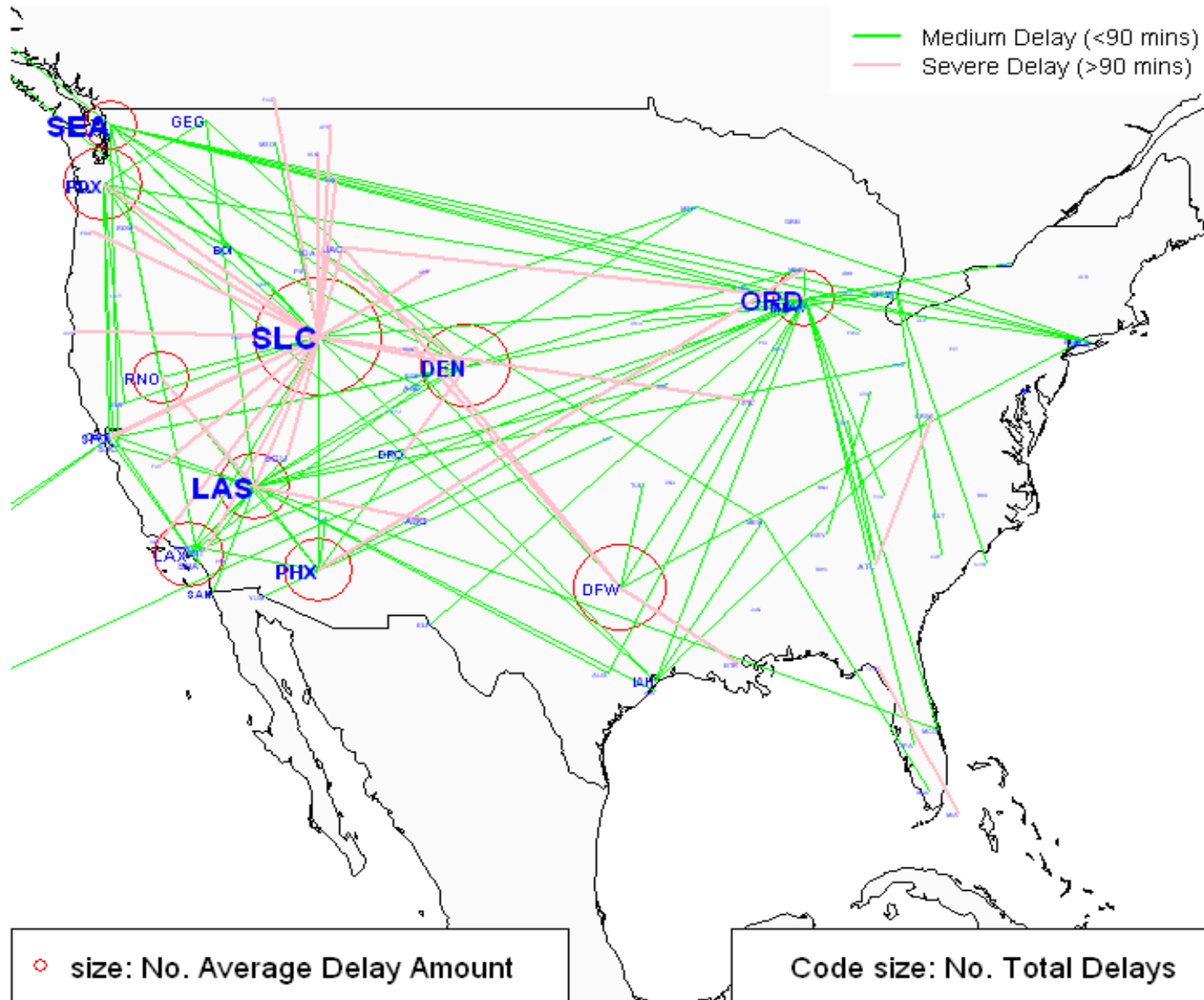


Finding the Cities with Terrible Weather in December

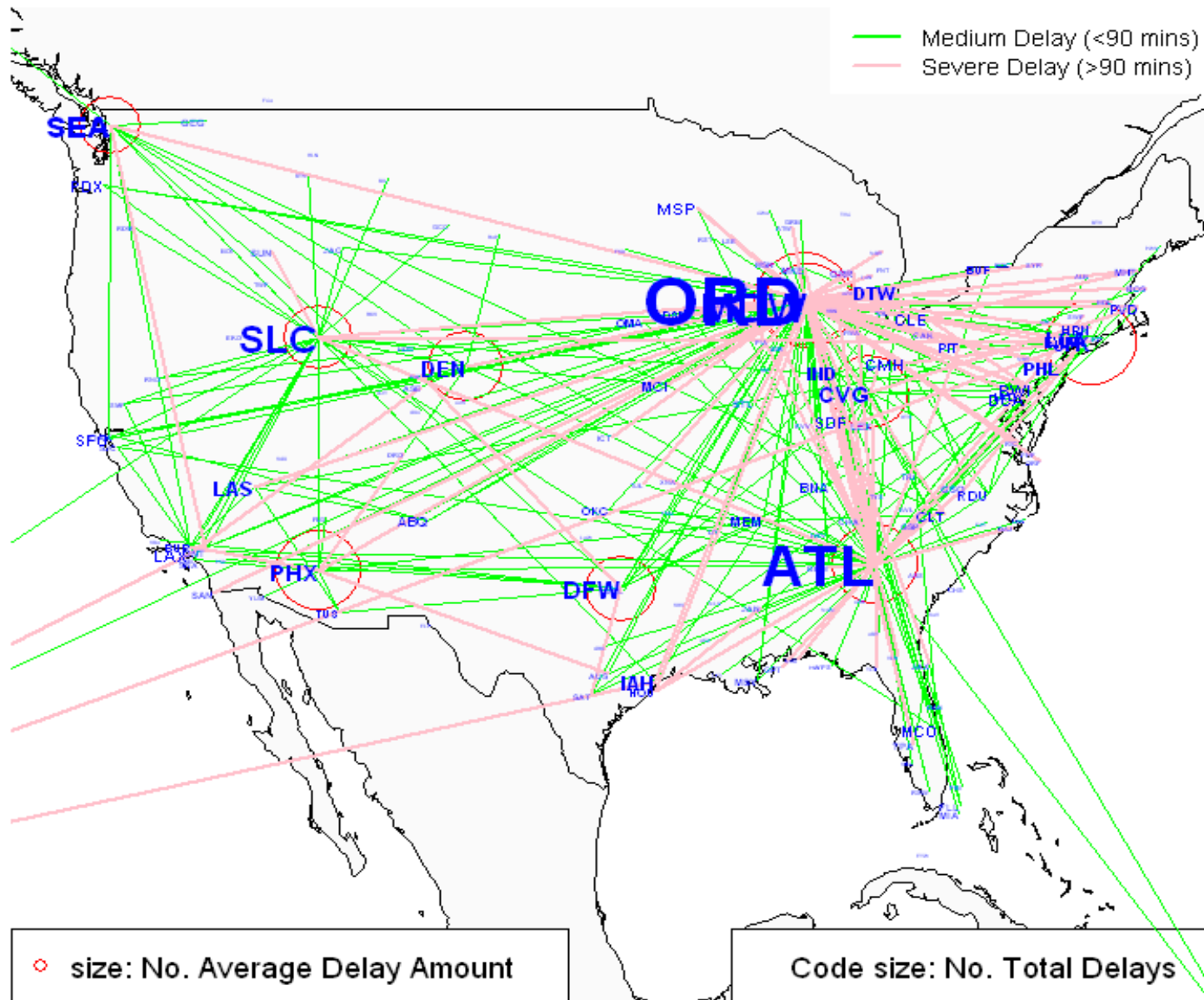
Presented by: Tom Qu

Fig1: Weather Delay vs. Airports on Christmas



