

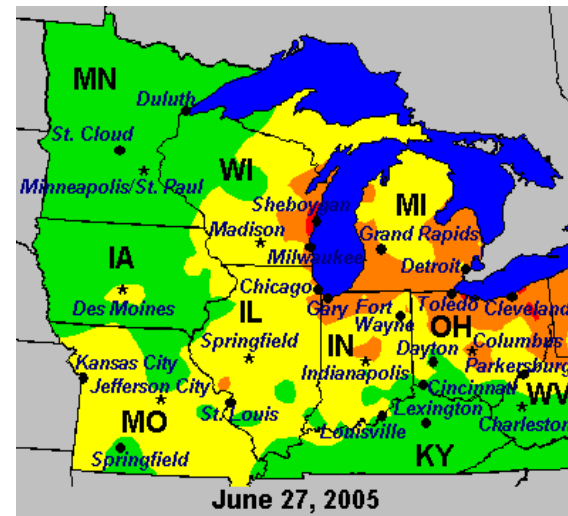
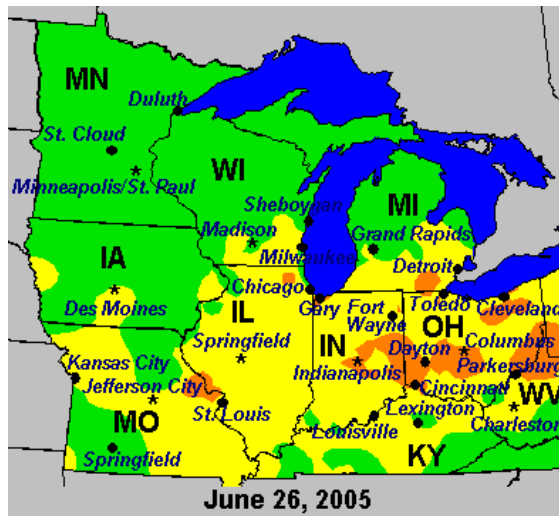
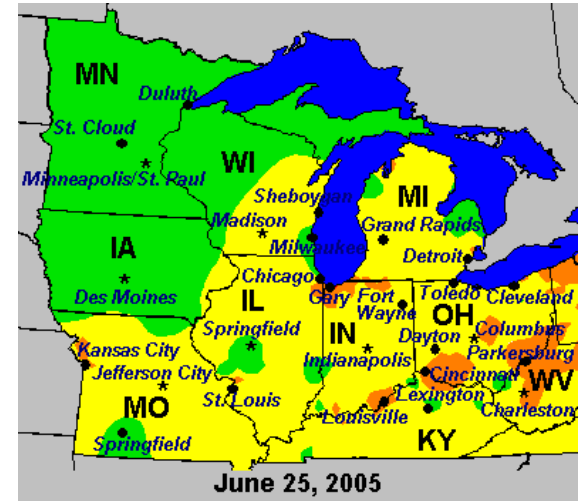
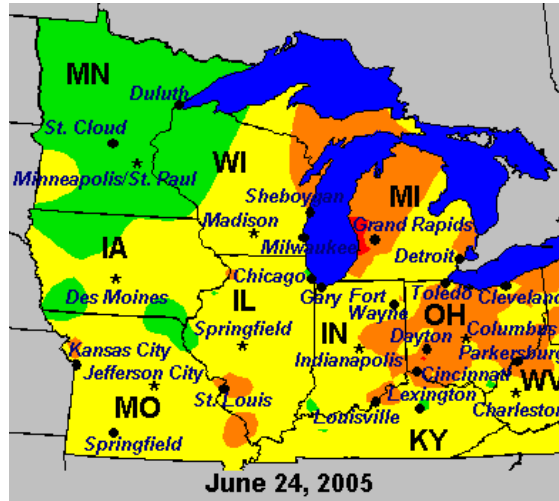
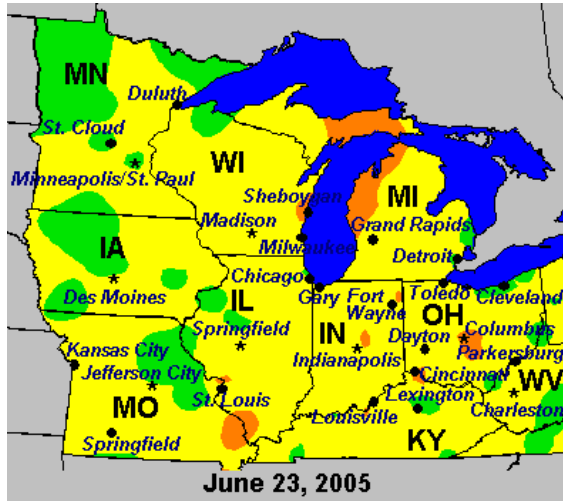
# OSAT Run for Episode of June 23-27 2005

