Flight Operations Analysis

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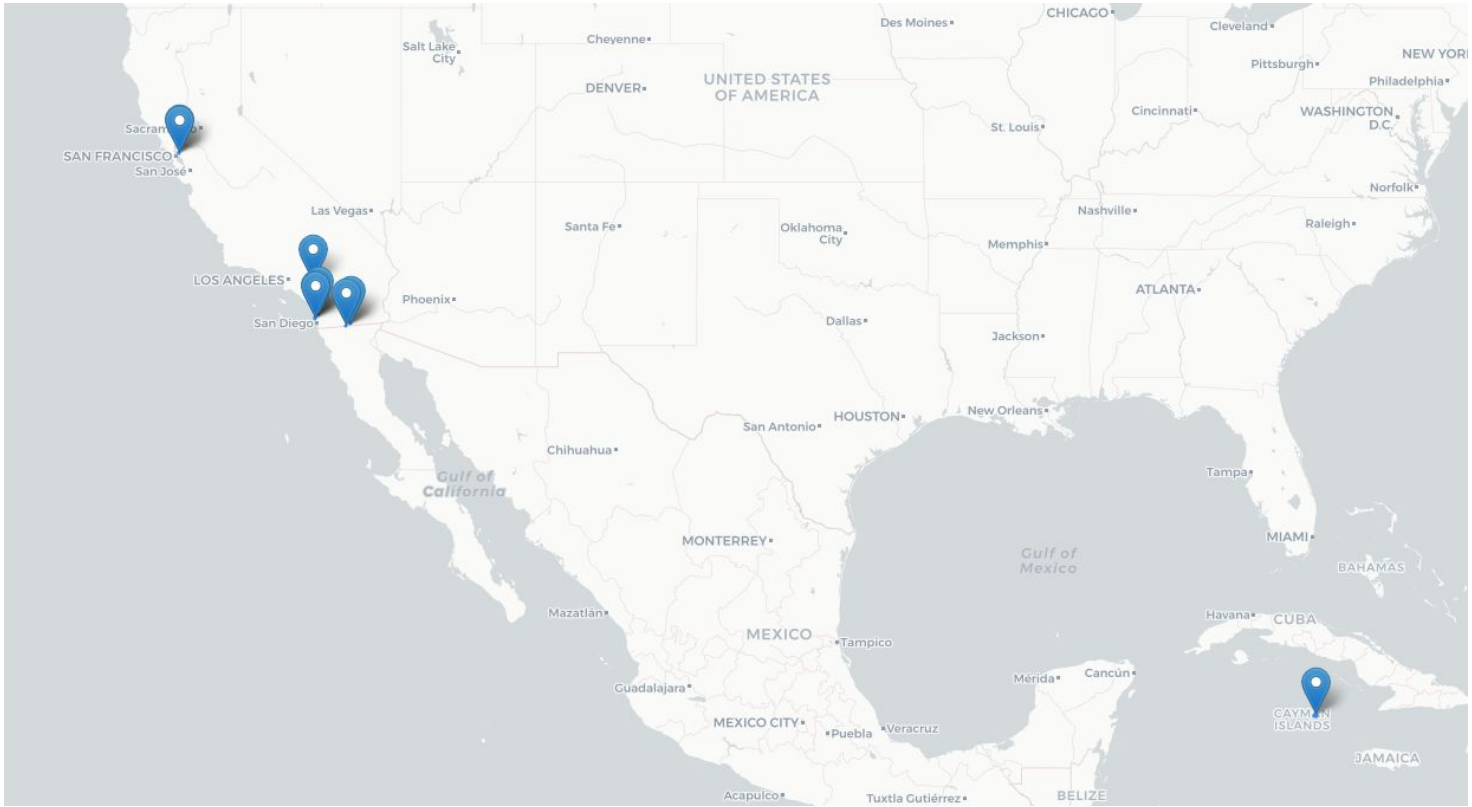
Flight Operations Data

- Engineers for Exploration and Cultural Heritage Engineering Initiative Drones
- 2016 to 2019
- ArduCopter and DJI Drones
- 201 logs