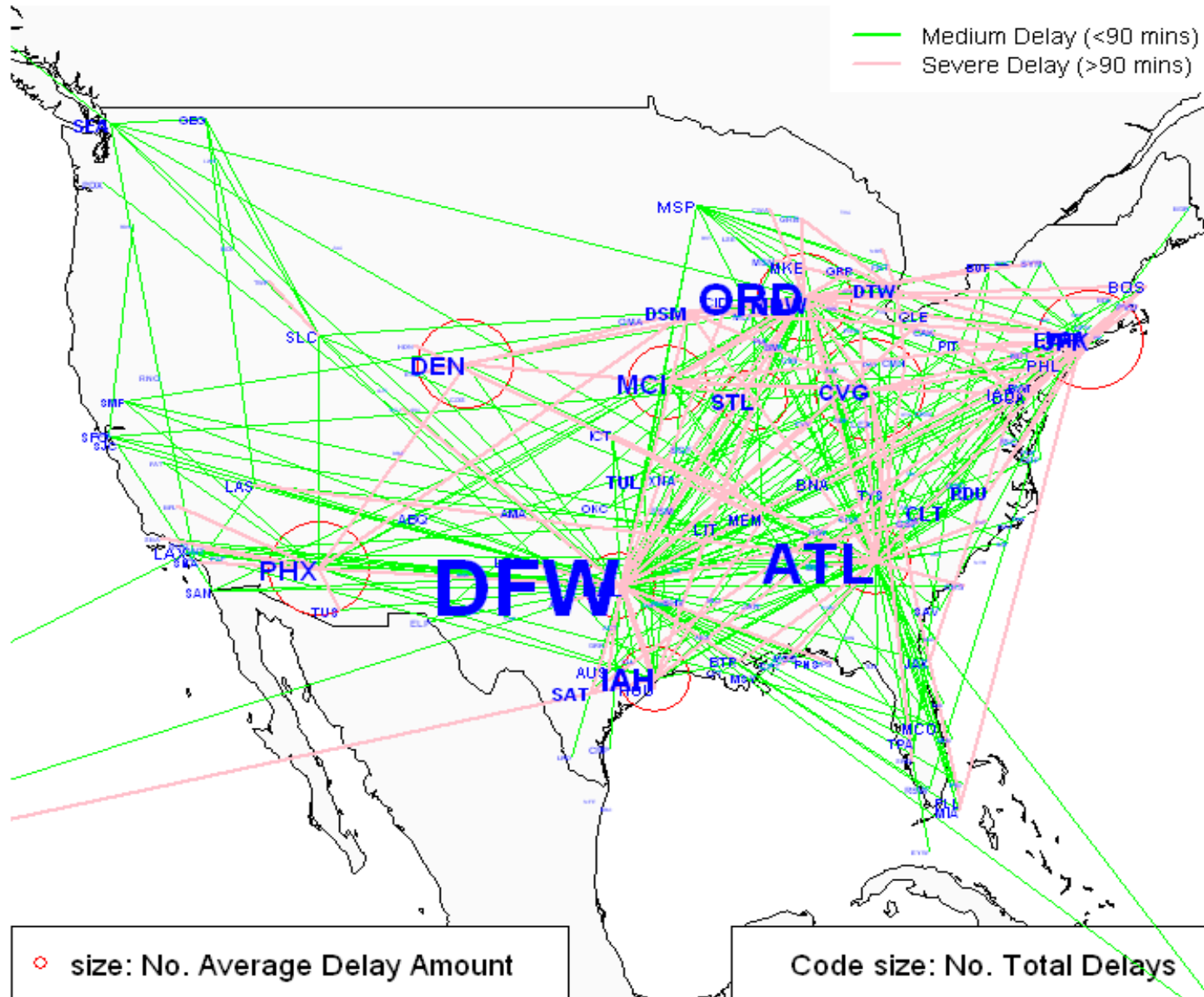
- Lines (green & pink) represent the weather-delayed flight routes
- The airports with more lines converging to them are more likely to have extreme weather there causing flight delays
- The top 5 outstanding weather-delayed airports on 2008 Christmas day are SLC, LAS, SEA, ORD and DEN
- SLC is clearly the worst airport on that day, but what happened in the following days?

