

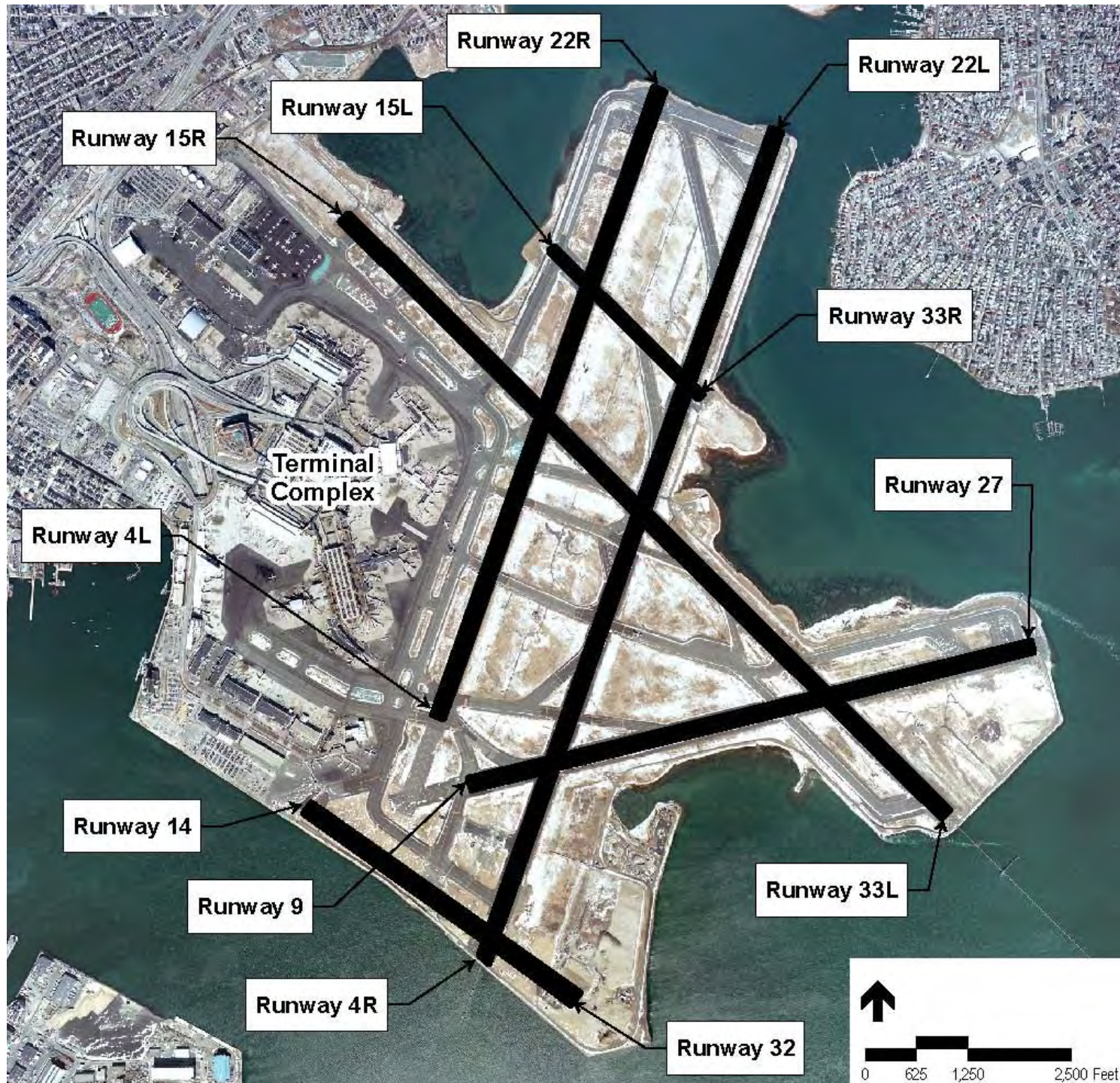
Fanning Briefing

CAC – 1/23/2008