August 3, 2010

Advanced CAMx Training

LADCO

# June 23-27 Episode



# OSAT/APCA

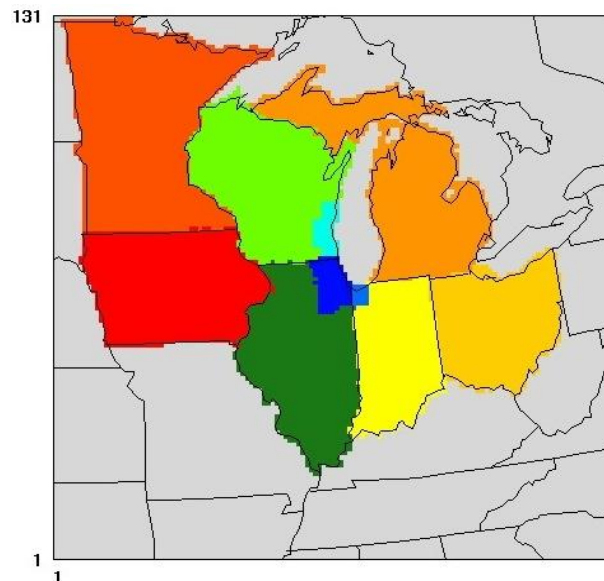
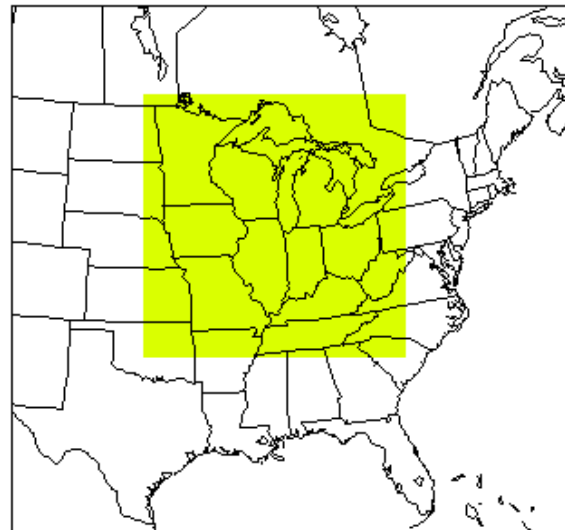
- Tracks source region and/or source category contributions to and from individual grid cells.
- APCA: (Anthropogenic Precursor Culpability Assessment)
  - recognizes that biogenic emissions cannot be controlled
  - Where OSAT would attribute some ozone production to non-controllable emissions, the ozone production is re-allocated to the controllable portion of the precursors.
  - Ozone production is only attributed to biogenic sources if it was due to both biogenic VOC and biogenic NOX

# Inputs

- MM5 for both 36 and 12 km grids
- Weekday, Saturday, Sunday anthropogenic files
  - Components: low point, area, onroad, nonroad, marine/air/rail, and ammonia
- Daily biogenic emissions
- Six sources were tracked: egu-point, nonegu point, area, nonroad+marine/air/rail, and biogenics+nh<sub>3</sub>