Fig2: Weather Delay vs. Airports on Dec 26



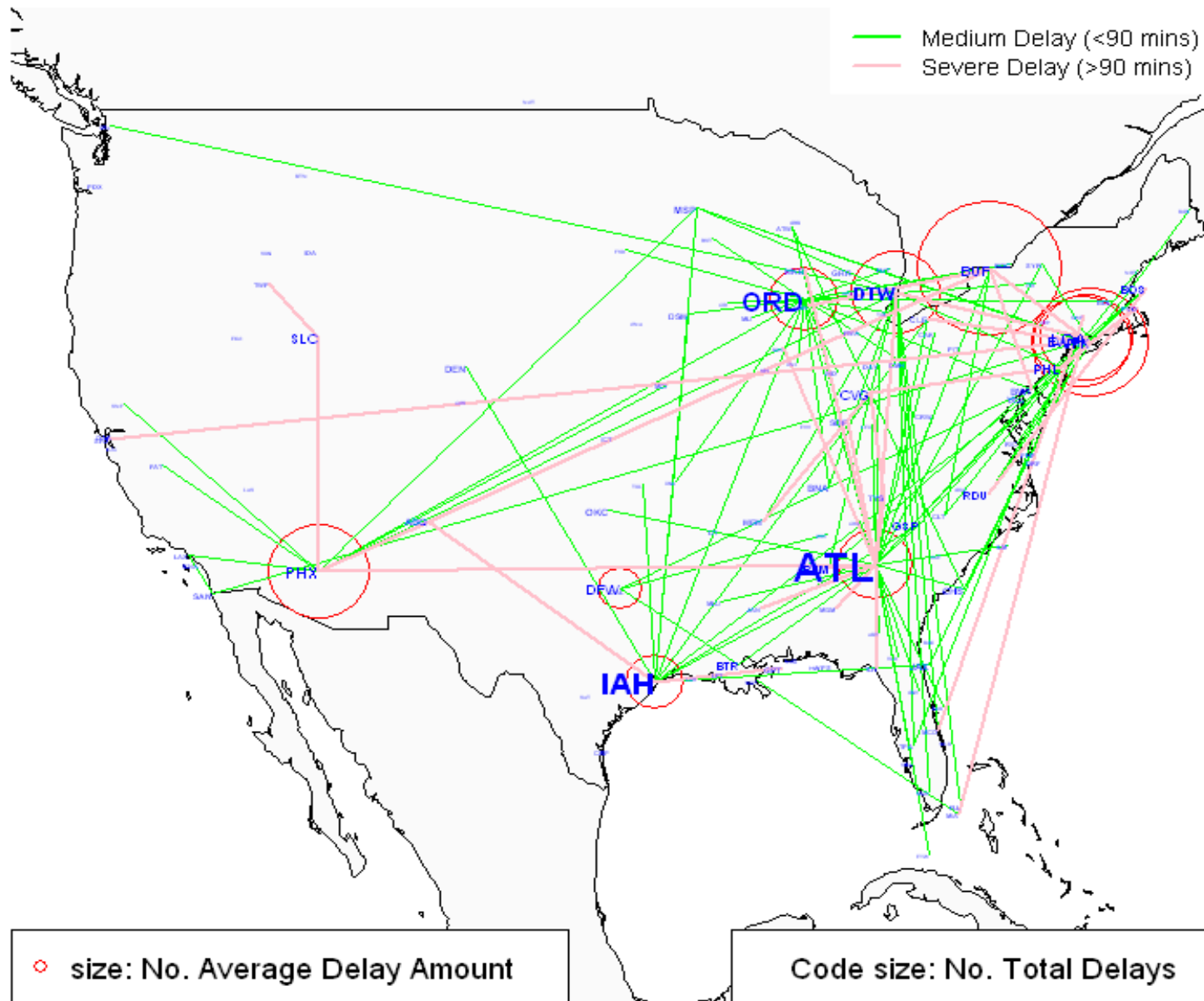
- On the following day, December 26, the U.S. weather condition became worse than the previous day
- With east part of the country suffering more
- SLC is still problematic, while ORD became the worst airport and ATL emerged as the second worst

