

## Project Plan

Project: Inflows in the Solar Corona

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The aim of this document is to outline the milestones that are required to complete the coming project of Inflows in the Solar Corona. This will include estimated completion dates and contingency plans and time.

The estimated finishing times are as below:

Activity and Description	Estimated Completion Date
Mapping regions of inflows over long time periods.  This will require me to map the positions of the inflows based on position angle, (maximum and minimum extent)	6 <sup>th</sup> February (2 weeks)
Measuring the frequency of the blobs.  This is likely to be a manual job due to limitations on coding time similar to Wang and Sheeleys method but to finer extents. (Can be done at same time as mapping positions)	6 <sup>th</sup> February (2 weeks)
Measuring the kinematics of the blobs.  This will require a set of codes to calculate different kinematics (Velocity, Acceleration) and take account of errors.	13 <sup>th</sup> February (1 week)
Attempting to discover inflows in EUV images.  Broken down into 3 sub sets.	-----
- Optimisation of code	27 <sup>th</sup> February (2 weeks)
- Identify Case Studies	13 <sup>th</sup> March (2 weeks)
- Process and Analyse	17 <sup>th</sup> April (5 weeks including easter)
Interpret above findings and infer into possible magnetic connections.  Will require access to magnetograms for visual comparisons between plots,	24 <sup>th</sup> April (4/5 weeks)

It is to be noted that the final milestone of the magnetic study has a potential to be done in place of the search for the inflows within the EUV images. This is a contingency plan due to the possibility that the inflows may not become visible in the EUV images as so the final aim of the topic will have to change in order to fulfil a requirement for results. However, if the inflows are noticed within the EUV images, the magnetogram study will become an "if I have time" milestone as the main aim of the project is to find the inflows in the EUV with the secondary objective of linking it to magnetic activity.

These deadlines are subject to change due to possible unforeseen circumstances. For this reason, a buffer of a week between the 10<sup>th</sup> and 11<sup>th</sup> week has remained unclaimed to a task. This will also give time to complete the writing of the final draft of the report.

These deadlines have been confirmed by the primary supervisor.

#### Resources required:

Due to the nature of the project, the only requirement is access to the supercomputer Holly. This has already been set up and I have been shown how to complete tasks within a node. No other equipment is required.