

InfoVeg - Bug #5159

auto filter for sensitive species

08/21/2010 02:36 PM - Michael Lee

Status:	New	Start date:	08/21/2010
Priority:	Normal	Due date:	
Assignee:	Michael Lee	% Done:	0%
Category:	DataPrep	Estimated time:	0.00 hour
Target version:	Unspecified	Spent time:	0.00 hour
Bugzilla-Id:	5159		
Description			
<p>Today (Sept 3, 2009), Alan and I [Michael] had a productive conversation about how and for which species we should fuzz plot locations. I described our current approach, which rounds plot locations to the nearest 0.01 degree for Lat and Long to approximate a 1km fuzzing, 0.1 degree for 10km fuzzing and 1 degree for 100km fuzzing. Alan asked a great question as to what radius this resulted in. It yields the centroid of a 0.01, 0.1, or 1 degree box, which amounts to a DIAMETER of a little less than the 1km, 10km, and 100km.</p> <p>I ran a quick algorithm for all plots in our database and found that if we say we are fuzzing 100 km (1 degree), the average distance from those points to our plots is 34.7km. If we are trying for 10km (0.1 deg), we get 3.7km. If we try to 1km (0.01 deg), we get 380m. We would expect a smaller number than what we are aiming for, but clearly these are a bit low.</p> <p>So we probably should either round to the nearest 0.02, 0.2, and 2 degree boxes, or actually write an algorithm that will pick a point at random within the specified radius. I don't think that should be too hard.</p> <p>Next, and the key item, Alan said that he didn't think all rare species should be fuzzed. There are plenty that have no economical value, are not of interest to poachers, and are difficult to get to in any case. He said that the key ones to block are Panax, some orchids, some lillies, carnivorous species except Utricularia. I'm probably missing some. Also we need to fuzz locations for all bogs plots given the possible existence of bog turtles there, though those don't turn up in our data. I have fuzzed all of Brenda's bog plots in project 73 already in the community summary pages. Alan said he could come up with a list of species for us without taking too much effort, as well as an appropriate fuzzing. He expressed a desire to fuzz more than 10km but less than 100km, which we might want to consider, as well.</p>			

History

#1 - 08/21/2010 02:36 PM - Michael Lee

Bob said on email (June 30, 2010):

Perhaps we could get Alan to sit down with the new Heritage 2010 plant list and simply tick the ones we need to worry about. Other than what is on that list, I think we need only worry about selected showy orchids and lilies.

#2 - 03/27/2013 02:29 PM - Redmine Admin

Original Bugzilla ID was 5159