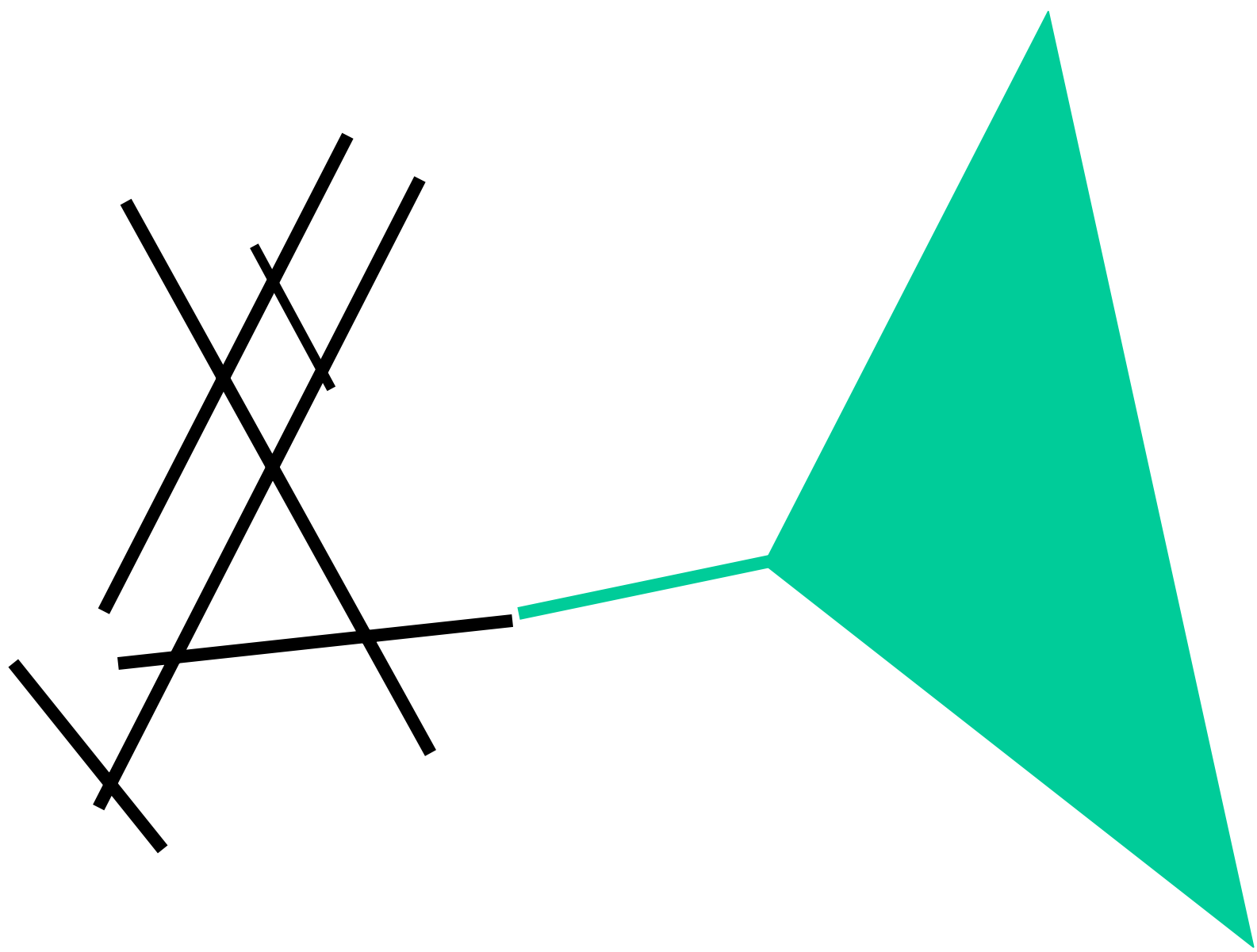
Stan Matthews, Buddy

