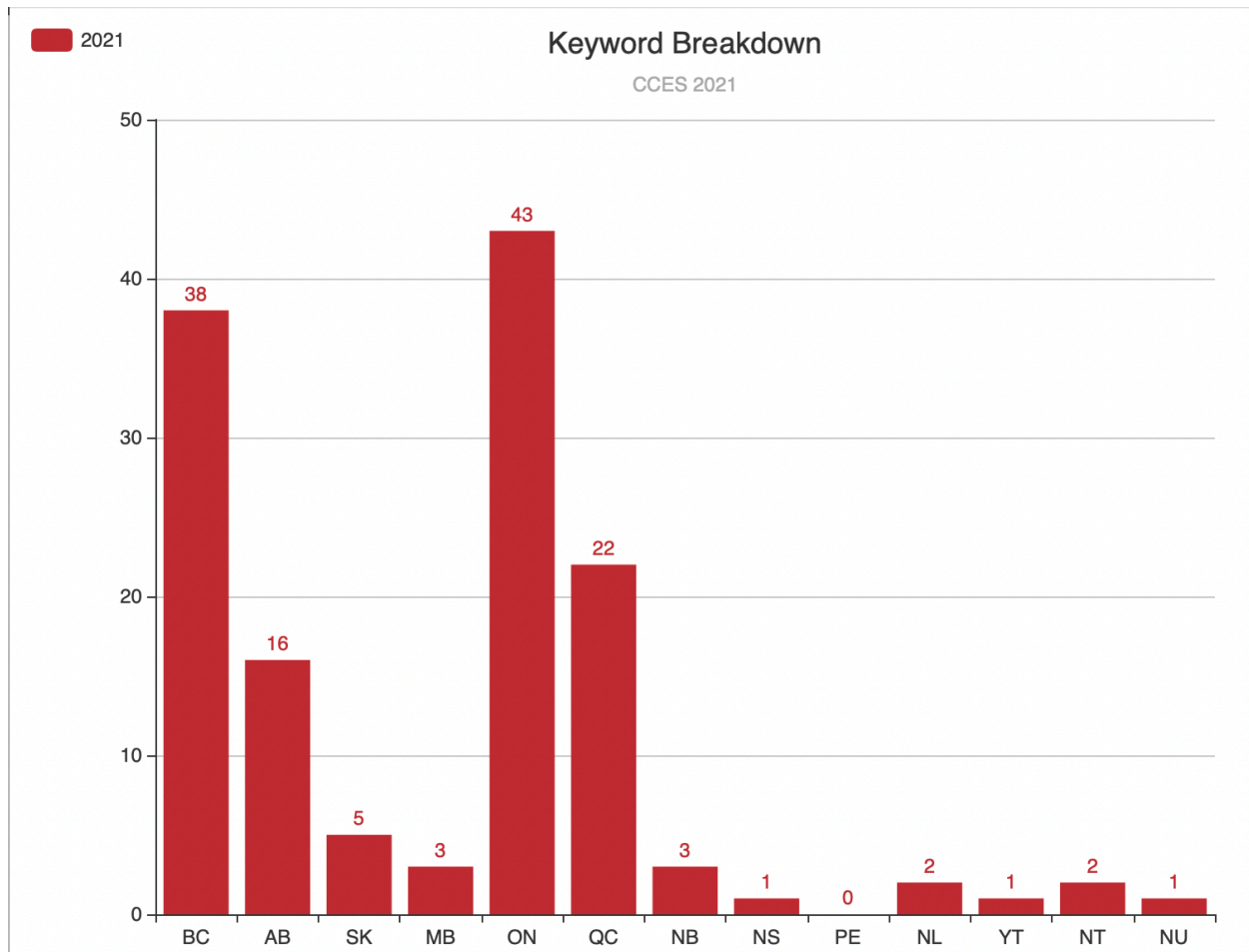


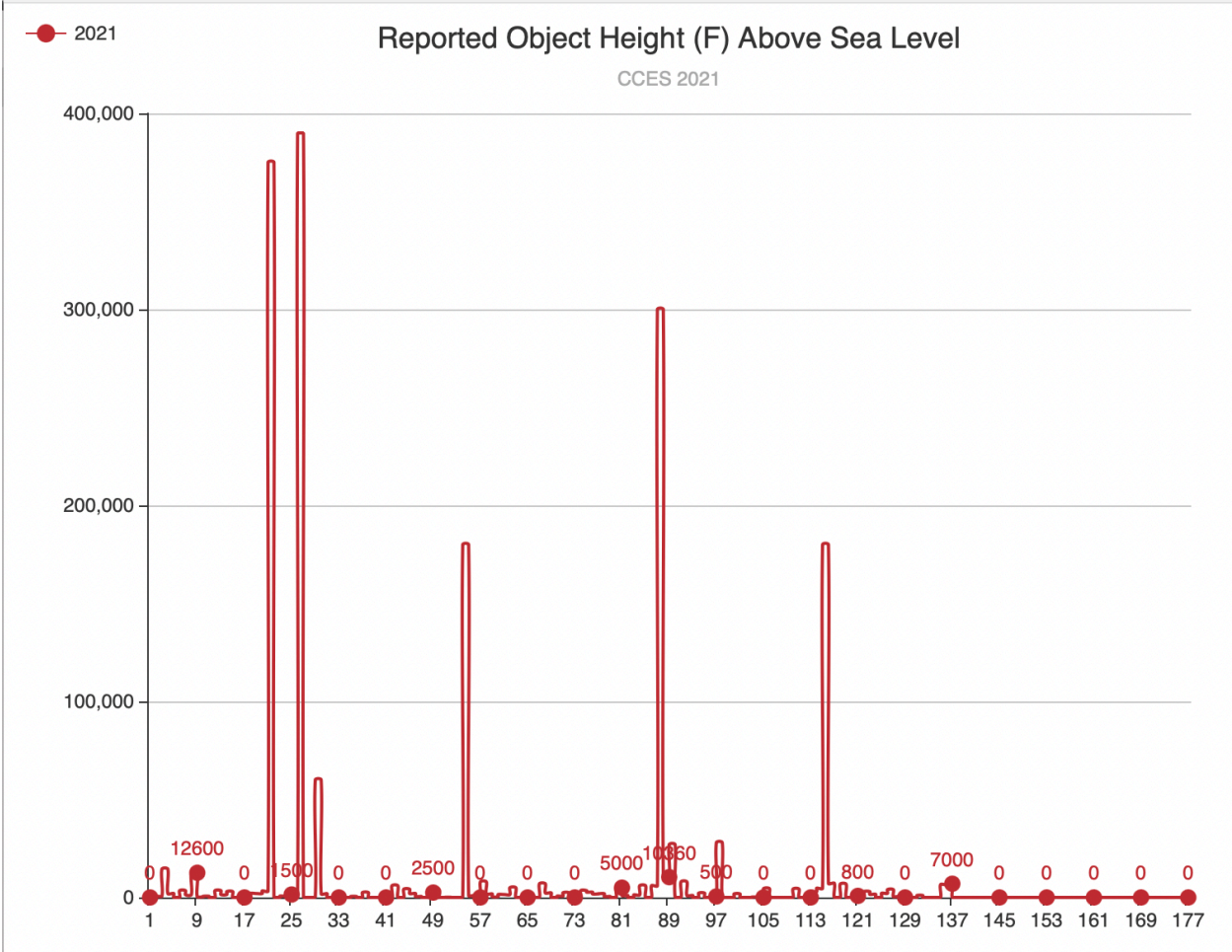
CCES 2021 Breakdown

From **January 1, 2021**, to **December 31, 2021**, Transport Canada received **137** occurrences interpreted as Drones, Unmanned Aerial Vehicles, or Unidentified Flying Objects. **32** more from 2020 at a **23%** increase. The total amount of events from 2019 to 2021 is **419** making the yearly average **139** events per year and approximately **34** events per month.

