# Data project ASTR 670

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Spring 2016

#### Goal

#### Identify flare times and locations

#### Isolate flares

1. Determine intensity threshold

```
\begin{array}{c} \mathsf{min} \approx 0 \\ \mathsf{mean} \approx 30 \\ \sigma \approx 50 \\ \mathsf{max} \approx 5190 \end{array}
```

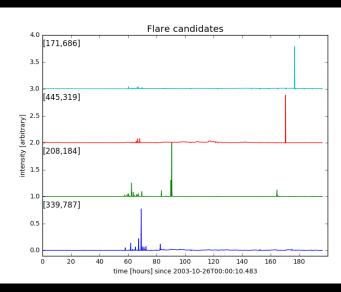
- 2. Identify possible candidates
- 3. Examine surrounding pixels to confirm

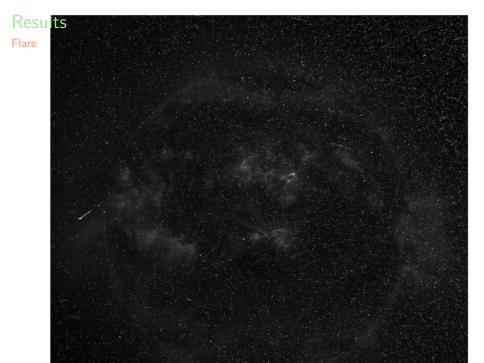
#### Confirm flares

- Examine image data and header
- Compare to GOES catalog

# Results

#### Candidates





# NOAA Space Environment Services Center

Comparison to catalogued flares

#### Particle event

- Start (Day/UT) Oct 28/1215
- Max (Day/UT) Oct 29/0615
- Photon flux > 10 MeV 29500

## Associated CME, Flare, and Active Region

- Max (Day/UT) Oct 28/1110
- Importance X17/4B

### My EIT data

Max Oct 29; 8:00:46 (UTC)