

Image 56 KLOT Base Reflectivity image at approximately 0645 hours on July 24, 2010

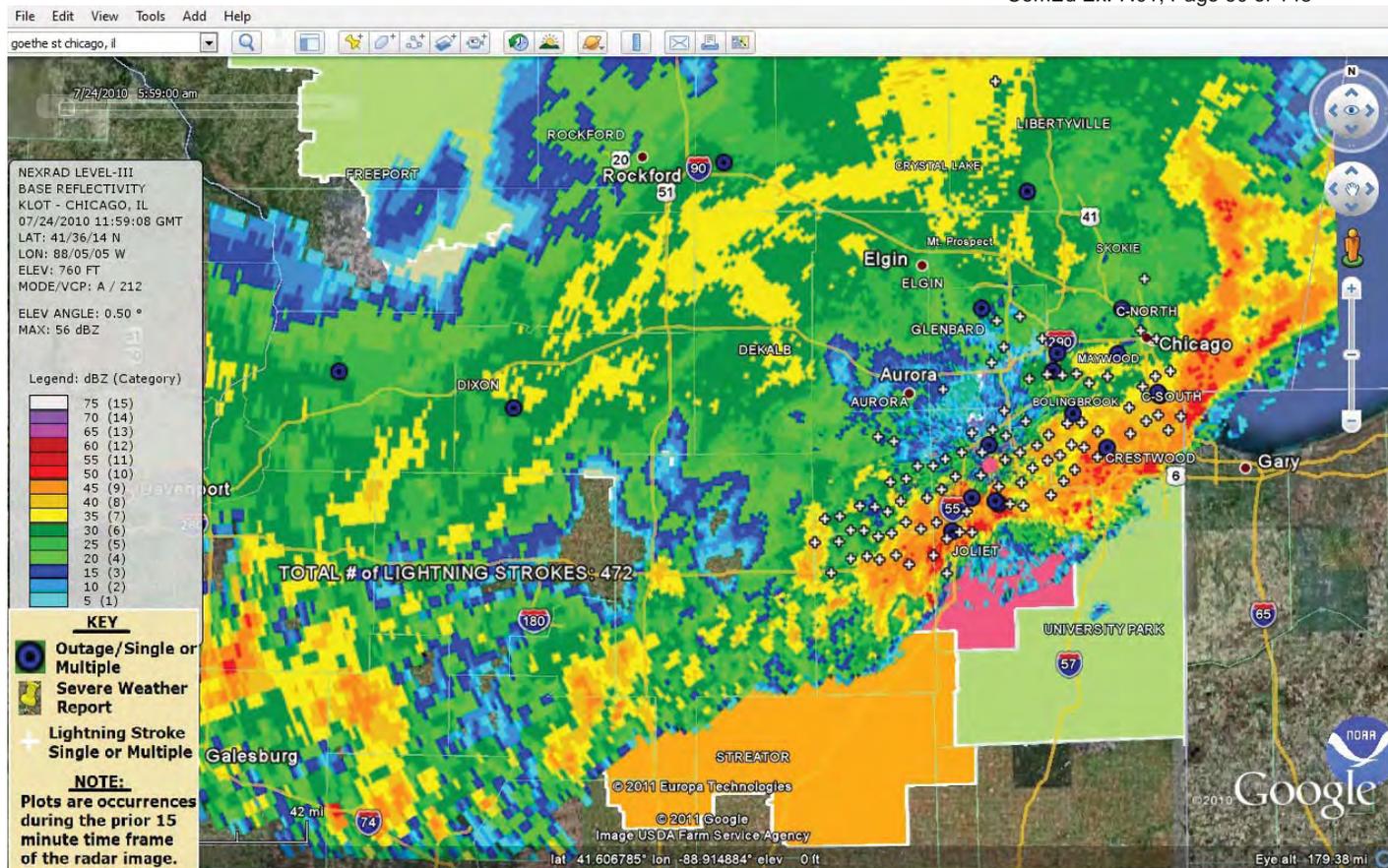
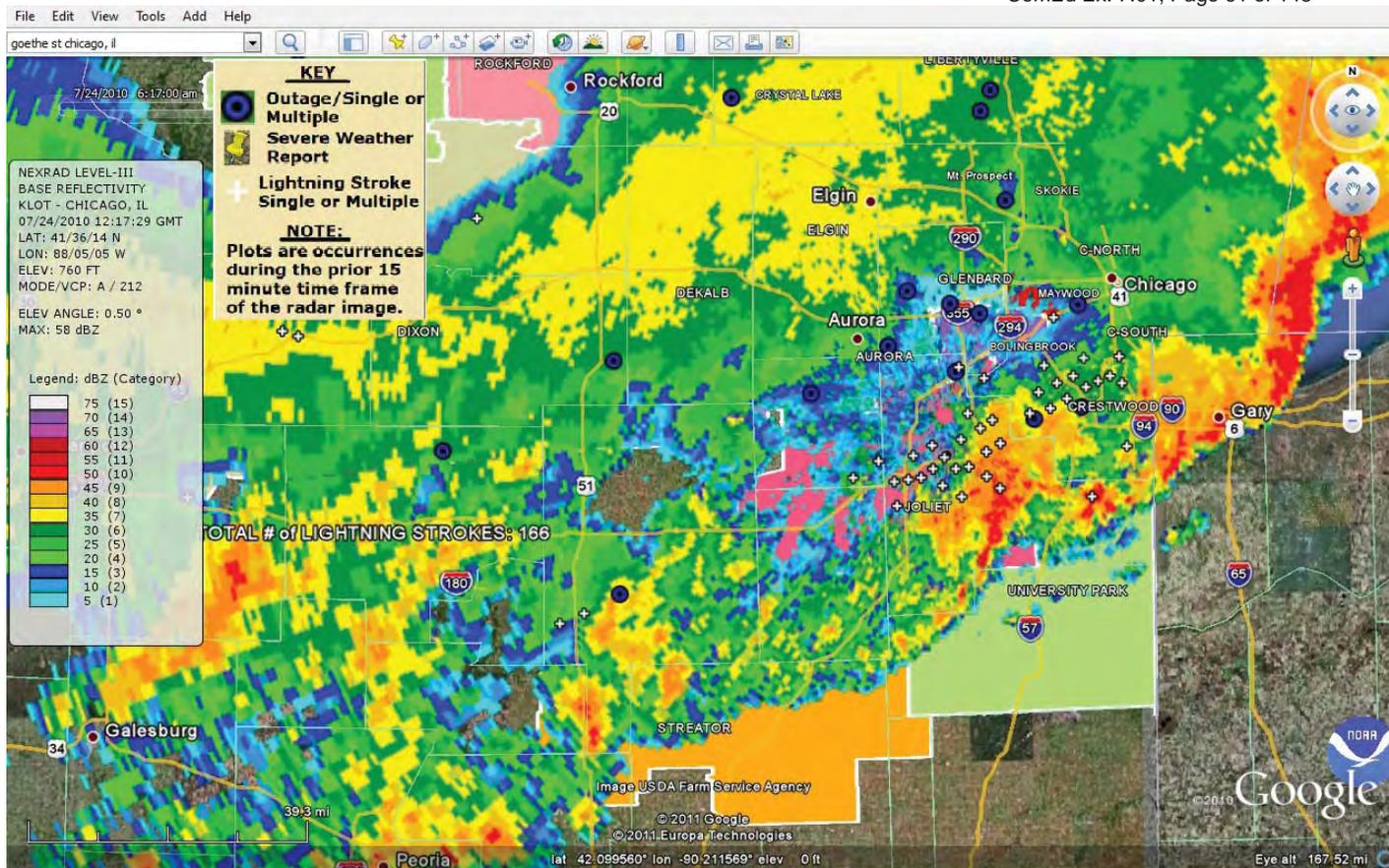


