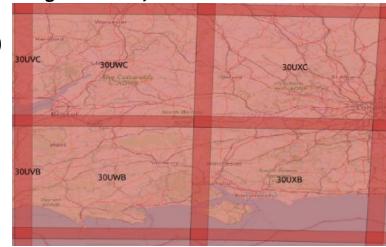
Results

S1, S1 separated, and S2 band 08

The left subplot refers to the actual value while the right subplot are the errors. The model, pixel and the data considered is mentioned in the title. Please refer to the legend for additional information.

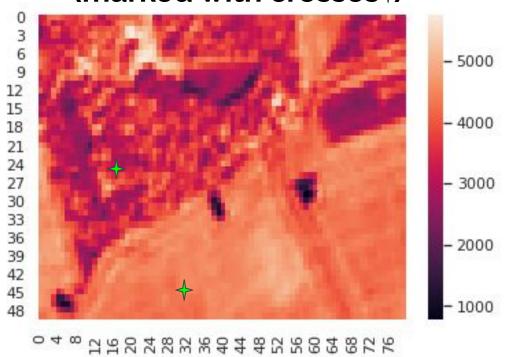
Time, area and, data under consideration

- Time period between 01.01.2019 31.12.2021
- Area: Top 80x50 area of Surrey, UK Tile 30UXB (As displayed in the figure below)
- **♦** Data used:
 - > Sentinel 1
 - > Sentinel 1 separated in ascending and descending orbits and,
 - ➤ Sentinel 2, Band 08
- **Area under focus (i.e. plotted for every time step)**
 - **→** 45_32
 - **>** 25 16
- Models compared:
 - > Prophet
 - AutoARIMA

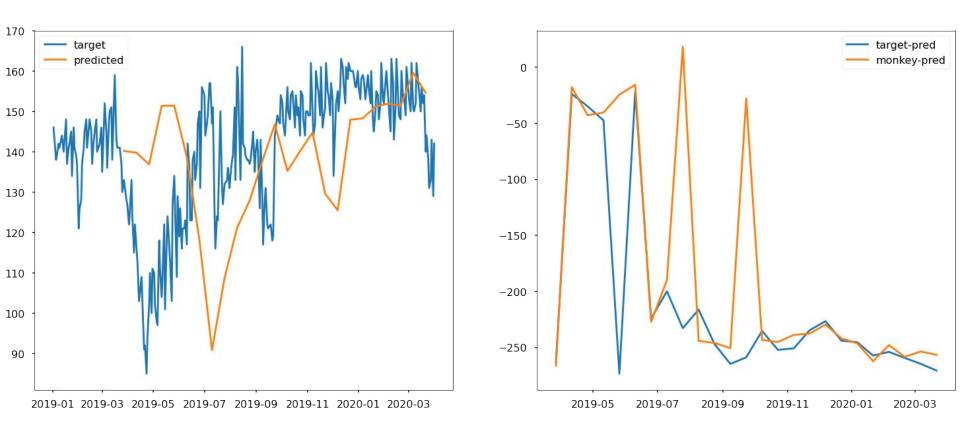


Note: Variations in data and time period in individual cases are mentioned separately

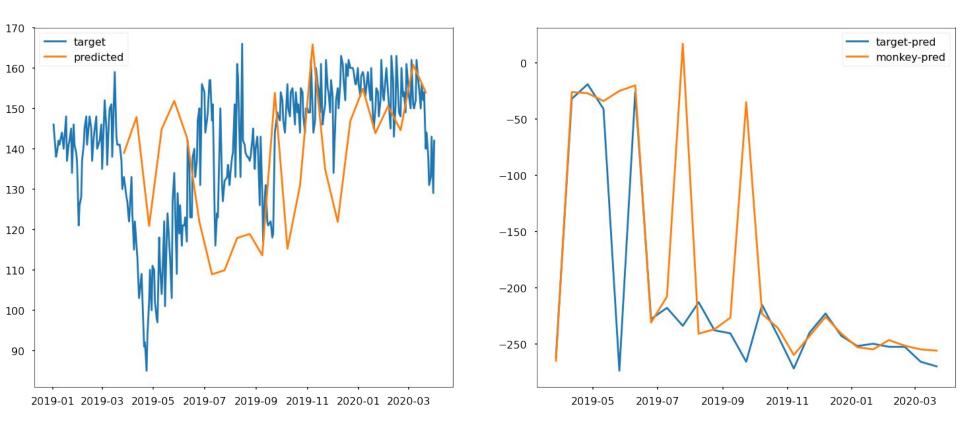
Area under focus (marked with crosses+)