These **137** events from the year **2021** have been charted as follows:

Location and Time Data

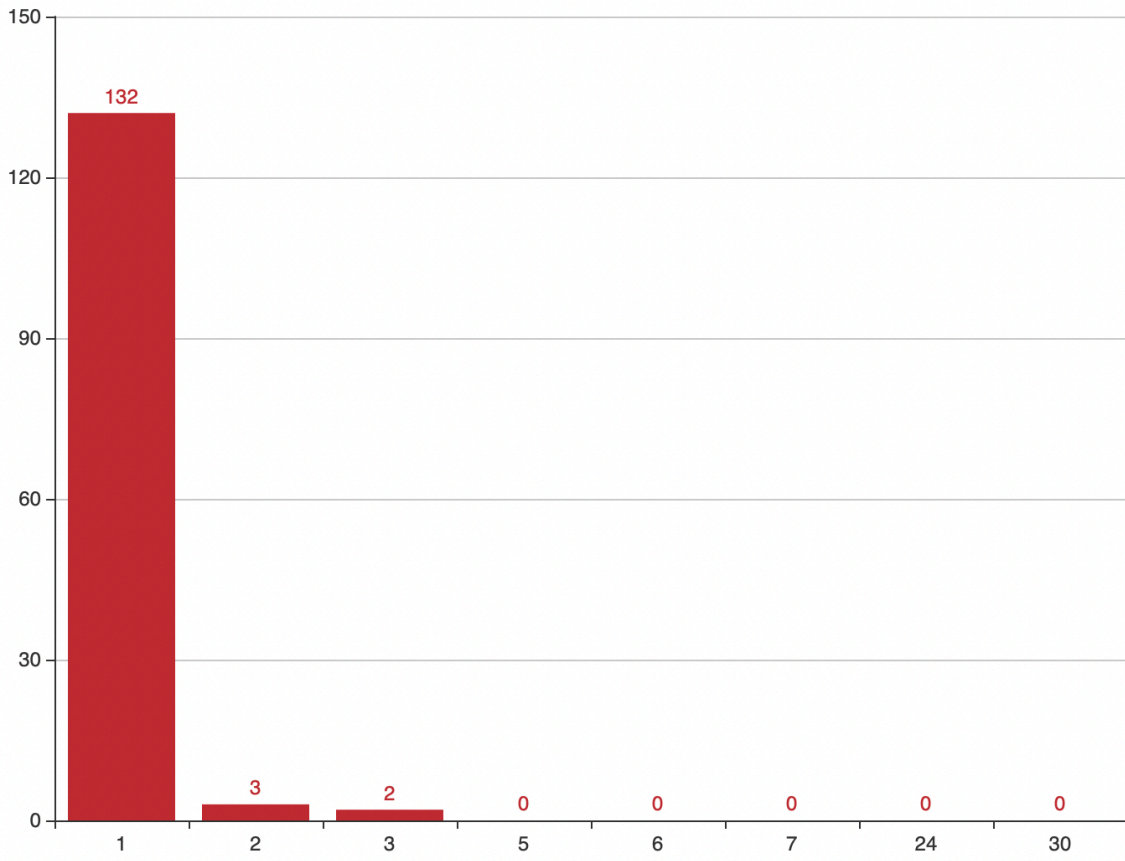




2021

Amount of Objects Seen

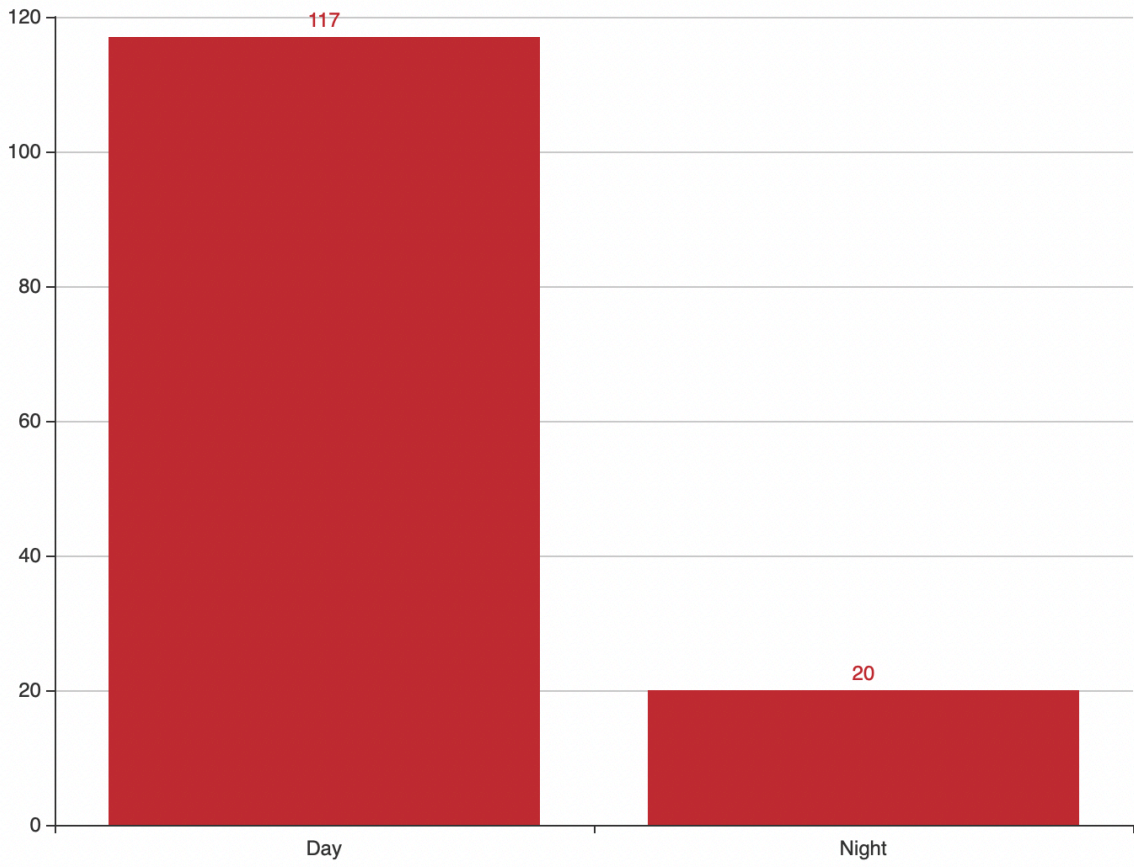
CCES 2021



2021

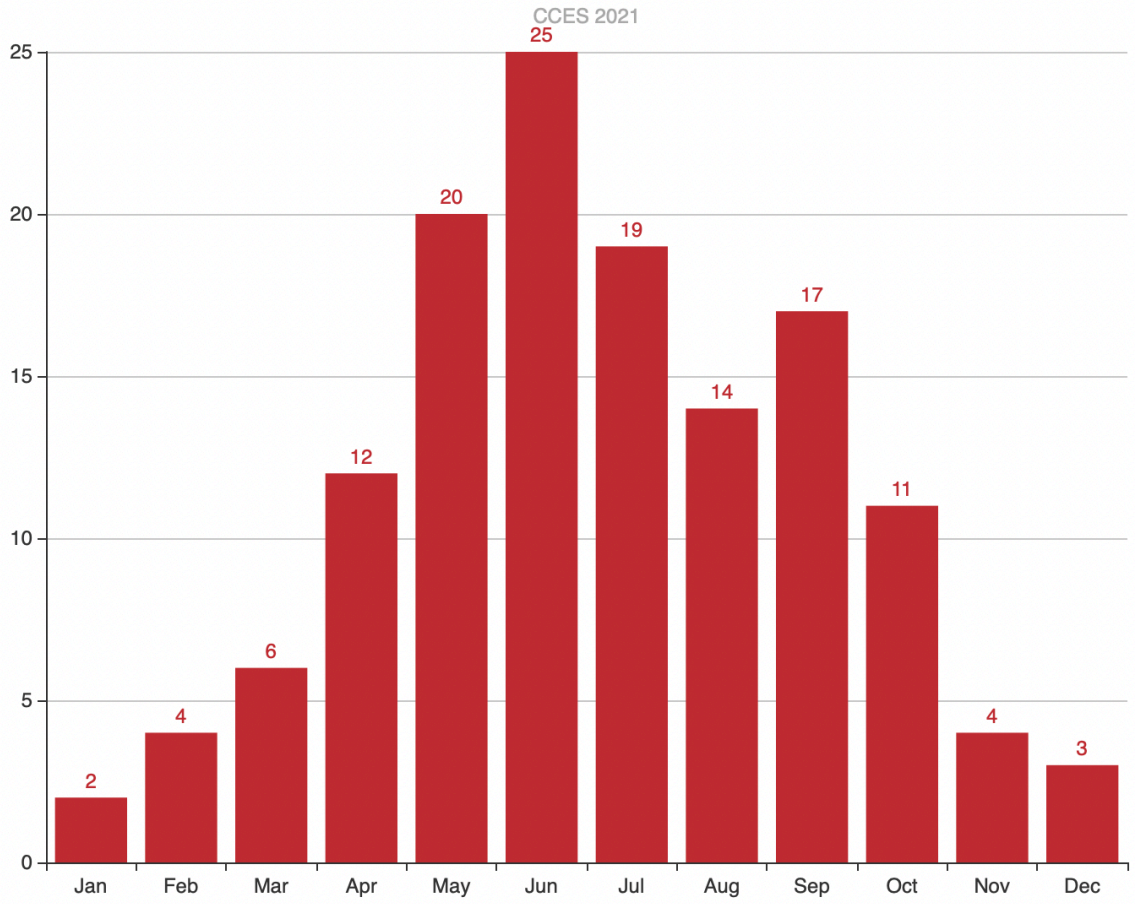
Time of Day

CCES 2021

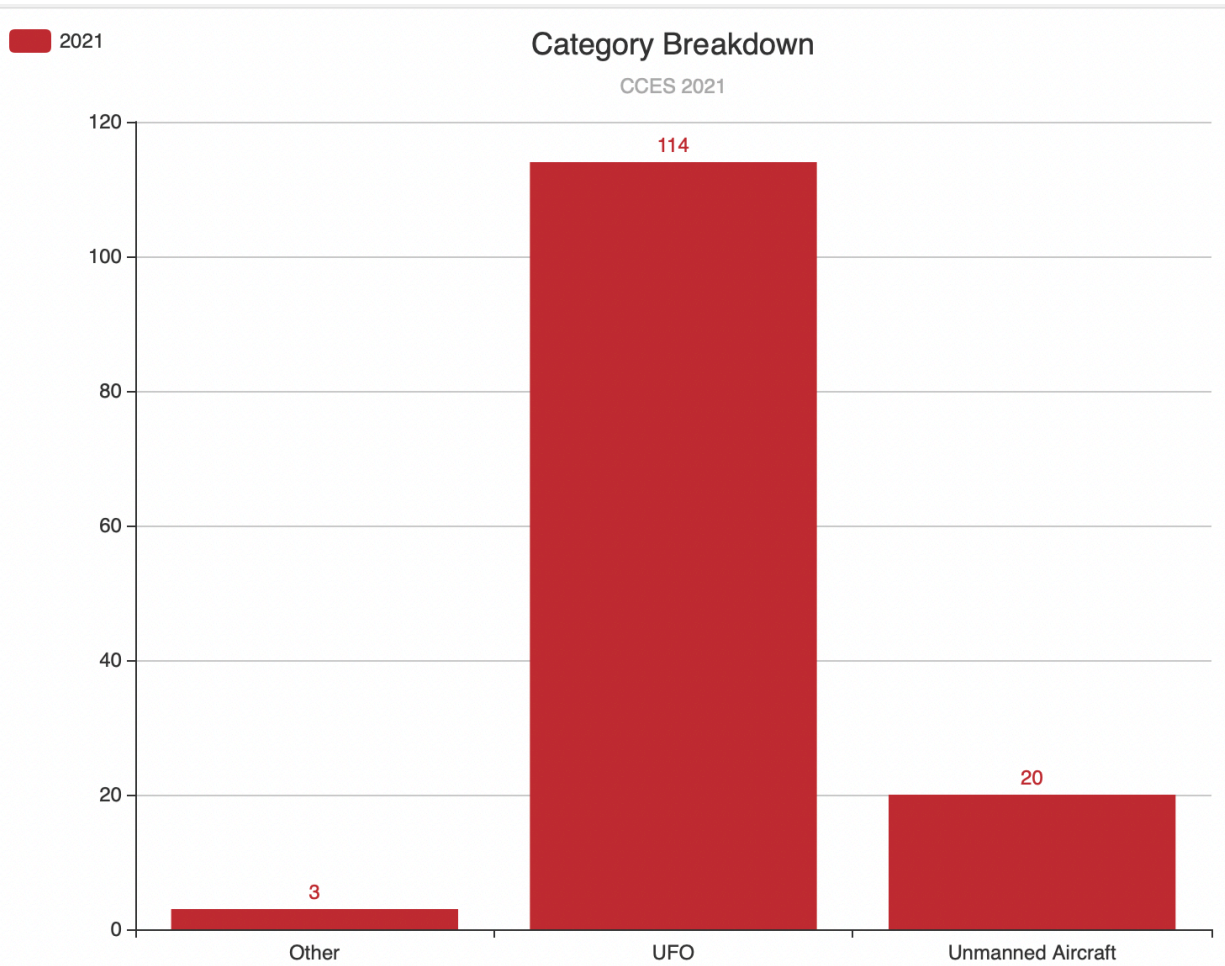


2021

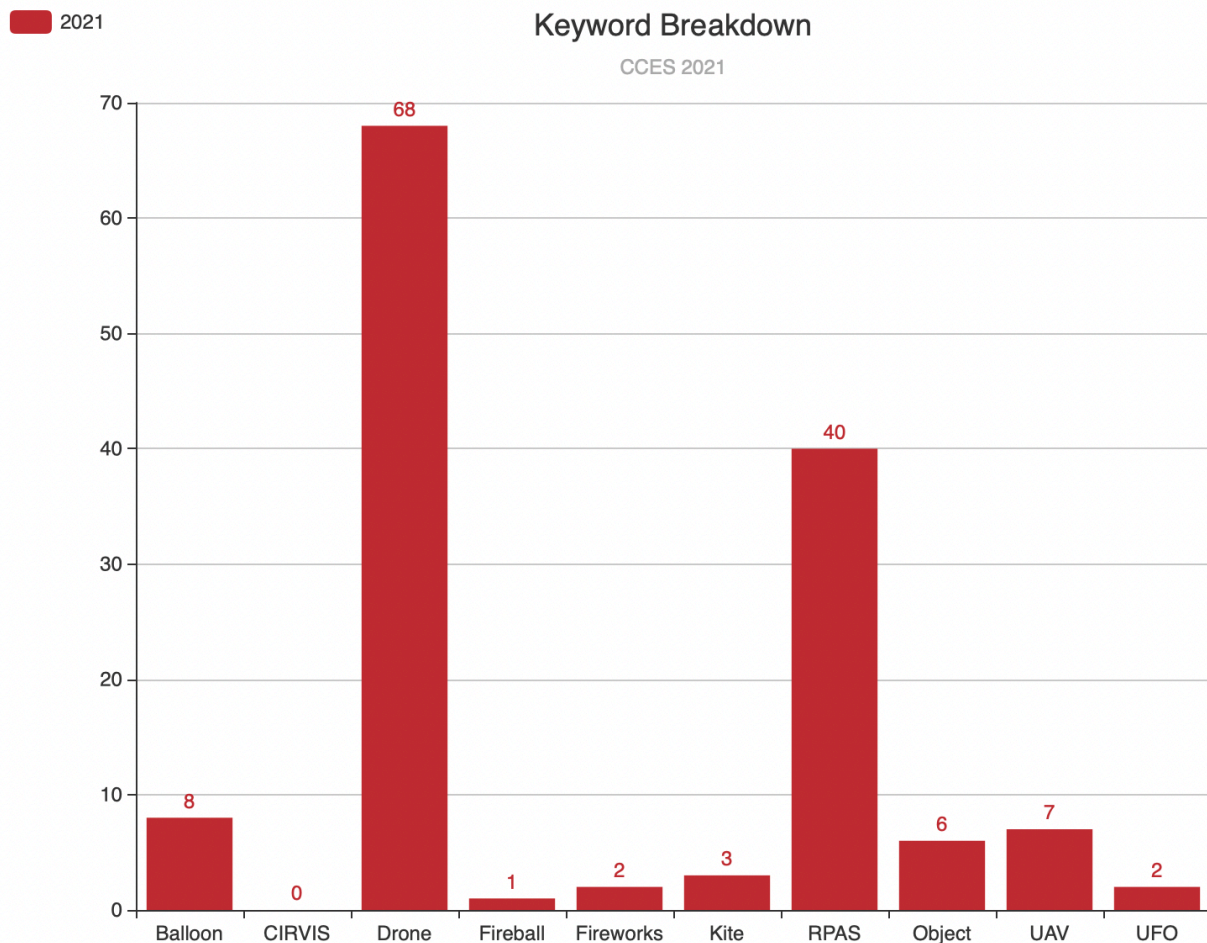
Events By Month



The following data displays how these events were categorized when the Transportation Safety Board of Canada received the reports:



The following data displays how the objects in these events were described when the CADORS reports were created.



My interpretation of this 2021 data is as follows:

31% of the events occurred in the province of Ontario

27% of the events occurred in the province of British Columbia