Image 57 KLOT Base Reflectivity image at approximately 0700 hours on July 24, 2010



**Image 58 KLOT Base Reflectivity image at approximately 0715 hours on July 24, 2010**

Total ComEd Customers Who Lost Power (Cumulative)	Customers Restored (Cumulative)	Customers Still Without Power
147,292	104,430	42,862

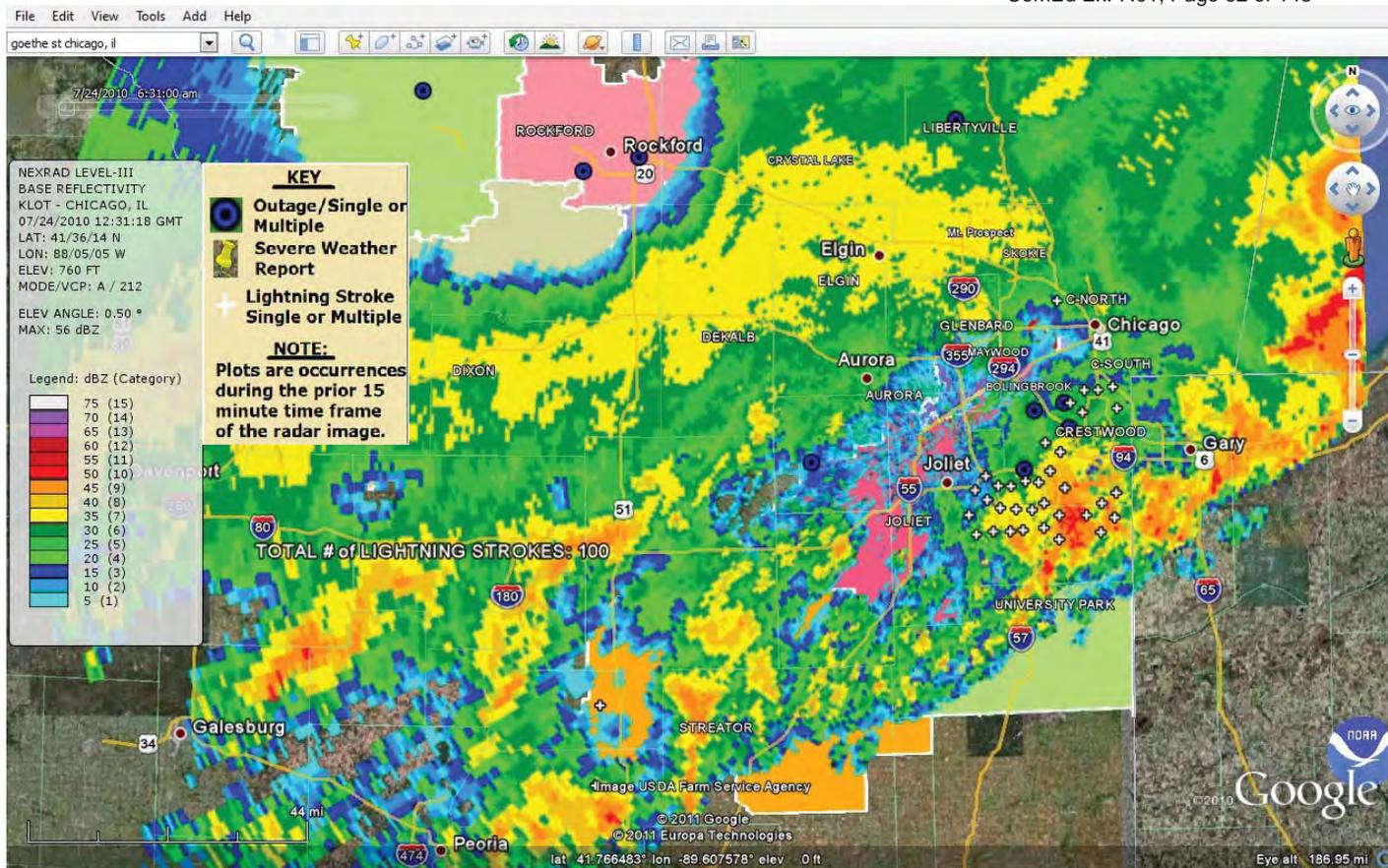


Image 59 KLOT Base Reflectivity image at approximately 0730 hours on July 24, 2010