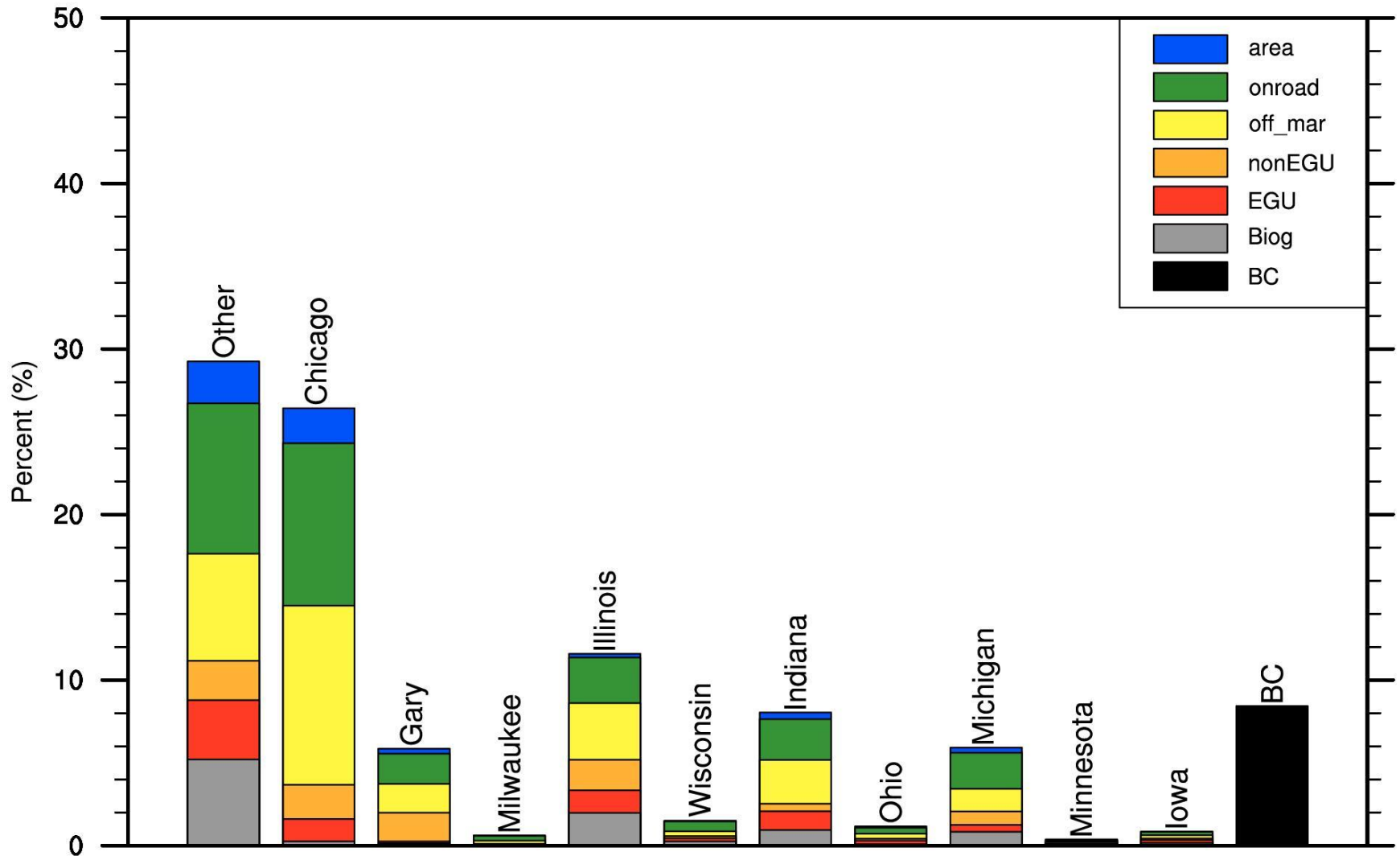
# Model Setup

- June 23-27, 2005
- LADCO 12km nested modeling domain
- Eleven regions for source tracking:
  - Chicago, Gary, Milwaukee, Illinois, Wisconsin, Indiana, Ohio, Michigan, Minnesota, Iowa, and remainder of the modeling domain.