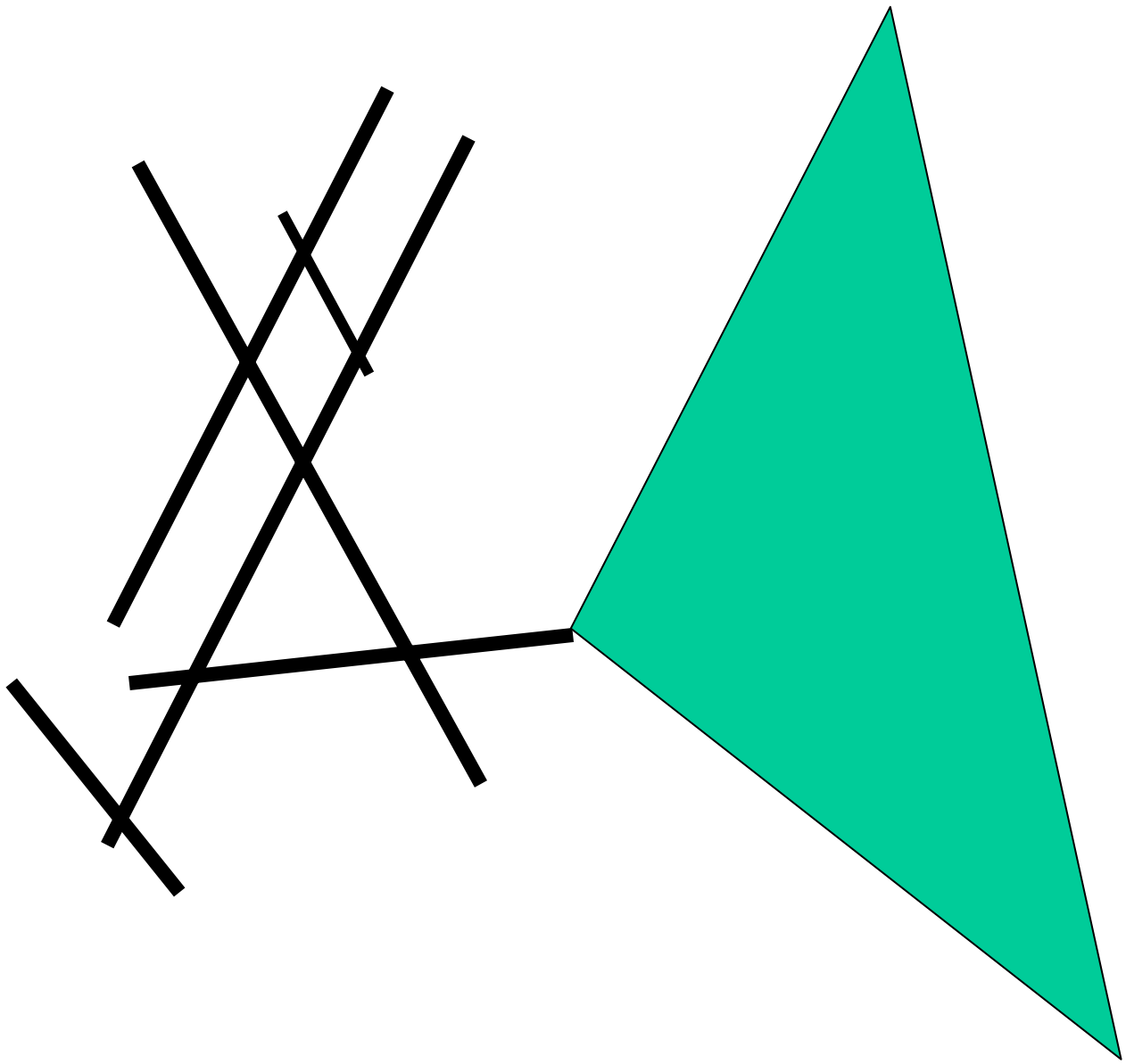
Borgioli,

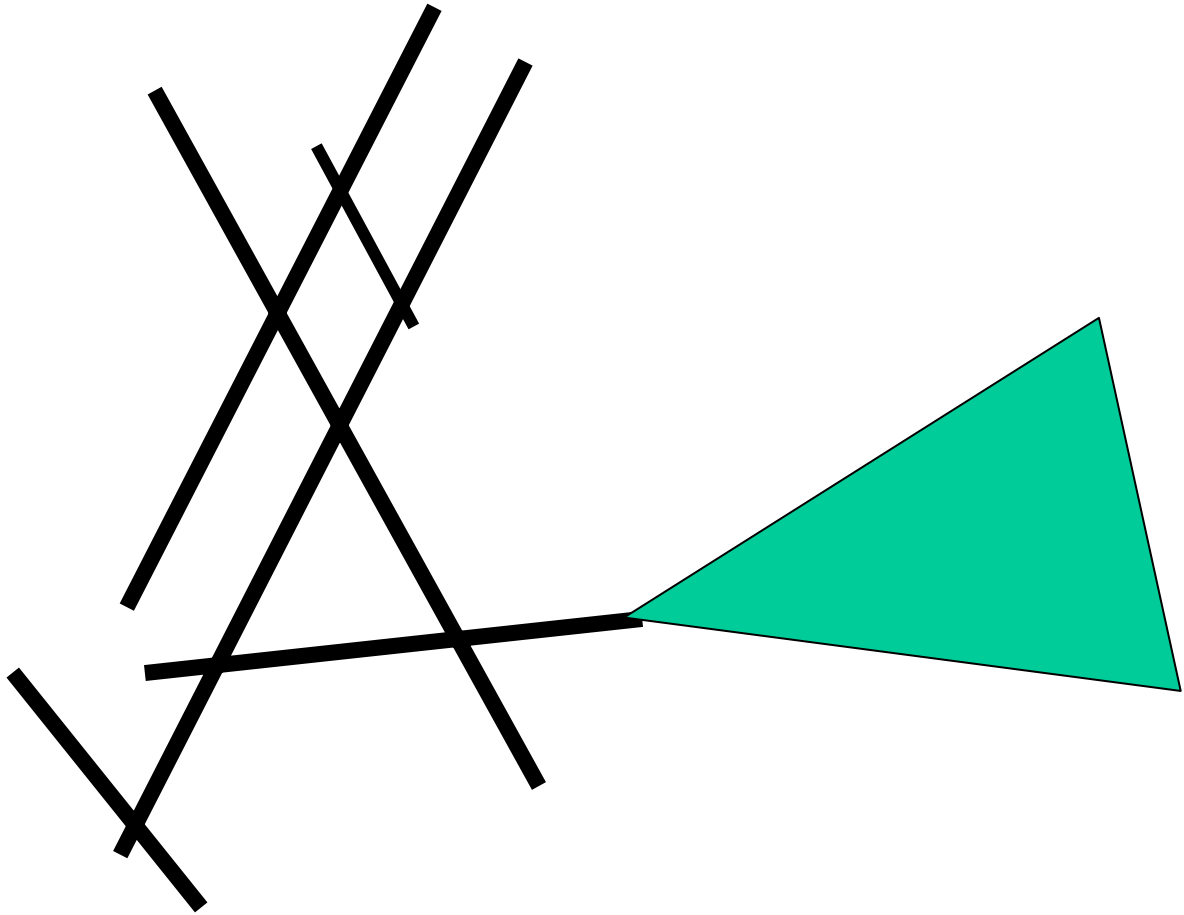
