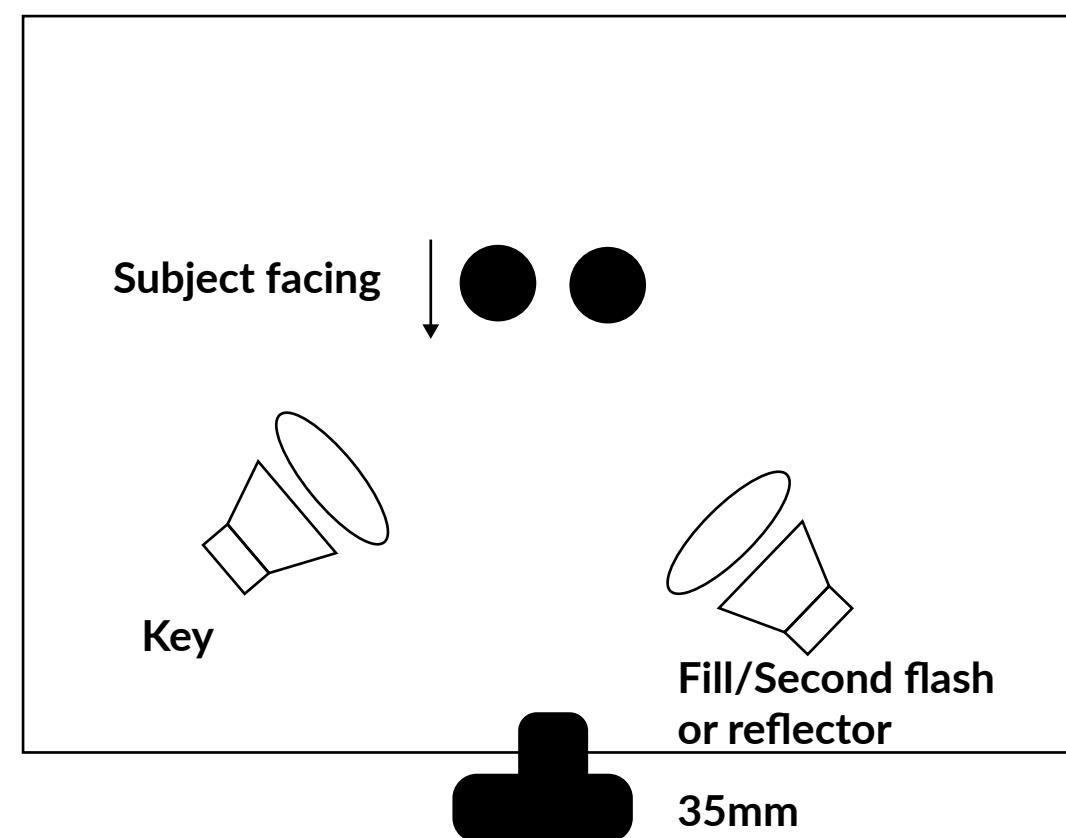
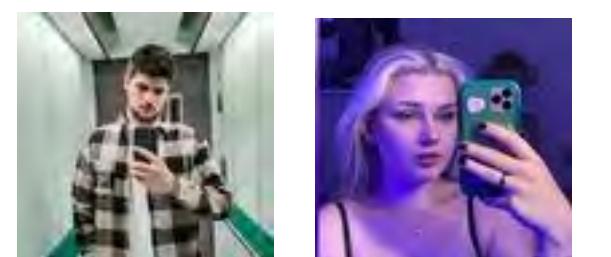
Flash equipment

