

Infrastructure - Bug #8052

Geohashed value is incorrect

2017-03-27 20:43 - Bryce Mecum

Status:	New	Start date:	2017-03-27
Priority:	Normal	Due date:	
Assignee:	Peter Slaughter	% Done:	0%
Category:	d1_indexer	Estimated time:	0.00 hour
Target version:	CCI-2.4.0	Story Points:	
Milestone:	None		
Product Version:			
Description			
Adam Shepherd at BCO-DMO uploaded a test DCX doc here:			
https://search-sandbox.test.dataone.org/#view/http://lod.bco-dmo.org/id/dataset-file/682007			
which has bounding coordinates of:			
North			
50.4907 degrees			
South			
20.4907 degrees			
East			
-120 degrees			
West			
120.826 degrees			
and when we looked at the geohash values stored in the index for the record they appear to be incorrect. The bounding coordinates this DCX record is using are a bit weird but I'm not sure they're invalid. Google's JavaScript maps API calculates the centroid as 35.4907000000000004,-179.587000000000002 which, according to this tool, http://www.movable-type.co.uk/scripts/geohash.html , should have a geohash of 8n23ckusk but has a geohash of sn23ckusr instead, which is nearly 180 degrees longitude away from the expected location.			

History

#1 - 2017-03-28 16:00 - Dave Vieglais

- Milestone set to None
- Project changed from CN Index to Infrastructure
- Category set to d1_log_aggregation
- Assignee set to Jing Tao
- Priority changed from Normal to High
- Target version set to CCI-2.3.3

#2 - 2017-03-28 17:10 - Dave Vieglais

- Category changed from d1_log_aggregation to d1_indexer

#3 - 2017-03-29 21:48 - Jing Tao

Hi Bryce:

Peter and I talked about the issue a little bit. First he thought it probably was created by a bug in the index processor code. Then we found the centroid calculated by Google's JavaScript maps API is not correct. It should be 35.4907, 0.413. If you use this centroid and the geohash tool which you pasted, you will find the solr give you a right answer.

#4 - 2017-03-29 22:56 - Jing Tao

- Assignee changed from Jing Tao to Peter Slaughter

#5 - 2017-03-30 01:00 - Jing Tao

- Priority changed from High to Normal

Downgrade the priority since it is a rare case.

#6 - 2017-04-07 22:06 - Jing Tao

- Target version changed from CCI-2.3.3 to CCI-2.4.0