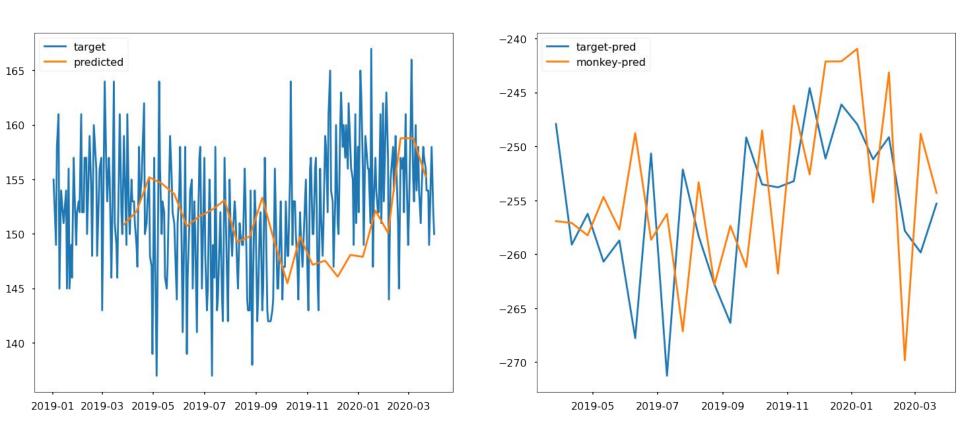
Results: S1



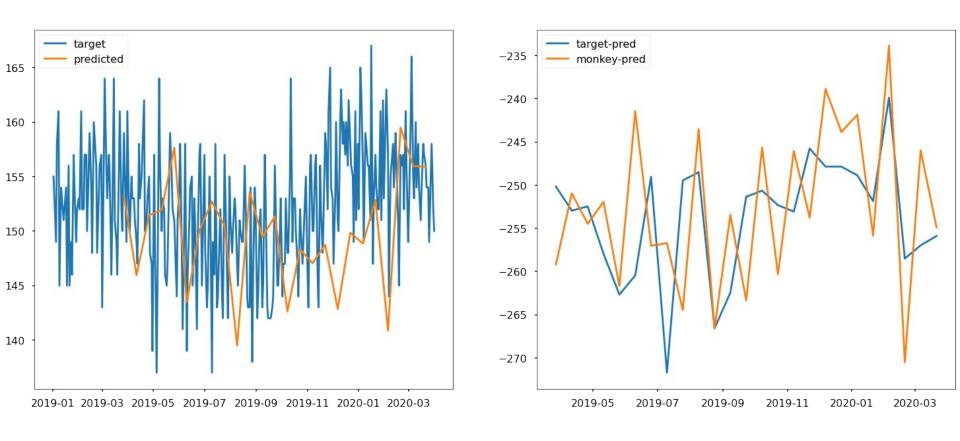
S1 45x32 - Prophet



S1 45x32 - AutoARIMA

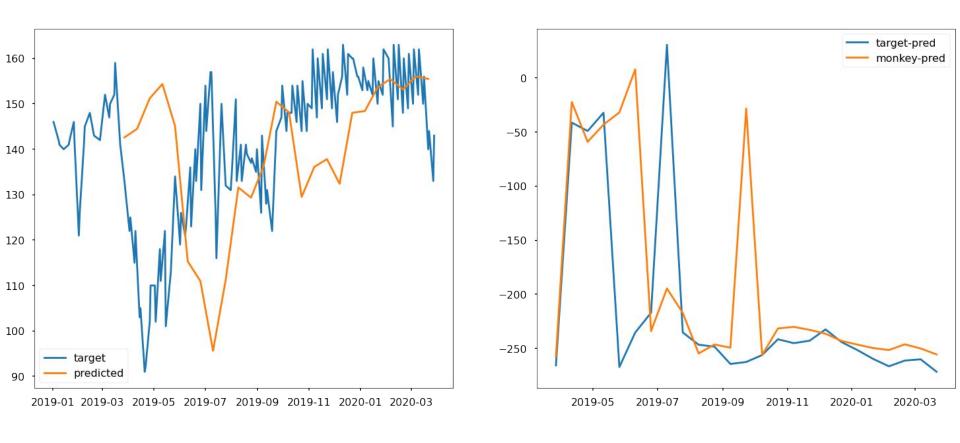


S1 25x16 - Prophet

