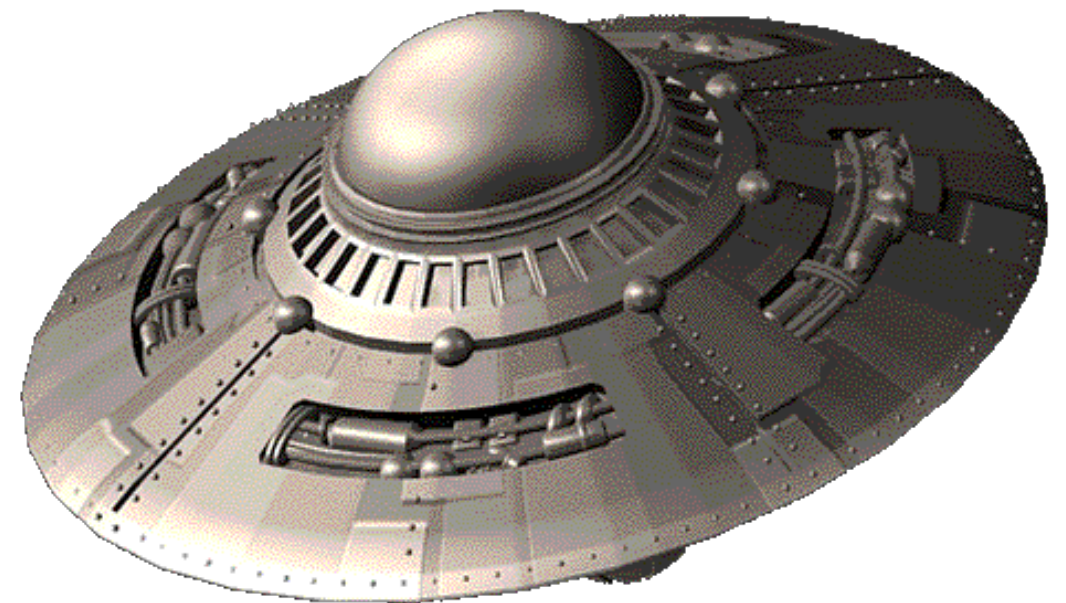# UFO Sightings in the US

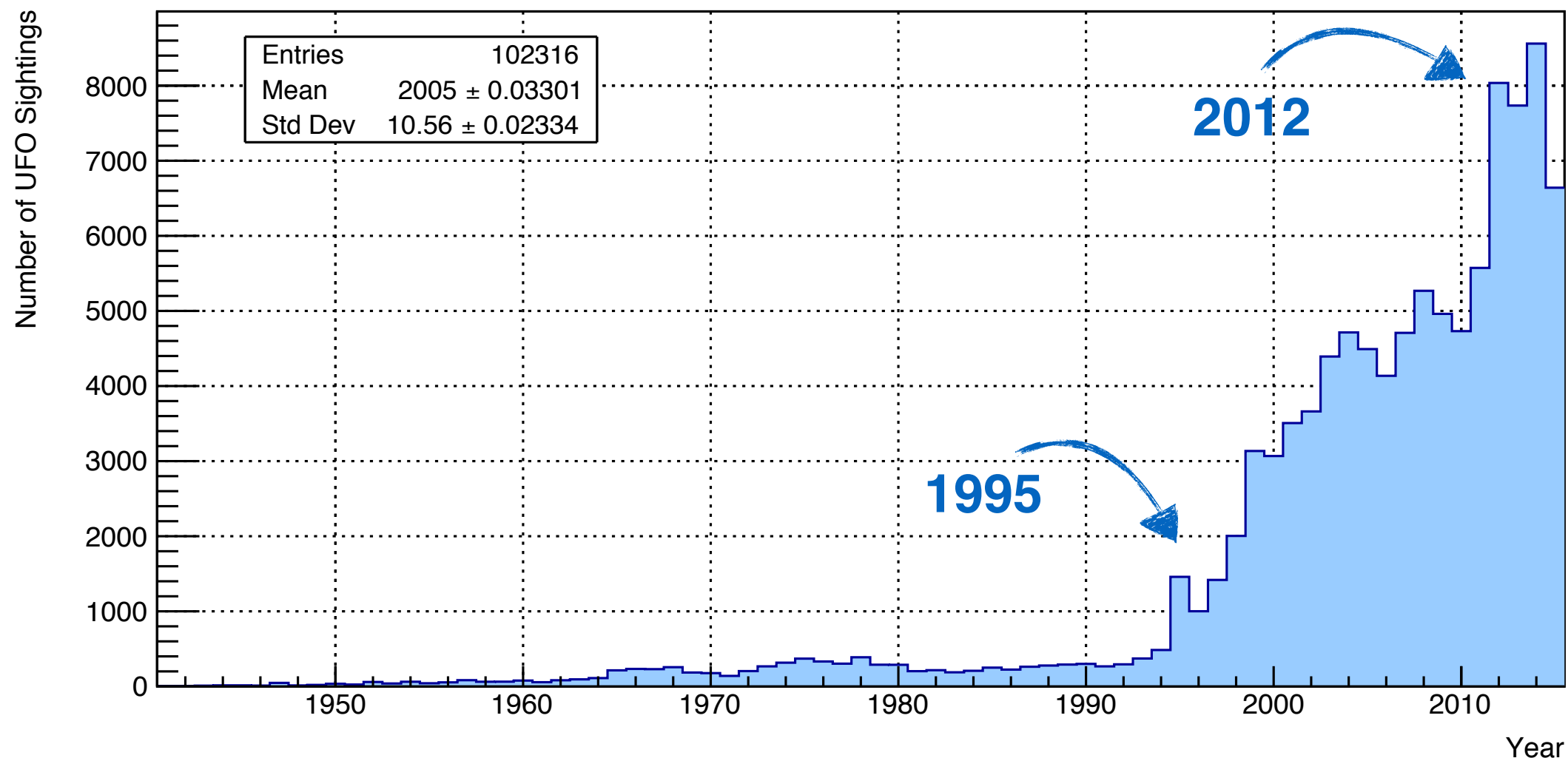Applied Statistics 2015/2016 - Project 2

Group:

Magnus Aagren Jensen
August Edwards Guldberg Mikkelsen
Balal Gardizi
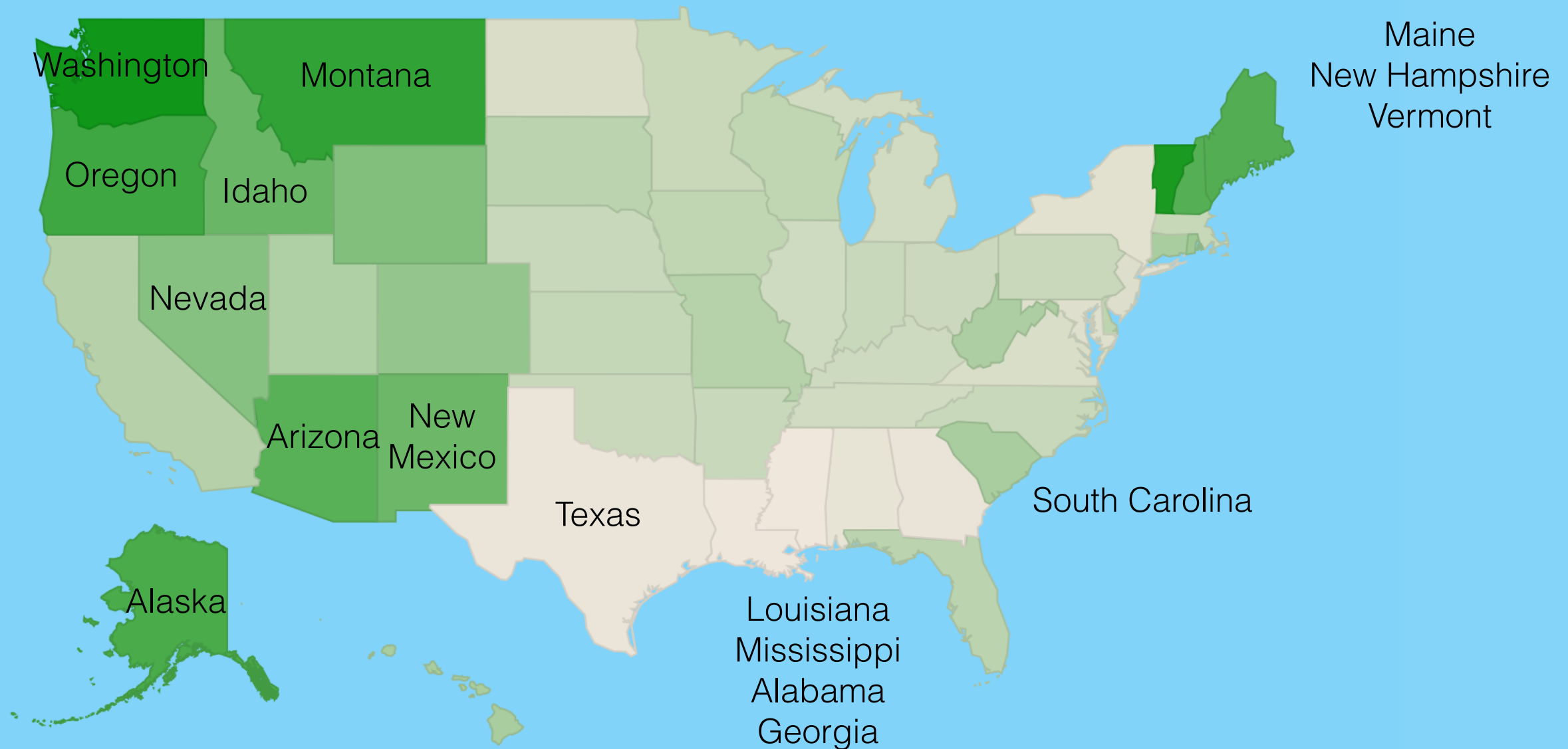Alexander Pedersen Lind

Data

- National UFO Reporting Center

- Focus on the US from year 1940 (1400) to 2015

- 102.392 entries in total

- Each entry contains time and date, city, state, shape of UFO, duration of sighting, and description