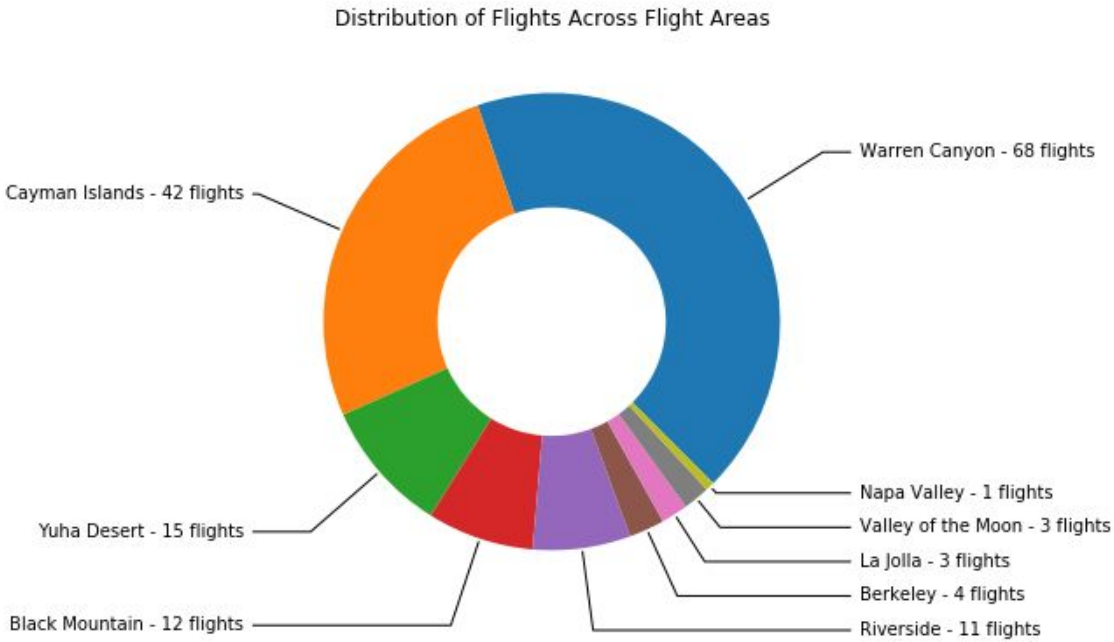
Objectives

- Program or Organization level view
- Risk Management - where are the pilots taking risk?

