

7 Sins in NYC

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7 Sins



Burglary



Felony assault



Grand larceny



Grand larceny of
motor vehicle



Rape



Robbery



Murder

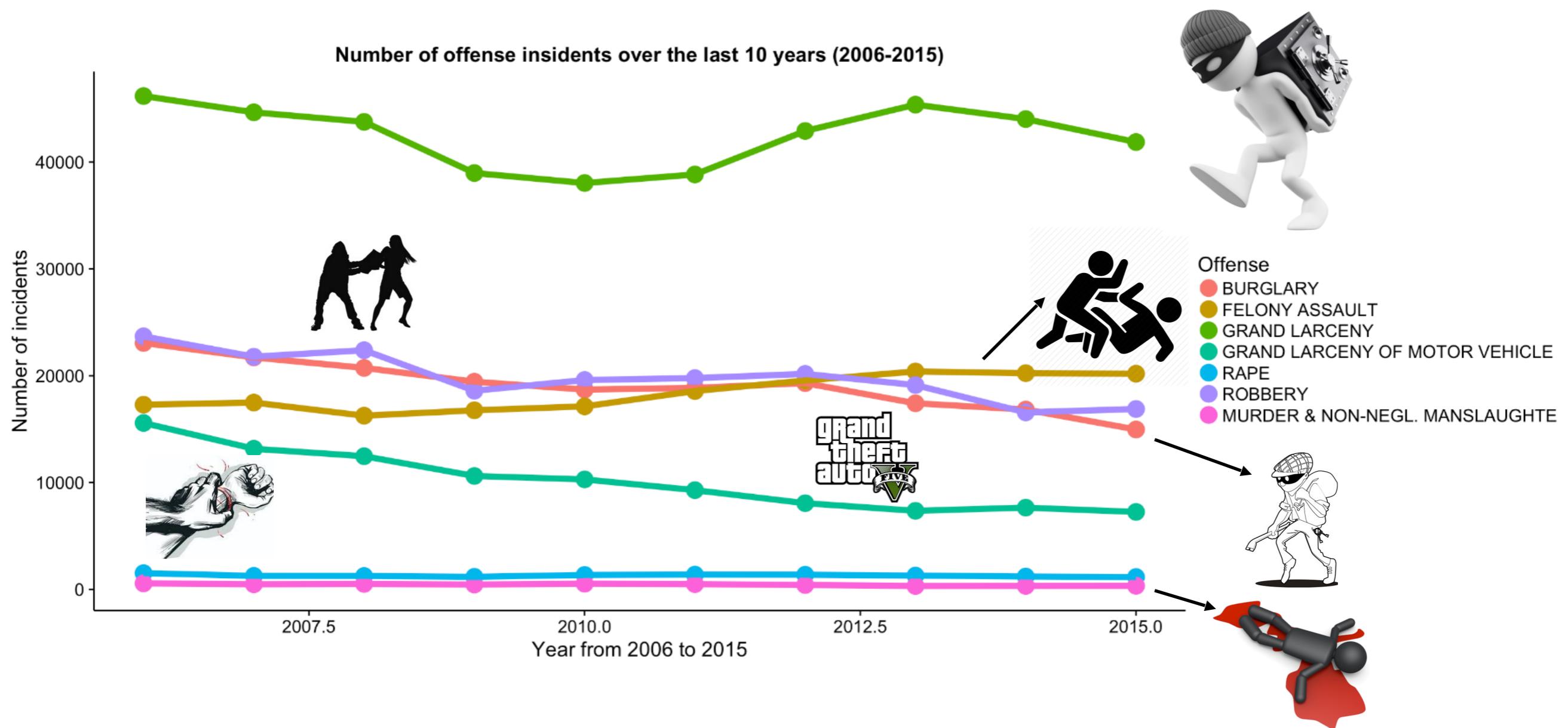
Dataset

- The NYPD 7 Major Felony Incidents dataset
- ~1.1 million incidents, 22 variables, 194 MB size
- Extracted all incidents in the last 10 years (2006-2015)