UFO sightings per US state

Religiosity vs. UFO sightings per US state

Negative correlation

$$\text{Correlation} = -0.51$$

Education vs. UFO sightings per US state

UFO Sightings per US state in 2014

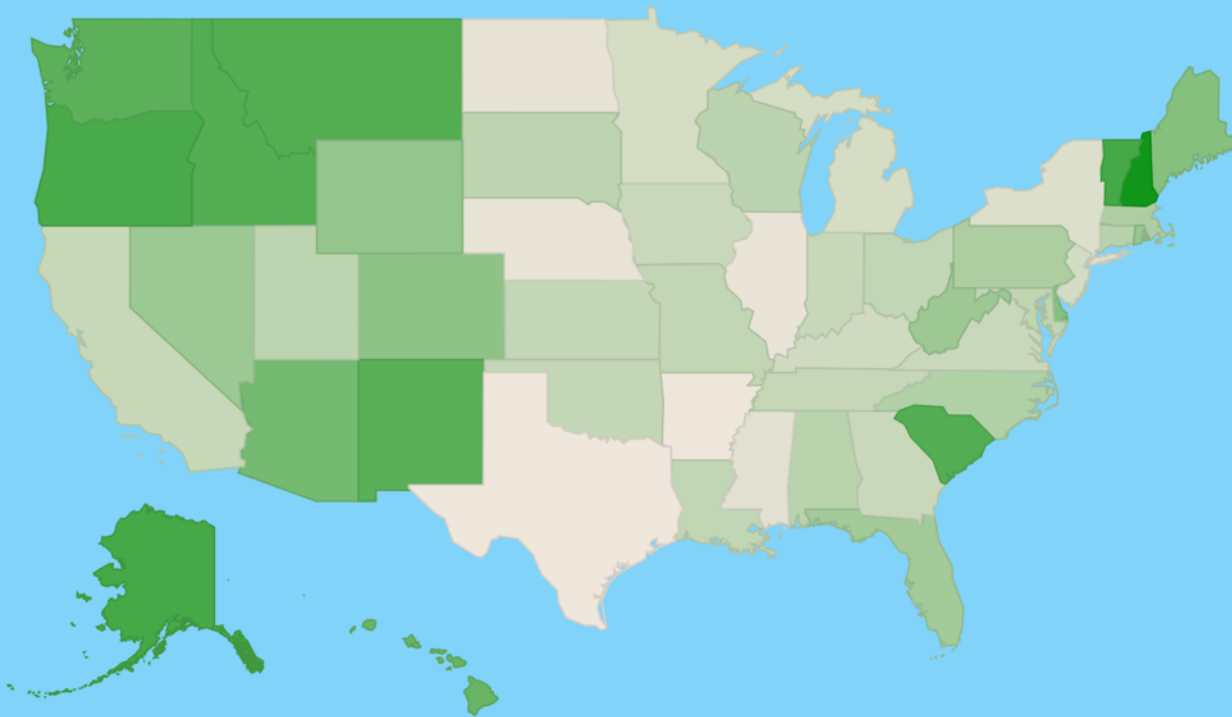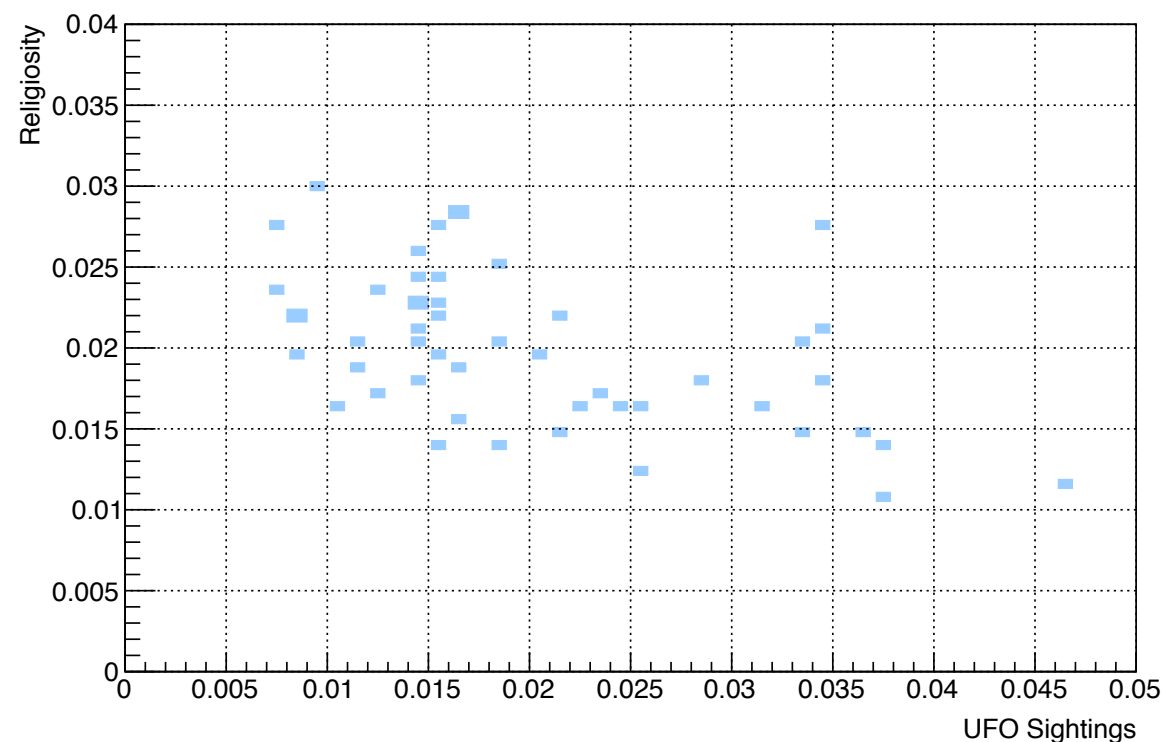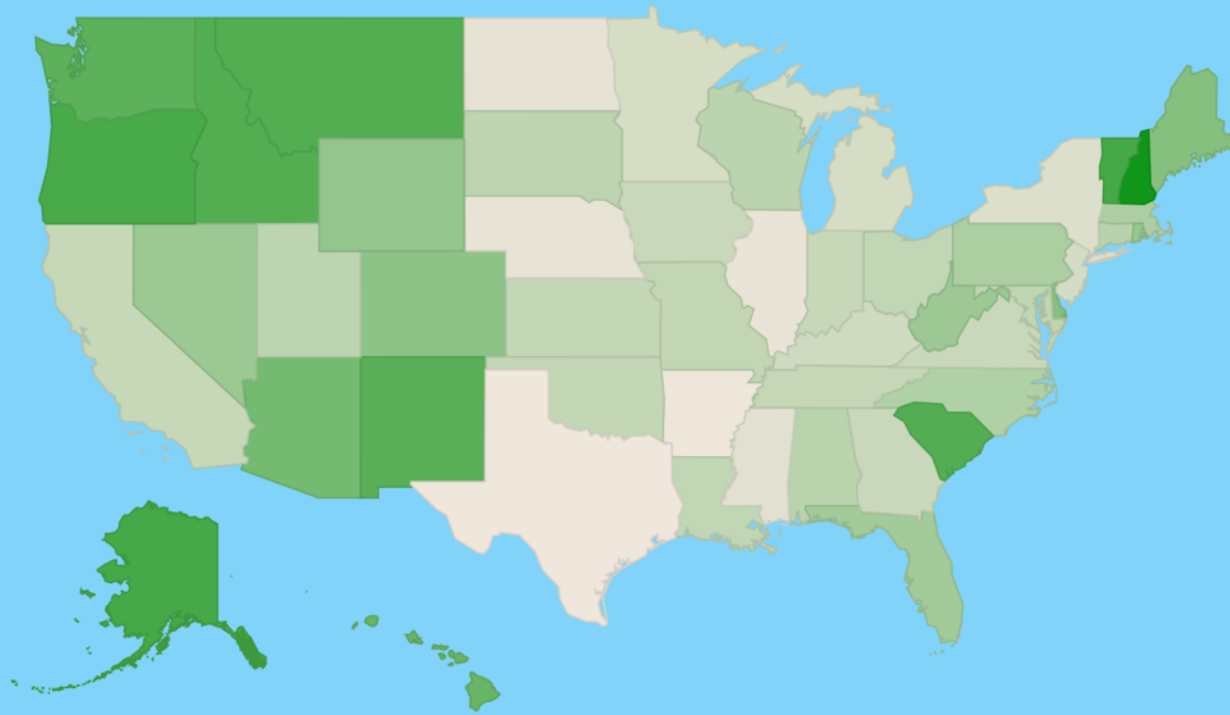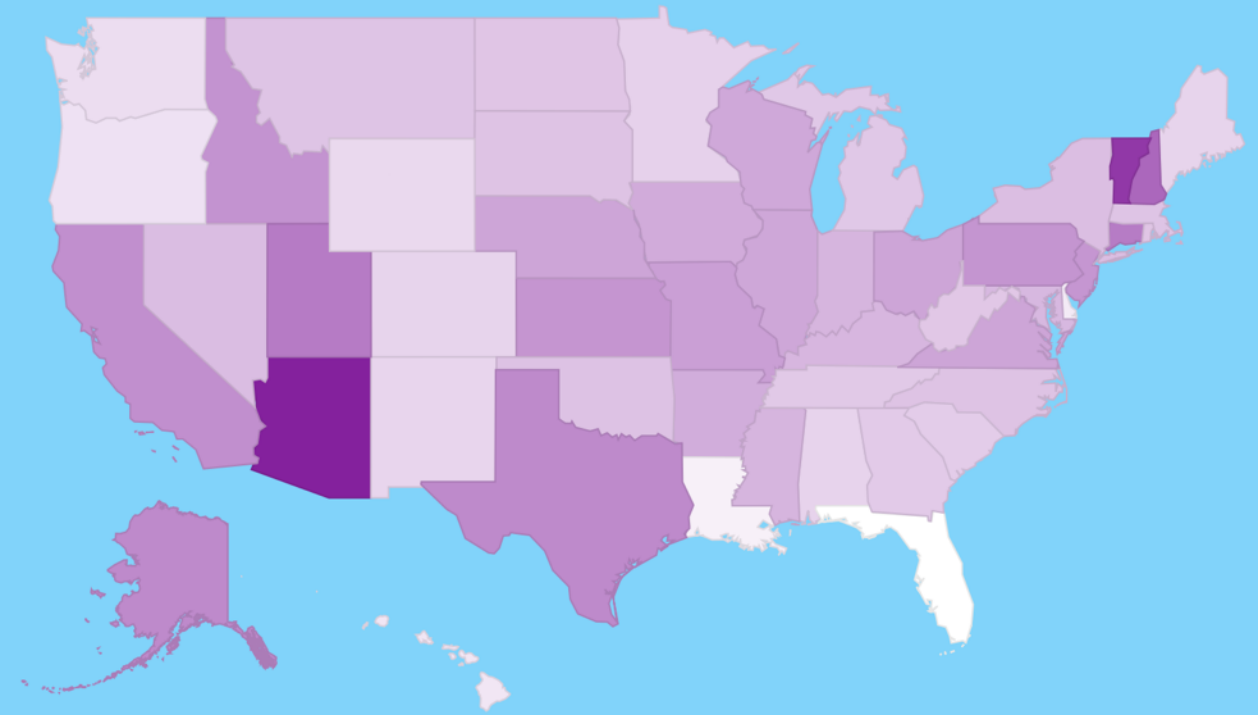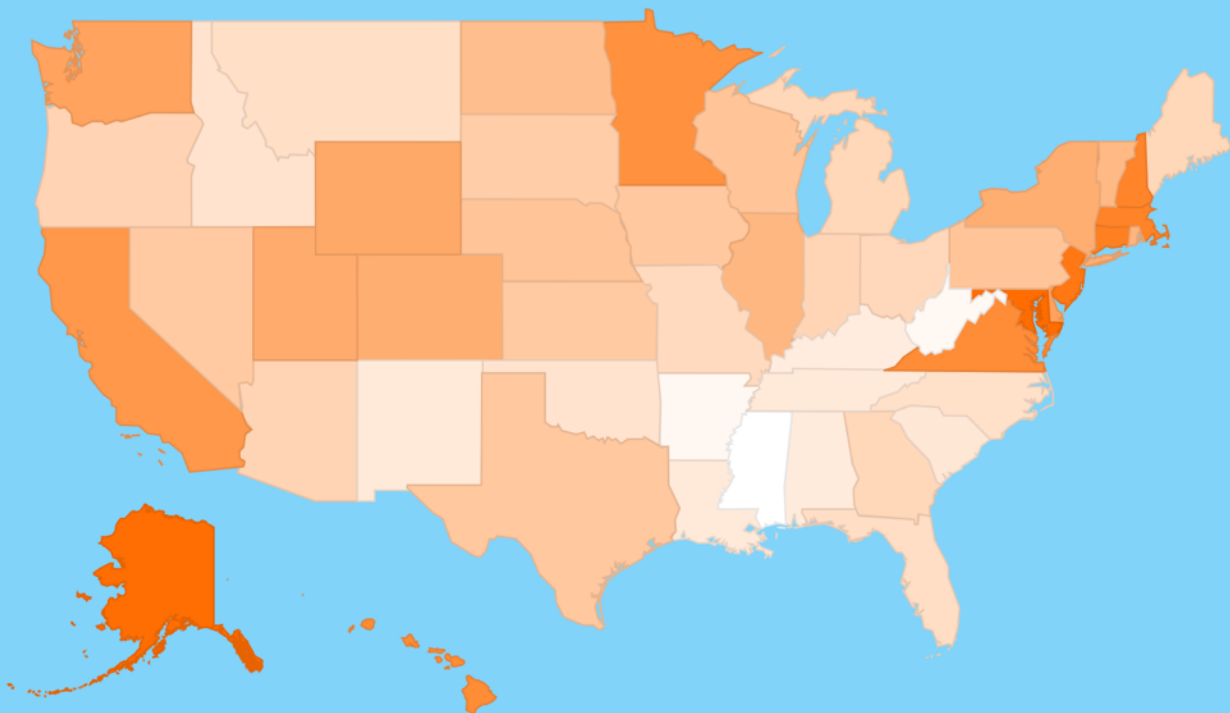Sightings per state as a percentage of the total number of sightings for the US