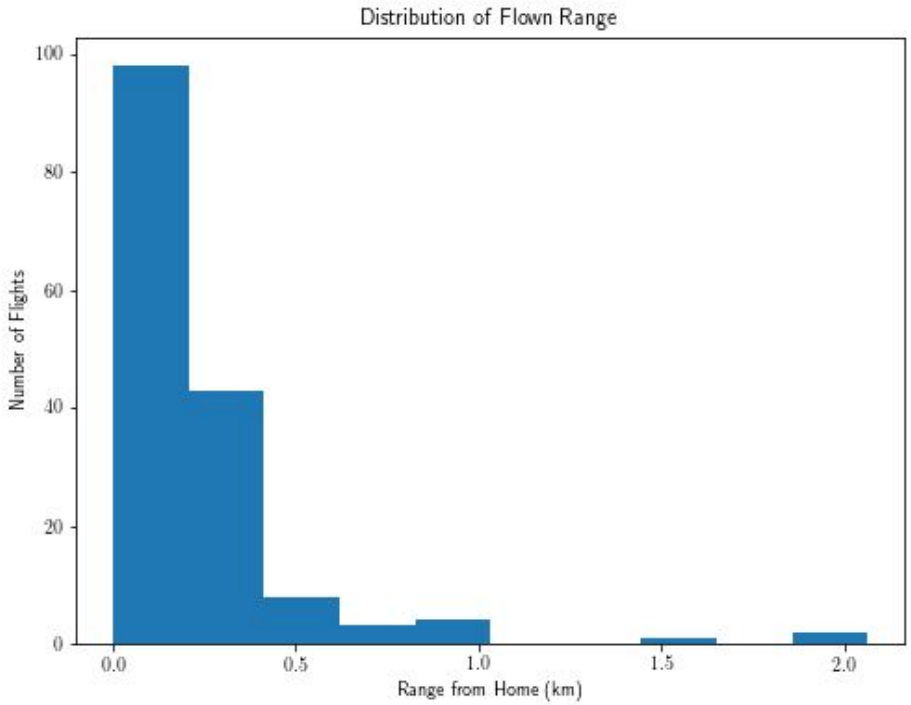
Operations Areas



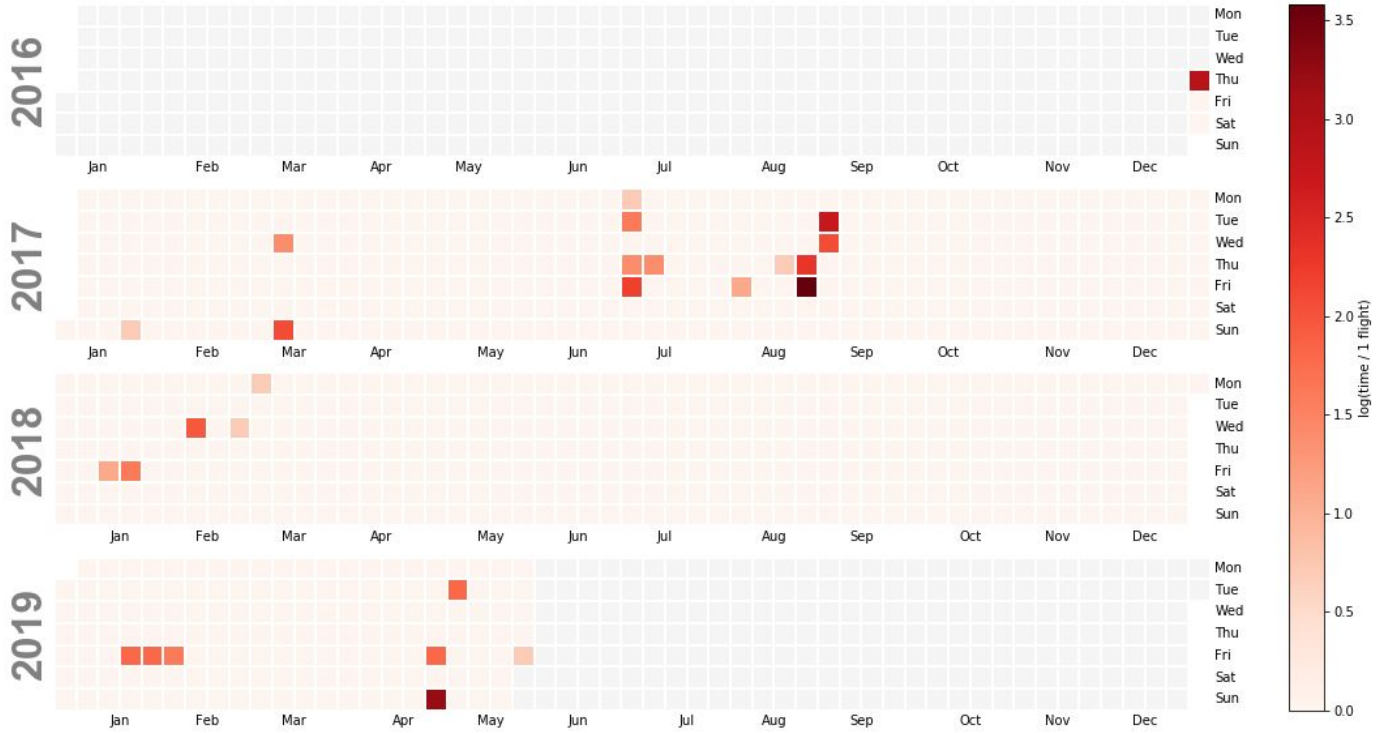
Operations Areas



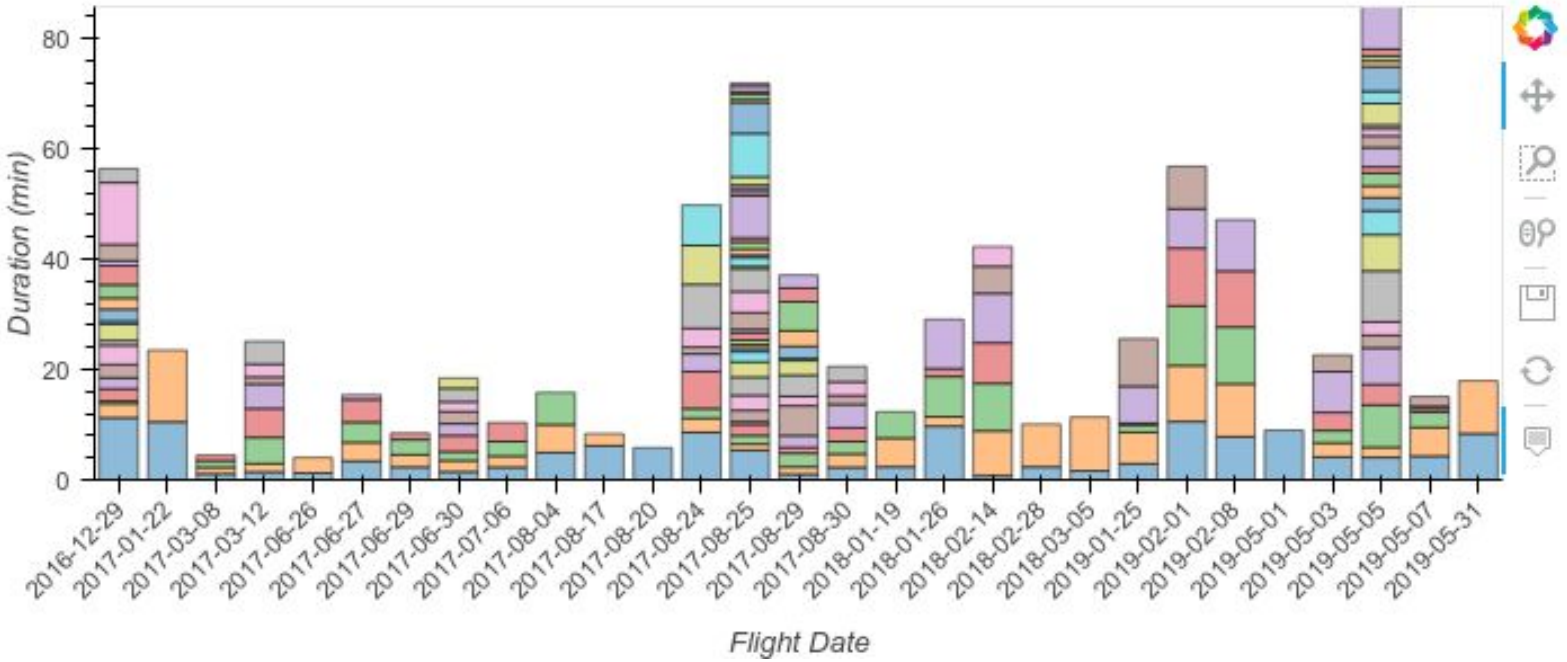
Typical Operating Range