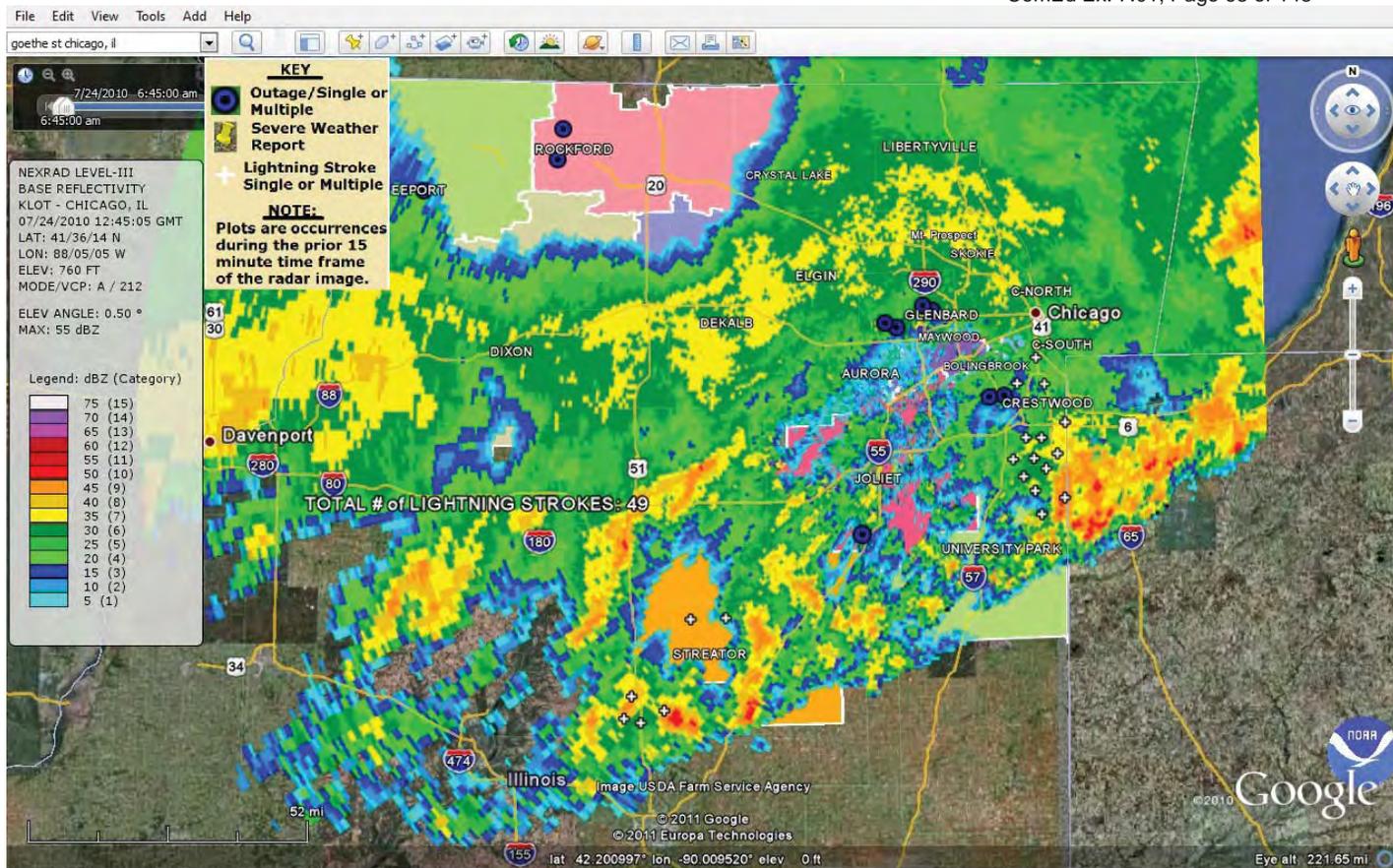
