List of Bugs and Desired Features for GLIMSview 1.0. Compiled and maintained by Deborah Lee Soltesz & Bruce Raup.   5/29/2008 9:04

Issue ID	Type	Description	Date Reported	Reported by	Platform	Severity	Status	Date Fixed	Fixed by	Notes on Fix	Related URL	Relation	Notes
1	Bug	Tool: IP Place point. A glacier ID shows up in the glacier config tab. CTRL-Z (undo) makes the input point go away on the image, but the ID doesn't go away from the glacier config tab.		Raup	Linux	Urgent	Closed	12/6/2004	dls	adding highlighting of selected points, lines, or glacier ids in list fixed this problem		1	
2	Bug	Help->About: version number is not current. Says 0.99 instead of 1.0		Raup	Linux	Urgent	Closed	4/14/2004	dls				
3	Bug	User's Guide: There is a link to the GLIMS website, but clicking on it only makes the User's Guide window go blank, and I get the message: "QTextBrowser: no mimesource for http://www.glims.org/" in the terminal window.		Raup	Linux		Closed	4/14/2004	dls	removed link to GLIMS website - the help window is not a true web browser			
4	Bug	Config:Image -- The image filename is not filled in.		Raup	Linux	Urgent	Closed	8/20/2005	dls	4/14/04 - There's still an issue with reading/writing data to the project file. This element has been renamed from filename to Image URL, which is what should be displayed in the dialog. 8/20/2005 - missing & caused data structure holding the data to "lose" it		83	
5	Wanted Feature	Glimsview is designed to be run from the installation directory only. If it is run from somewhere else, it doesn't know where to find the pixmaps for the buttons. Should use an environment variable such as GLIMSVIEW_HOME.		Raup	Linux		Open				http://www.glims.org/glimsview/bug_report/bug005.html		
6	Wanted Feature	Ability to export the ASTER (or whatever) image in GeoTIFF, PNG, and other formats.		G. Hamilton		Urgent	Open					21	
7	Wanted Feature	When saving a project, it would be good if the stretches that had been applied to the image were also saved.		Raup	Linux		Open					96	relation based on need for project XML refinement and additions
8	Wanted Feature	Should be able to use GCPs to adjust the geolocation of the image, or, ideally, orthorectify the image.		G. Hamilton			Open						
9	Wanted Feature	When the user tries to exit the program without first saving work, the dialog should be something like "Save before quitting?", and the buttons should say something like "yes", "no", "cancel", where "cancel" cancels the quit operation.		Raup			Closed	8/4/2005	dls				
10	Wanted Feature	Generic shapefile import: currently, shapefiles must be in lat/lon coordinates. Need to be able to import shapefiles in projected coordinates.		Khalsa	Windows	Urgent	Open						
11	Interface improvement	Bulk delete of polylines, e.g. shift-click to select entire line, DEL key deletes.		Khalsa	Windows	Urgent	Open					1	
12	Interface improvement	Bulk nudge of points (select group of points, move them all together)		Khalsa	Windows	Urgent	Open					1	
13	Wanted Feature	Autosave/recover feature		Khalsa, F. Rau	Windows	Urgent	Open						
14	Wanted Feature	Layer manager (things like toggling all lines on and off, or just certain line types on and off)		Khalsa	Windows		Open						Multiple layers with photoshop/illustrator style box would be nice, wouldn't it?
15	Wanted Feature	Generic shapefile import without pre-loaded image (requires redesign of program, which currently bases geolocation on a single image)		Khalsa	Windows		Open						Doubt a redesign is in order… just a couple tweaks.