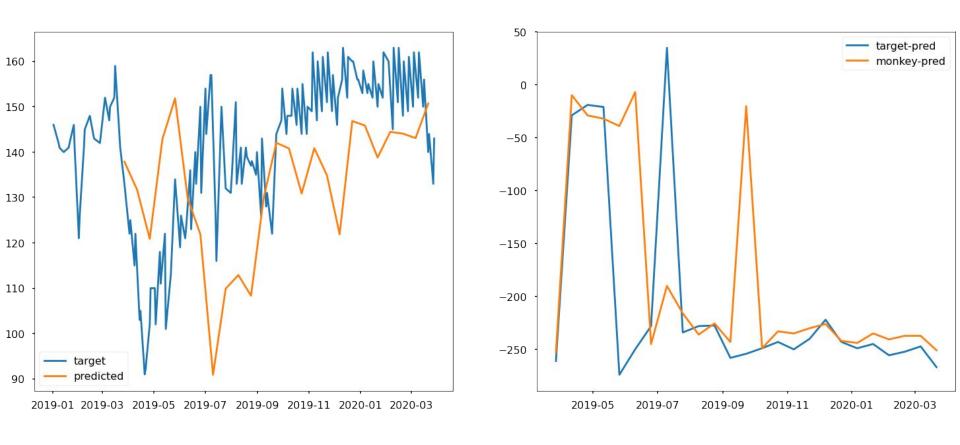


S1 25x16 - AutoARIMA

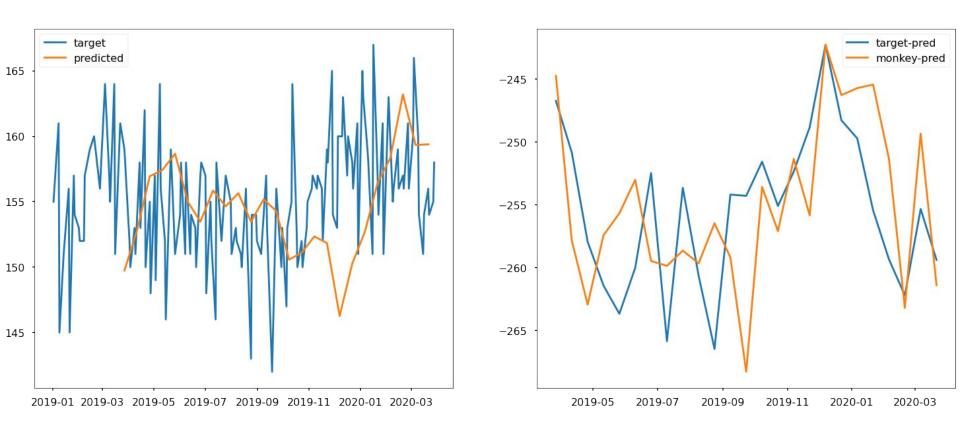
Results: S1 Ascending Orbit



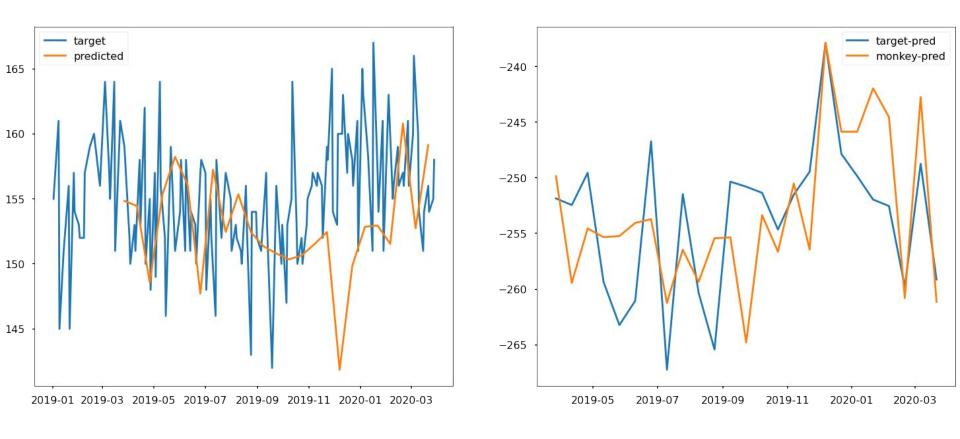
S1 Asc 45x32 - Prophet



S1 Asc 45x32 - AutoARIMA