59% of the events occurred between these two provinces and is considered majority.

95% of the events were within the normal flight height range below 40,000

13% of the events were within the legal and safe flying height for drones.

37% of the events did not have a height recorded in the report

96% of the events involved a singular object

77% of the events occurred during day time hours

89% of the events occurred outside of winter months.

94% of the events are described as known objects

Commonly Known Relevant Facts:

- I. Ontario and British Columbia have the two busiest airports in Canada.
- II. The maximum altitude to fly commercial drones in Canada is 400 feet Above Ground Level
- III. It is challenging to operate more than one Drone/UAV at a time.
- IV. Human vision is best during the day
- V. May to November are warmer months within any given year and are times when people are outside more frequently

Reference:

1. <https://simpleflying.com/canada-busiest-passenger-airports/>
2. <https://tc.canada.ca/en/aviation/drone-safety/learn-rules-you-fly-your-drone/flying-your-drone-safely-legally>

Based on this information, I have concluded the majority as usual and ordinary variables within these circumstances.

As this is third-party information, there does remain the possibility of information changing between the experiencer and the report writer. Unfortunately, I cannot determine the percentage at this time. My current assumption is that any object reported above 500 feet is either an uncontrolled object, such as a balloon or firework, or an object controlled and operated by some form of government using technologies not commonly known to the general public.