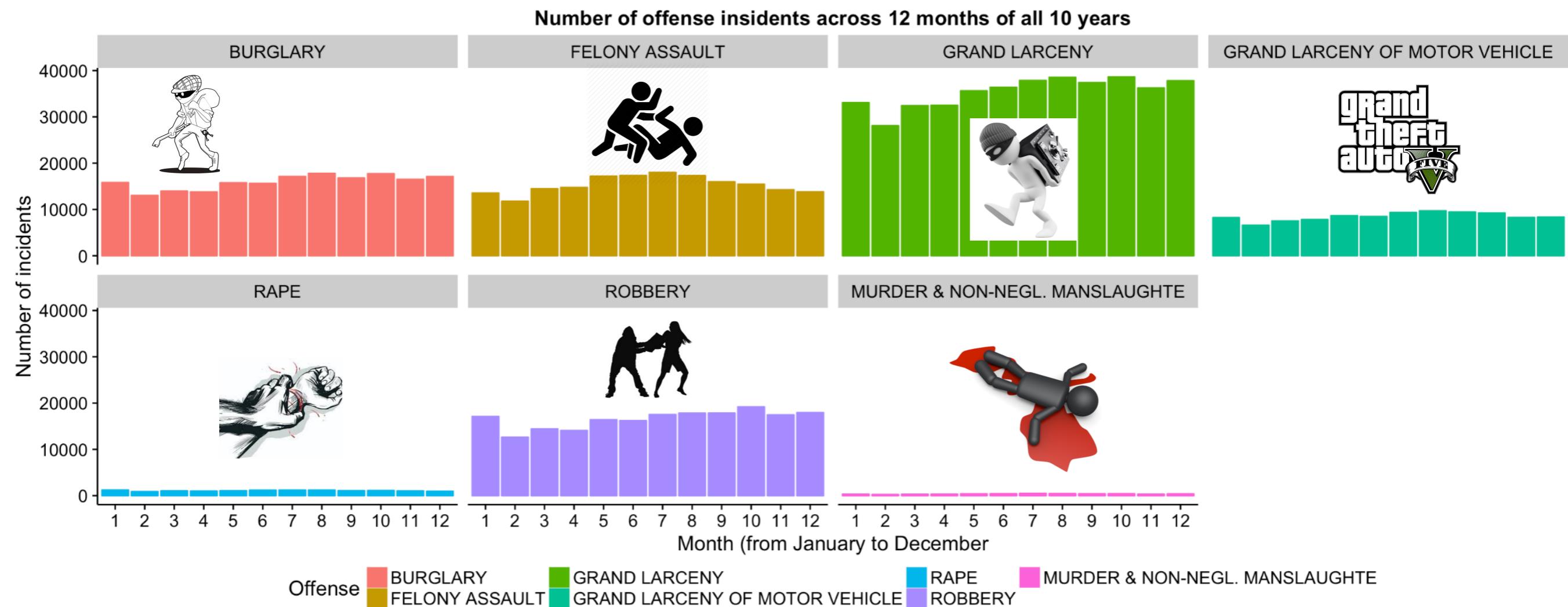
Questions

- Is NYC becoming safer over the last 10 years?
- Which months of a year are safer?
- Which days of a week are safer?
- Which hours of a day are safer?