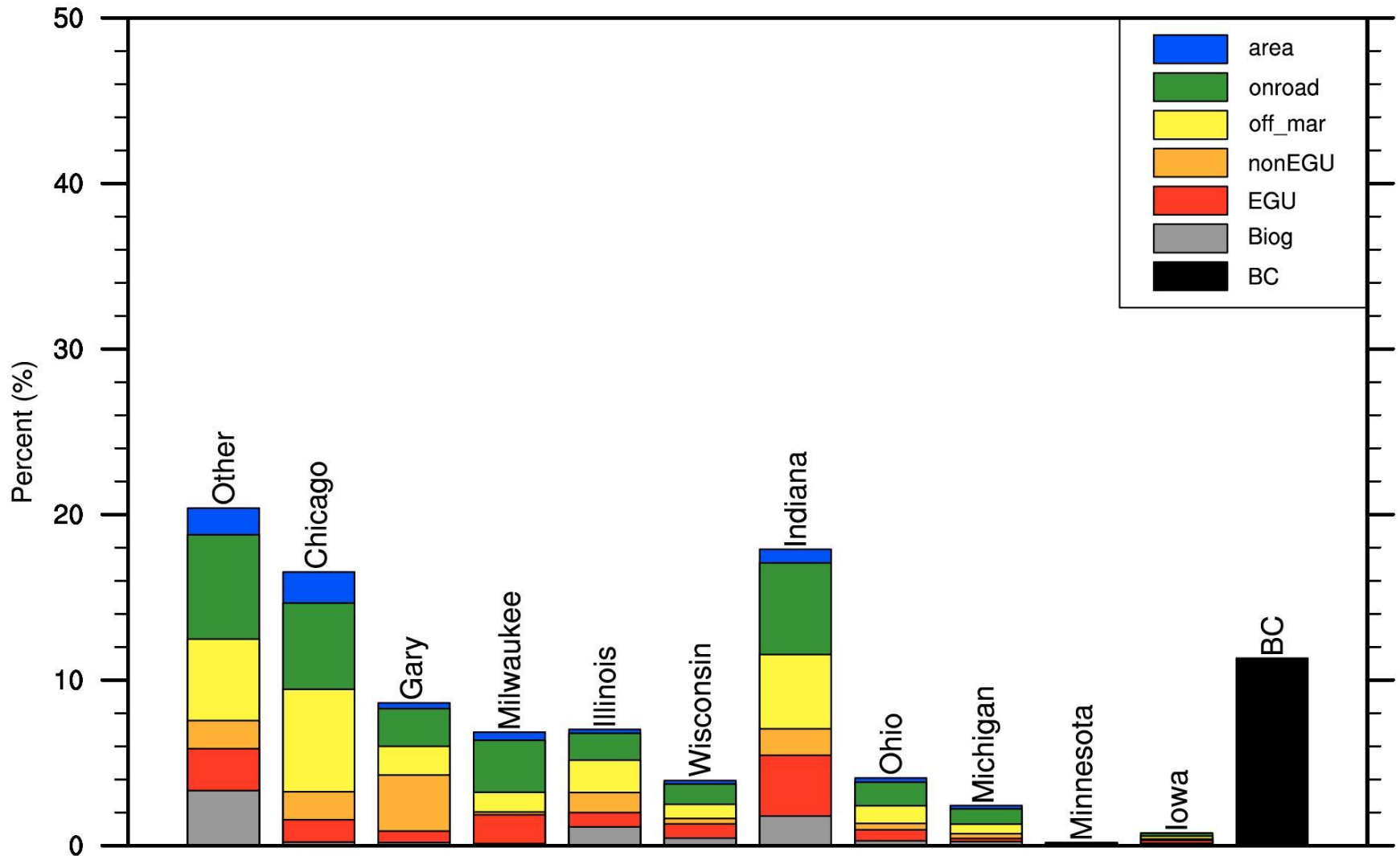
# Chicago, IL

Contribution to Ozone (Monid: 1703170021)