High School Graduates per US state in 2014

Number of High School Graduates normalized with respect to population

0.008 — 0.015

Income per US state in 2014

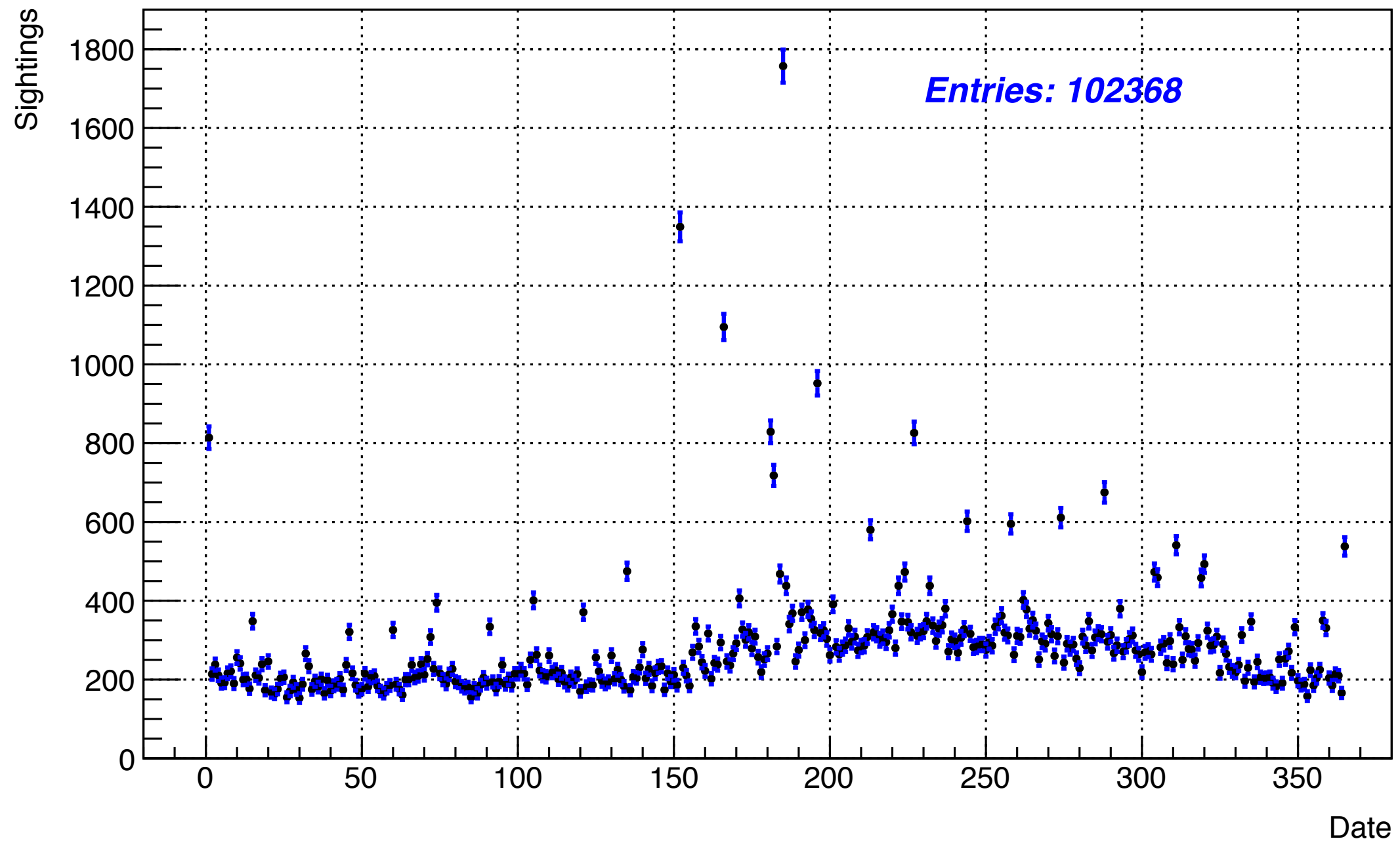US Census Bureau data for median household income (in USD) for 2014

No clear correlation between social class and UFO sightings
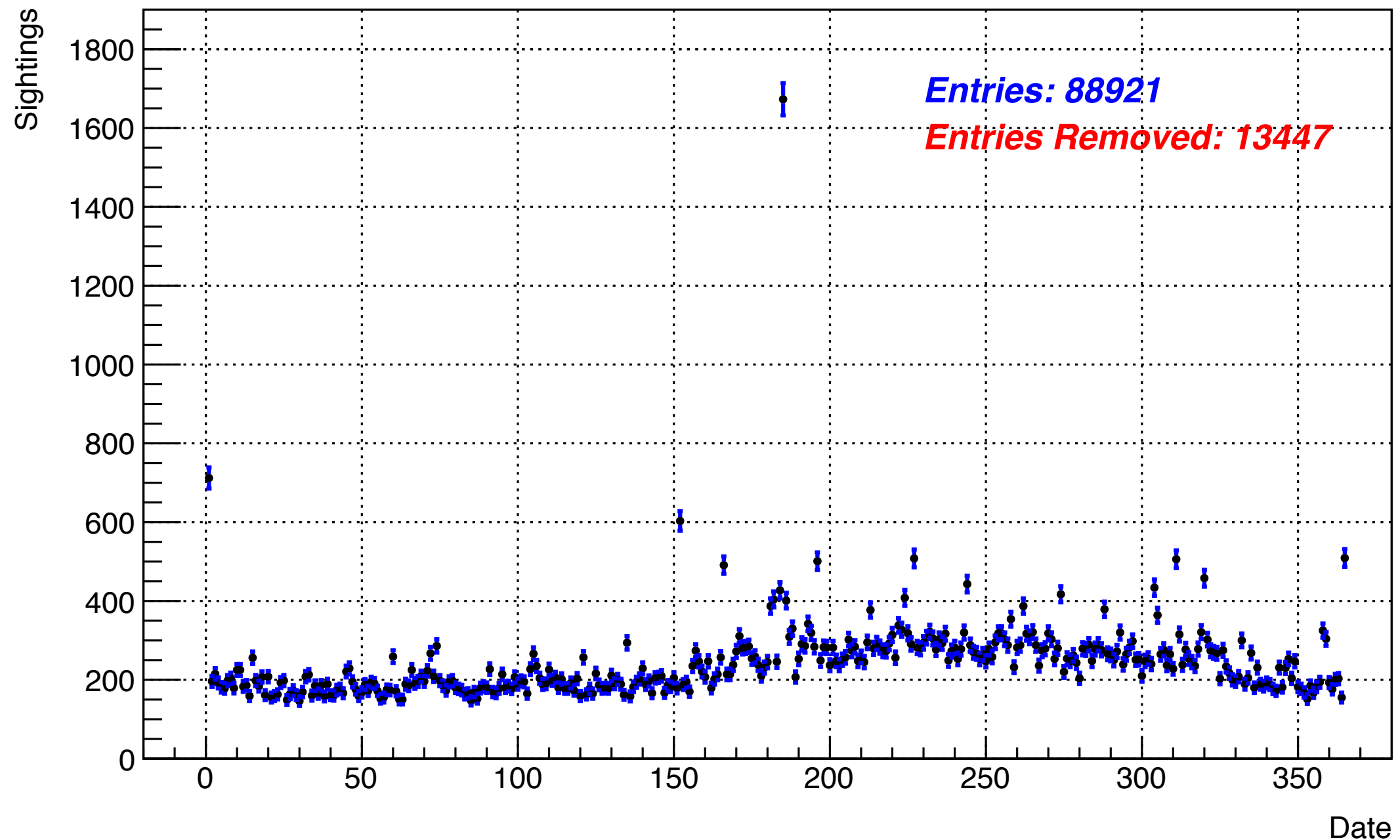
Education: 0.11