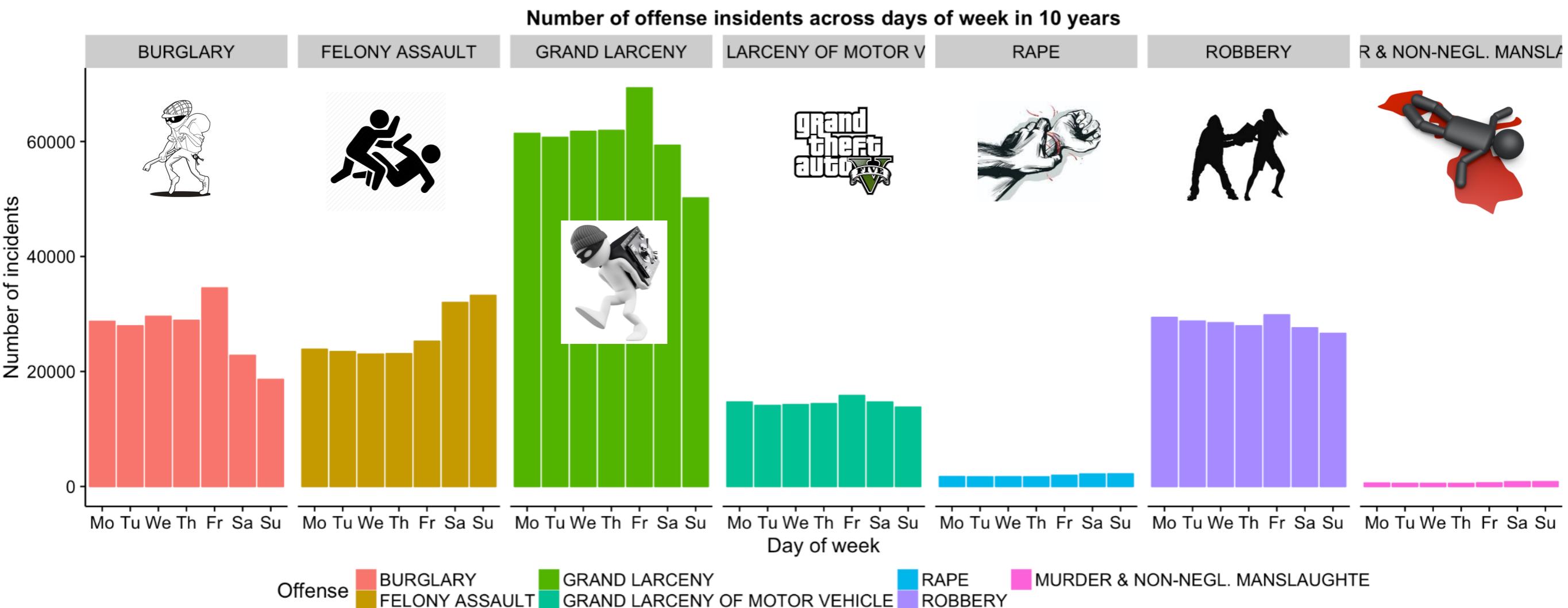
Trend in 10 years



Incidents by month

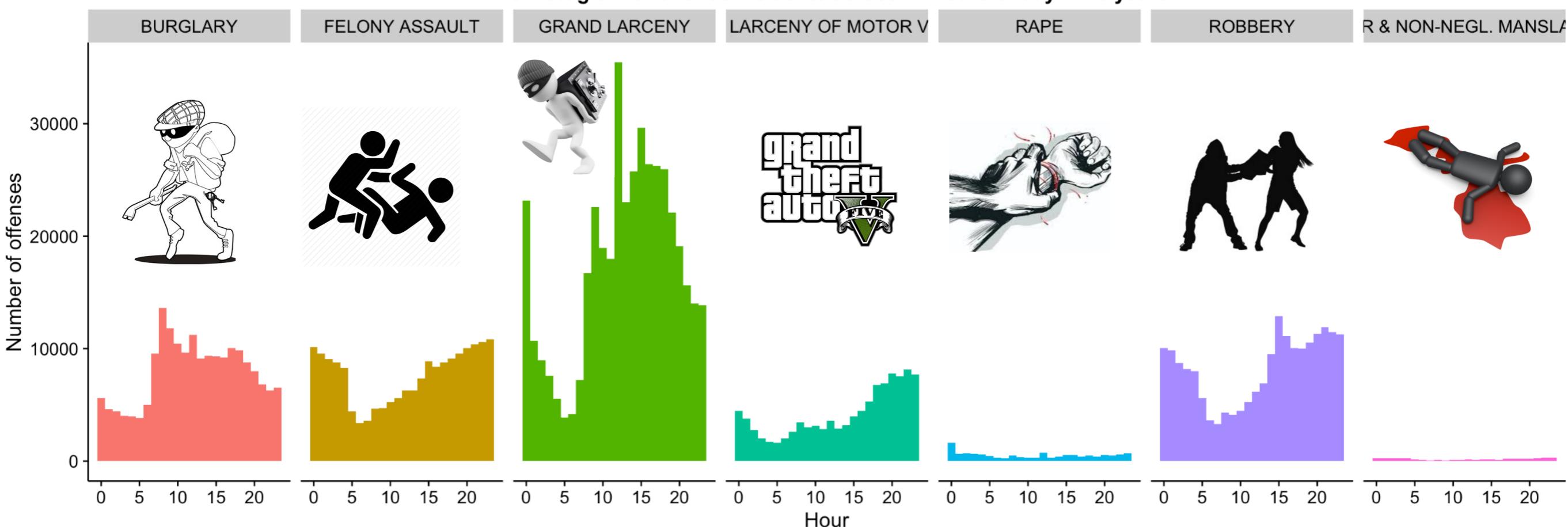
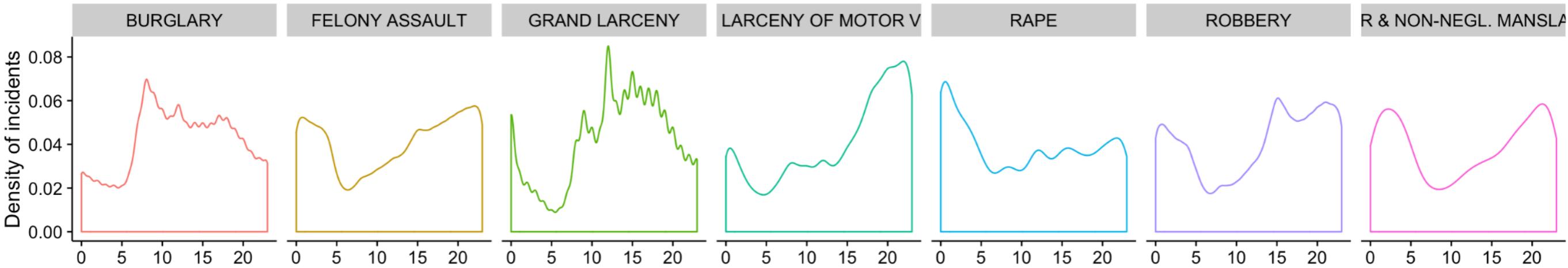