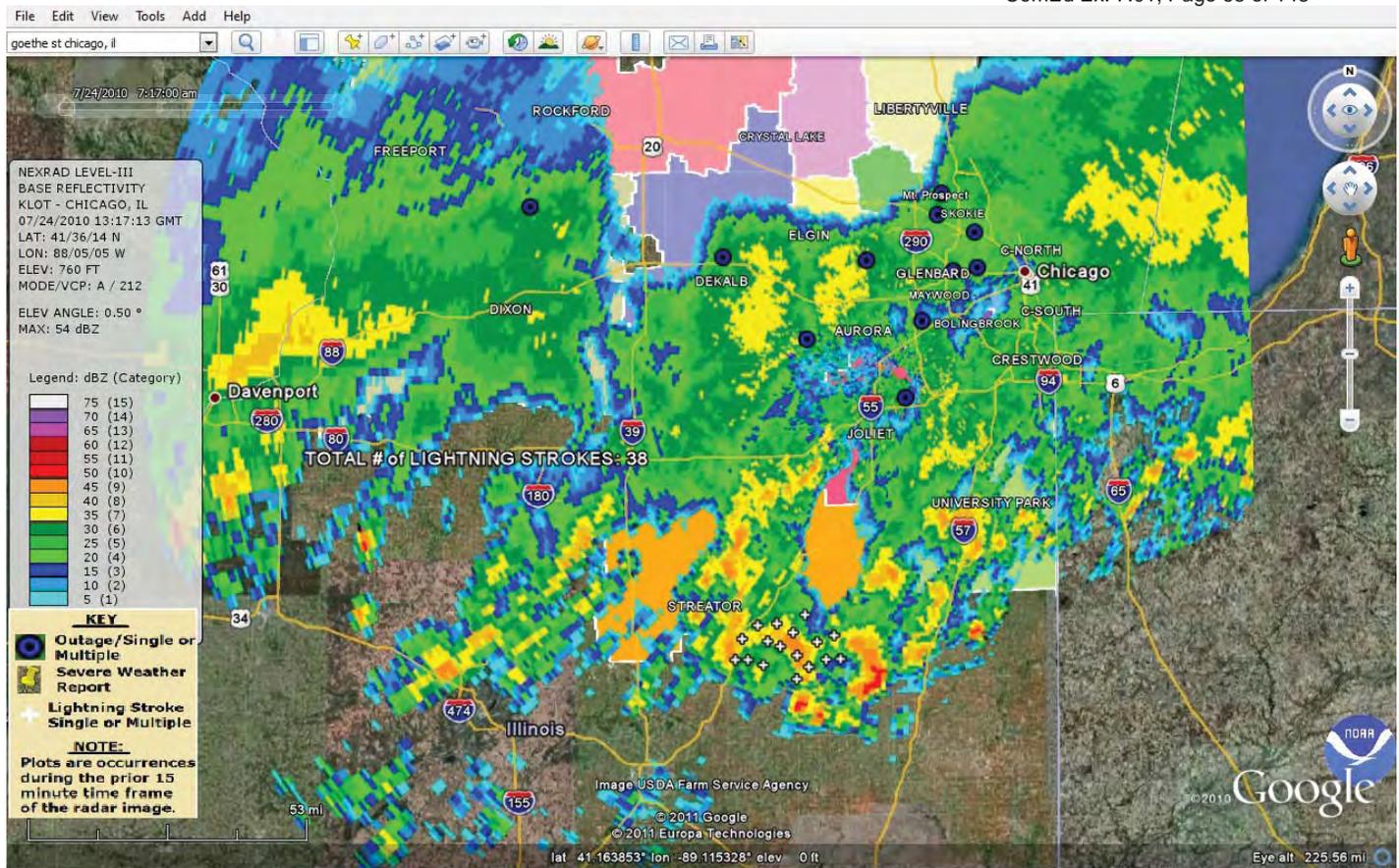