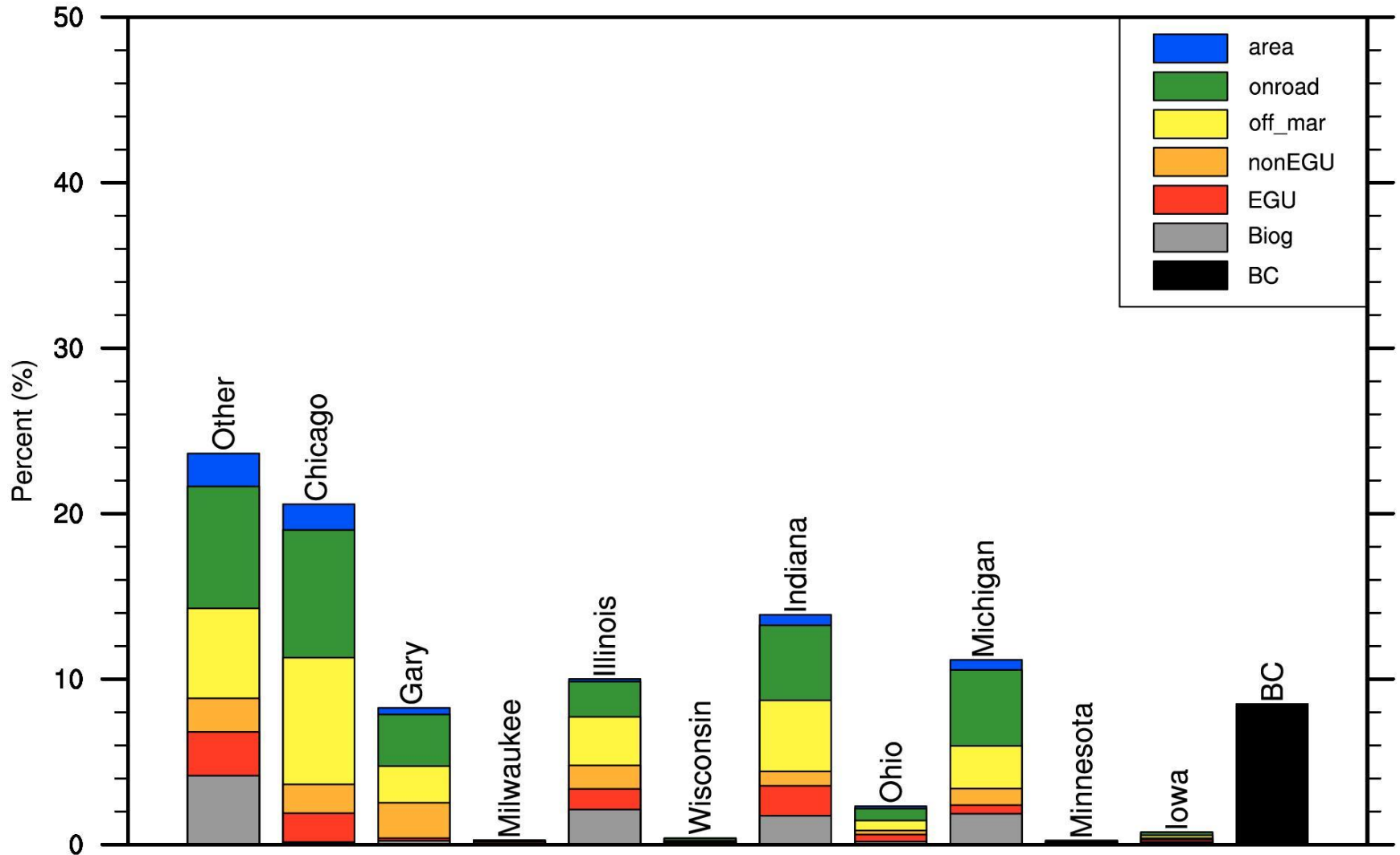
# Door County, WI

Contribution to Ozone (Monid: 5502900041)