Set ups

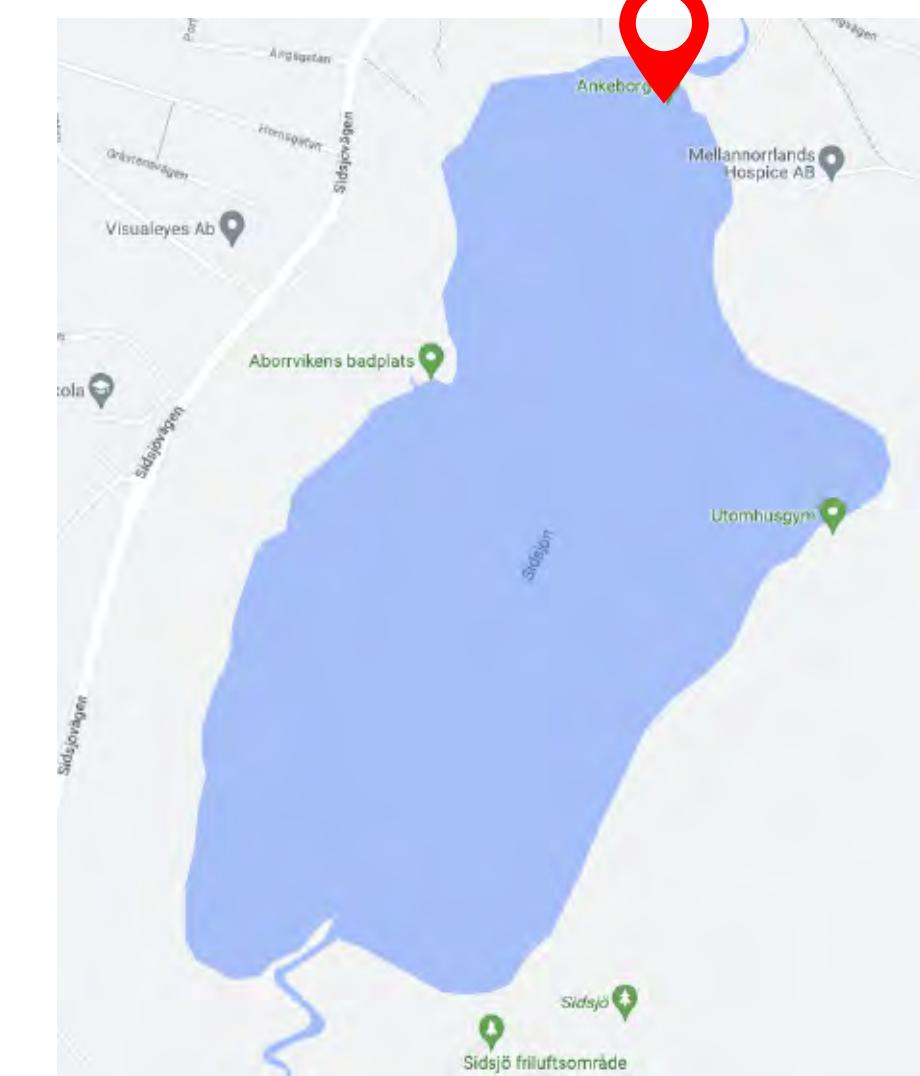
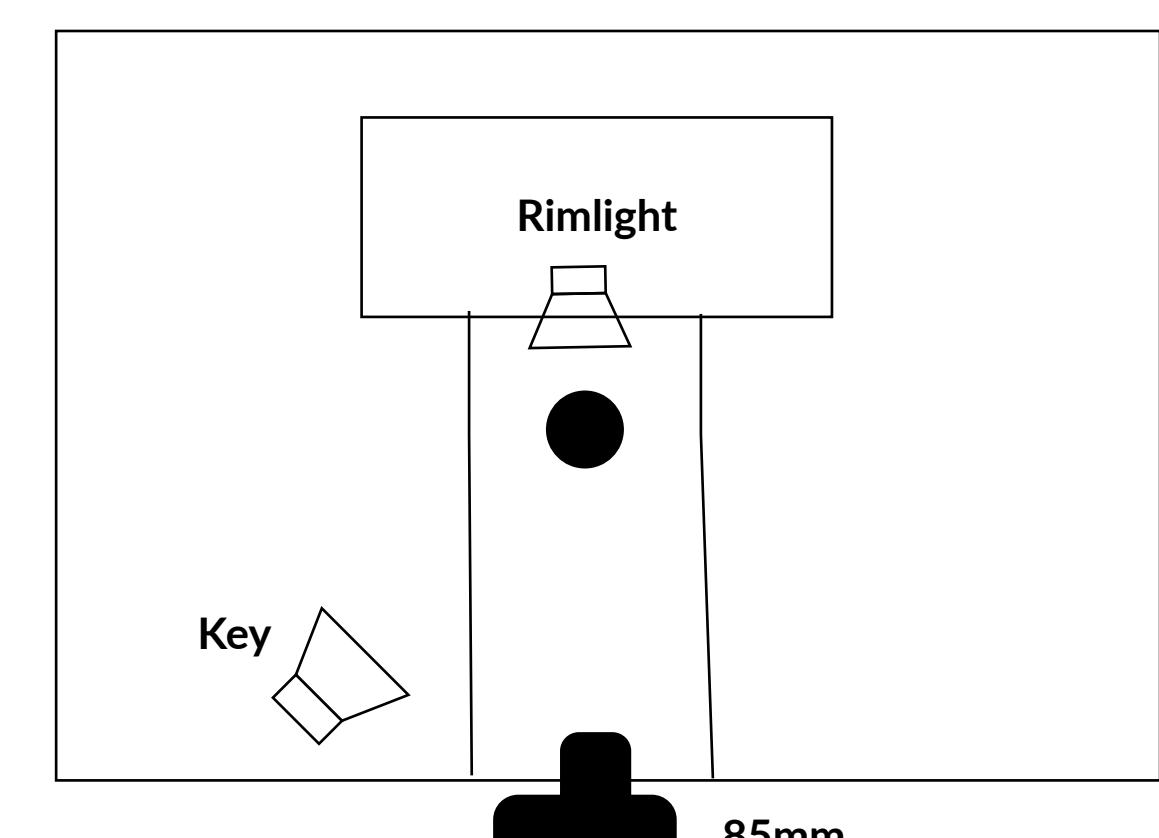
