

---

Subject: identify & compare to a polygonal area?  
Posted by [Josh](#) on Fri, 29 Jun 2007 17:09:06 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Morning all,

I'm plotting a map of elevation data (by lat/lon coords) over a lake and the surrounding land. I would like to identify only those points which are over the lake and make use of them. I do not need a level of detail that defines the precise shoreline; I was thinking I could identify a polygonal area within the lake (it would be concave... problem?) and then have a comparison: if the lat and lon are contained within the polygon, do something with that data point.

The other important detail is the spacing of these points... there are on the order of 30,000 x 3,000 points in the rectangular map grid containing this lake. The lake probably fills only 1/8 of the grid, but it's diagonal orientation causes it to extend to all sides of that 30,000 x 3,000 point window.

As always, all thoughts are appreciated!  
-Josh

---