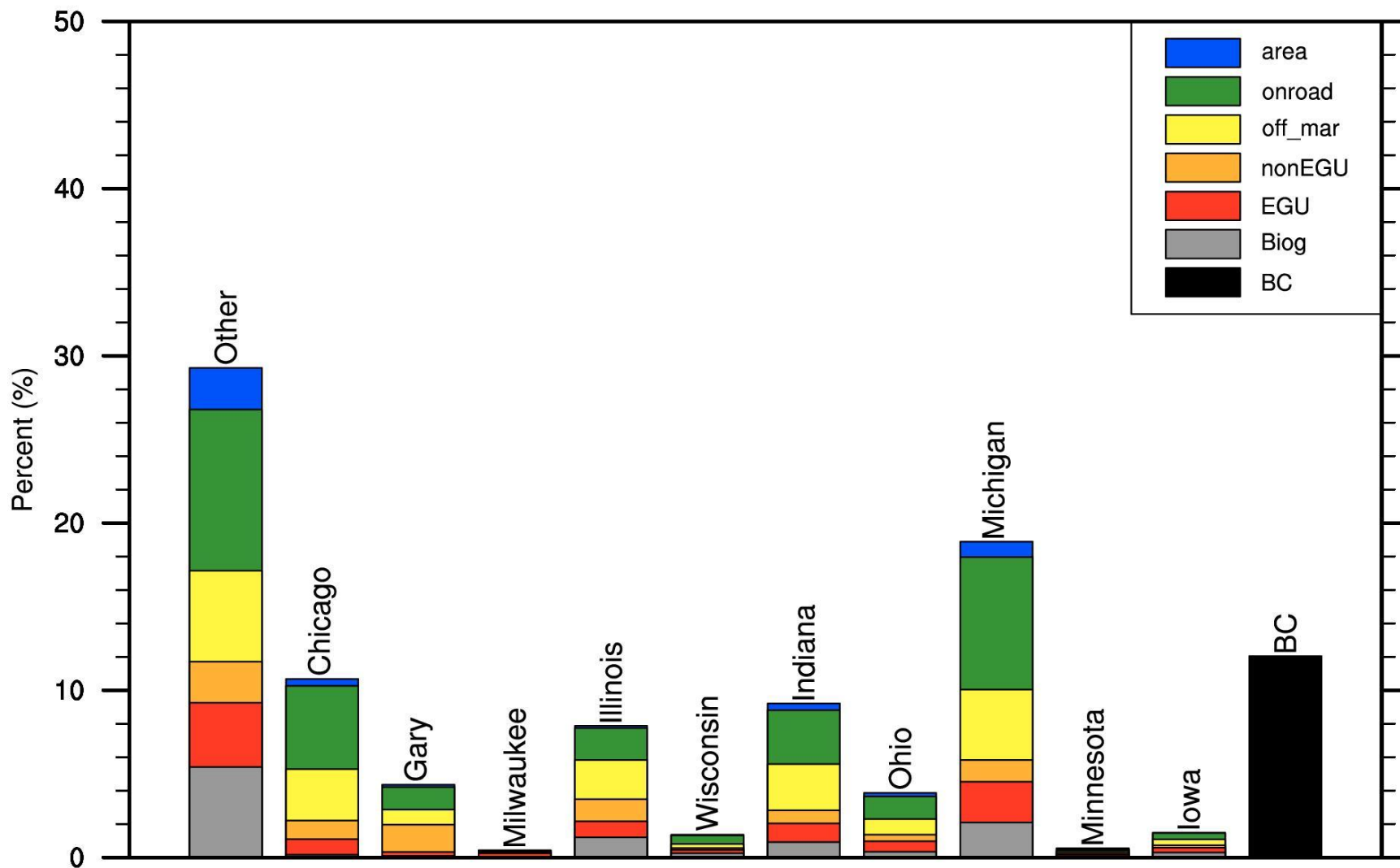
# Kenosha, WI

Contribution to Ozone (Monid: 5505900021)



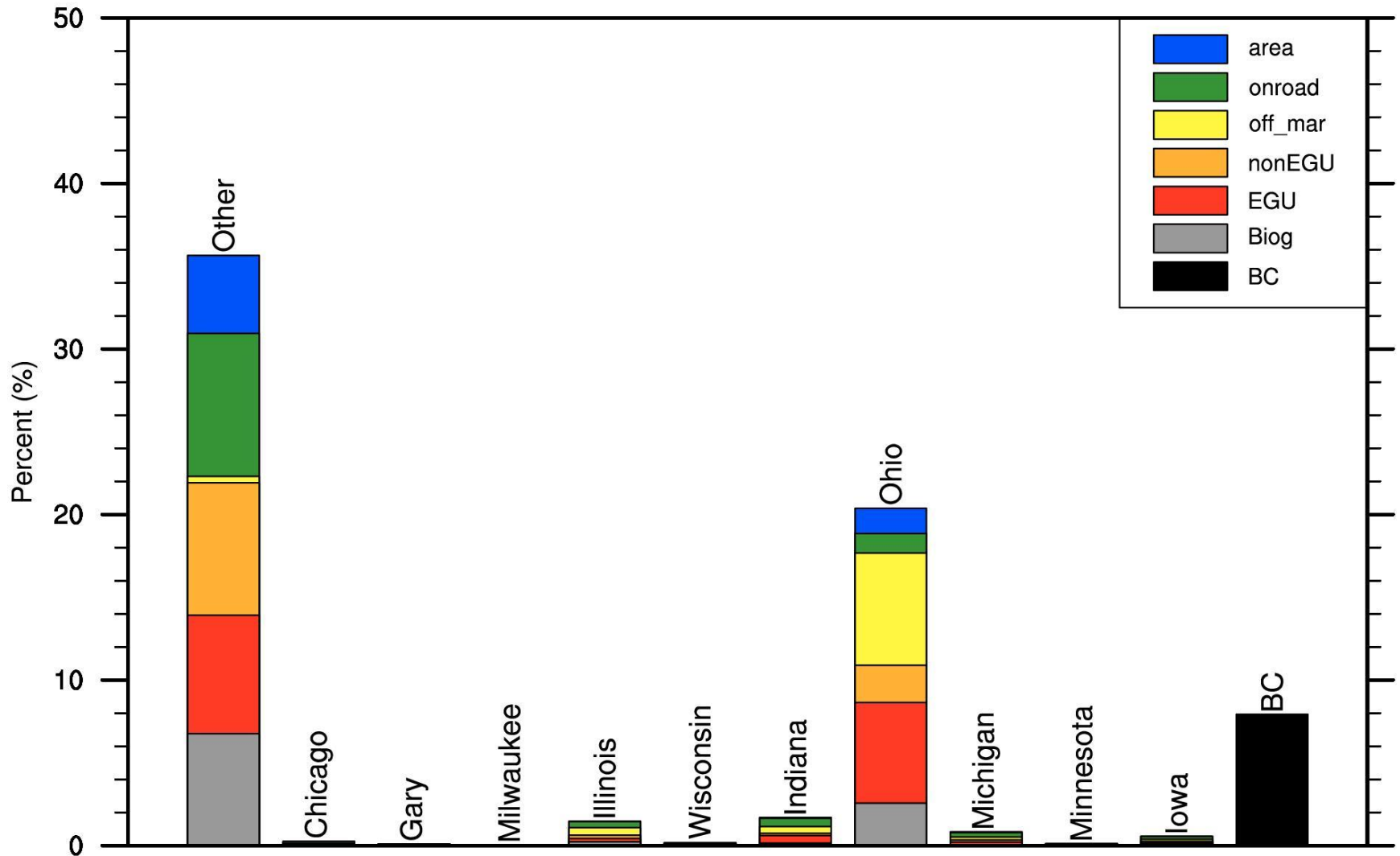
# Holland, MI

Contribution to Ozone (Monid: 2600500031)