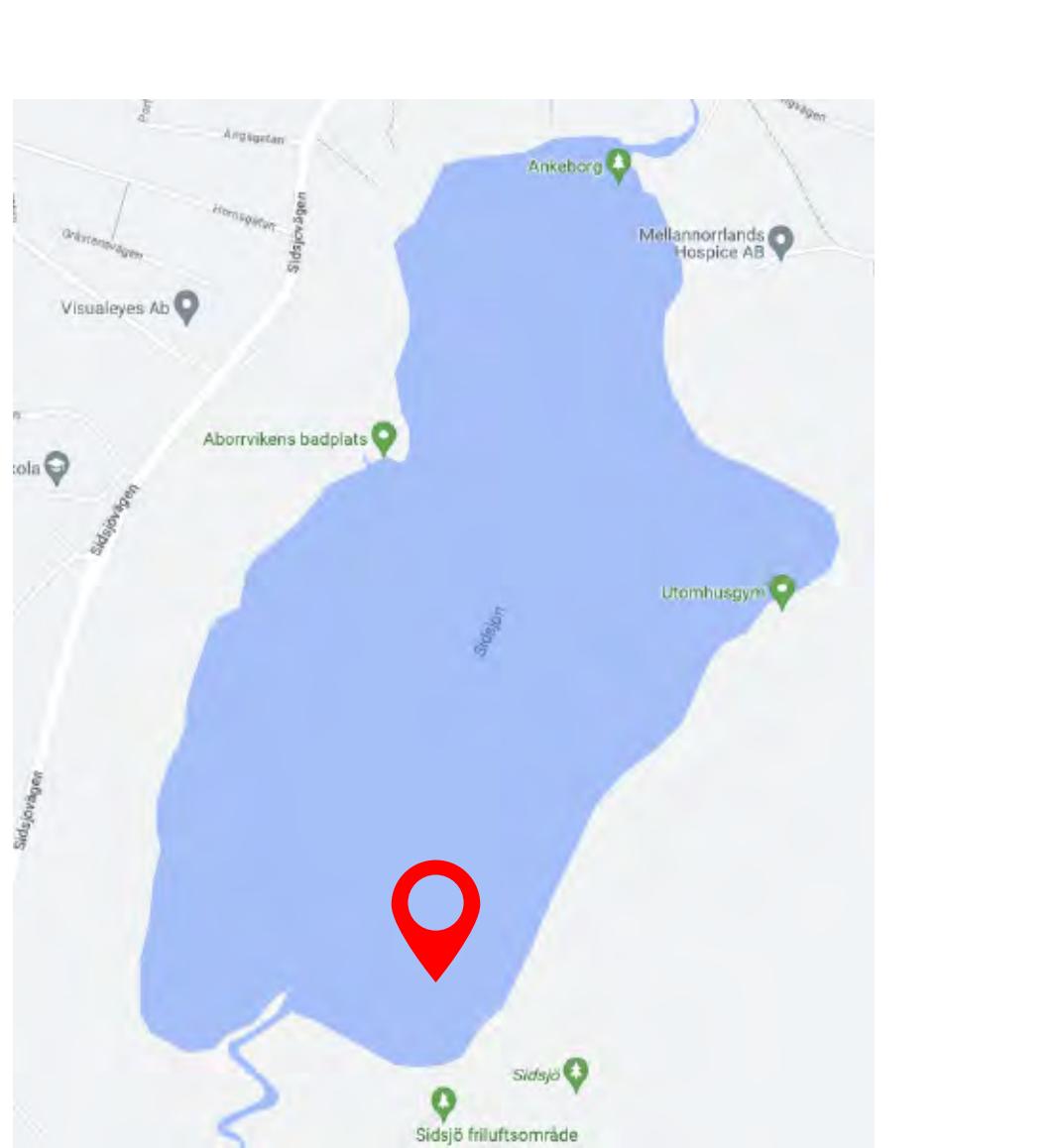
All photos are double exposure one foreground and one background