Scott Carpenter

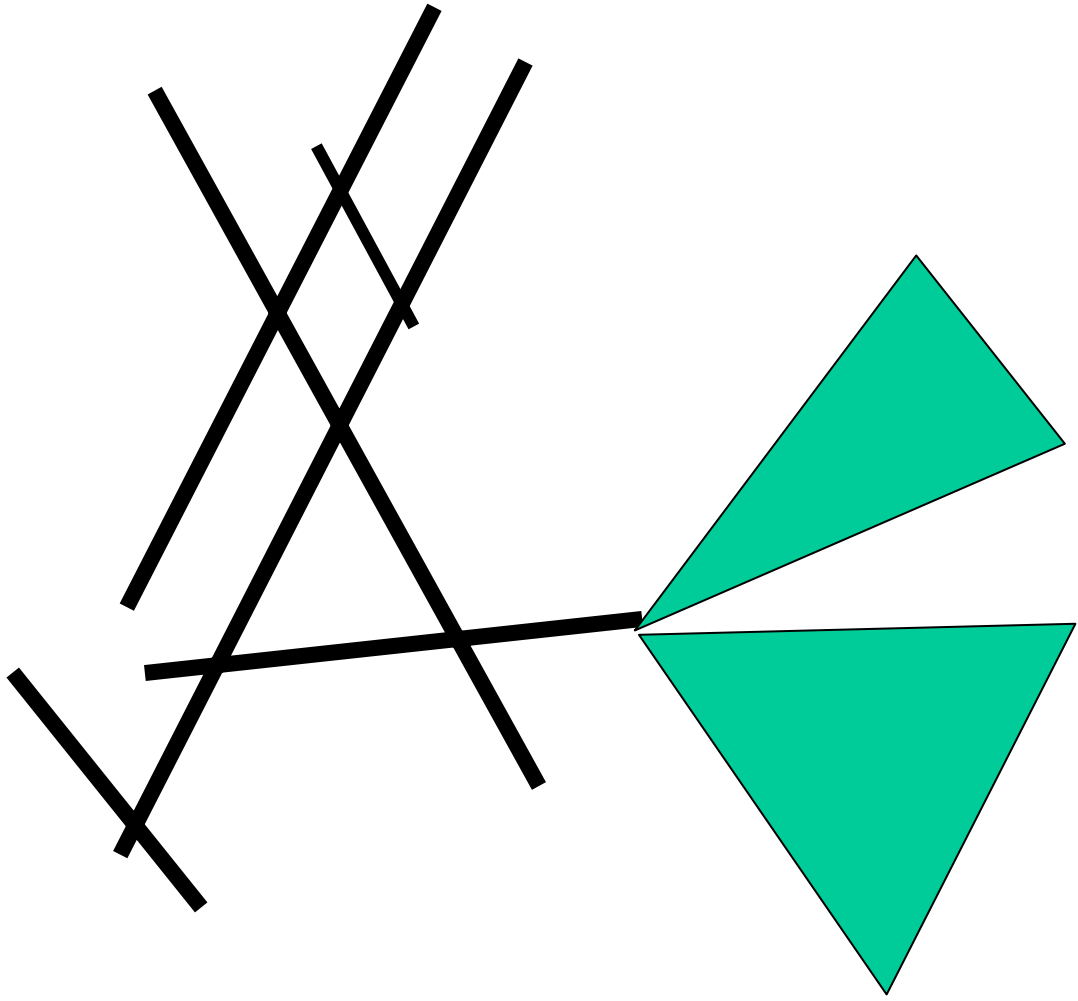