Income: 0.14

UFO Sightings vs. date of the year

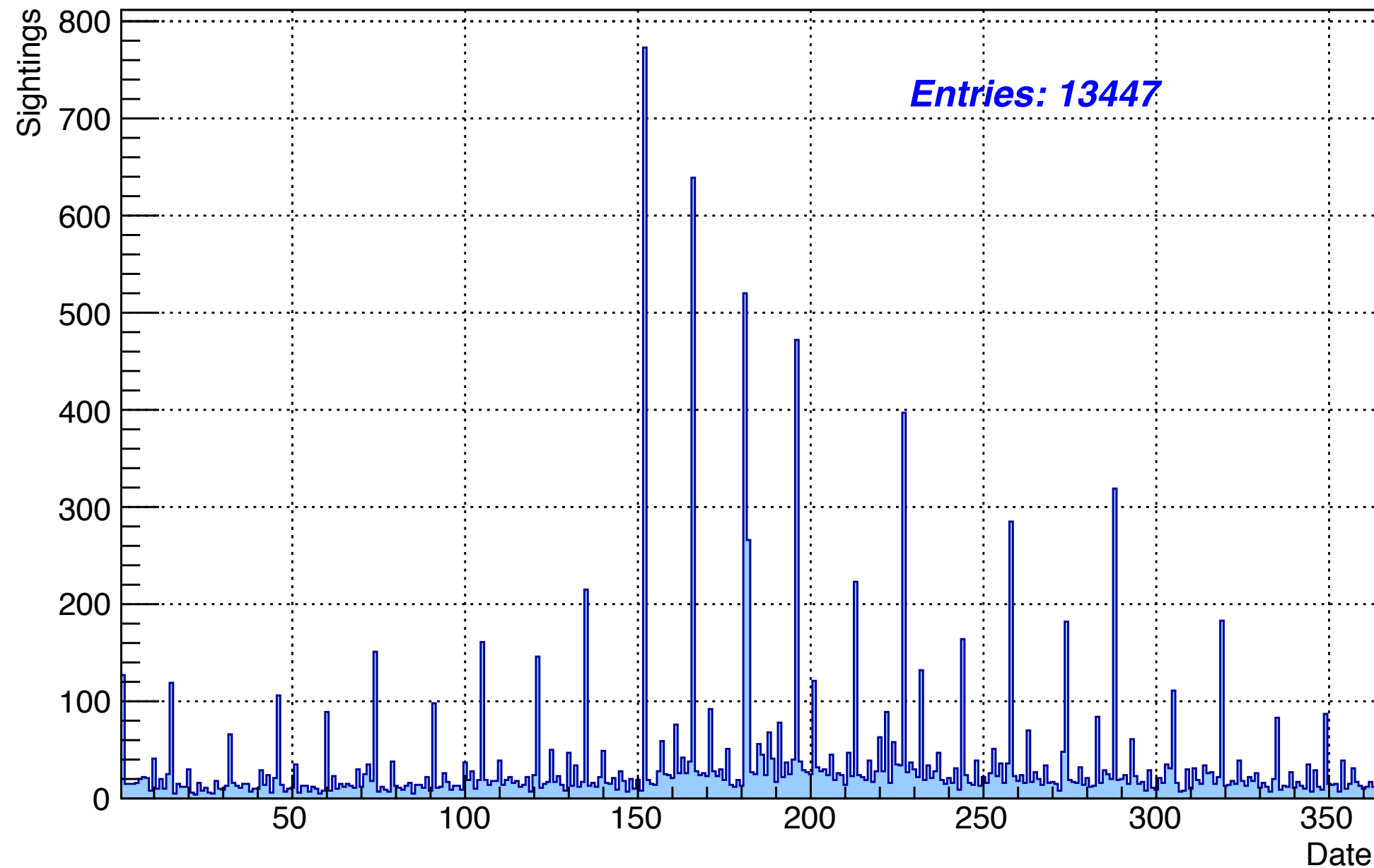Raw distribution of UFO sightings over the year

UFO Sightings vs. date of the year

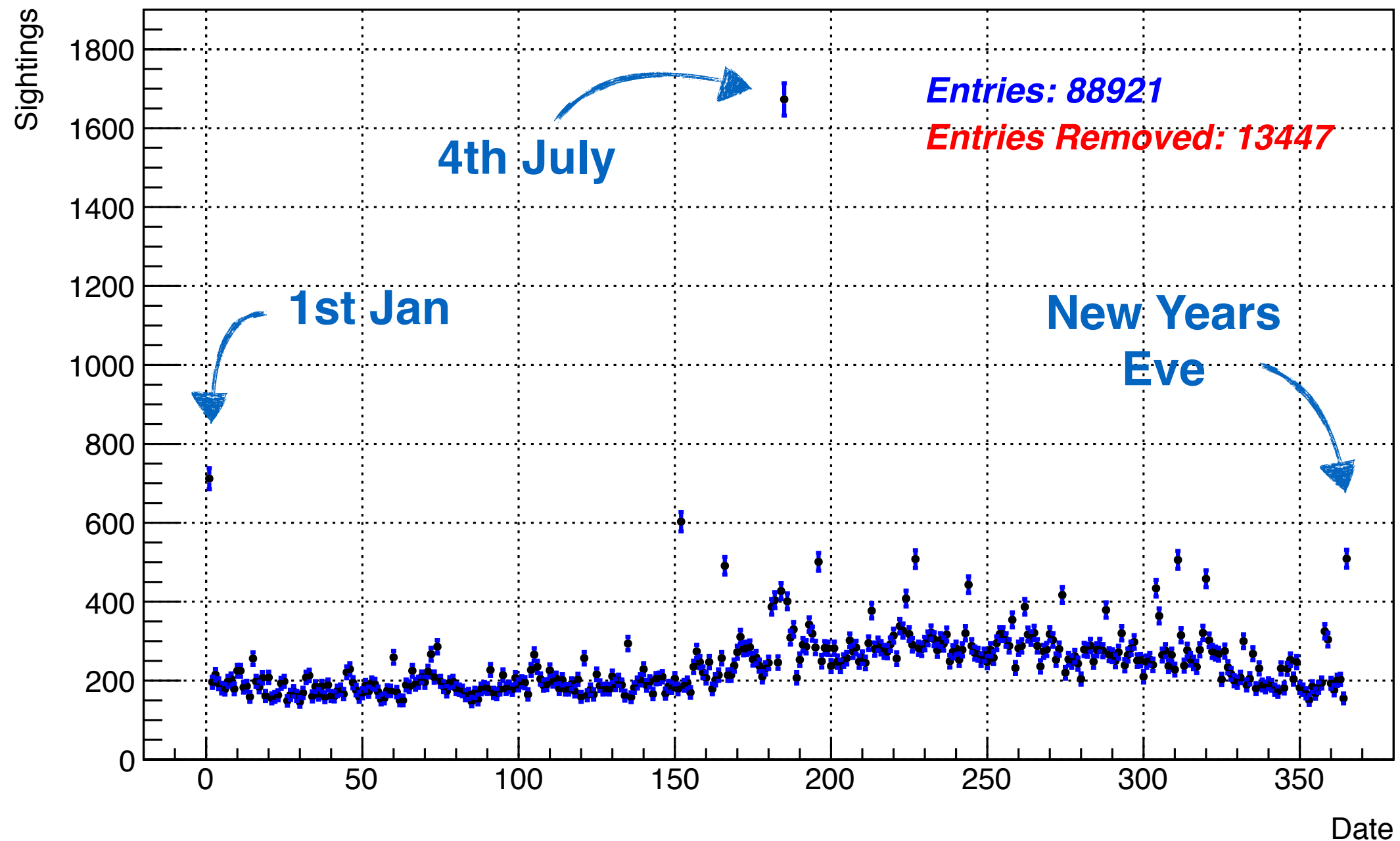Cleaned distribution of UFO sightings over the year