Location 5



Location 6



► Location 5

◀ Ideal situation
- Stars

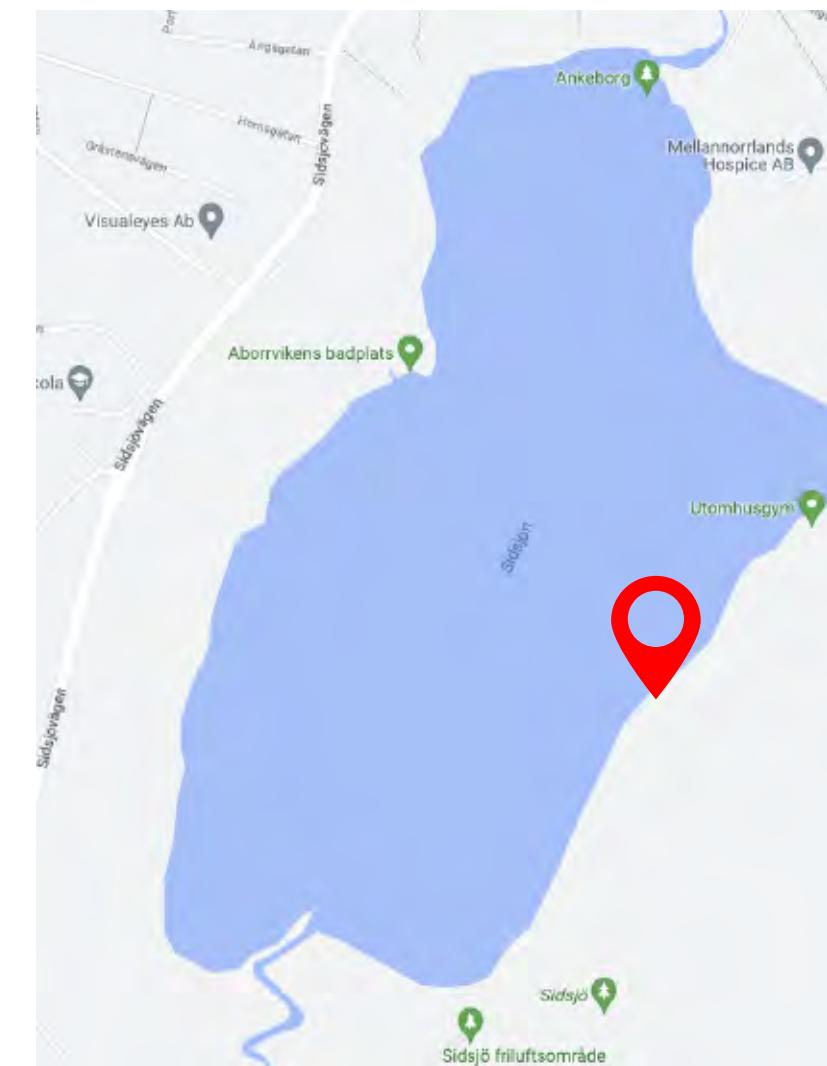
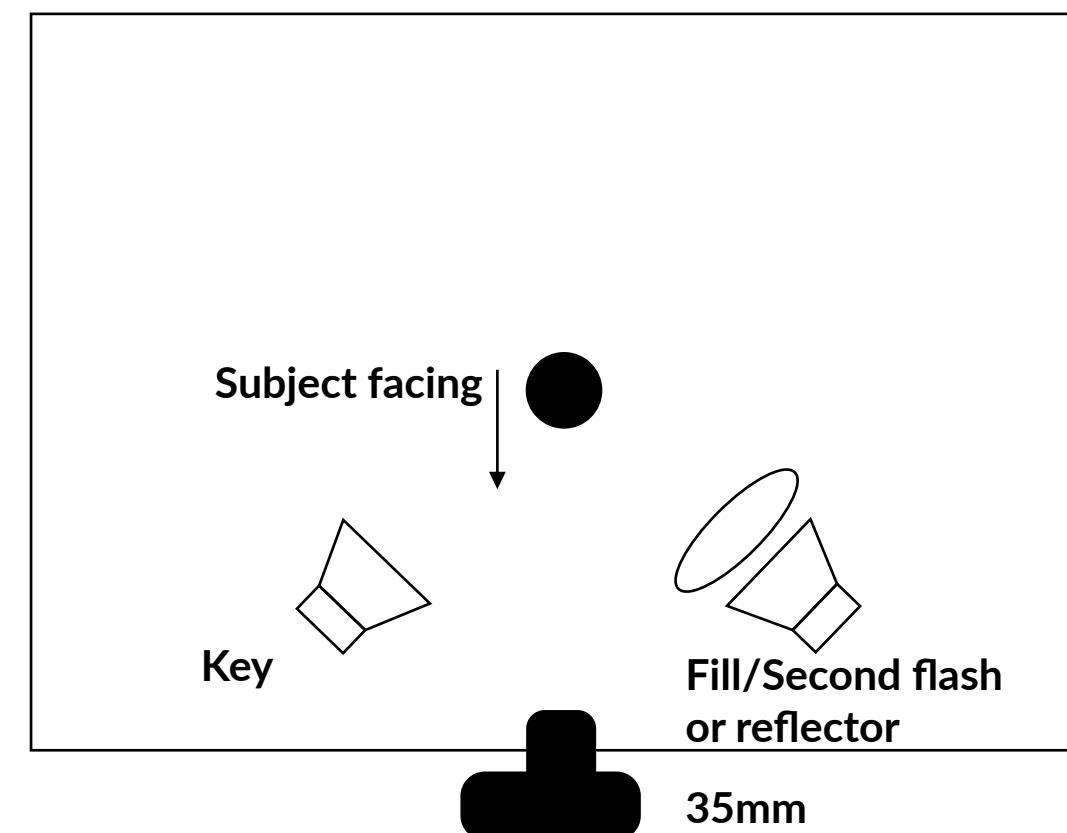
► Location 6