Incidents by day of week



Incidents by hour

The density of offense incidents across 24 hours of day in 10 years

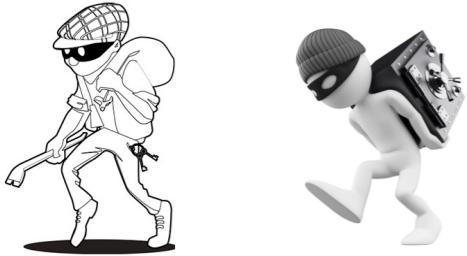


Offense BURGLARY GRAND LARCENY RAPE MURDER & NON-NEG. MANSLAUGHTER
 FELONY ASSAULT GRAND LARCENY OF MOTOR VEHICLE ROBBERY

Middle night: 11pm-3am



Morning: 7am-10am

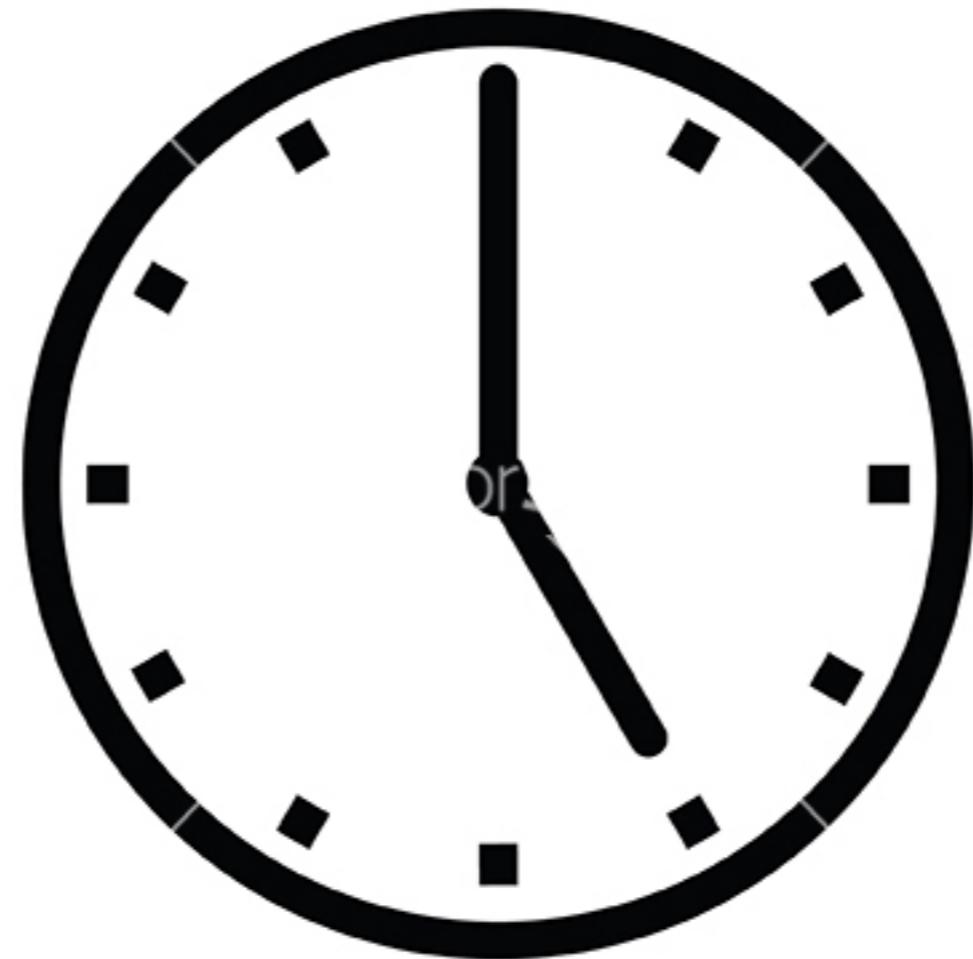


Evening: 7pm-10pm



Afternoon: 1pm-3pm

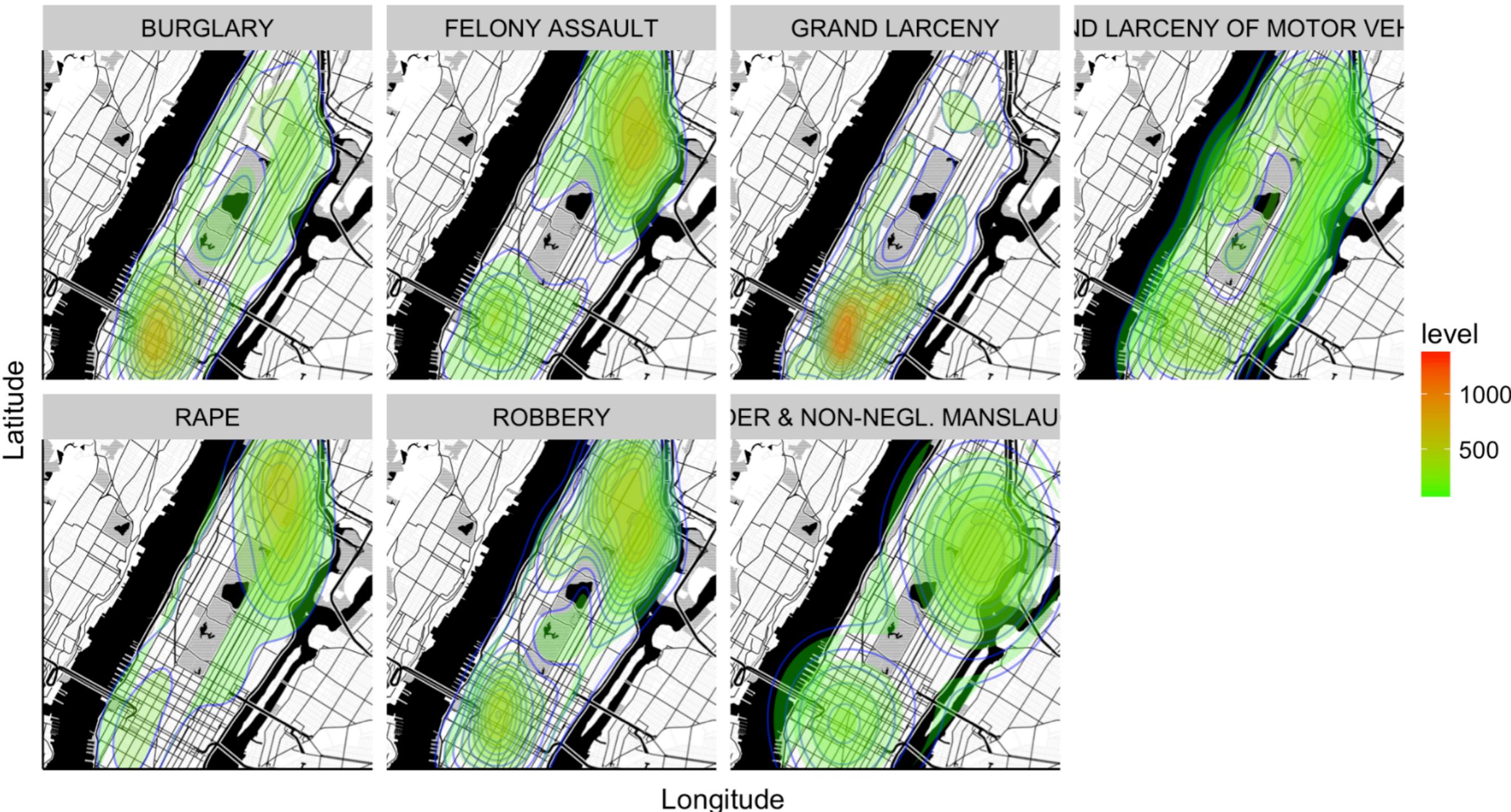




5am is perhaps the only safe hour!