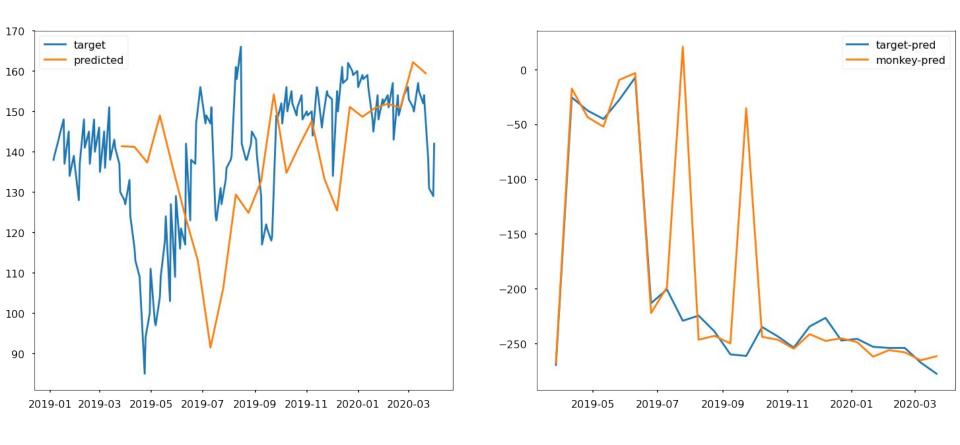


S1 Asc 25x16 - Prophet

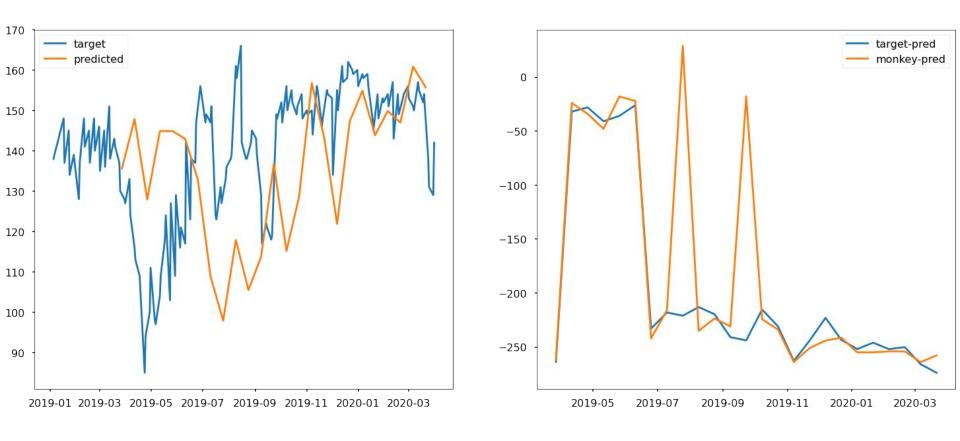


S1 Asc 25x16 - AutoARIMA

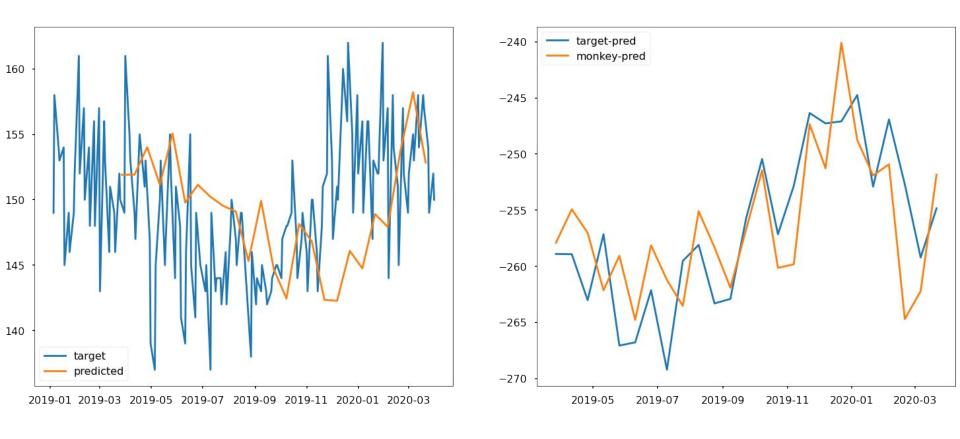
Results: S1 Descending Orbit