◀ Ideal situation
- Aurora Borealis/ Orion

Flash equipment

Set ups

All photos are double exposure one foreground and one background

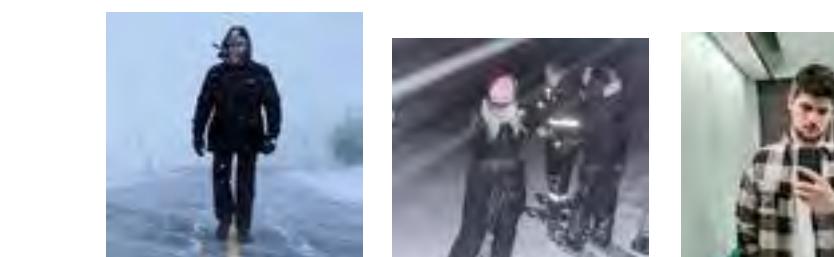
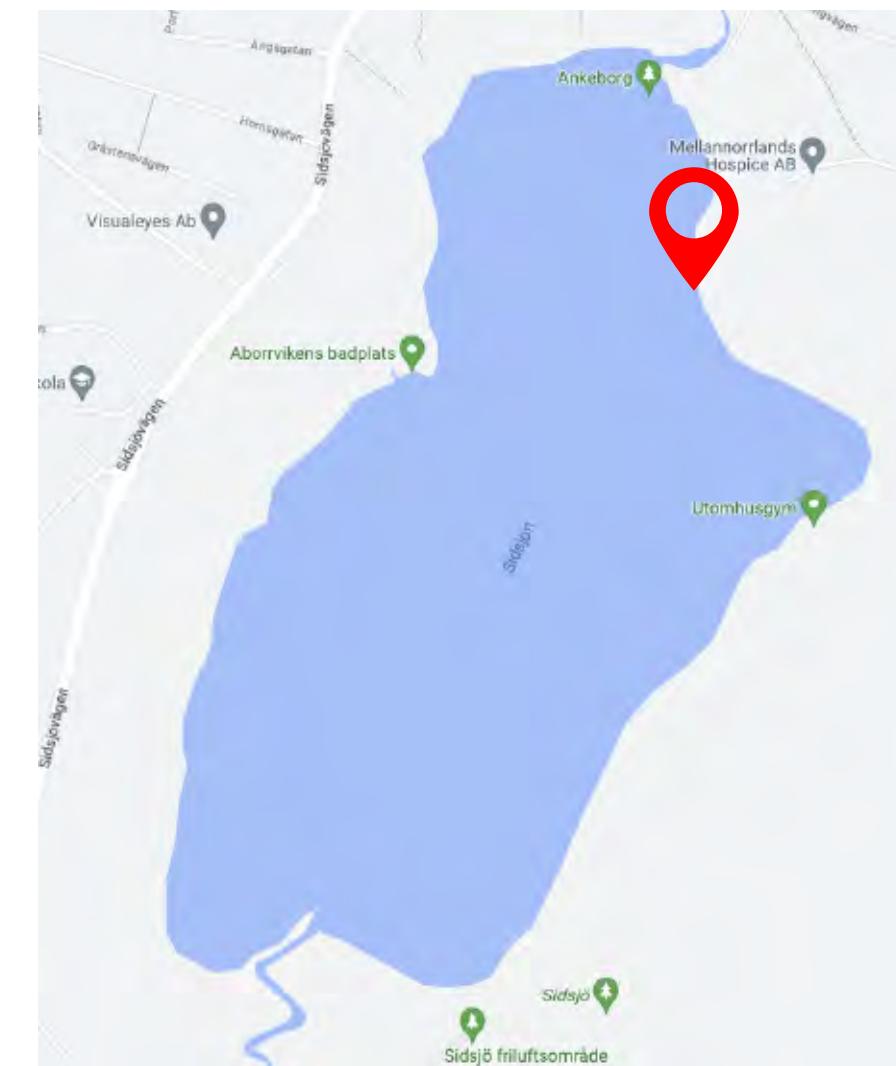
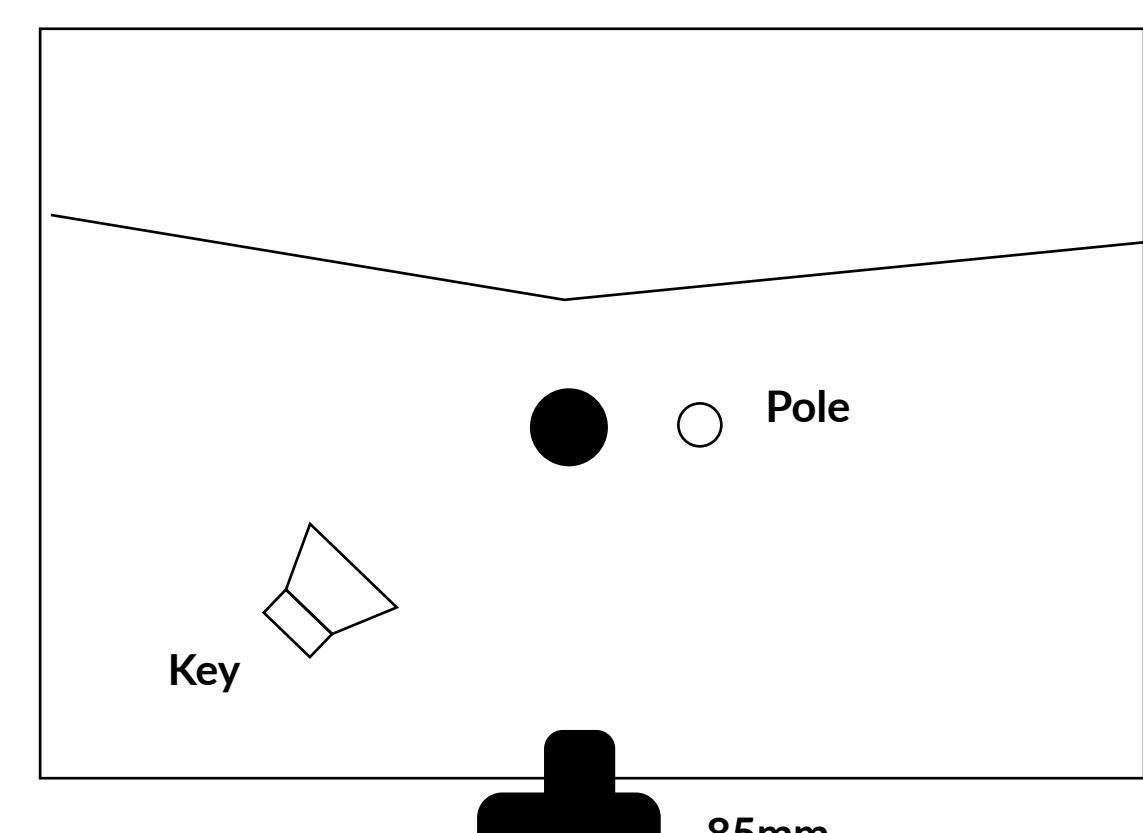