Image 60 KLOT Base Reflectivity image at approximately 0745 hours on July 24, 2010



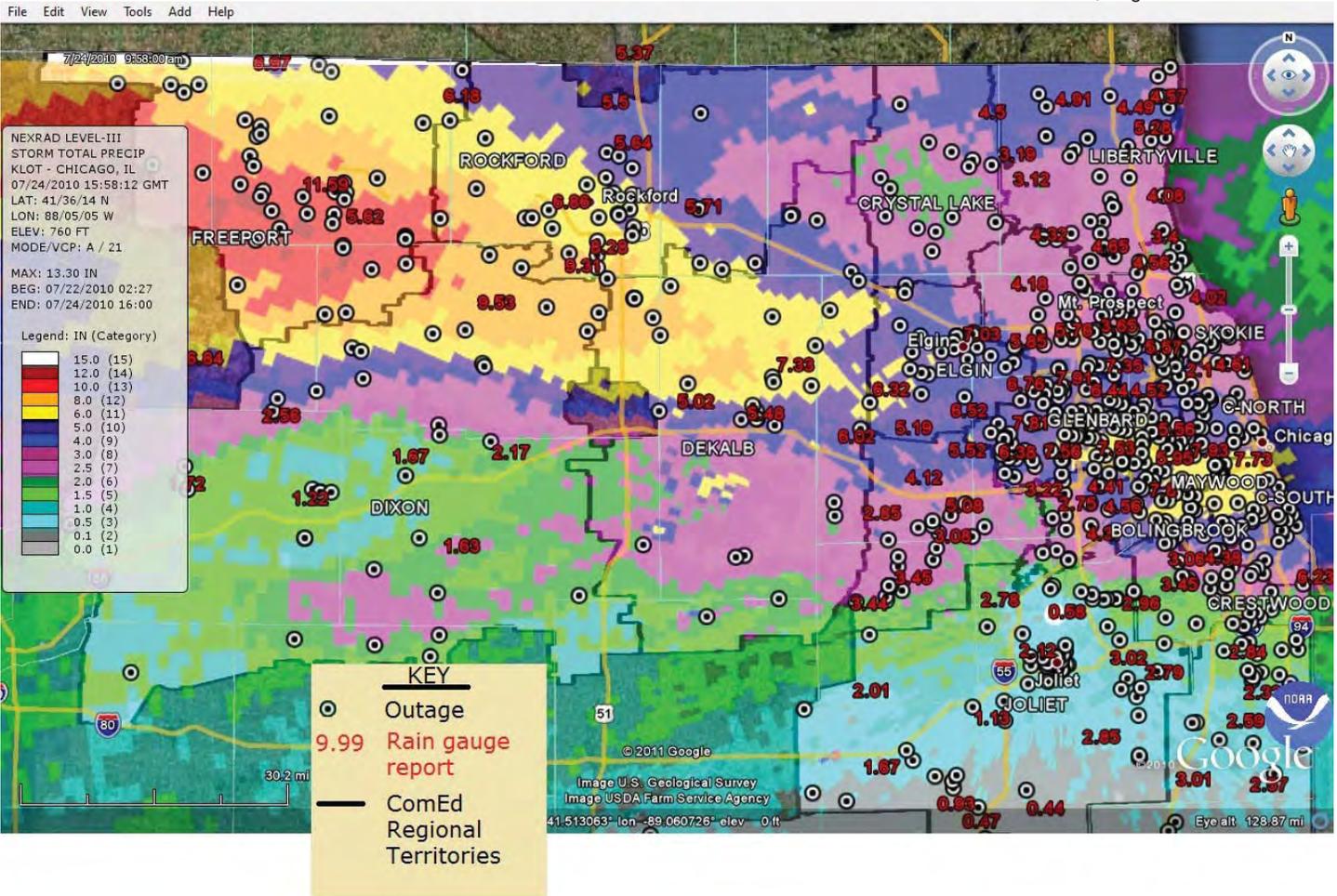


**Image 62 KLOT Base Reflectivity image at approximately 0815 hours on July 24, 2010**

Total ComEd Customers Who Lost Power (Cumulative)	Customers Restored (Cumulative)	Customers Still Without Power
167,295	151,895	43,349