UFO Sightings vs. date of the year
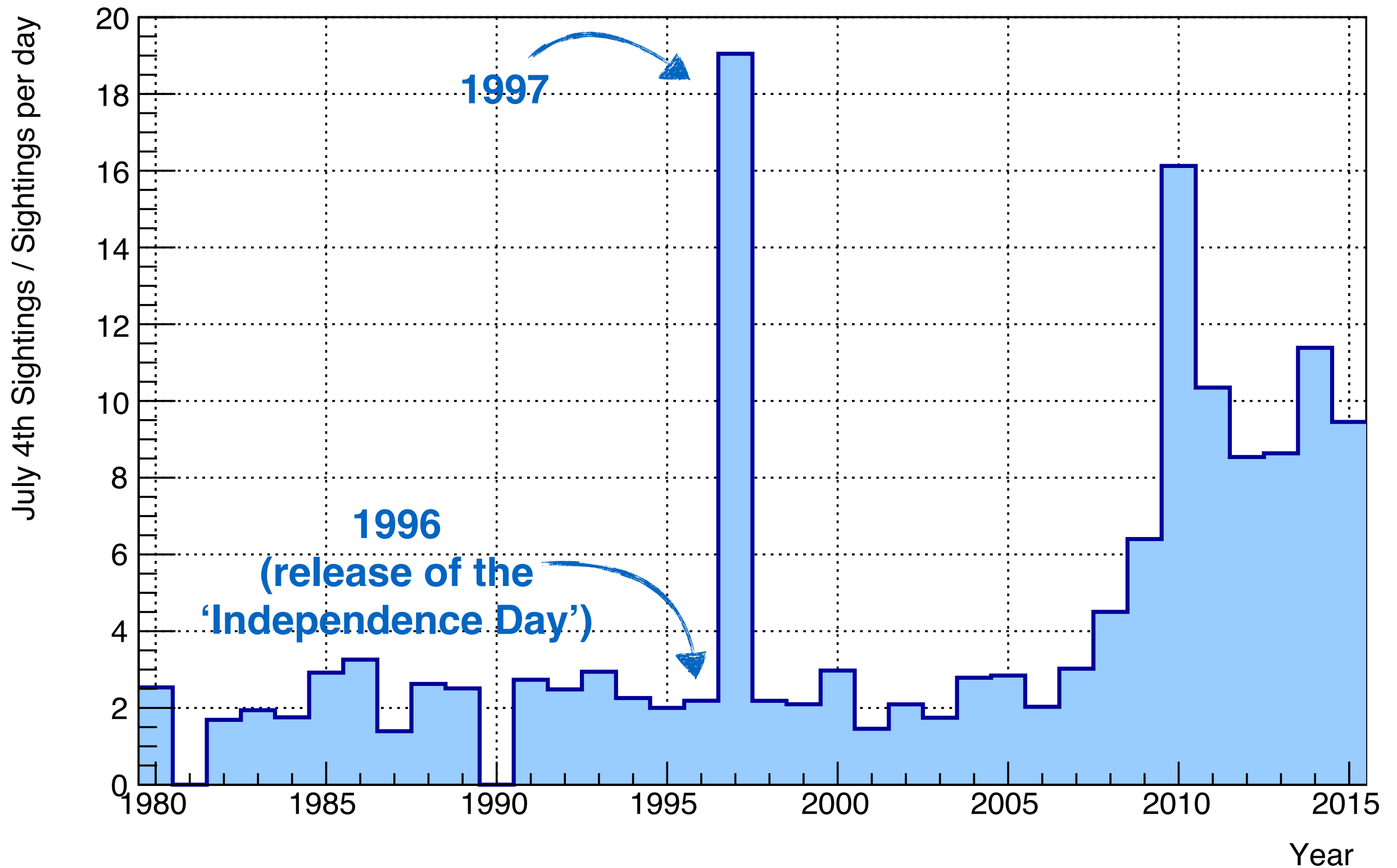

The removed UFO sightings
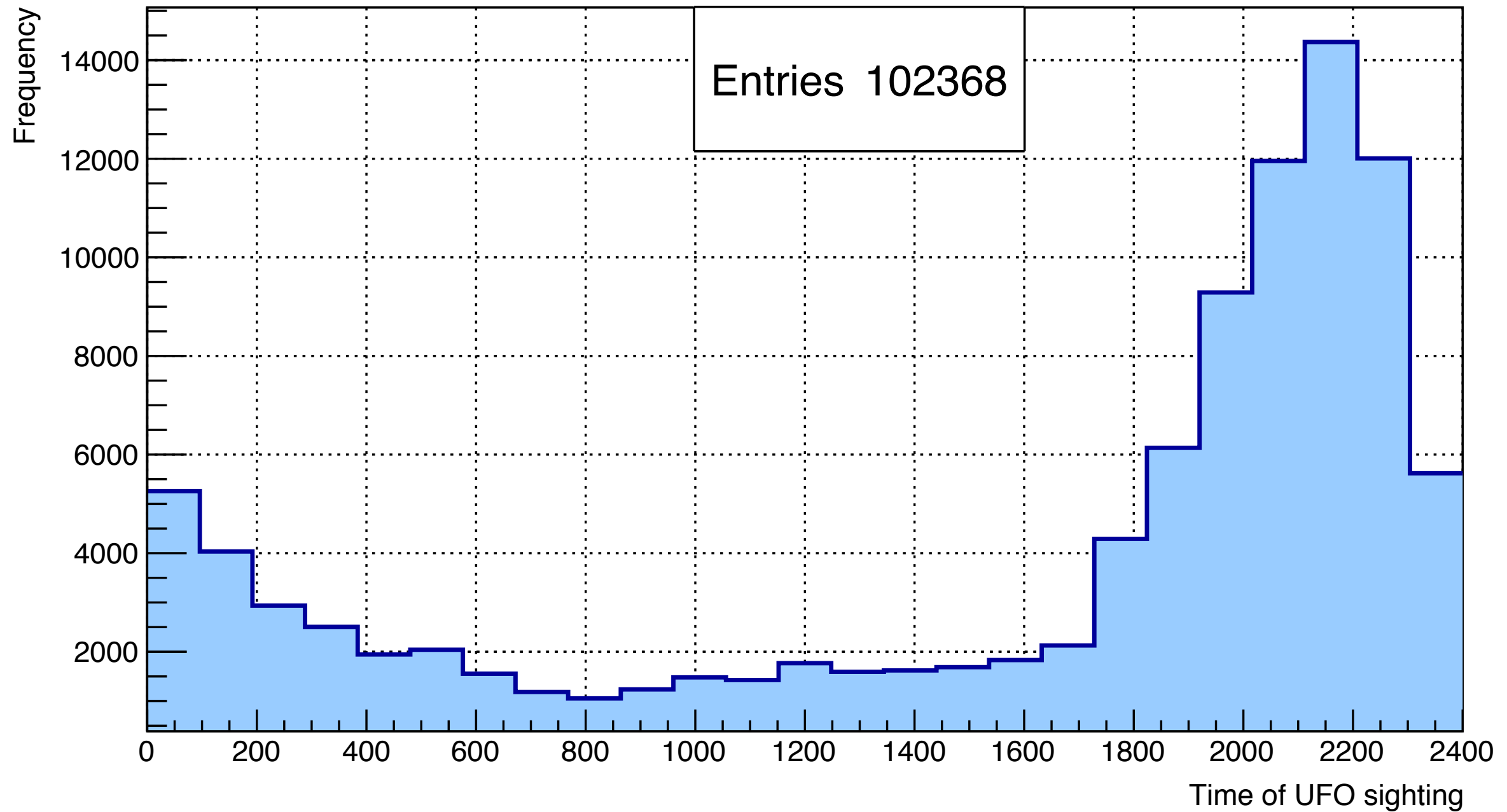
UFO Sightings vs. date of the year