Location 7

► **Location 7**

-

- ◀ **Ideal situation**
- Aurora Borealis



Location 8

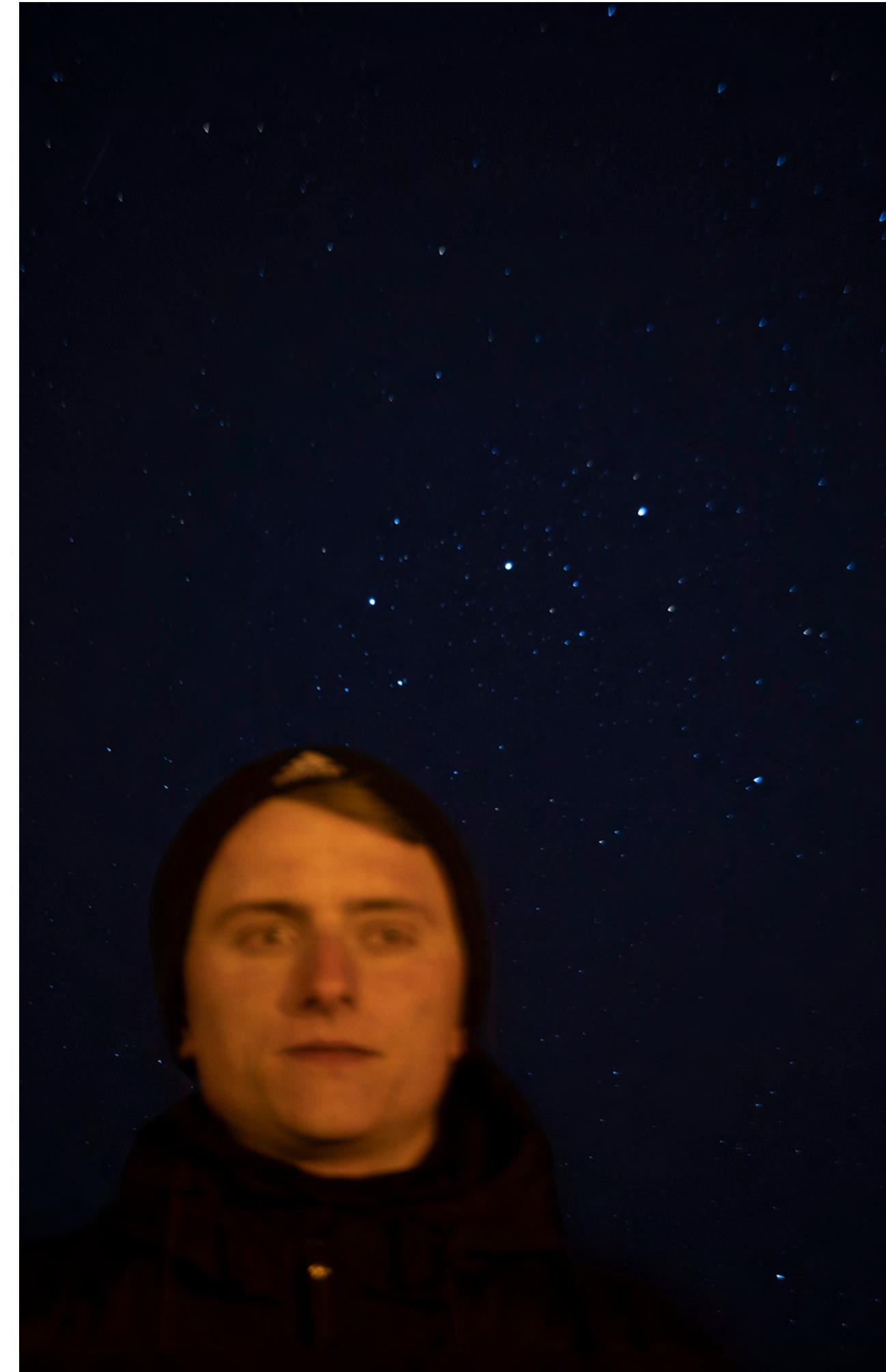
► **Location 8**

-

- ◀ **Ideal situation**
- Orion's nebula in the east south corner

Experimental First Shoot

Ambient light and flash



⌚ 150mm f/2.8 4s ISO1000
⚡



⌚ 85mm f/1,2 10s ISO100
⚡



⌚ 19mm f/2,8 10s ISO800
⚡



⌚ 85mm f/1,2 10s ISO100
⚡



⌚ 19mm f/2,8 10s ISO800
⚡

▲ First shoot

The first shoot at Sidsjön consisted a lot of experimenting, multi exposure (focus) stacking and long exposure portraits. I didn't know what I was expecting from a clear night sky at Sidsjön it was the closest less light polluted area I could go to.