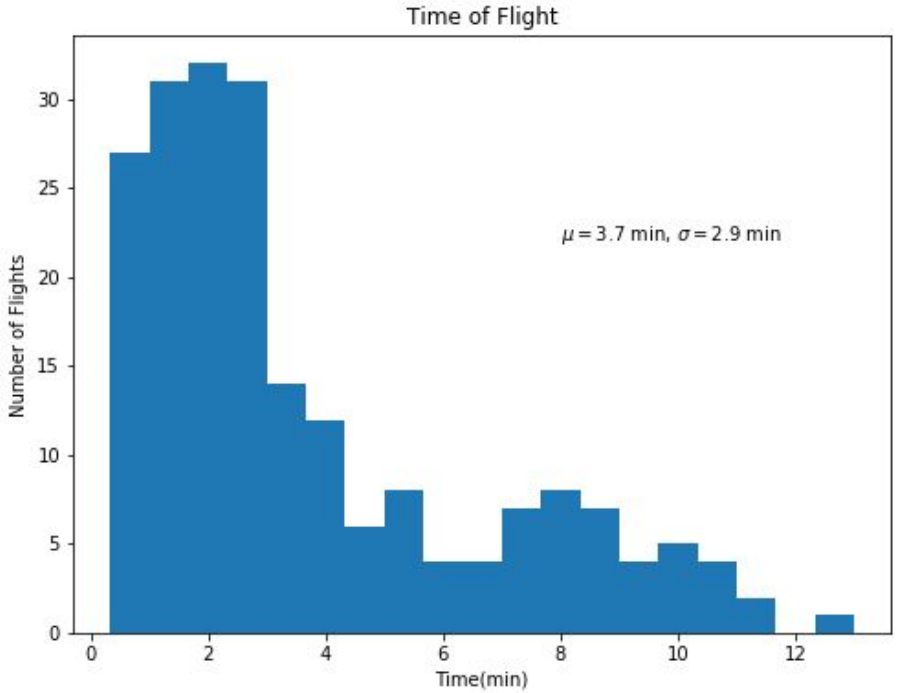
Operational Pace



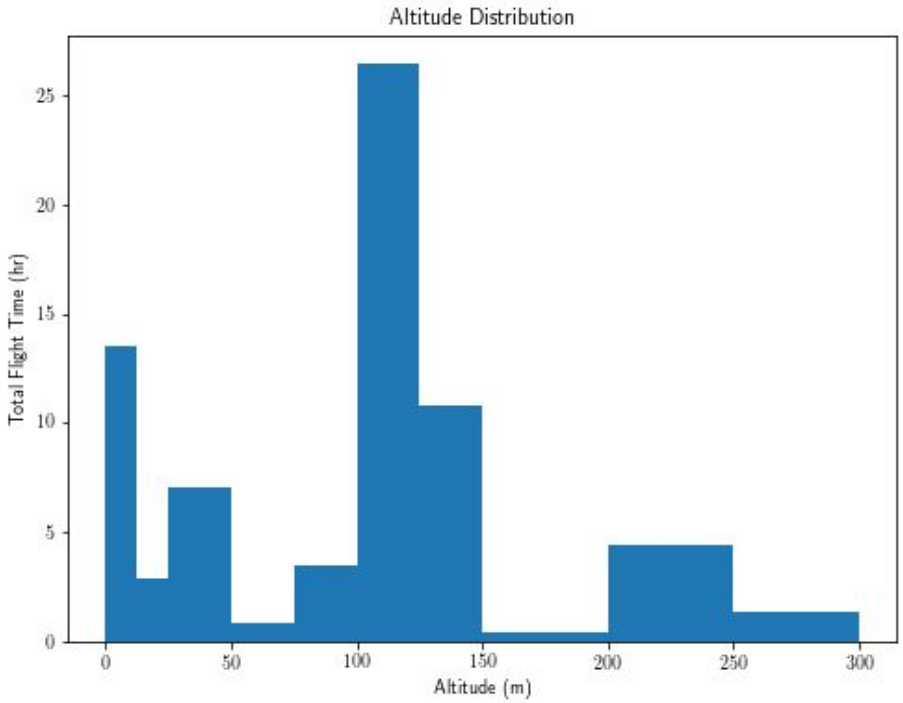
Flight Duration Breakdown



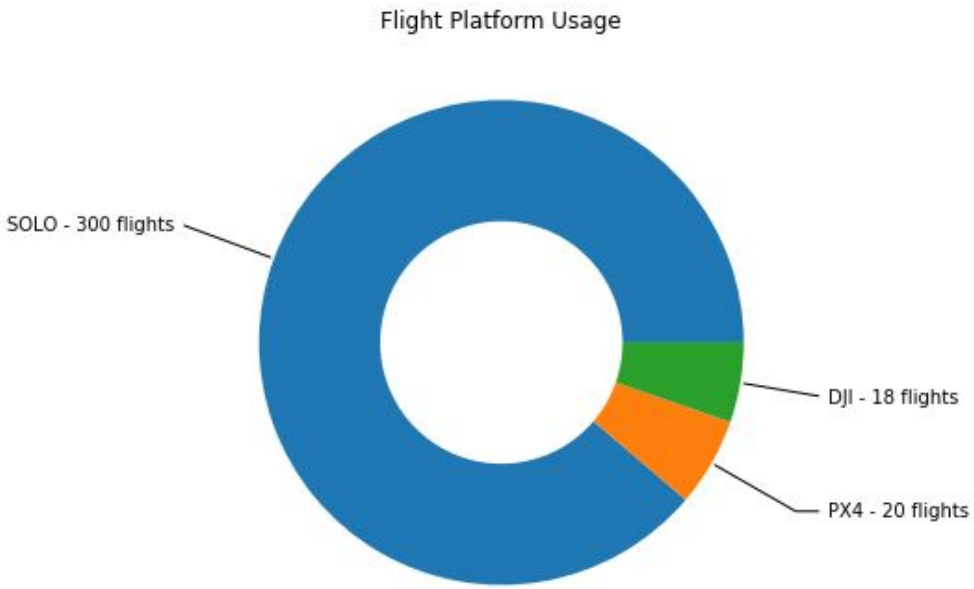
Typical Flight Times