Fig3: Weather Delay vs. Airports on Dec 27



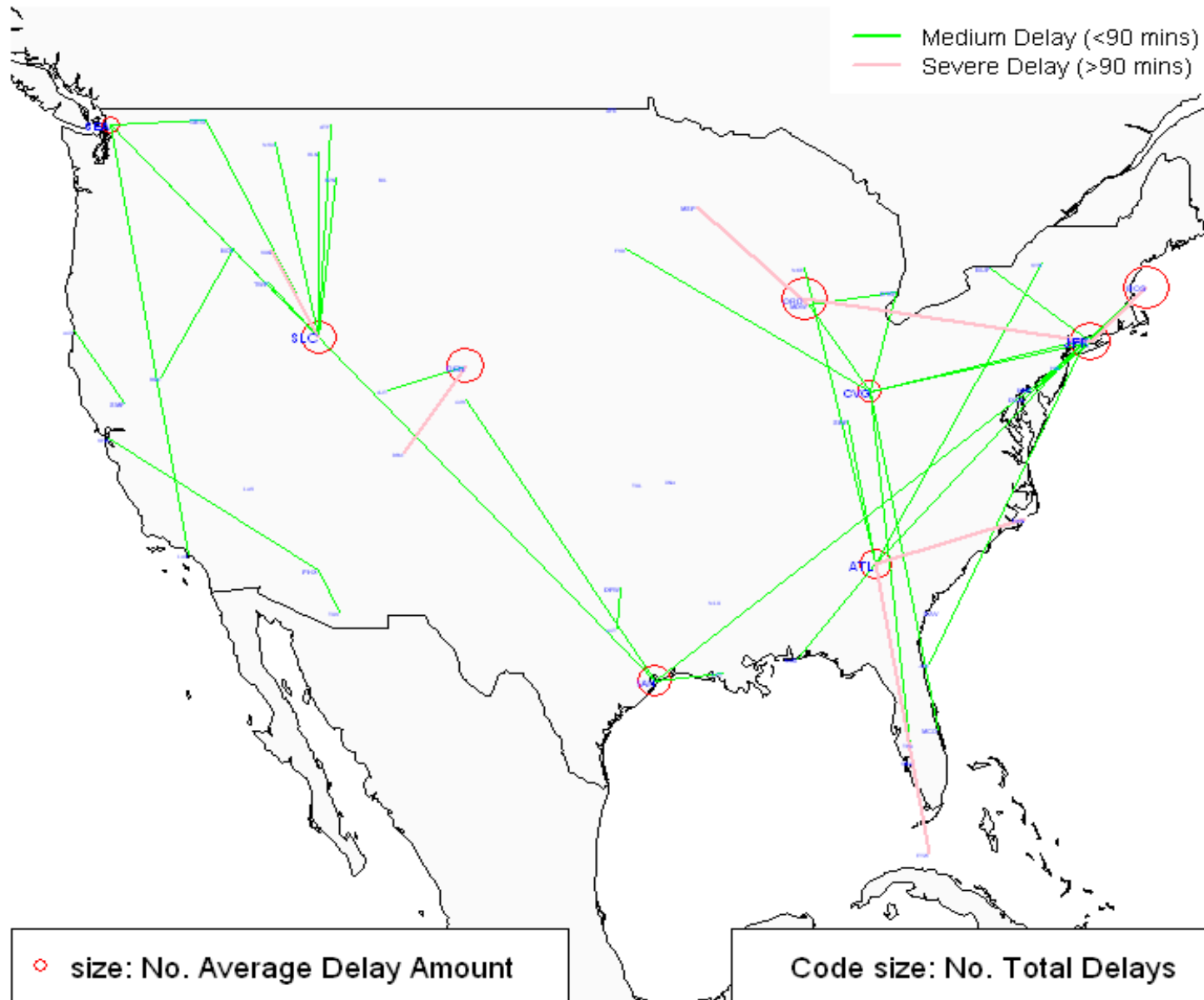
- Then on the 27th, although the overall condition is still terrible for the east part, it is noticeable that the weather at SLC has significantly improved