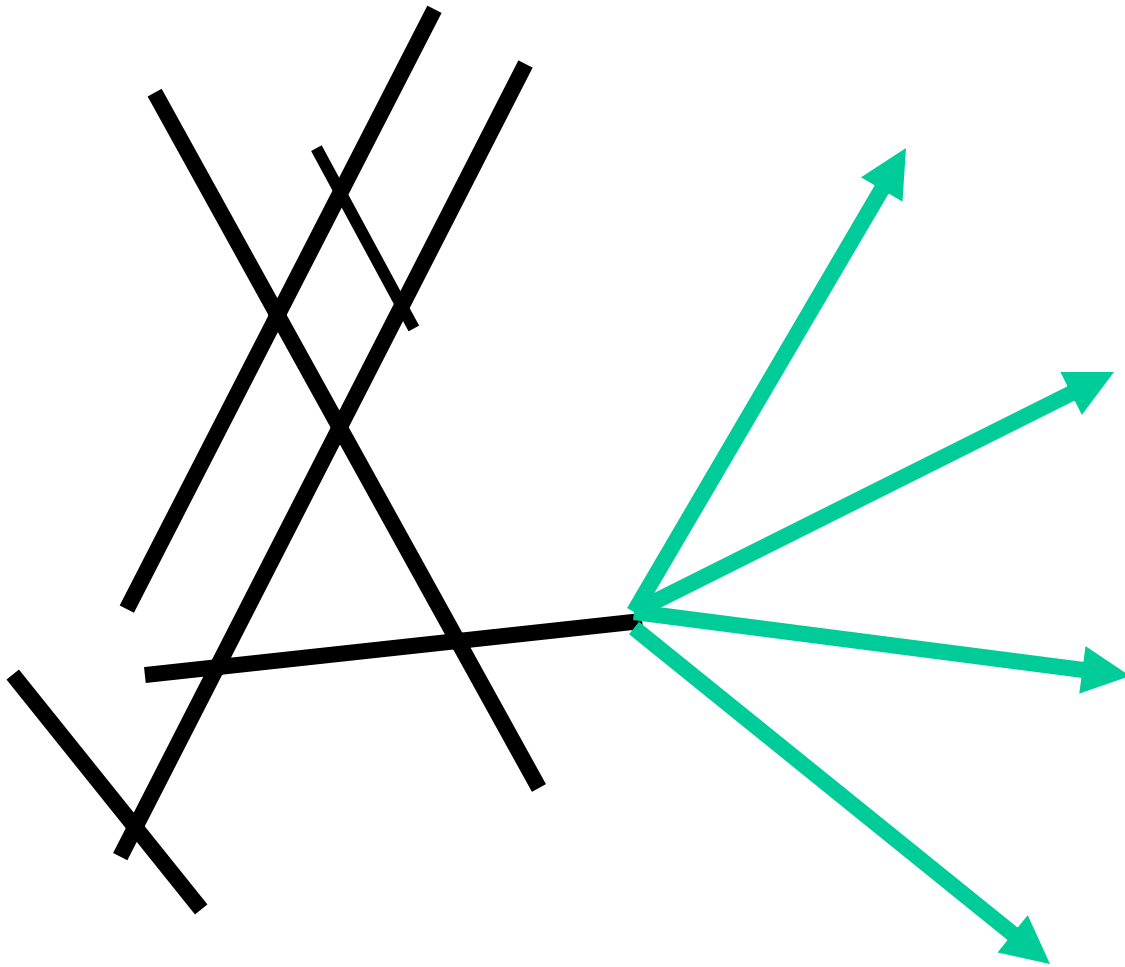
What is fanning?