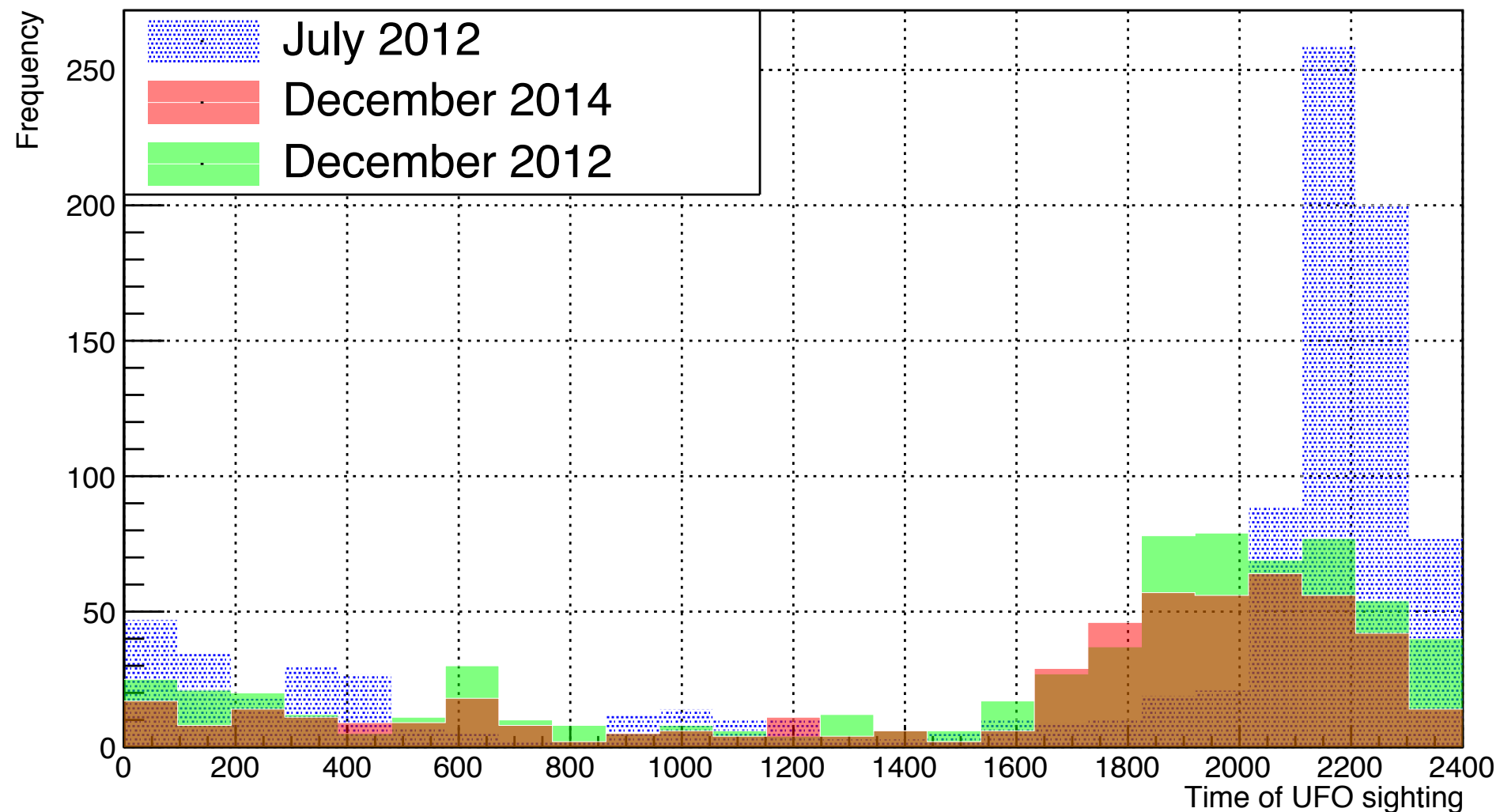Cleaned distribution of UFO sightings over the year

July 4th

July 4th Sightings / Sightings per day vs Year

1997

**1996
(release of the
'Independence Day')**

UFO Sightings vs. time of the day
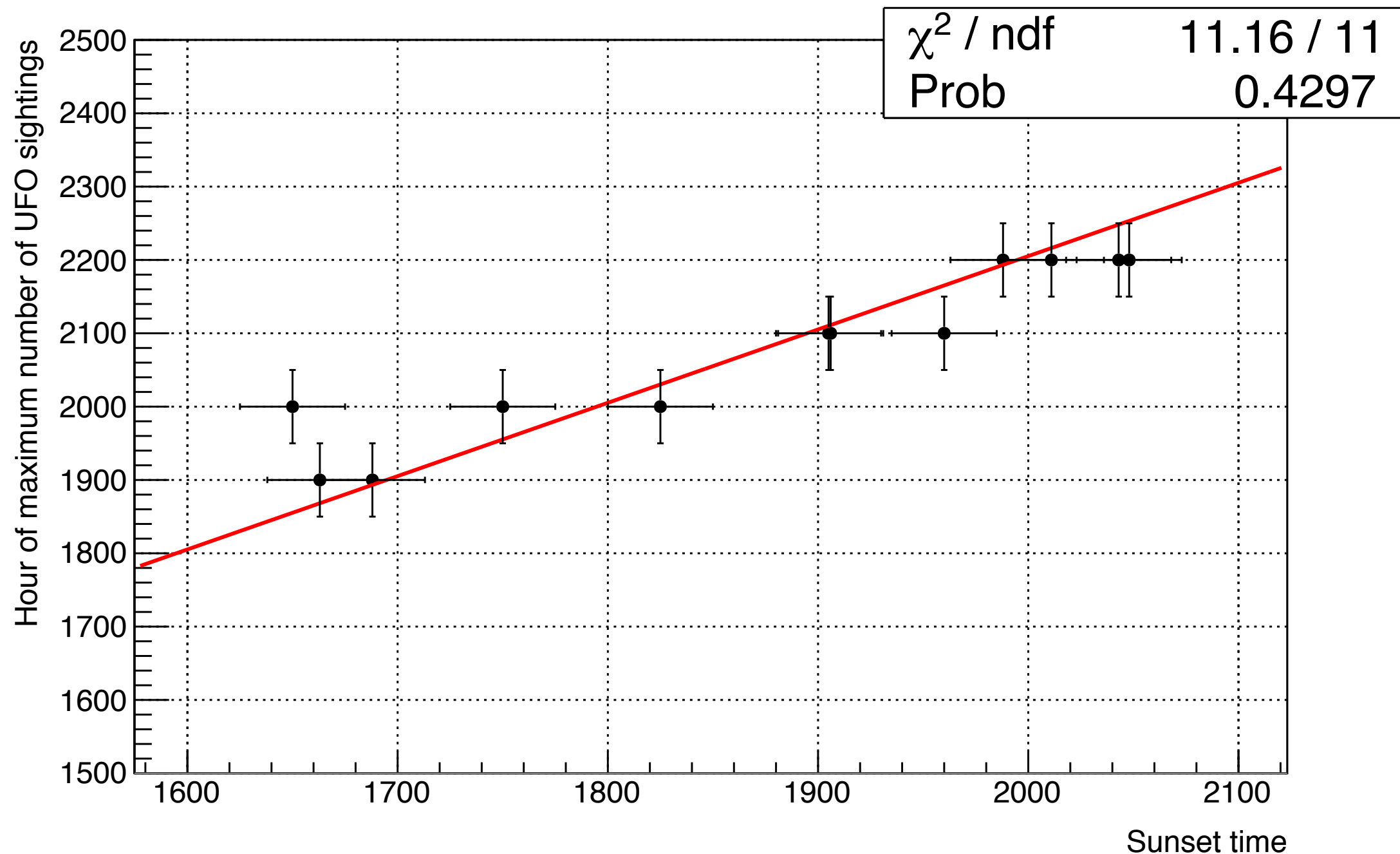
UFO Sightings vs. time of the day

