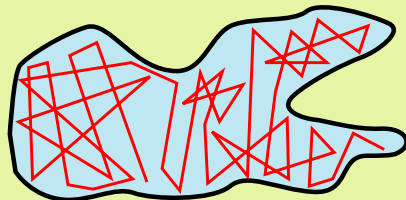
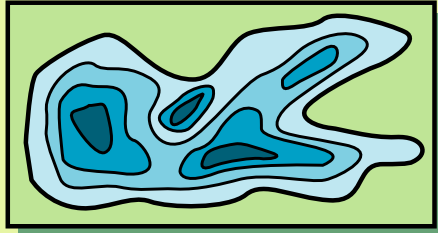


COMPARISON OF MAPPING STRATEGIES FOR GLACIAL AND FLUVIAL LAKES

GLACIAL LAKES



**SURVEY TRANSECTS NAVIGATED
TO CRISS-CROSS GLACIAL
DEPRESSIONS**

**GLACIAL LAKES ARE WELL SUITED FOR A
GIS RENDERING OF LAKE STRUCTURE**

**GENERATE DEM BASED ON
XY-Z DATA POINTS**

SET INTERPOLATION PARAMETERS

INTERPOLATION OF CONTOUR LINES

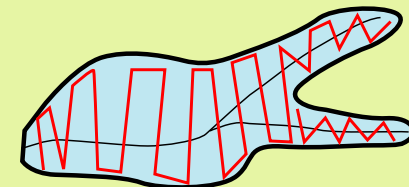
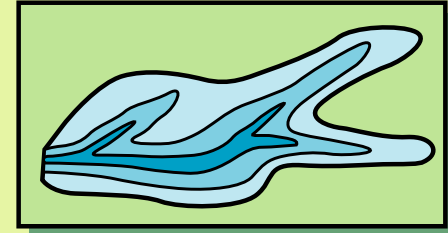
CHECK FOR INTERPOLATION ERROR

**KNOWLEDGE
OF LAKE
STRUCTURES**

**LAKE
SURVEY**

**LOCATING
DEPTH
CONTOURS**

FLUVIAL LAKES



**SURVEY TRANSECTS NAVIGATED
PERPENDICULAR TO
SUBMERGED RIVER CHANNEL**

**SIGNIFICANT METHOD PRODUCED ERRORS
OCCUR WITH GIS INTERPOLATION THAT
OFTEN GENERATES GLACIAL-LIKE
DEPRESSION CONTOURS.
DESPITE ALL THE AVAILABLE
TECHNOLOGY, MANUAL INTERPOLATION,
BASED ON A PLOT OF COLOR CODED
DEPTH POINTS AND AN EXTENSIVE
KNOWLEDGE OF FLUVIAL STRUCTURES,
STILL YIELDS THE BEST RESULTS.**