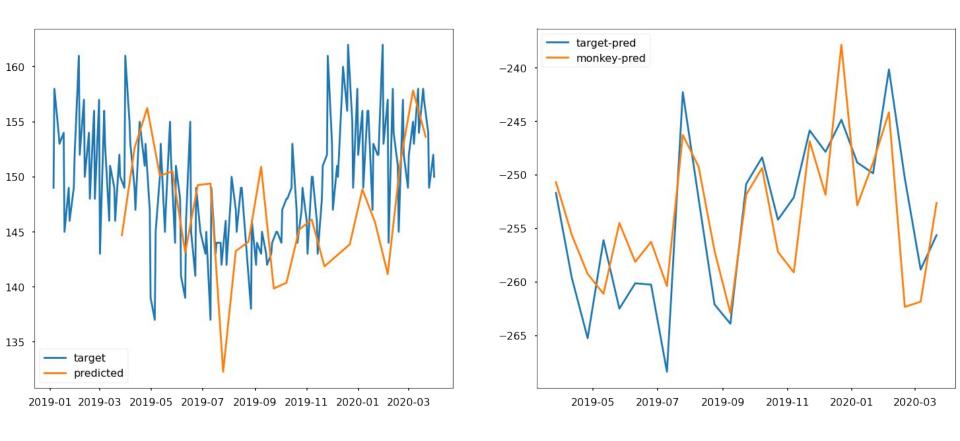
S1 Dsc 45x32 - Prophet



S1 Dsc 45x32 - AutoARIMA

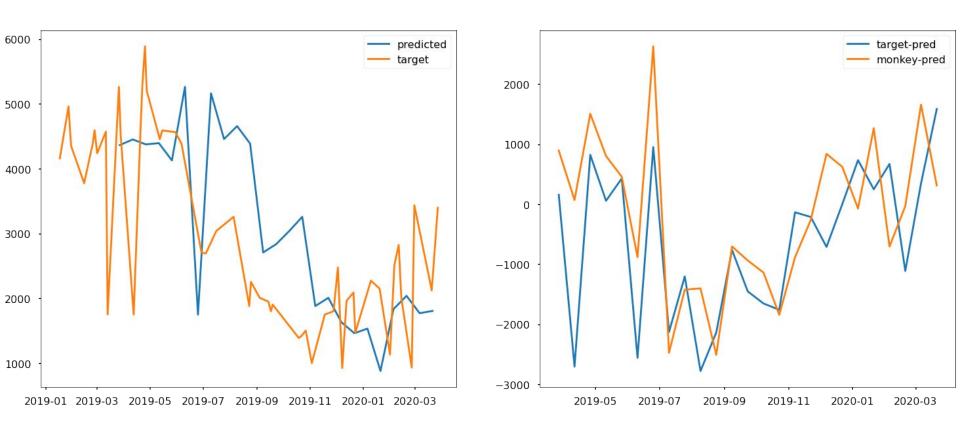


S1 Dsc 25x16 - Prophet

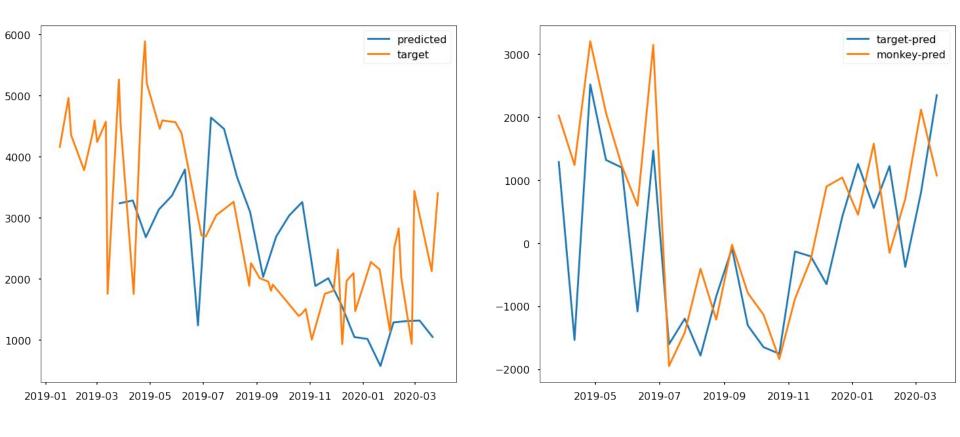


S1 Dsc 25x16 - AutoARIMA