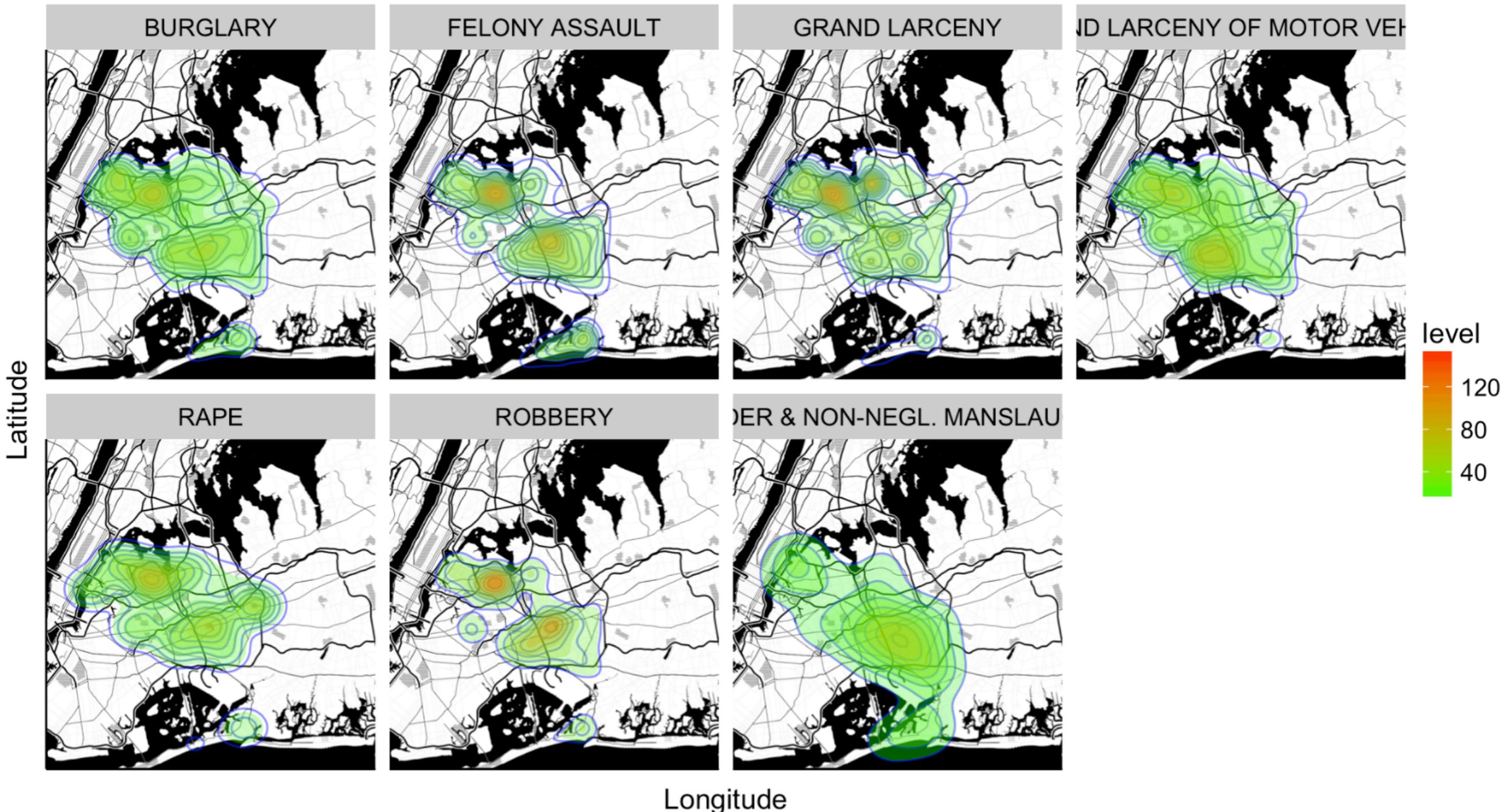
Offenses density map of Manhattan in 2015