Why would you want
to fan departures?

FAA considerations:

- Aircraft departing in trail are generally provided more than the minimum spacing reducing capacity.
- Fanning would allow aircraft to be released with closer spacing increasing departure throughput.

Community Considerations:

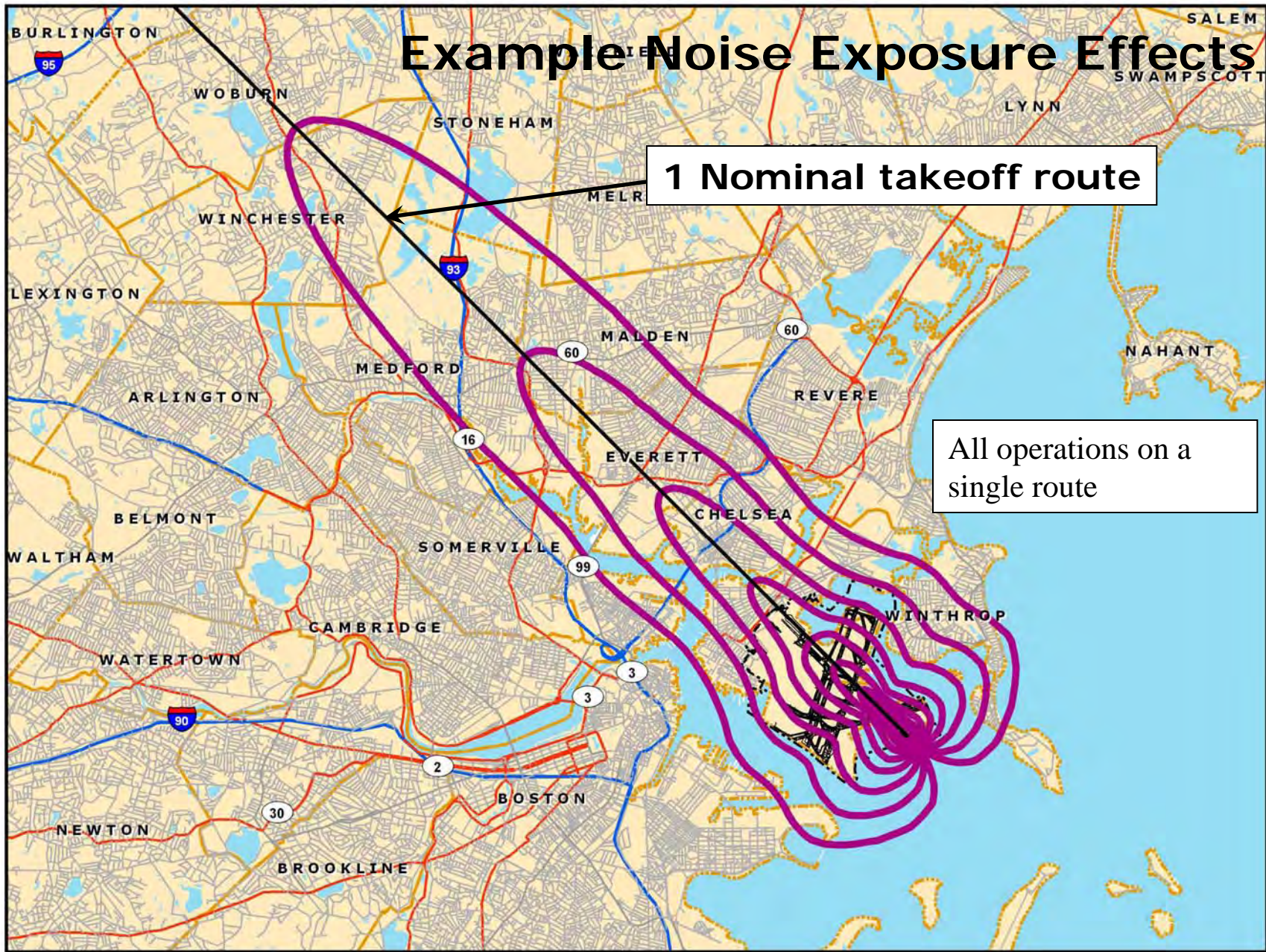
- Some communities are subjected to continuous departures within a particular configuration without respite.
- Other communities receive little or no departure impact.
- Fanning would spread the impact and provide relief to communities that have continuous exposure and expose other communities to new noise exposure.

