

**A. high level analytics from the whole data set for a single day.**

13 November 2021

LAUNCH DATE

13 November 2021

LAUNCH DATE

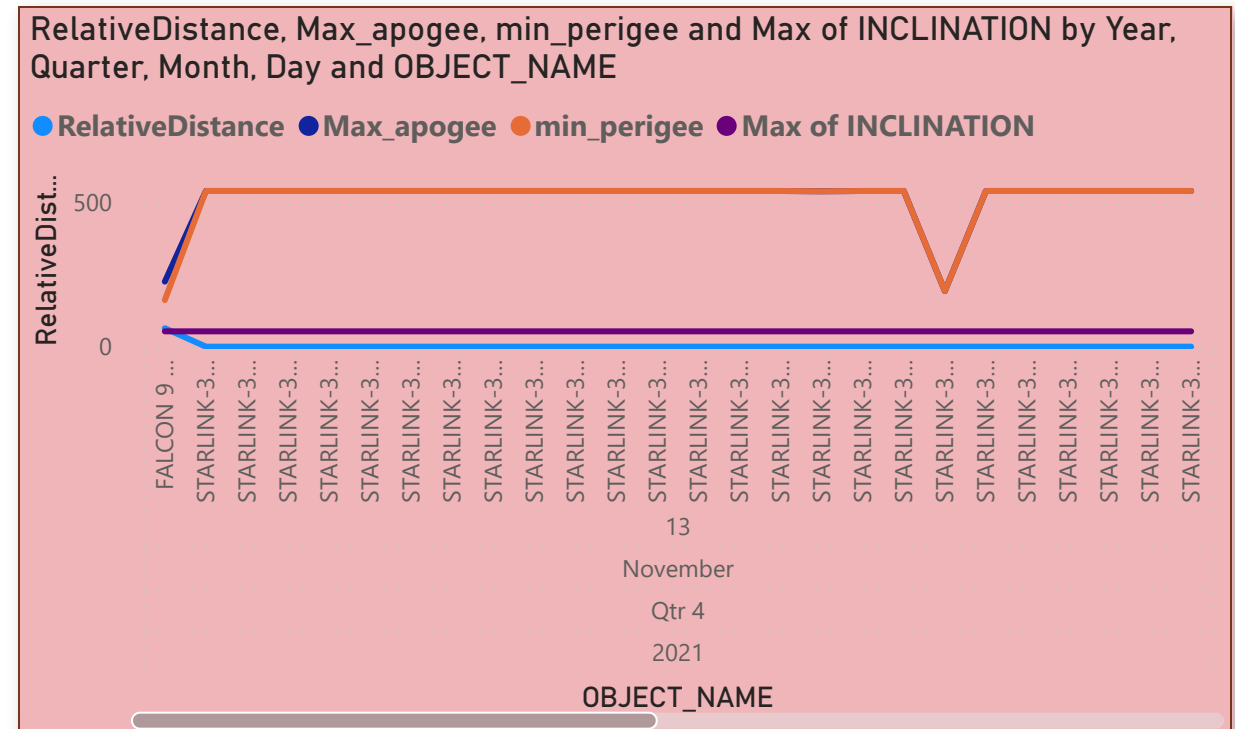
# Low Risk

ConjunctionRisk

# Low Risk

ConjunctionRisk

| OBJECT_NAME          | Year | Quarter | Month    | Day | Conjunction |
|----------------------|------|---------|----------|-----|-------------|
| 0.1 SQ METER TARGET  | 2021 | Qtr 4   | November | 13  | High Risk   |
| 1971-067 AKM         | 2021 | Qtr 4   | November | 13  | High Risk   |
| 1971-067 DEB         | 2021 | Qtr 4   | November | 13  | High Risk   |
| 1976-023 DEB         | 2021 | Qtr 4   | November | 13  | High Risk   |
| 1KUNS-PF             | 2021 | Qtr 4   | November | 13  | High Risk   |
| 3B5GSAT (SATELIOT 1) | 2021 | Qtr 4   | November | 13  | High Risk   |
| 3CAT-1               | 2021 | Qtr 4   | November | 13  | High Risk   |
| 3CAT-2               | 2021 | Qtr 4   | November | 13  | High Risk   |
| 3CAT-5A              | 2021 | Qtr 4   | November | 13  | High Risk   |
| 3CAT-5B              | 2021 | Qtr 4   | November | 13  | High Risk   |
| A-1 (ASTERIX)        | 2021 | Qtr 4   | November | 13  | High Risk   |
| AAC-AIS-SAT-1        | 2021 | Qtr 4   | November | 13  | High Risk   |