Offenses density map in Manhattan in 2015



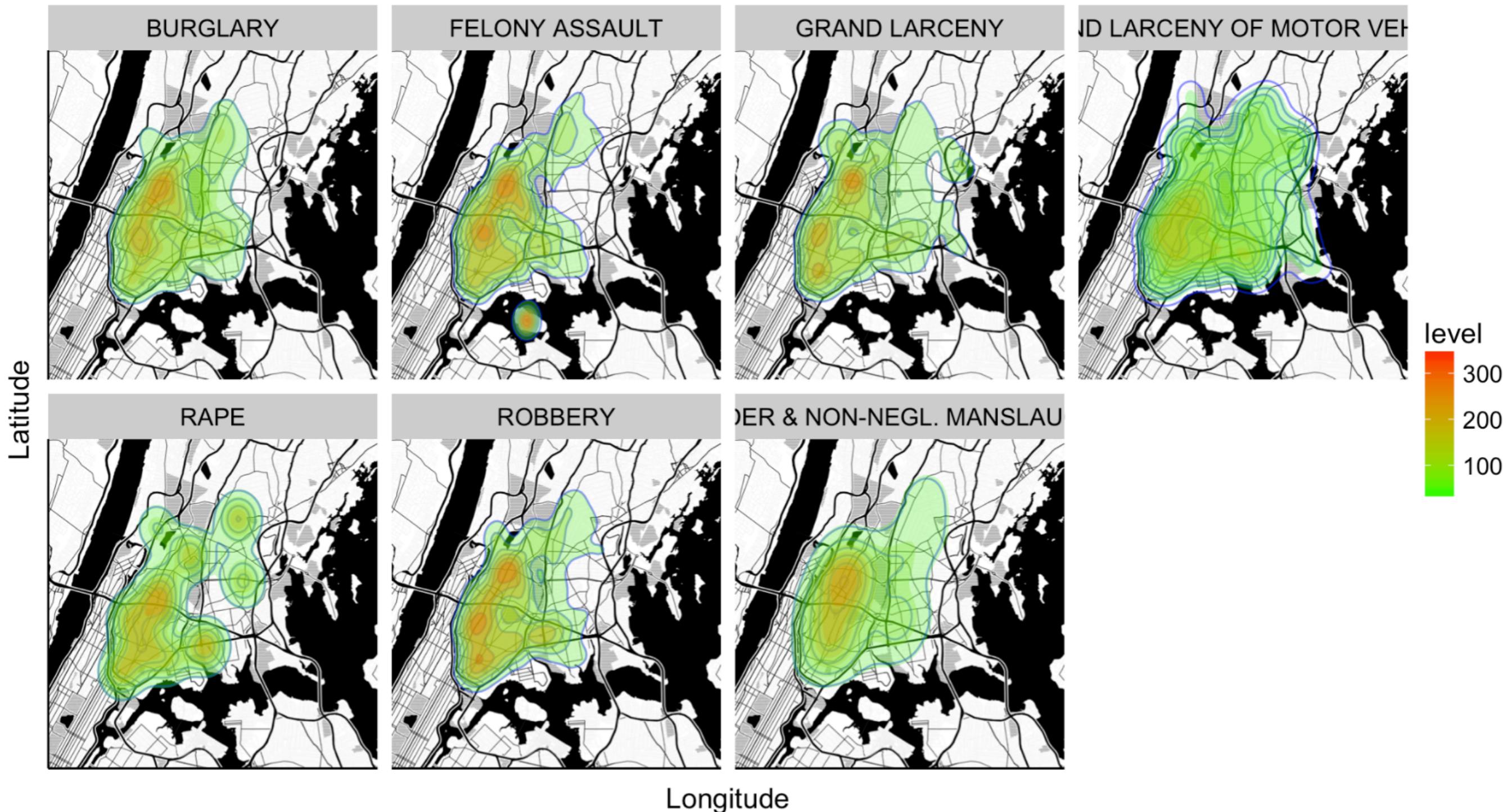
Offenses density map of Queens in 2015

Offenses density map in Queens in 2015



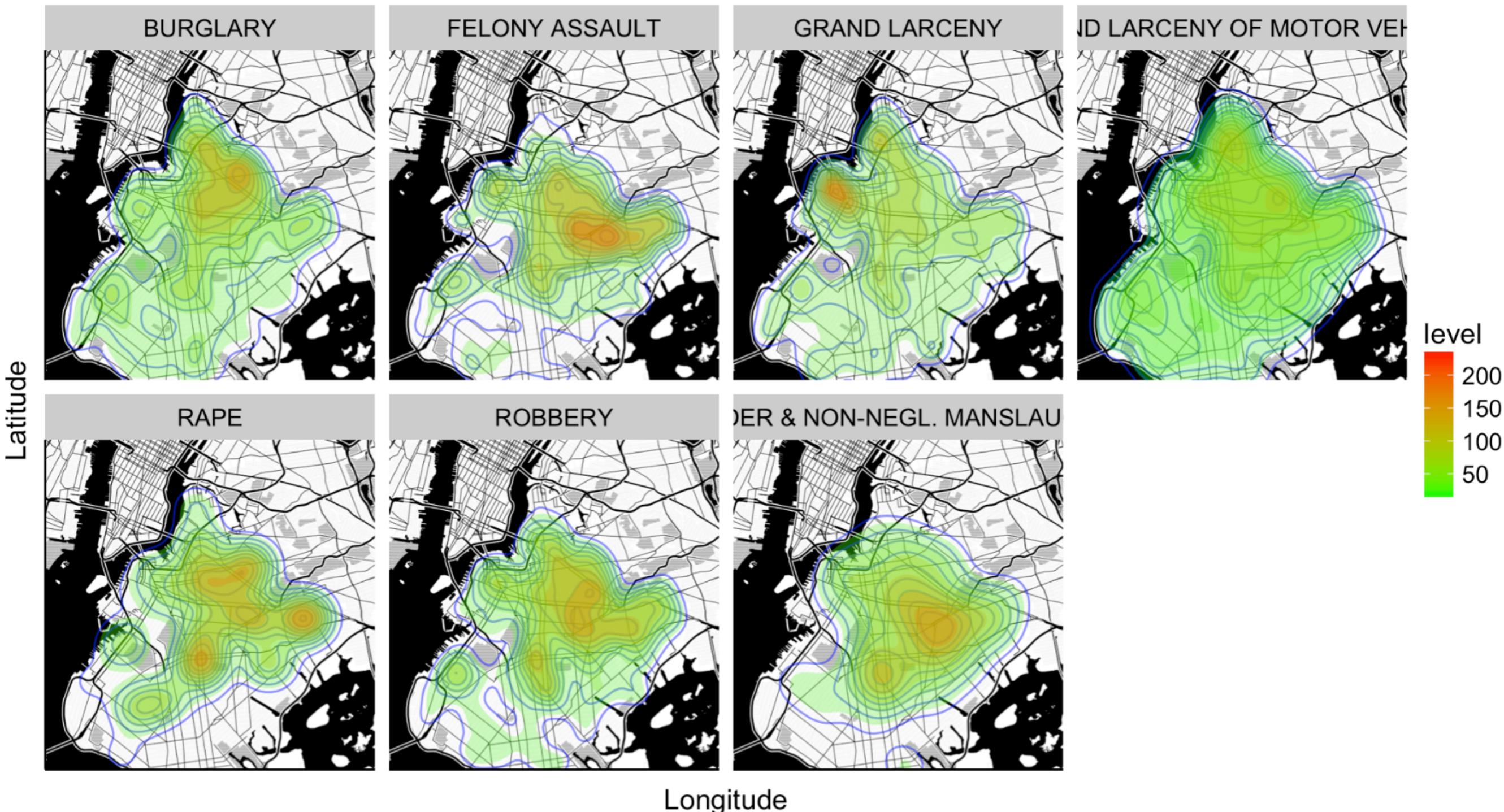
Offenses density map of Bronx in 2015

Offenses density map in Bronx in 2015



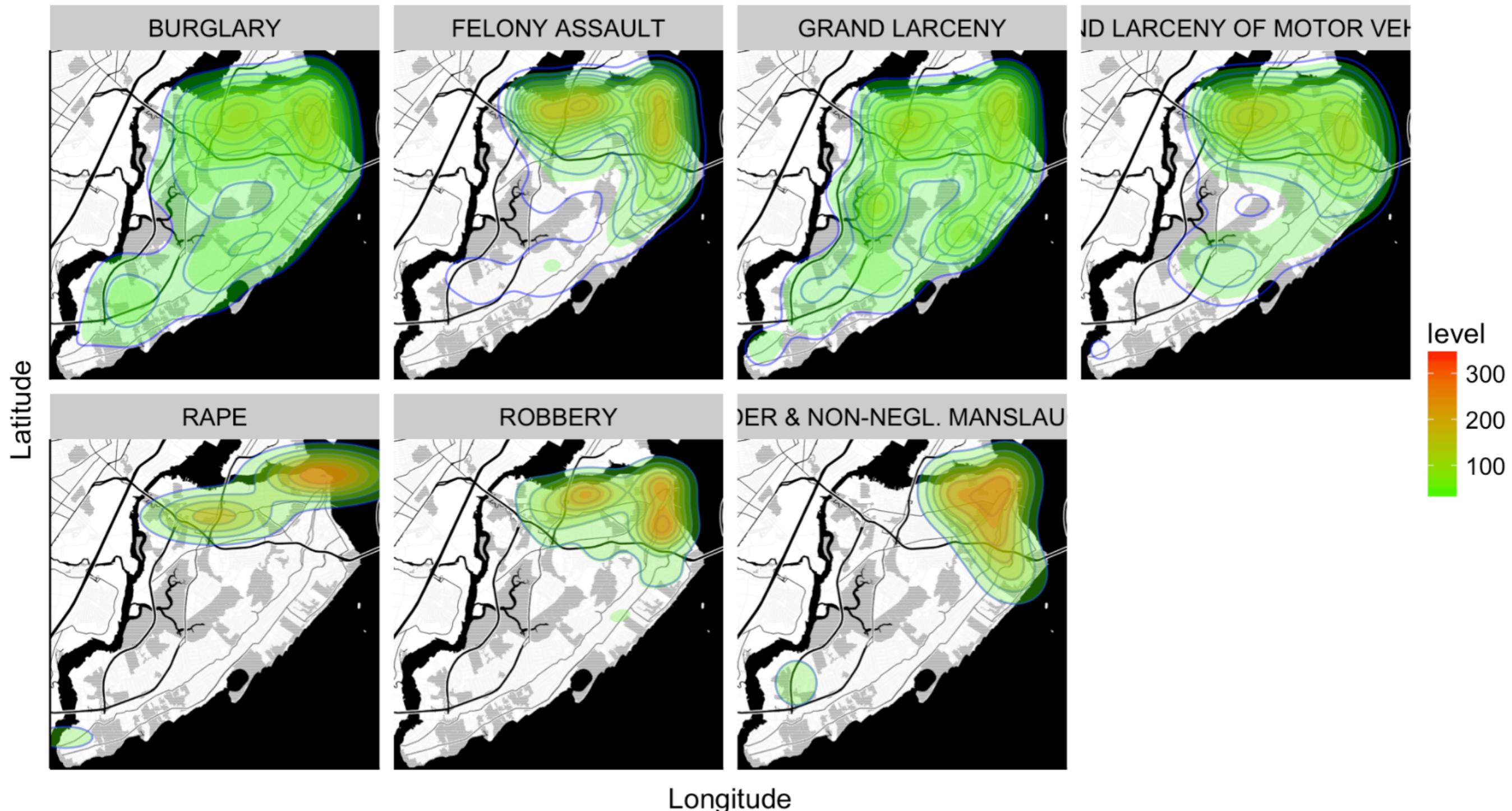
Offenses density map of Brooklyn in 2015

Offenses density map in Brooklyn in 2015



Offenses density map of Staten Island in 2015

Offenses density map in Staten island in 2015



Answer

- Is NYC becoming safer? Yes!
- Which months of a year are safer? February.
- Which days of a week are safer? Weekend.
- Which hours of a day are safer? 5am.

Thanks!