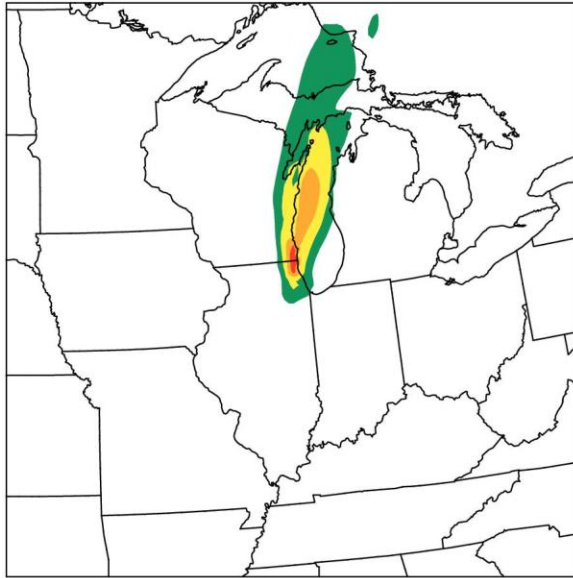
# Port Stanley, ON

Contribution to Ozone (Monid: 16015)

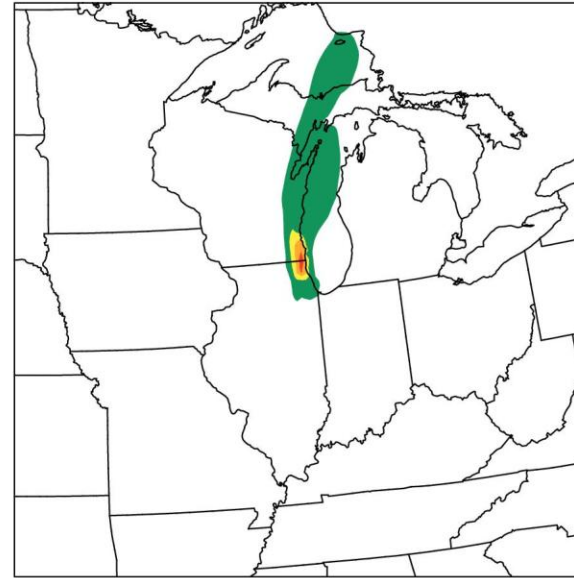


# Chicago Ozone Contribution by Sector: June 27, 2005 (PPB)

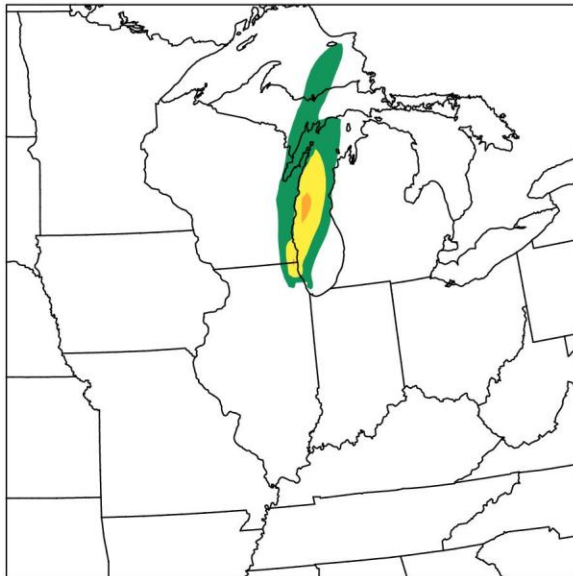
a. All Sectors



b. onroad



c. off-mar

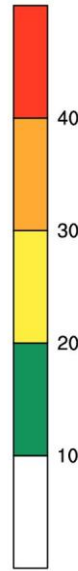
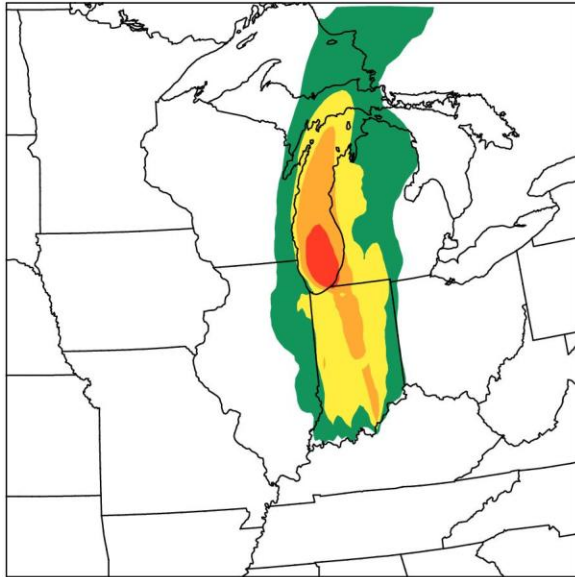


