

*Geophysical Research Letters*

Supporting Information for

**New WMO Certified Megaflash Lightning Extremes**

**for Flash Distance (709 km) and Duration (16.73 seconds) recorded from Space**

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Figure S1

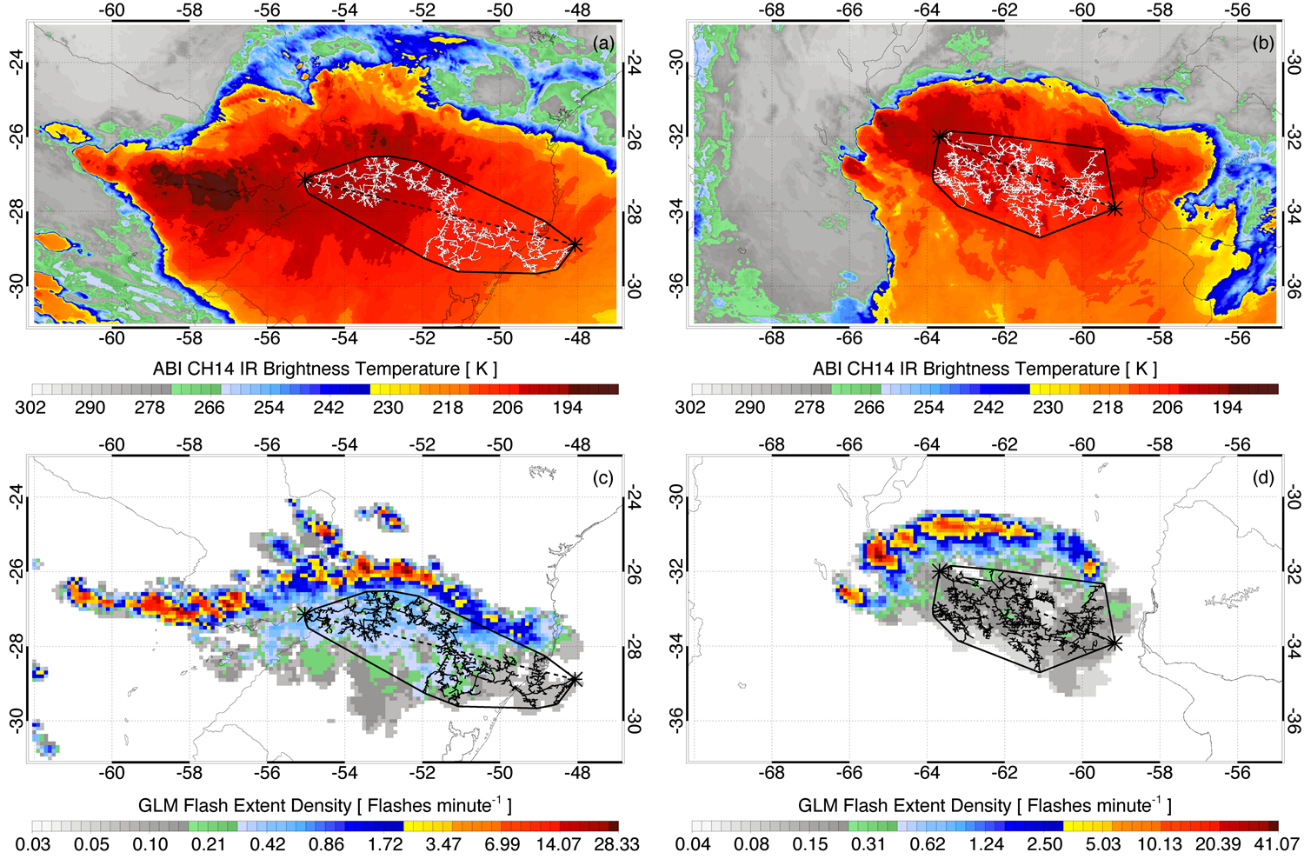
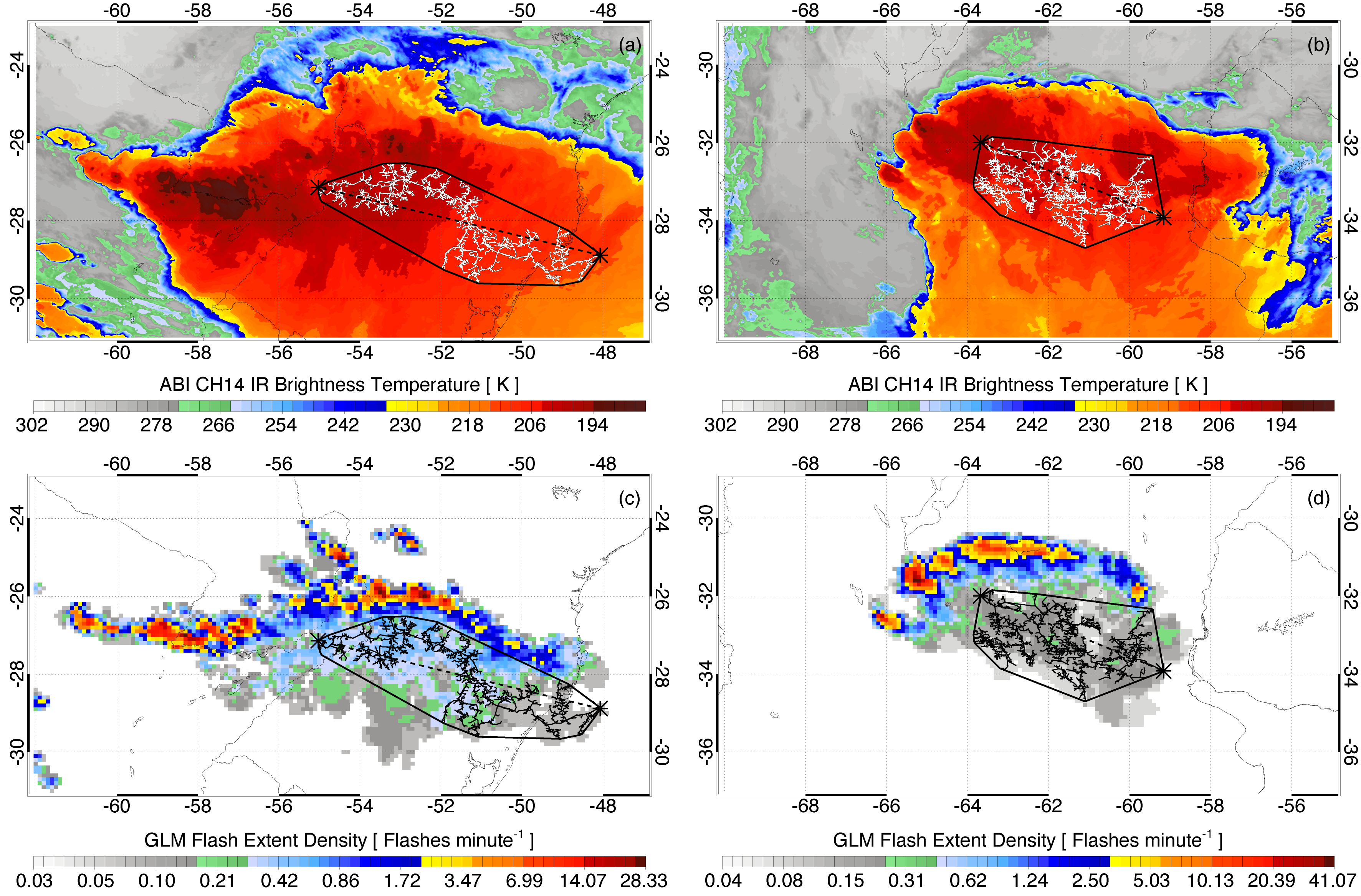
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Figure S1. GOES-16 Advanced Baseline Imager (ABI) Channel 14 (11.2 μm) infrared imagery (top row) and GLM Flash Extent Density (FED) imagery (bottom row) for the MCS thunderstorms that produced the top length (left) and top duration (right) lightning flashes. Incremental flash structure, flash endpoints (asterisk symbols connected by dashed line), and convex hull (solid contour) from Figures 2 and 3 are overlaid to show the scale of each megaflash in the larger thunderstorm



Supplemental Figure. GOES-16 Advanced Baseline Imager (ABI) Channel 14 (11.2 μm) infrared imagery (top row) and GLM Flash Extent Density (FED) imagery (bottom row) for the MCS thunderstorms that produced the top length (left) and top duration (right) lightning flashes. Incremental flash structure, flash endpoints (asterisk symbols connected by dashed line), and convex hull (solid contour) from Figures 2 and 3 are overlaid to show the scale of each megaflash in the larger thunderstorm.