

## Morpho - Bug #1458

### Out of Memory problems

04/07/2004 03:53 PM - Dan Higgins

<b>Status:</b>	Resolved	<b>Start date:</b>	04/07/2004
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Dan Higgins	<b>% Done:</b>	0%
<b>Category:</b>	morpho - general	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	1.5	<b>Spent time:</b>	0.00 hour
<b>Bugzilla-Id:</b>	1458		

#### Description

When checking Morpho memory useage, I discovered that lots of memory seems to 'disappear' and is never recovered when one attempts to use the Documentation/Geographic Coveage... menu on a document that has multiple GeographicCoverage subtrees. (e.g. knb-lter-gce.180.2 which has 10 geographicCoverage elements). This can cause java out-of-memory exceptions.

Reason for this problem is still unclear.

#### History

##### #1 - 04/08/2004 10:10 AM - Dan Higgins

I discovered the problem here was the LiveMapPanel class and the large world map image being use to display graphical coverage bounding boxes. Each instance of LiveMapPanel had several copies of the large image and each GeogreaphicCoverage element had one LiveMapPanel!

There was really no reason for each instance to have its own copy of the same image, so the class variable was made static to share the data. The map must then be readded to the panel when the panel is displayed. We should note that a Java Image can use a lot more memory than that of the compressed jpeg file upon which it is based.

Also, (at least on Windows) one has to be careful looking at memory useage. If one uses the Windows Task Manager, the JVM apparently never returns memory that it has gotten from the system until it is closed. If one monitors the free memory within the JVM, then that used by LiveMap is returned by garbage collection when the objects are no longer referenced.

##### #2 - 03/27/2013 02:17 PM - Redmine Admin

Original Bugzilla ID was 1458