How might fanning be implemented?

- By assigned routing
- Controller discretion
- Designated periods
 - Hours
 - Days
 - Weeks
 - Months

Example Noise Effects of Fanned Takeoffs

Example Noise Exposure Effects



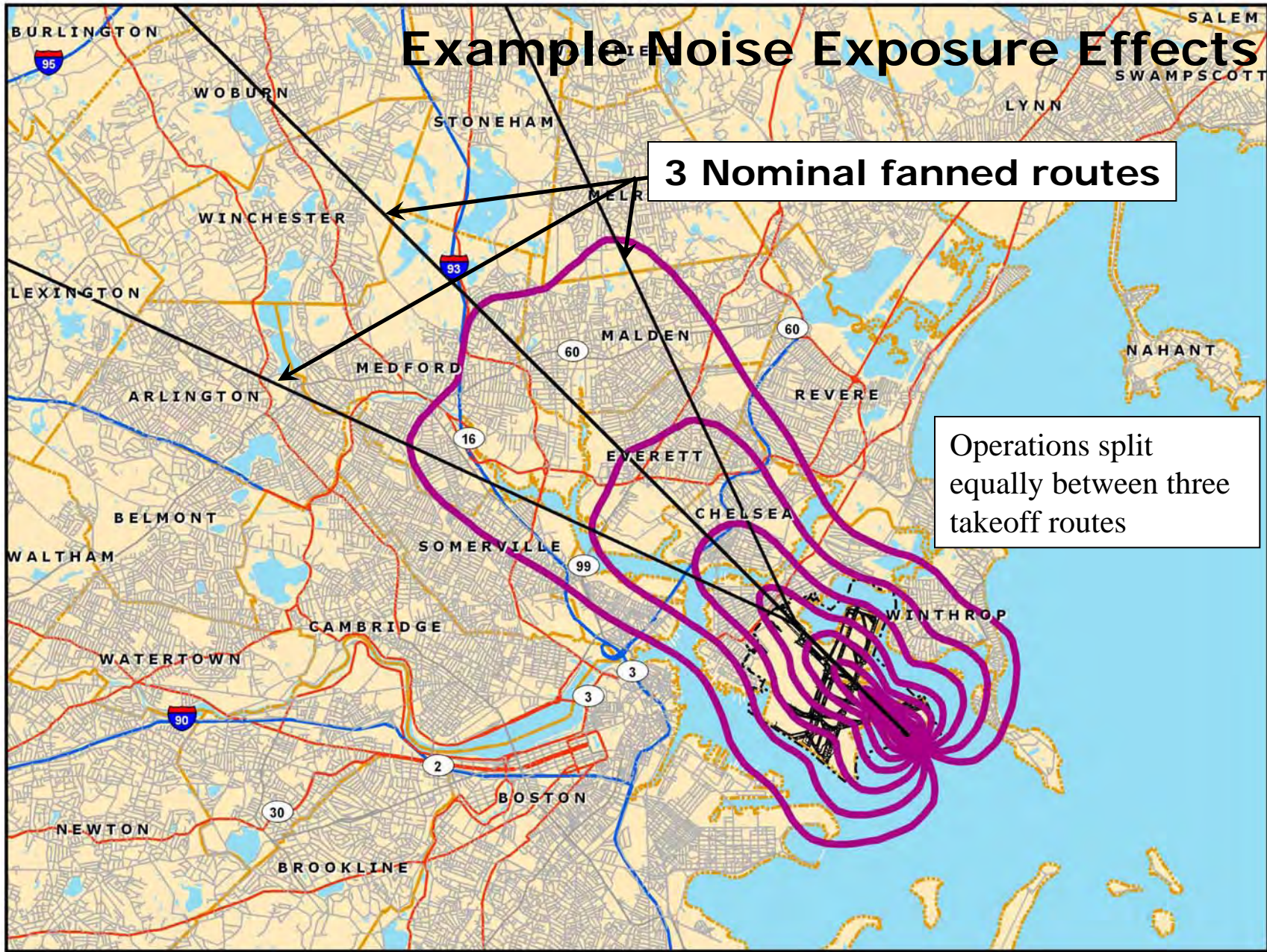
1 Nominal takeoff route

All operations on a single route