16	Wanted Feature	Add units to form for inputting glacier params (width, length, area, etc.)		Khalsa	Windows	Urgent	Closed	8/4/2005	dls				
17	Wanted Feature	Prompt before overwrite shapefiles (export)		Khalsa	Windows		Open						
18	Wanted Feature	More screens to supply all the metadata that is in the shapefiles it generates. Currently, it gives you the option to input only some of the parameters, but others, like whether the image was orthorectified (segments table) and what the RC_ID is (currently given arbitrary value?) would have to be supplied by editing the shapefiles.		Khalsa	Windows	Urgent	Closed	1/23/2006	dls	8/5/2005 - RC_ID and other Session stuff fixed - more fixes coming 1/23/2006 - several Image metadata fields added, fixed Image URL, and added validator button for Acquisition Date-Time		83	
19	Bug	Occasional crashes; cause unknown, crashes when working on large projects (also reported)		F. Rau	Windows	Urgent	Closed	7/14/2005	dls	refactored undo to not save a copy of the entire line set, reducing memory usage		78	Probably related to the undo facility creating a full snapshot, which uses a lot of memory for large projects (see also 78)
20	Wanted Feature	Ability to import older Landsat imagery (TM? MSS?)		F. Rau	Windows		Open					21	P. Geissler has expressed a need for this also (7/20/2005)
21	Wanted Feature	Ability to import imagery from ASTER L2		F. Rau	Windows		Open					21	
22	Wanted Feature	Ability to import imagery from SPOT		F. Rau	Windows		Open					21	
23	Wanted Feature	Ability to import imagery from ERS		F. Rau	Windows		Open					21	
24	Wanted Feature	Ability to import imagery from ERDAS Imagine, IDRISI, PCI. (Should currently be able to go through GeoTIFF, though. - B. Raup)		F. Rau	Windows		Open					21	
25	Wanted Feature	Should be able to view georeference system of input imagery (projection, datum)		F. Rau	Windows	Urgent	Open					21	
26	Interface improvement	No project information is available during an analysis session => project name in the program bar, readable session log (translation of the XML file as text or HTML for human readers?), etc. would be extremely helpful for the analyst.		F. Rau	Windows	Urgent	Closed	1/23/2006	dls			69	8/2005 - problems getting this to work in windows
27	Interface improvement	Save and export options open the same pop-up window without further indication what is to be saved or exported (include specific standard file extensions?). What is the difference between PROJECT => INCEST => IMPORT and IMPORT shapefile?		F. Rau	Windows	Urgent	Closed	8/4/2005	dls	8/4/2005 - Changed menu wording - need to add filters to all file boxes			
28	Interface improvement	More self-explaining menus or a context-sensitive help functions		F. Rau	Windows		Closed	8/4/2005	dls	updated a lot of the menus and icons to be a little more friendly		28	
29	Interface improvement	On-line help should include GLIMS-specific glossary		F. Rau	Windows		Open			1/23/2006 - added quite a bit to the User Guide; plan to add context-sensitive help in the near future		28	maybe link to data dictionary?

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30	Interface improvement	There are some items in the menus which are not explained (histogram best fit, etc.). (This should be improved in on-line help and the manual/tutorial. - B.Raup)	F. Rau	Windows		Open					28	would like to totally redesign the histogram functions
31	Interface improvement	The icons in the icon bar should be arranged in groups with spacers between (e.g. to avoid the selection of the glacier ID tool between the digitizing tools and the selection tool).	F. Rau	Windows		Closed	8/4/2005	dls	separated the tool buttons by function		31	need general improvement of icons (see work done by 2005 Capstone team)
32	Interface improvement	Imported shapefiles should be integrated as a grouped item with their arc-specific properties to facilitate a easy identification and a rapid removal of the item from the current session. (This is similar to Item 14, Layer Manager. - B.Raup)	F. Rau	Windows		Open					14	
33	Interface improvement	The selection tool does not provide specific modes for selecting and it is sometimes a little bit tricky to select the different items (points, arcs, glacier Ids). In particular, the individual selection of overlapping arcs is almost impossible. Therefore, it would be great to have a type-sensitive selection tool or at least, the possibility to choose between various tools for selecting the different items. In addition, it is rather difficult to select several items (by pressing the shift button) and to group them (this is required e.g. for the preparation of two connected or neighboring glaciers sharing a common boundary line).	F. Rau	Windows		Open					33	
34	Interface improvement	Determining Left/Right sides of a line needs to be automated, say, by clicking on the side of the line you mean, rather than remembering the direction of digitization.	F. Rau, F. Cawkwell, B. Raup	Windows	Urgent	Open						See series of e-mails on the subject (March 2005). Need some kind of visual feeback on line direction.