Experimental First Shoot

Ambient light and flash



● 24mm f/2,8 8s ISO500
⚡



● 35mm f/4 10s ISO640
⚡



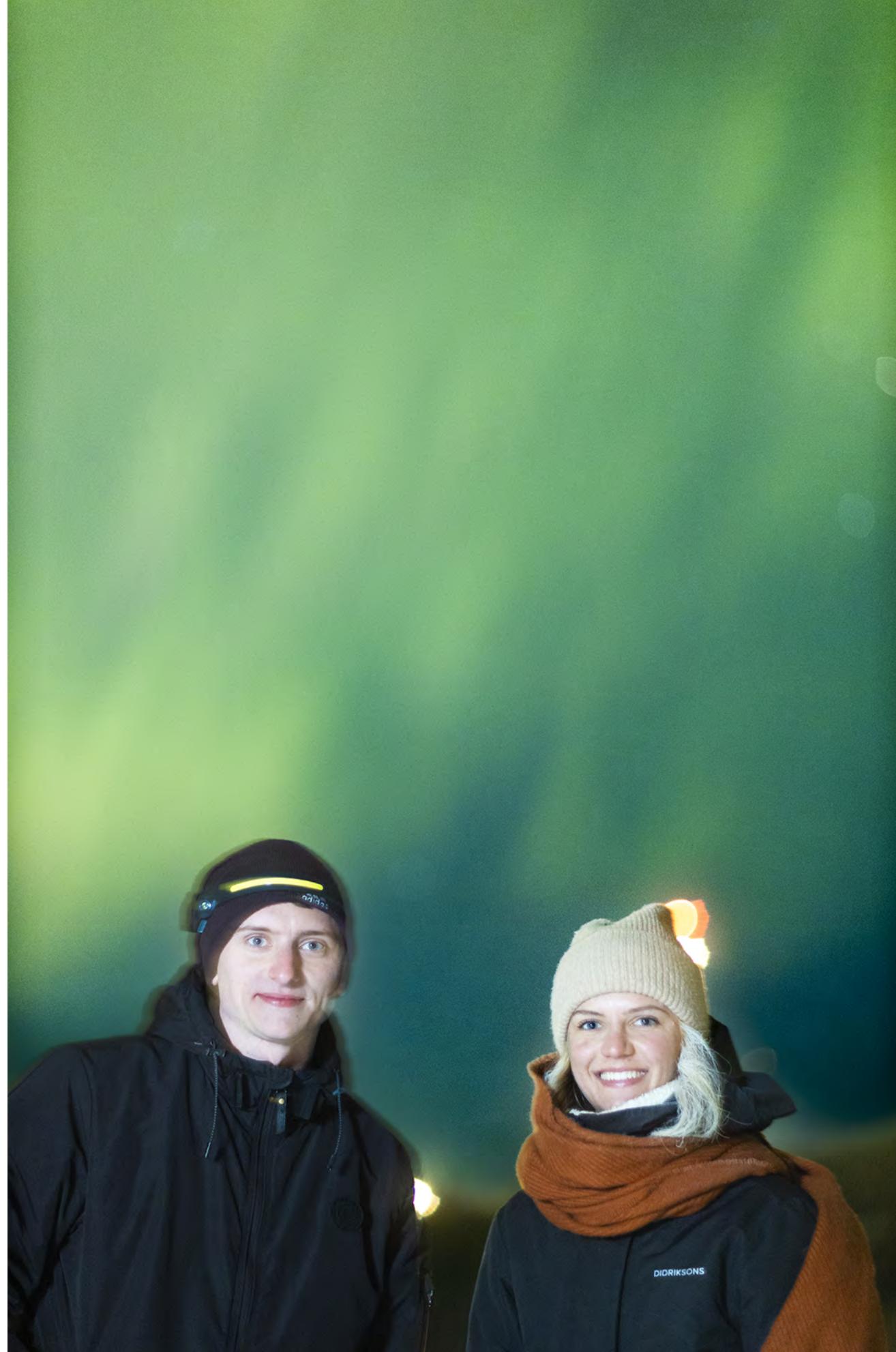
● 22mm f/2,8 10s ISO800
⚡

▲ First shoot

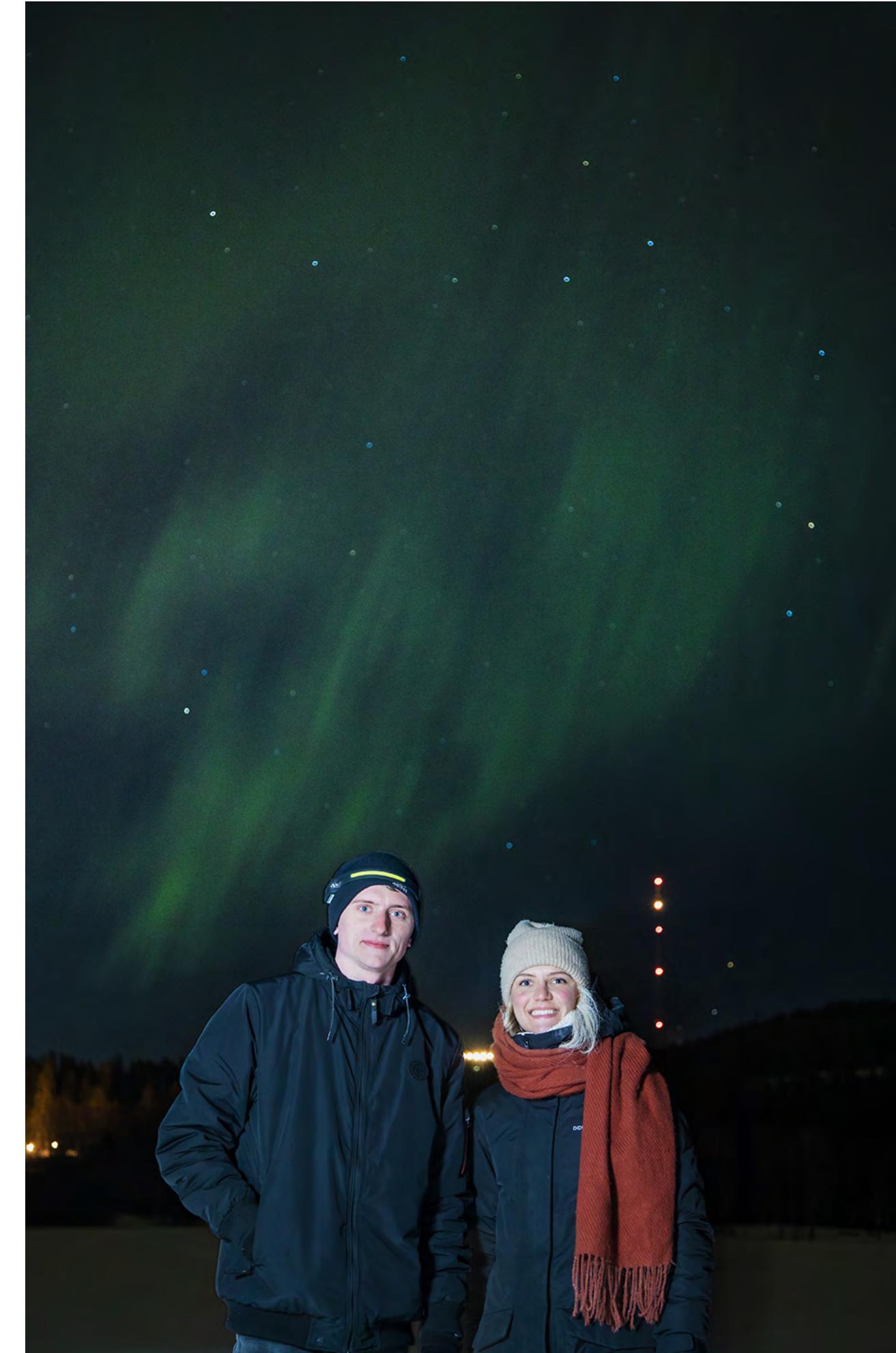
This shoot learned me to take better multi exposures separating the foreground and the background better.

Single Exposure

Ambient light and flash



⦿ 85mm f/1,2 1s ISO6400
⚡



⦿ 55mm f/4 4s ISO1600
⚡



⦿ 24mm f/4 4s ISO1600
⚡

▲ Location 4

I played with hand held 1s shutter speed and a fast aperture I think the results would have been better with the tripod!

With the tripod I lowered the ISO and extended the shutter speed by 4 seconds, for the horizontal one I wanted a more dynamic pose it ended up with black shadows.

Multi Exposure

Ambient light and flash



⌚ 28mm f/4 1/60 + 2,5s ISO1250
⚡

▲ Location 3

After the Northern Lights came out we quickly ran to the most nearby location not knowing how long the lights will stay.

First I photographed the background until I got it how I wanted it. Used a tripod 2,5 second shutter speed to catch more light from the aurora.

Utilizing the flash and 1/60 shutter speed I managed to get a "good" lighted subject.



⌚ 28mm f/4 1/60 ISO1250
⚡



⌚ 28mm f/4 2,5s ISO1250

I merged the photos together in photoshop. Masked the subject with object selection tool and with lasso tool I refined the selection. After that put the background layer underneath and blended the two pictures with a soft brush.

Multi Exposure

Ambient light and flash



⌚ 28mm f/4 1/60 + 5s ISO1250
⚡

▲ Location 3

