Map Analysis, Topic 5 Calculating Visual Exposure

- 18 Line-of-Sight Buffers Add Intelligence to Maps
- 19 Identify and Use Visual Exposure to Create Viewshed Maps
- 20 Visual Exposure Is in the Eye of the Beholder
- 21 Use Exposure Maps and Fat Buttons to Assess Visual Impact

Further Reading

- Keywords for Online Search viewshed, line-of-sight connectivity, calculating viewsheds, visual connectivity, GIS visual analysis, GIS visual impact assessment, visual exposure modeling, weighted visual exposure.
- Extended Visual Exposure Techniques three references describing extended techniques involving weighted visual exposure for assessing overall aesthetics and visual vulnerability.

Exposure Surface Analysis for Assessing Relative Visual Vulnerability and Aesthetics (Basis Posting) — paper for GeoTech Conference, GeoWorld-Adams Business Media, Vancouver, BC, Canada, March 16-19, 2003. http://www.innovativegis.com/basis/present/GIS03_Visual/GIS03_Visual.htm

Use Maps to Assess Visual Vulnerability (GW Feb 2003) — *BM column discussing a procedure for identifying visually vulnerable areas.* http://www.geoplace.com/gw/2003/0302/0302bmp.asp

Try Vulnerability Maps to Visualize Aesthetics (GW Mar 2003) — *BM column describing a procedure for deriving an aesthetics map based on visual exposure to pretty and ugly places.* <u>http://www.geoplace.com/gw/2003/0303/0303bmp.asp</u>

Visual Exposure Application Examples — two references containing annotated examples using visual analysis in land planning and natural resource management contexts.

Determining Visual Exposure (Basis Posting) — A land planner needs to determine areas are that are highly visible from the road network for consideration in a new development plan for the county. (Uses MapCalc Learner Tutor25 dbase)

http://www.innovativegis.com/basis/Senarios/Visibility scenario.htm

Modeling Visual Exposure from Roads and Houses (Basis Posting) — A natural resource manager needs a map that identifies the relative visual exposure of forested lands in a county. This information is important in deciding where visually sensitive activities should and shouldn't be located. (Uses MapCalc Learner Tutor25 dbase)

http://www.innovativegis.com/basis/Senarios/VisModel scenario.htm