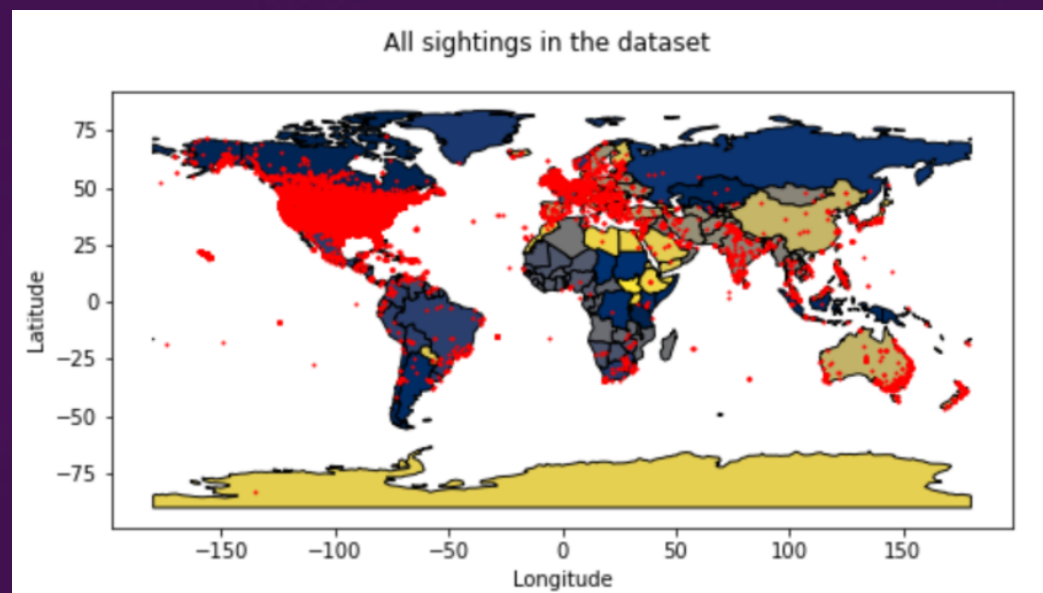


Introduction

In this project we have analyzed UFO sightings of the world. Our aim was to analyze given data and find something interesting

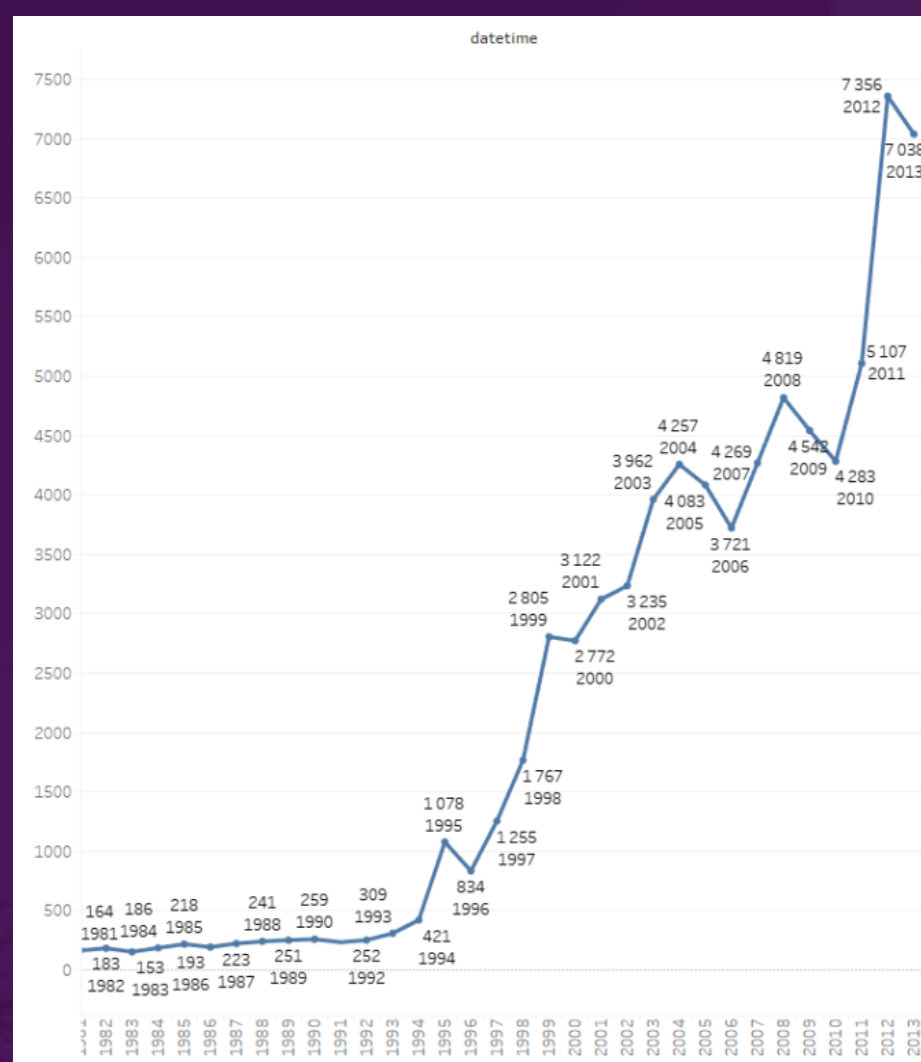
Where the UFO was seen?