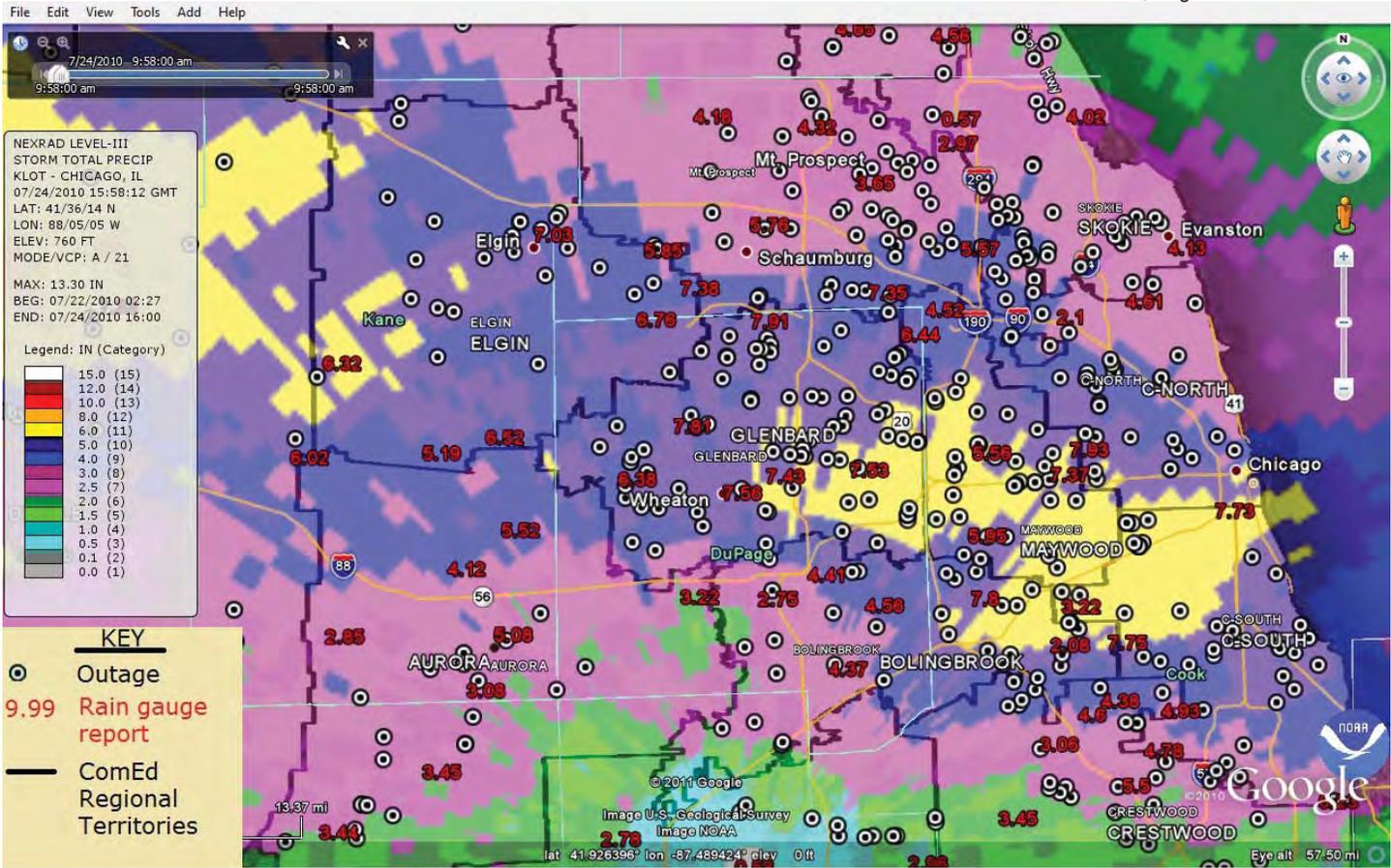
After 0800 hours on July 24<sup>th</sup> the thunderstorms continued to weaken and move out of the ComEd service territory. Image 63 below shows the KLOT NEXRAD Storm Total Precipitation estimation product from 2130 hours on July 21<sup>st</sup> through 1100 hours on July 24<sup>th</sup>, with actual rain gauge measurements of total rain fallen July 23<sup>rd</sup> and 24<sup>th</sup>, and ComEd’s outages from 2100 hours on July 23, 2010 though 0900 hours on July 24, 2010 plotted on the image.

The image shows the extent of the excessive rainfall that fell across the ComEd service territory, with the maximum amounts extending from Central Cook County through Dupage County, Northern Kane, DeKalb and Ogle Counties, Southern Boone County, Winnebago, Stephenson and Jo Daviess Counties. Rainfall amounts in these areas ranged from 5 to over 10 inches. The majority of this rainfall occurred from 2100 hours on July 23<sup>rd</sup> through 0900 hours on July 24<sup>th</sup>. Flash Flood Warnings were issued by the National Weather Service for these counties; Jo Daviess, Whiteside, Stephenson, Winnebago, Boone, McHenry, Lake, Ogle, DeKalb, Kane, Dupage, and Cook.