Example Noise Exposure Effects



3 Nominal fanned routes

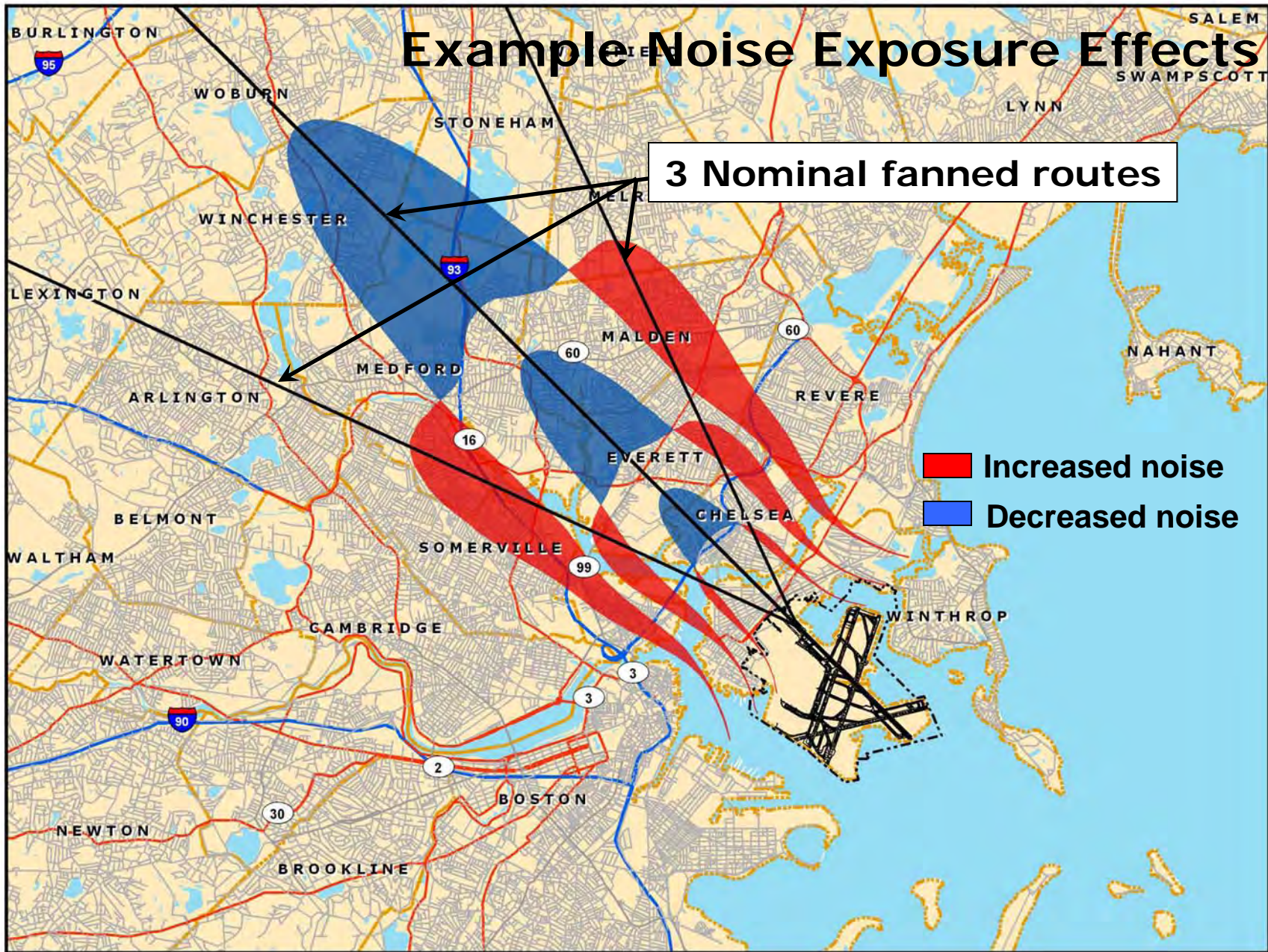
Operations split equally between three takeoff routes



Example Noise Exposure Effects

3 Nominal fanned routes

 Increased noise
 Decreased noise



Example Noise Exposure Effects

