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Progress report:

information

- Created per sequence image masks (Nuke) %14 (29595/216635 images) / 69 events)
- Created a mechanism to segment a video into events
- Implemented a method to determine the direction of the lightning based on clustering
- (DBSCAN)Selected a method to determine the duration of a strike and present the events'
- Implemented and tested new network U-net
- Experimented with Networks
 - Deepnet with median filter and/or contrast enhancer
 - Unet randomised weight training
 - Unet pretrained
- Cleaning up repo and preparing the project for handover
 - Refactored training mechanisms
 - Altered pipeline to reduce data processing
- Working on augmenting the exposures for the data to increase the systems sensitivity to dim events.

Agenda:Problems:

- Performance issues
- Training is slow with additional data
- Directionality not robustly tested
- Low/high variance in data

Plan for next week:

- Integrate the directionality and event information tools into the application
- Produce an output file with information about the input file
- Produce graphics for the open day
 - Network
 - Cluster technique
 - Overall system diagram
 - Videos
 - Overall segmentation example