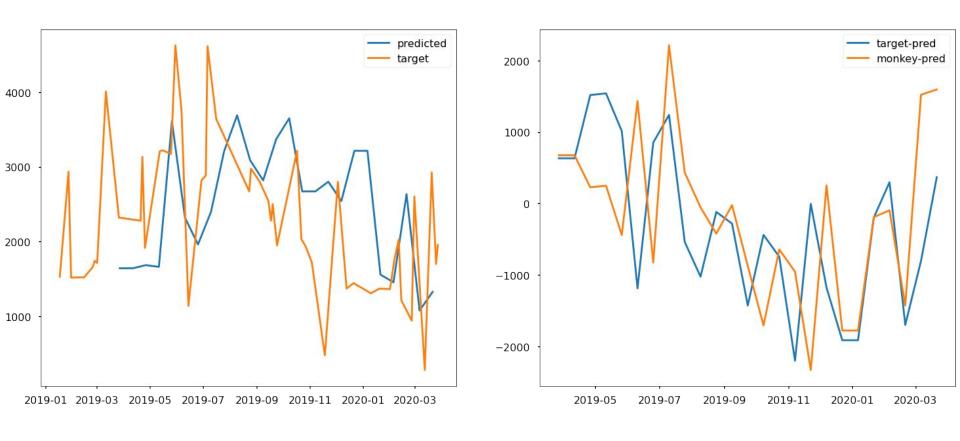
Results: S2 Bando8



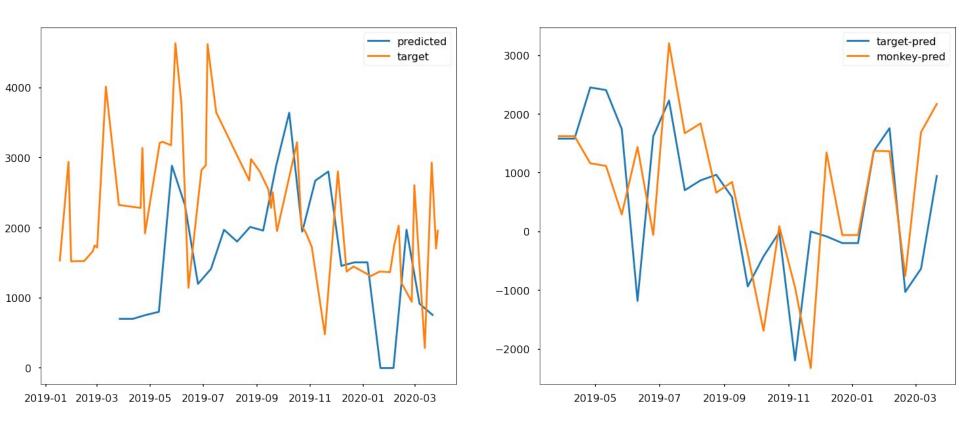
S2B08 45x32 - Prophet



S2B08 45x32 - AutoARIMA



S2B08 25x16 - Prophet



S2B08 25x16 - AutoARIMA