10-17-2018 to 10-18 -2018 IOP

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| Daily PI | Junming Wang |
| Balloon launches | Nicole |
| USC Aerosol Lidar | N/A |
| UIUC Aerosol Lidar | Junming |
| Dusttrack Setup and Download | Nicole |
| CTEMPS | April |
| Fogger Operator | April |
| UIUC Doppler Lidar | Dave |
| Uwisc aircraft | N/A |
| ISS/ISFS | Henrick |
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This IOP was  the greatest one among all existing ones. The smoke filled up the whole basin. The flows were stratified to different layers.

Smoke started around 1 am.

UIUC aerosol lidar had continuous vertical scans from azimuth (37 degree: in between upper and lower convergence towers) to azimuth 162 degree (close to west trees edge). The azimuth angles were:37, 62, 87, 112(through the middle of lower convergence tower and short NSF neighbor tower ), 137, and 162; Zenith angle from 0 to 10 degrees with an interval of 0.2 degree. From azimuth 87 to 162 degrees, ground level were scanned. At other azimuths, the lowest vertical scan is above ground level.

Each complete set of scans from azimuth 37 to 162 degrees and zenith from 0 to 10 was about 10 minutes.

UIUC aerosol lidar had few horizontal scans also.

Dustrack started around 11 pm-1 am. Two OPC’s may not have collected data.

CTEMPS had data along a limited length.

UIUC Dopplar lidar had horizontal scans for almost the whole area from 0 zenith degree up to 10 degrees with 0.5 degrre interval.

All corn field was harvested before October 13th.