After the Northern Lights came out we quickly ran to the most nearby location not knowing how long the lights will stay.

First I photographed the background until I got it how I wanted it. Used a tripod 5 second shutter speed to catch more light from the aurora.

Utilizing the flash and 1/60 shutter speed I managed to get a "good" lighted subject.



⌚ 28mm f/4 1/60 ISO1250
⚡



⌚ 28mm f/4 5s ISO1250

I merged the photos together in photoshop. Masked the subject with object selection tool and with lasso tool I refined the selection. After that put the background layer underneath and blended the two pictures with a soft brush.

Single Exposure

Ambient light and flash



⌚ 28mm f/4 4s ISO1250



▲ Location 3

4 seconds exposure with flash, I used the white umbrella to get a softer flash. The subject stood still for around 4 seconds to achieve less movement as possible.

Single Exposure

Ambient light and flash



● 24mm f/4 4s ISO1250



▲ Location 3

Shot on a tripod, 4 second shutter speed, and a white umbrella to bounce off some flash light.

Single Exposure

Ambient light and flash



⌚ 24mm f/4 8s ISO1600



▲ Location 2

Shot on a tripod, 8 second shutter speed, and a white umbrella to bounce off some flash light.



⌚ 24mm f/4 5s ISO1600



▲ Location 2

Shot on a tripod, 5 second shutter speed, and a white umbrella to bounce off some flash light.

Single Exposure

Ambient light and flash



⌚ 14mm f/2,8 10s ISO500



▲ Location 3

10 seconds exposure with a tripod, used the white umbrella to bounce the flash!

Final

Astrophotography Portraits

