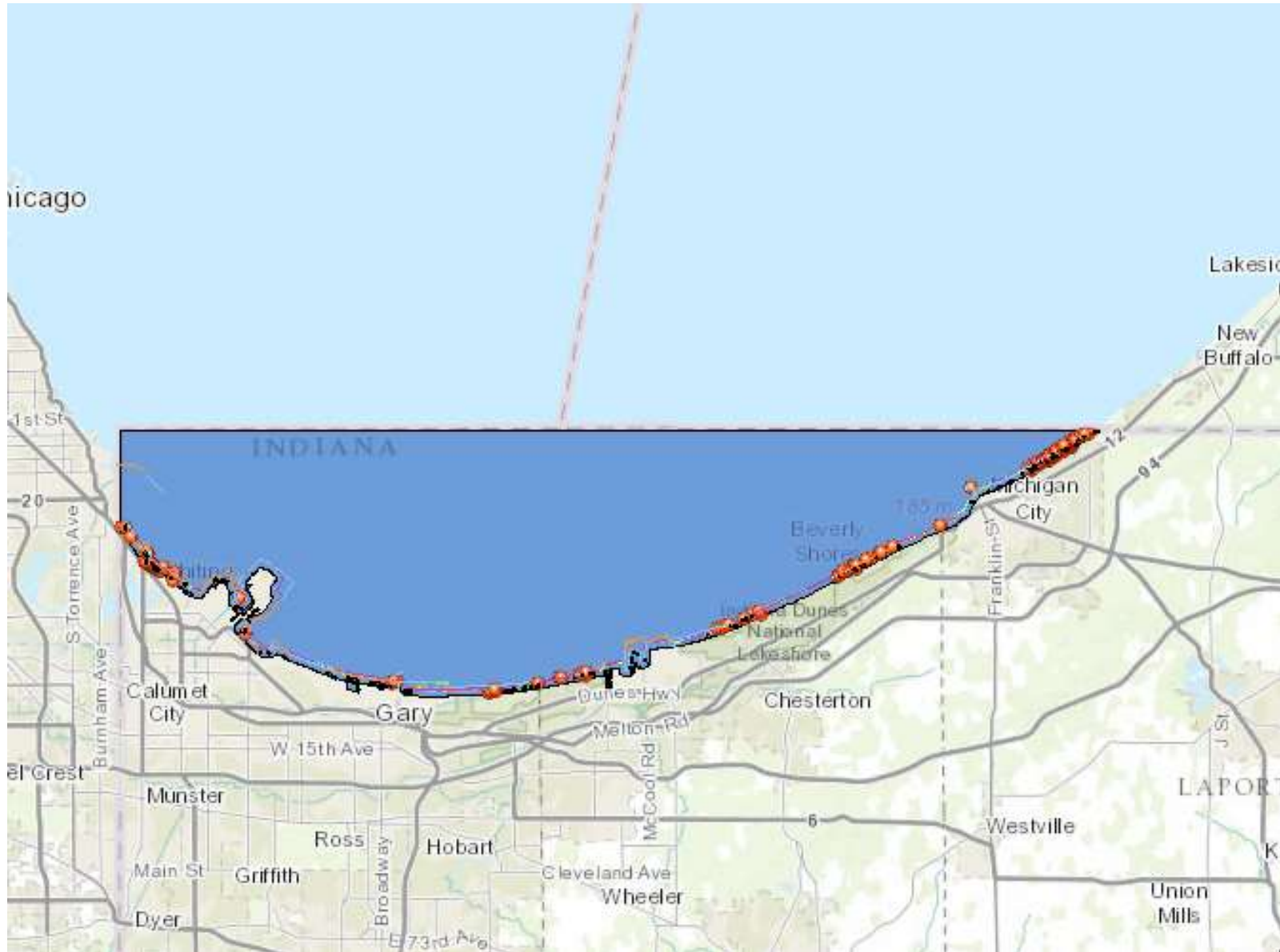


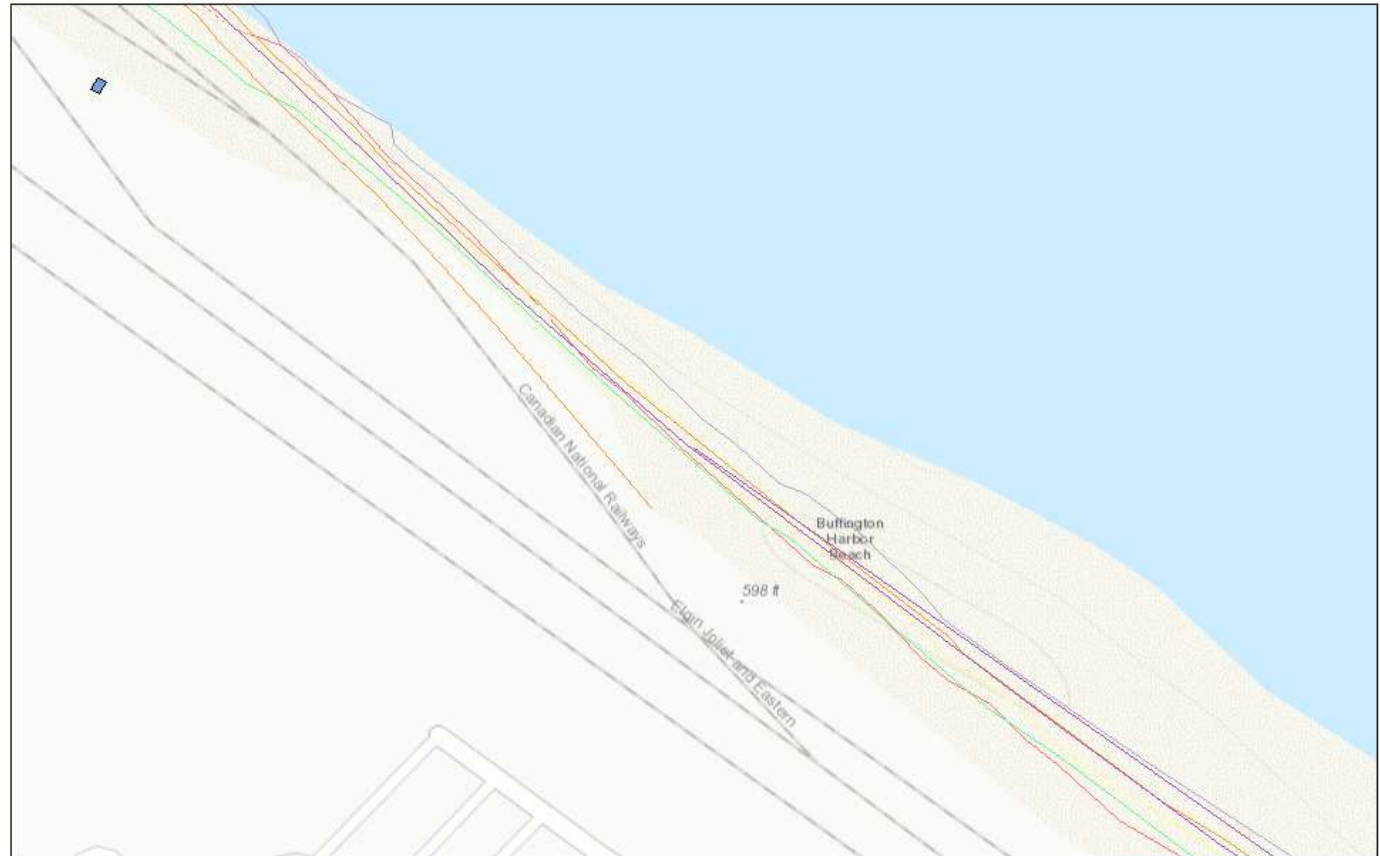
Indiana Coastal Change Monitoring

- Mike Molnar, Indiana DNR Lake Michigan Coastal Program
- What is the primary goal of any coastal change monitoring you are doing?
 - Shoreline change analysis used to provide technical assistance to permittees / local communities
 - Helping local communities overcome “Short-term” memory issues

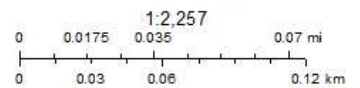
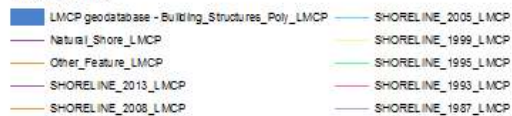


Shoreline GIS Dataset1

- Current (present to one year out) monitoring occurring in your state
 - State Sponsored = Limited
 - Federal = Several shoreline studies
- Briefly describe the techniques your state is employing to do this monitoring
 - Aerial Photos
 - Combined – In-house/Contract
 - DNR DOW & INDOT



May 3, 2017



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, Geobase, IGN, Kadaster NL, Ordnance Survey,

Mike Mohar
Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, EPA, USDA

- What monitoring would you like to see conducted in your state within the next 5 years?
 - Complete shoreline reach analysis with sediment budget
 - Transport modeling for shoreline reaches, identify impediments
 - Layer impacts of water level fluctuations / climate impacts onto budgets and models
 - Condition Assessment of coastal built environment – breakwaters, piers, jetties that could be modified / renovated to take current science into account and reduce impact to littoral transport
- What monitoring would you like to see coordinated through the LMMCC across the entire Lake Michigan basin?
 - Questions regarding Scale