All sightings from dataset

Almost 90% of sightings are from USA. It is probably because NUFORC is located in USA and people there know more about this. But the map shows that there are records from all over the world.

UFO sightings have increased



Sightings increased slowly over time until 1996.

Interesting facts

- Sightings tends to spike at Christmas, New Year's Eve, and USA Independence Day, which are popular holidays with fireworks and concerts (moving lights in the sky).
- Significantly more sightings were 13.03.1997 and 11.09.2001. First is known as "Phoenix lights" and tried to explained as aircraft, and on other date was 9/11. '
- Some of the sightings are explained by aircraft, meteorites, lights from concerts, and satellites. Watch "Starlink Satellites train seen in the sky" from Youtube.
- Some of the sightings are also from Estonia.
- Mostly UFOs appear as lights and are visible up to 30sec..
- Everybody can write in NUFORC website and tell them his/her story about UFO sighting.

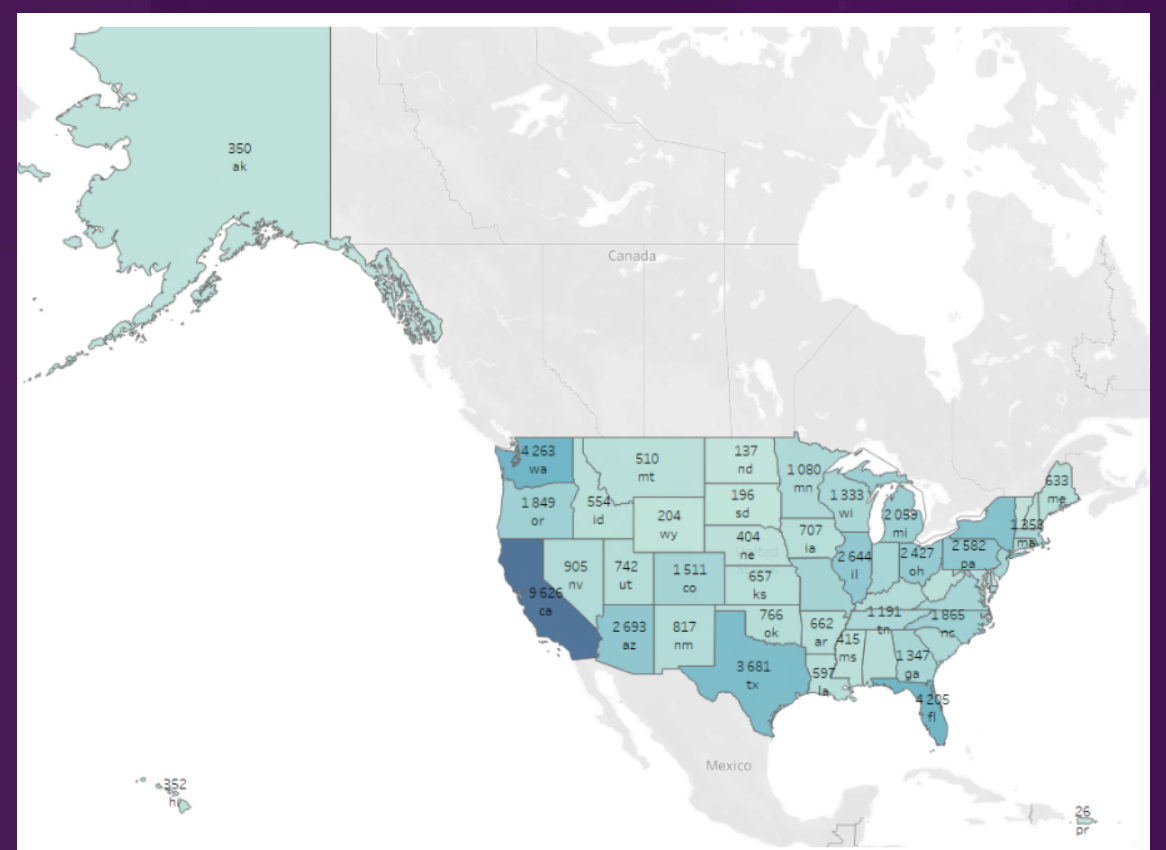
UFO SIGHTINGS

Kristina Mumm, Karl-Erik Kanal

Data

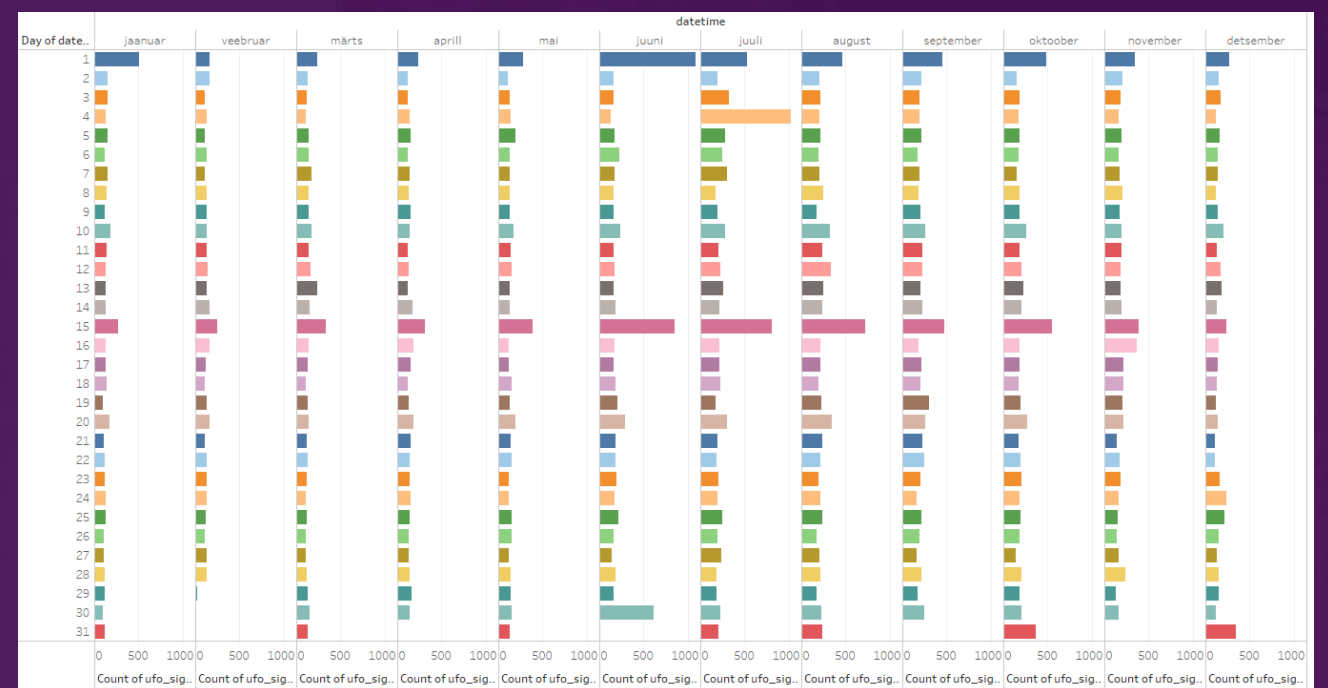
Data is taken from Kaggle datasets www.kaggle.com/mysarahmadbhat/ufo-sightings. Data source was marked as National UFO Reporting Center (NUFORC), which is located in USA. Our dataset contains about 80 000 different sightings from 1906 to 2014 May. There were information about date, duration, shape, location and comments of witness. The dataset was not clean. Had to add missing and edit incorrect values. Visualization part was mostly done in Tableau, but also was used GeoPandas.