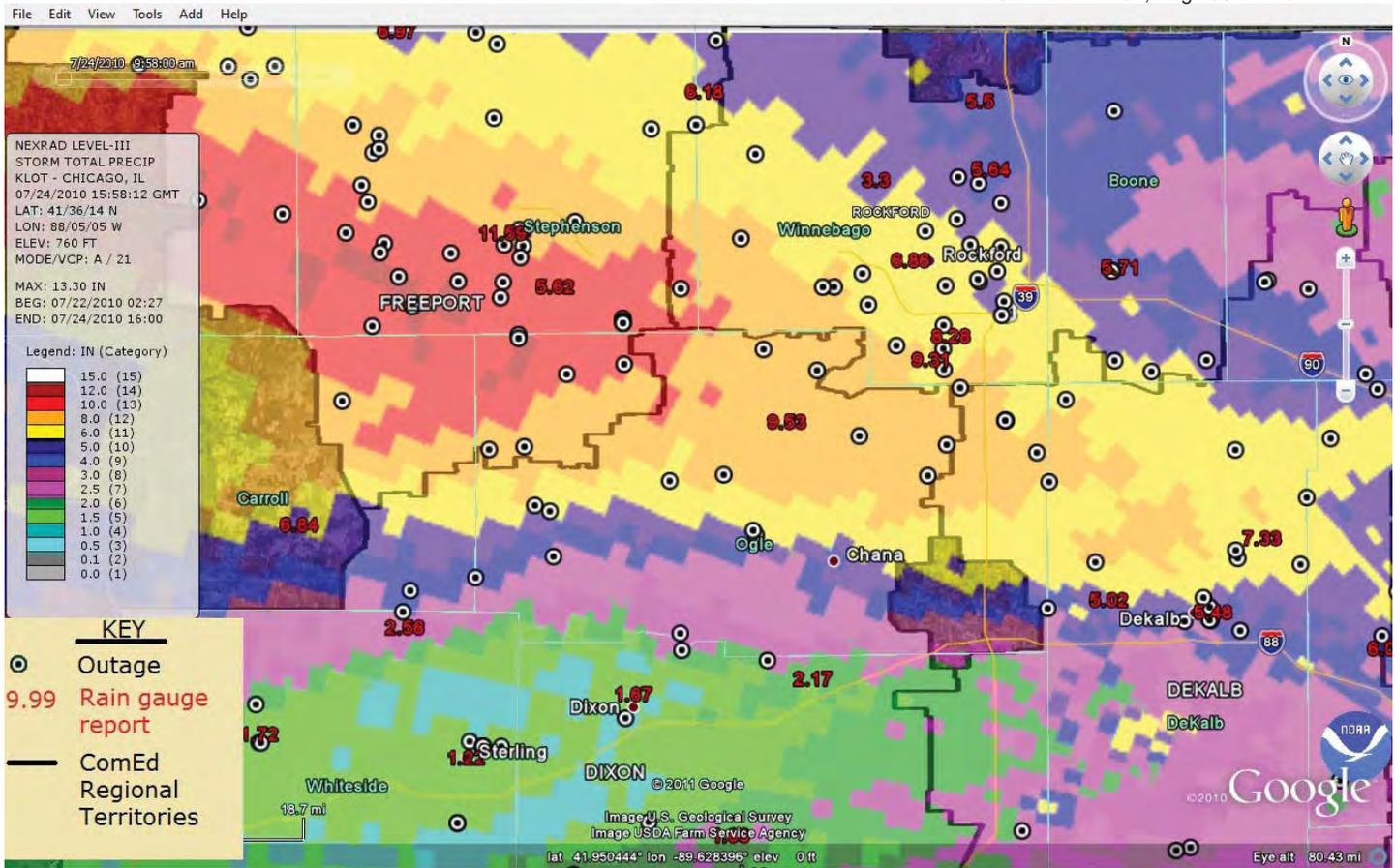


**Image 63** Total Precipitation (2130 hours on July 21<sup>st</sup> through 1100 hours on July 24<sup>th</sup>) and Outages (2100 hours on July 23<sup>rd</sup> through 0900 hours on July 24<sup>th</sup>)

The next two images, Image 64 and 65, are zoomed views of Image 63 above.



**Image 64 Total Precipitation-EAST regions (2130 hours on July 21<sup>st</sup> through 1100 hours on July 24<sup>th</sup>) and Outages (2100 hours on July 23<sup>rd</sup> through 0900 hours on July 24<sup>th</sup>)**



**Image 65 Total Precipitation-WEST regions (2130 hours on July 21<sup>st</sup> through 1100 hours on July 24<sup>th</sup>) and Outages (2100 hours on July 23<sup>rd</sup> through 0900 hours on July 24<sup>th</sup>)**

**Conclusion:**

The thunderstorm events that occurred across ComEd’s service territory between 1600 hours on July 23, 2010 and 0900 hours on July 24, 2010 consisted of two separate severe weather events caused by two distinct set of meteorological conditions. The first event was a short bowed line of severe thunderstorms that moved across ComEd’s service territory, primarily south of I-88, between 1600 and 1900 hours on July 23, 2010.

***Key meteorological statistics of the “Bowed Line of Severe Thunderstorms” event:***

- 1. Cloud to Ground Lightning Strokes...11,337 from 1600-1900 hours***
- 2. Wind Reports... (Damaging winds are defined by the National weather Service as winds greater than or equal to 58 mph). Numerous reports of wind gusts 58 to 75 mph***
- 3. Hail...None reported***
- 4. Heavy rain...Brief...generally less than 1.00 inch***
- 5. Tornadoes...none reported***