Fig4: Weather Delay vs. Airports on Dec 28



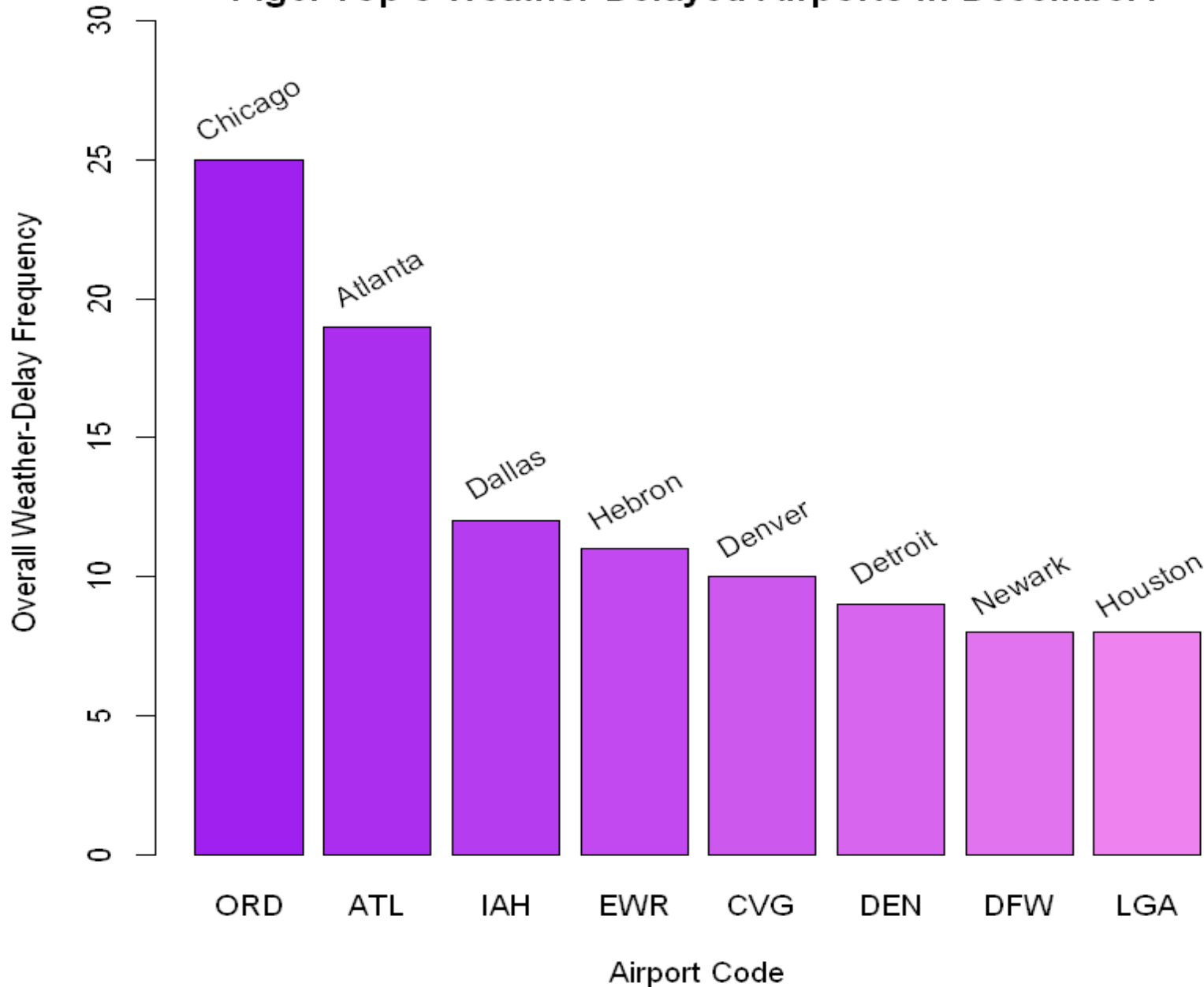
- It is also interesting to see for the next two days, December 28 and 29

Fig5: Weather Delay vs. Airports on Dec 29



- The extreme weather started to clear out and the condition became much better for the country
- So... how about the overall condition for the whole December?

Fig6: Top 8 Weather-Delayed Airports in December?



- After counting the frequency of the outstanding weather-delayed airports over the month...
- A bar plot showing the overall top 8 worst airports in December
- Among those, ORD and ATL seem to have extreme weather conditions for more than half-time of the month
- Therefore, Chicago and Atlanta are not recommended for next year's winter travel (likely to have bad weather!)



Thank you !!!