Tool profile: GeoCAT - geospatial conservation assessment tools

Author/Creator	Justin Moat; Steven Bachman
Programming language	Javascript, HTML5
URL to access app/tool	http://geocat.kew.org/
Access rights (Open/license etc.)	Code is open source: https://github.com/Vizzuality/GeoCAT
Brief summary: What is it and what is it trying to do?	A web application with map interface and options to generate metrics such as EOO and AOO, based on point data. User can import their own lat, long data (CSV), manually add points to the map or query several online resourced e.g. GBIF, iNaturailist and Flickr. Calculations include: - Extent of occurrence - Area of Occupancy Other options include layers overlay to online sources e.g. protected planet (not currently working) or via XYZ, Carto DB map, KML, Web mapping service
Associated research publication(s) / examples of where it has been used	Bachman S, Moat J, Hill AW, de la Torre J, Scott B. "Supporting Red List threat assessments with GeoCAT: geospatial conservation assessment tool." (2011). In: Smith V, Penev L (Eds) e-Infrastructures for data publishing in biodiversity science. ZooKeys 150: 117–126. doi: 10.3897/zookeys.150.2109 https://pensoft.net/J_FILES/1/articles/2109/2109-G-3-layout.pdf
Help/vignette file	**https://www.kew.org/science/collections-and-resources/data-and-digital/tools/geocat-help** **https://www.kew.org/science/collections-and-resources/data-and-digital/tools/geocat-faqs** **https://www.kew.org/science/collections-and-resources/data-and-digital/tools/geocat-links**
Support network? Who can we ask for help	j.moat@kew.org; s.bachman@kew.org
Relevant Red List Parameters	**Criterion B:** AOO (in km2) – user defined grid cell size EOO (in km2) - based on minimum convex polygon (MCP)
Input data formats	a set of x,y points. Points are projected by the application. User can also query occurrence data from online sources e.g. GBIF

	using a binomial search. Only georeferenced points will be returned.
Can it do batch processing?	No
Is internet access needed or can it be used offline?	Online only - see rCAT for same algorithms that can be run offline.
Technical knowledge required?	No
Computing requirements (e.g. will it run on low spec laptop in the field)	Standard
Stability - long term support - maintenance?	Maintainer with institutional support. Code is open source, but reliance on maintenance from Vizzuality.
Notes	May not run well on some old browsers. GeoCAT is also problematic with http and https, is its only http, most browsers will throw a warning of “not secure” – some institutions may block.