## B) Represent the conjunctions data of a single satellite or a satellite constellation.

| OBJECT_NAME   | Year | Quarter | Month   | Day | ConjunctionRisk |
|---------------|------|---------|---------|-----|-----------------|
| STARLINK-3144 | 1957 | Qtr 1   | January | 1   | High Risk       |
| STARLINK-3144 | 1957 | Qtr 1   | January | 2   | High Risk       |
| STARLINK-3144 | 1957 | Qtr 1   | January | 3   | High Risk       |
| STARLINK-3144 | 1957 | Qtr 1   | January | 4   | High Risk       |
| STARLINK-3144 | 1957 | Qtr 1   | January | 5   | High Risk       |
| STARLINK-3144 | 1957 | Qtr 1   | January | 6   | High Risk       |
| STARLINK-3144 | 1957 | Qtr 1   | January | 7   | High Risk       |
| STARLINK-3144 | 1957 | Qtr 1   | January | 8   | High Risk       |
| STARLINK-3144 | 1957 | Qtr 1   | January | 9   | High Risk       |
| STARLINK-3144 | 1957 | Qtr 1   | January | 10  | High Risk       |
| STARLINK-3144 | 1957 | Qtr 1   | January | 11  | High Risk       |
| STARLINK-3144 | 1957 | Qtr 1   | January | 12  | High Risk       |
| STARLINK-3144 | 1957 | Qtr 1   | January | 13  | High Risk       |
| STARLINK-3144 | 1957 | Qtr 1   | January | 14  | High Risk       |
| STARLINK-3144 | 1957 | Qtr 1   | January | 15  | High Risk       |
| STARLINK-3144 | 1957 | Qtr 1   | January | 16  | High Risk       |
| Total         |      |         |         |     | High Risk       |

LAUNCH\_DATE

04-10-1957

26-07-1958

Question 2.Data analysis for 7 days

Name of satellite

OBJECT\_NAME

☐ EXPLORER 1

☐ EXPLORER 3

☒ EXPLORER 4

0

RelativeDistance

585

Max\_apogee

585

min\_perigee

50.25

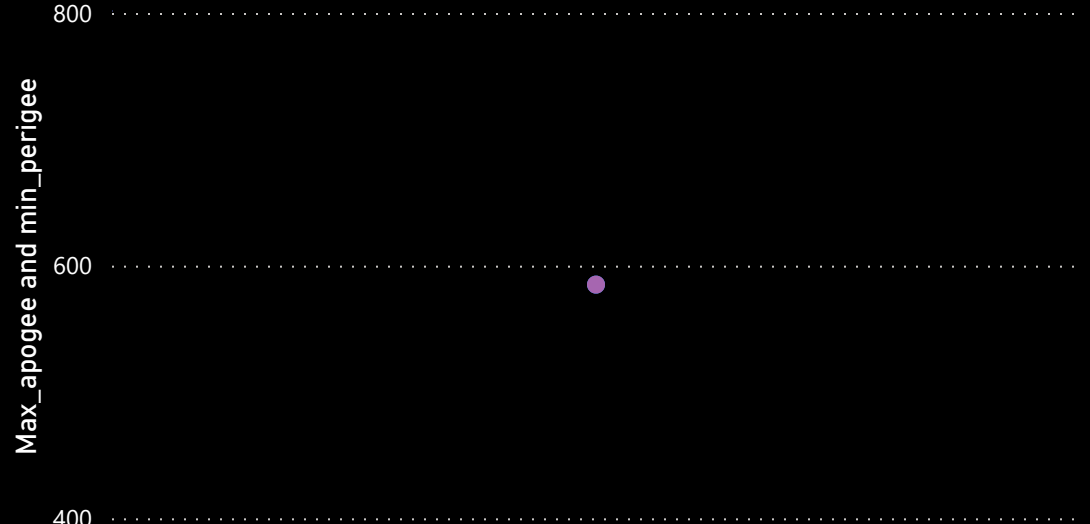
Average of INCLINATION

High Risk

ConjunctionRisk

Max\_apogee and min\_perigee by OBJECT\_NAME

● Max\_apogee ● min\_perigee



| OBJECT_NAME | Max_apogee | min_perigee |
|-------------|------------|-------------|
| EXPLORER 4  | 585        | 585         |

| OBJECT_NAME | OBJECT_TYPE | Year | Quarter | Month   | Day |
|-------------|-------------|------|---------|---------|-----|
| EXPLORER 4  | PAY         | 1959 | Qtr 4   | October | 23  |