Typical Flight Altitudes

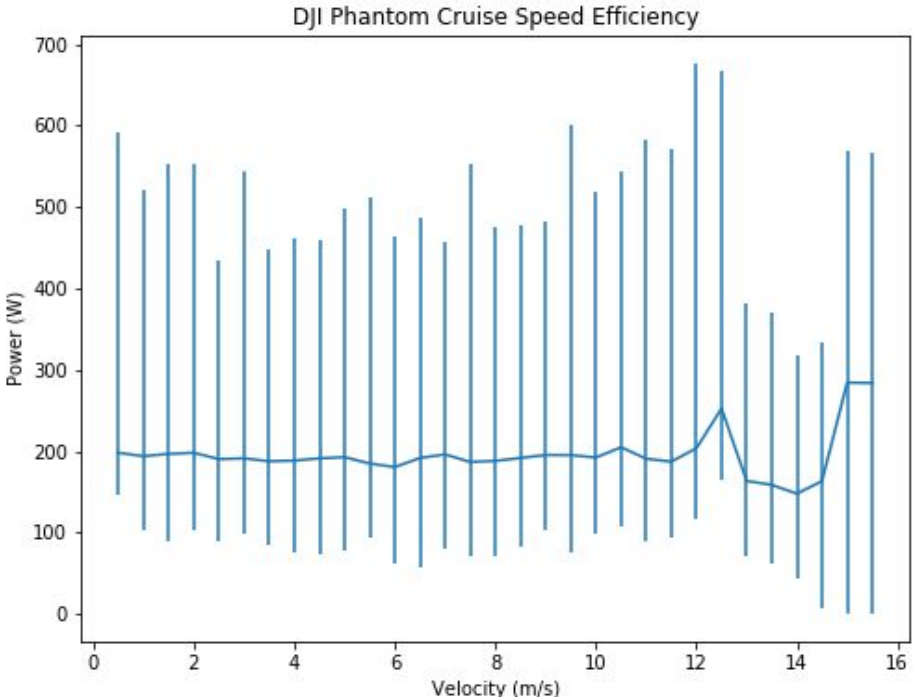


Flight Platform Usage



Cruising Speeds - 3DR Solo

Cruising Speeds - DJI Phantom



Risk Management Perspective

- Multiple locations - FAA/CAA regulations?
- Preferred flight areas - flight hazards?
- Frequency of flights - pilot proficiency?
- Flight altitude - sufficient low-level training?