Kolmogorov-Smirnov test between dec 2014 and dec 2012:

$$p = 0.43$$

Kolmogorov-Smirnov test between dec 2014 and july 2012:

$$p \approx 0$$

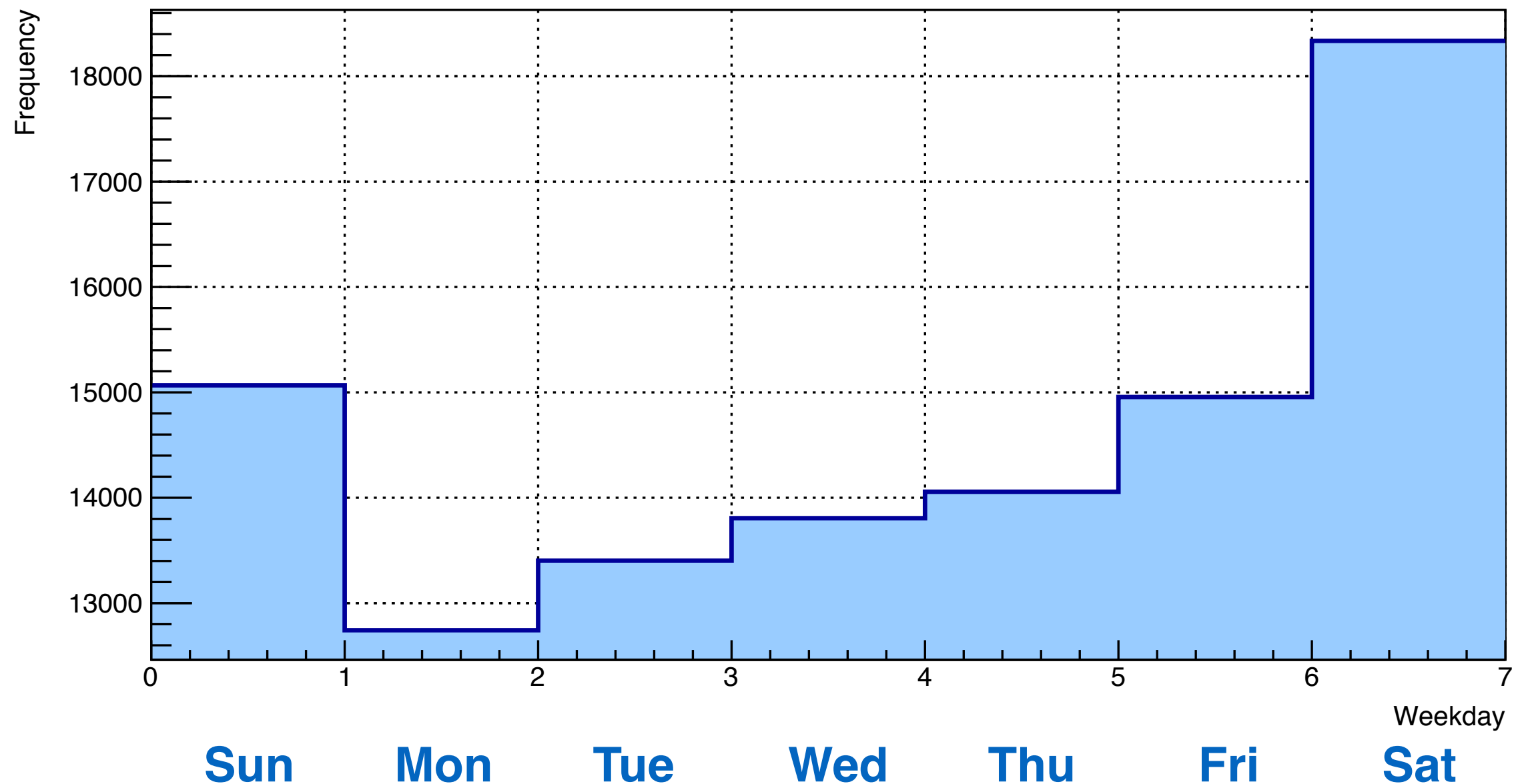# Hour of max # UFO sightings vs. Sunset time

Hypothesis: maximum number of UFO sightings occurs at time of sunset plus some offset
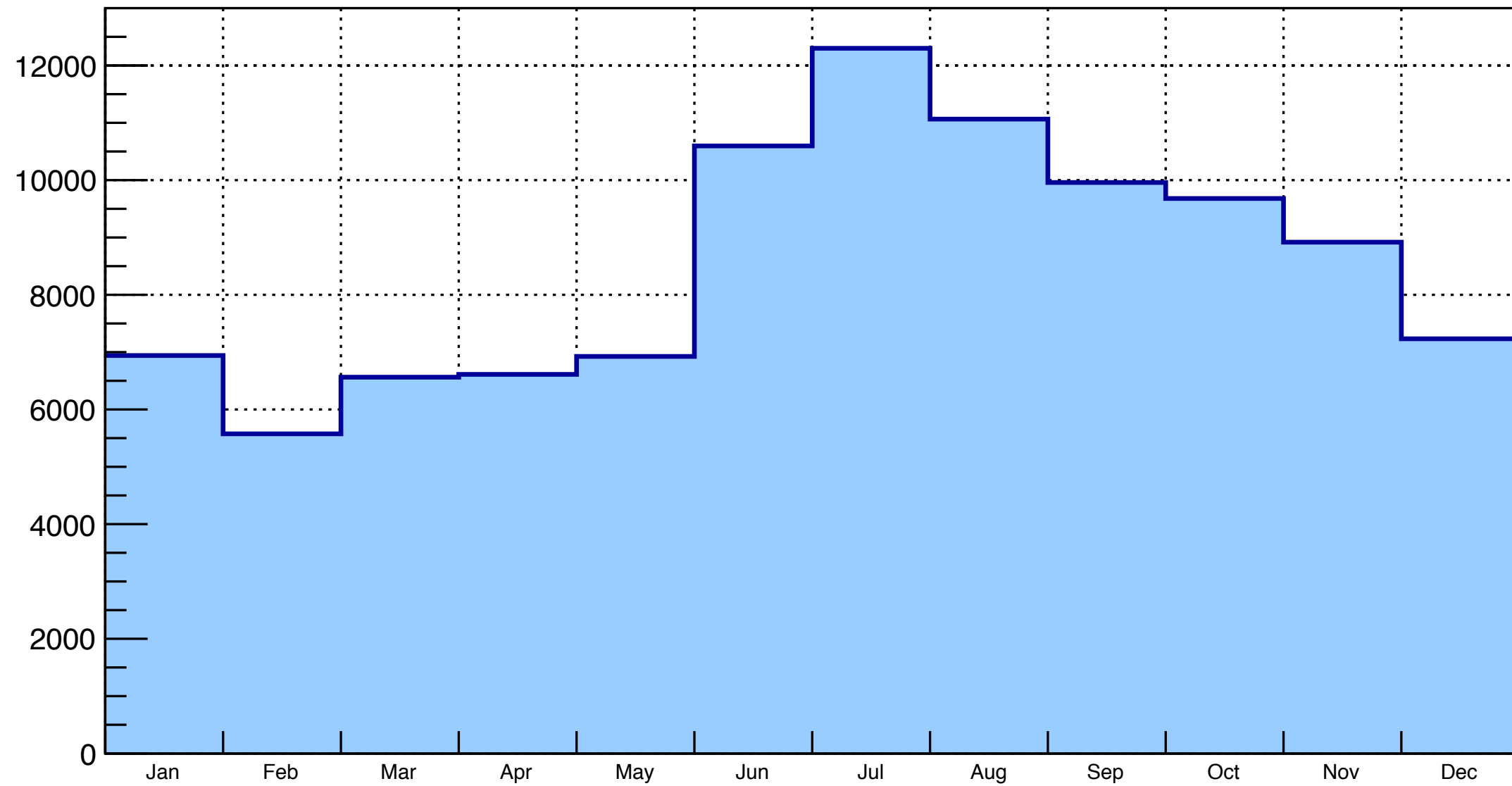
Bonus Slides

UFO Sightings per Weekday

Most UFO Sightings in the weekend

B1

UFO Sightings vs. Month

Most UFO Sightings in the summer