d. EGU

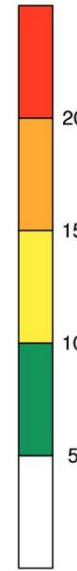
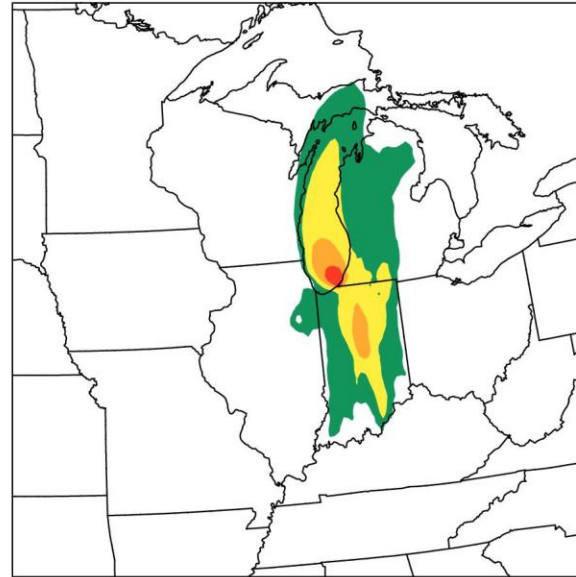


# Indiana Ozone Contribution by Sector: June 27, 2005 (PPB)

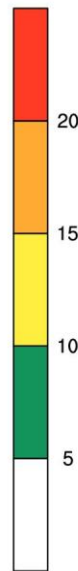
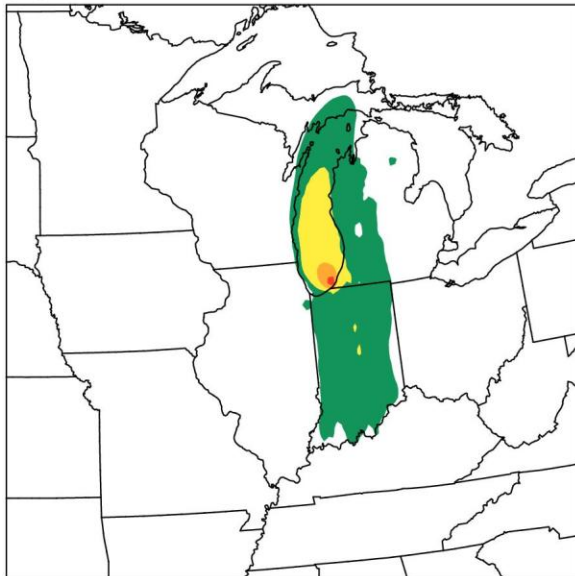
a. All Sectors



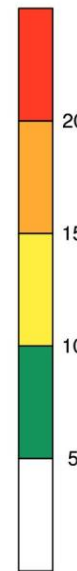
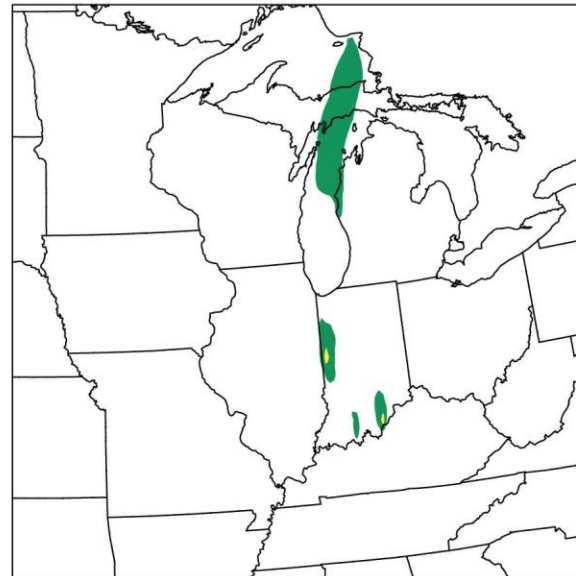
b. onroad



c. off-mar



d. EGU



# Summary

- Chicago and Indiana are large contributors to WI monitors near the lake
- Onroad and offroad/mar are the largest contributions by sector for the chosen monitors near Lake Michigan