

Clarus Research: Video Weather System

Clarus Initiative Coordinating Committee Meeting #3
Salt Lake City, UT

Robert Hallowell
Meteorologist, Weather Sensing Group
Massachusetts Institute of Technology, Lincoln Laboratory

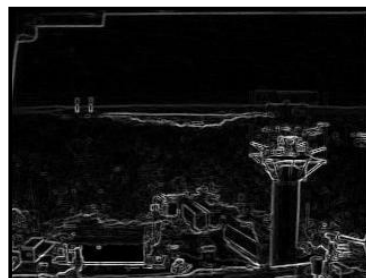


Clarus Video Research Goals

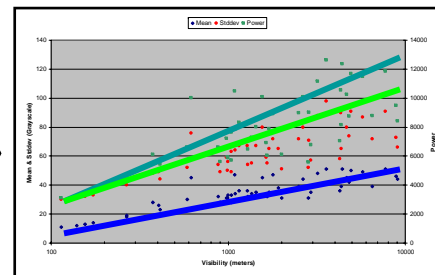
- Create a portable algorithm that uses traffic camera imagery to estimate driver level visibility
- Foundational work toward the creation of a national driver-level visibility observation product



Image



**Feature
extraction**



**Fuzzy logic
algorithm**



**Driver-
Level
Visibility**

Project Status

- Purchased test bed cameras. Installation and operational by 1 Dec 05.
- Building on existing visibility algorithm used in aviation
- Test site has access to 1-min ASOS Data for validation
- Camera survey of State DOTs
- Looking to partner with a DOT to host a proof of concept demonstration