There are a few areas of interest that I have considered questionable within this data. All of which I have requested access to information. I have tabled them below.

Questionable Data

The following data displays events within this dataset with unusual characteristics that prompted me to request further information from the Government of Canada.

Event 1:

Occurrence Summary

Date Entered:	2021-03-25
Narrative:	A Services Helicorp Inc. Robinson R44 (C-FZRA) from Montreal/St-Hubert Helicraft, QC (Heli) (CTG2) to Montreal/St-Hubert Helicraft, QC (Heli) (CTG2) reported a gray triangle-shaped drone flying 600ft west of the Hydro-Quebec Research Institute (IREQ). The Royal Canadian Mounted Police of Quebec (GDQ) unit was notified. No impact on operations.

“ A Services Helicorp Inc. Robinson R44 (C-FZRA) from Montreal/St-Hubert Helicraft, QC (Heli) (CTG2) to Montreal/ST-Hubert Helicraft, QC (Heli) (CTG2) reported a gray triangle-shaped drone flying 600ft west of the Hydro-Quebec Research Institute (IREQ). The Royal Canadian Mounted Police of Quebec (GDQ) unit was notified. No impact on operations.”

Additional data from CADORS:

- Occurrence number is 2021Q0666
- Occurrence date is 03-20-2021
- CADOR Entry was made 5 days after event
- Event time is 1811 Zulu (Day)
- Services Helicorp Inc. Robinson R44 (C-FZRA) was in Varennes, Quebec at the time of the event
- Occurrence category used is Drone
- Height was reported 100 feet above the legal Drone flying range.

Reason of Interest:

- Triangular Shape

I had completed an Access to Information Request to the appropriate department. After a thorough investigation, I received a letter indicating that they had no additional event information.