UFOs favourite USA state

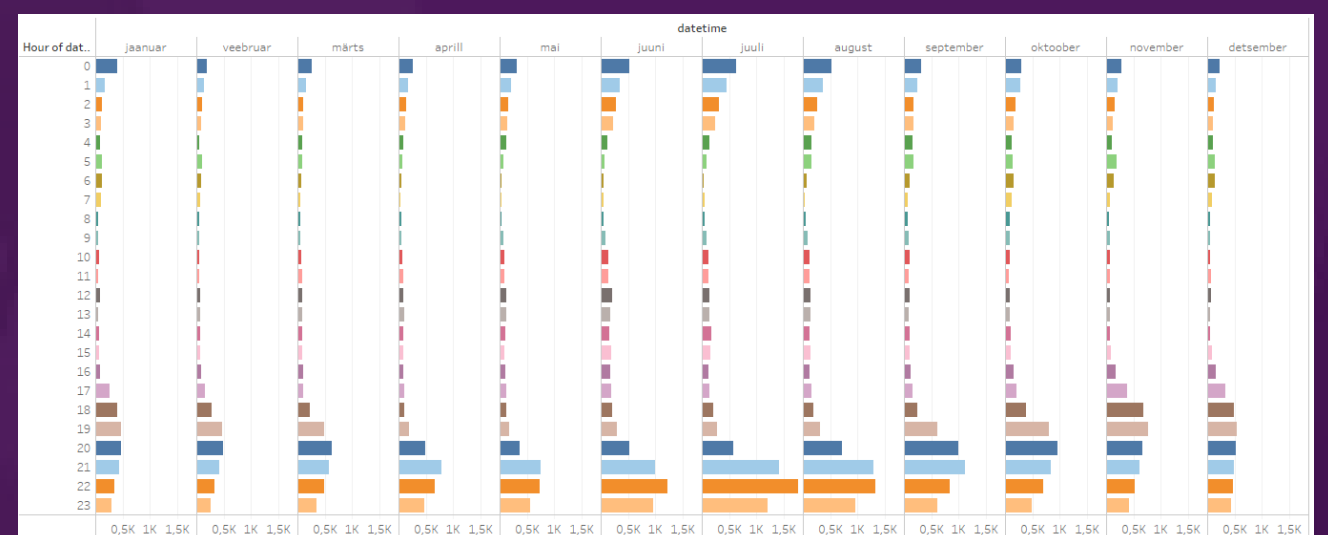


The most sightings are from California and on 3rd place is Florida. The states are also known for a lot of aerodynamic and space exploration research.

UFOs favourite time



Sightings grouped by months and day of months



Sightings grouped by months and hours

The graphics show that UFO likes to appear at 1st and 15th day of the month. Also UFOs prefer when it is getting or already is dark outside. Also find out that UFOs prefer summer months