35	Interface improvement	Should be able to select a glacier and edit its ID, etc. by clicking on the dot associated with the glacier ID. That is, should be able to click on outline and have corresponding ID highlighted in glacier config tool. Conversely, should be able to click on glacier ID in config tool and see which outlines are associated with it. Once the user has done "Set Lines", there is currently no way to see confirmation of that association.	F. Rau, B. Raup	Windows	Urgent	Closed	12/6/2004	dls		http://www.glims.org/glimsview/bug_report/bug035.html	1	
36	Interface improvement	Should be able to delete a glacier ID by selecting its ID in the Glacier Config tab of the Configuration dialog. (You can delete a glacier ID by selecting the dot on the image, then pressing the DEL key. - B.Raup)	F. Rau	Windows		Open			Tried 12/6/2004 and did not succeed, but know how to fix		1	See code for notes - tried to fix, but need to create a custom listview object to catch the key strokes
37	Interface improvement	There seems to be no access to the characteristics of a digitized feature => it would aid the analysis process if the program provides a direct possibility to extract the information (e.g. via a context sensitive info window, a status bar, or by highlighting the respective feature type in the configuration menu).	F. Rau	Windows		Open						
38	Interface improvement	A tool for measuring length and width of the glacier could facilitate a direct determination of these parameters within an analysis session.	F. Rau	Windows		Open					38	
39	Bug	Population of mandatory fields for submission to NSIDC needs to be enforced by GLIMSview. See related URL for list.	Raup	Linux	Urgent	Open			1/23/2006 - current work on "consistency" is working towards this goal	http://www.glims.org/MapsAndDocs/datatransfer/data_transfer_specification.html	96	Combination of GLIMSView enforcement and completed & correct Schema or DTD; 8/4/2005 - An additional cross-reference list has been compiled based on the data dictionary, the Schema updated - need to go through GV to check for inconsistencies and make sure data entry fields are the appropriate size
40	Bug	Image Info Tab: ?Acquisition? is misspelled.	Raup	Linux		Closed	4/14/2004	dls				
41	Bug	Tools->Plugins: ?Threshold? is misspelled.	Raup	Linux		Closed	4/16/2004	dls				
42	Bug	GLIMSview doesn't read geolocation information from GeoTIFF.	Raup	Linux	Urgent	Open						
43	Bug	Null values need to be handled consistently for exporting.	Raup	Linux	Urgent	Open			1/23/2006 Need to find out what Bruce means by this		96	is this a related issue to storage of WGMS values? Which NULL values are inconsistent? My vote is -1 means undefined
44	Wanted Feature	DEM: Ability to do 3-dimensional analysis, using imagery and a DEM.	A. Racoviteanu			Open					95	P. Geissler has reasserted this need, along with anaglyph/stereo viewing (95)
45	Wanted Feature	Should be able to read attribute data in from a .dbf file	F. Cawkwell	Windows	Urgent	Open			2007-06-21 fixed GLIMS shapefile import, but not regular shapefile import…		45	
46	Wanted Feature	Should be able to read attribute data in from a .xls file (or .sxc file (openoffice spreadsheet format) -B.Raup)	F. Cawkwell	Windows		Open					45	
47	Wanted Feature	Ability to include area of internal rocks in glacier basin in config.	F. Cawkwell	Windows		Open						
48	Wanted Feature	Allow line endpoints to be joined to line midpoints and snap overlapping lines to each other.	F. Cawkwell	Windows		Open						Joining to midpoints? Is that valid?
49	Wanted Feature	Read shapefiles of points and lines, not just polygons	F. Cawkwell	Windows		Closed	5/29/2008	dls	2008-05-29 added points import, made both segments and points bring in attributes from DBF file and match to GLIMS project data			
50	Wanted Feature	Read in metadata from other formats	F. Cawkwell	Windows		Open					45	
51	Bug	In Configuration dialog, the line color selection is not always saved.	F. Cawkwell	Windows	Urgent	Open		dls	4/14/04 - haven't been able to repeat problem yet		83	
52	Wanted Feature	Change color of glacier ID dot when ID is selected in Config	F. Cawkwell	Windows		Closed	12/6/2004	dls			1	
53		Be able to generate an ID for each polygon automatically, and enter automatically into Config.	F. Cawkwell	Windows	Test		12/6/2004	dls	Not fixed, but I believe selecting a glacier ID from the config dialog makes that the default ID for new lines			
54	Bug	Be consistent in defining longitude as +-180 or 0-360	F. Cawkwell	Windows	Urgent	Open?						going with +/-180 (did this get fixed or not?)
55	Wanted Feature	Ability to change the order of glacier IDs in the Config list	F. Cawkwell	Windows		Open					1	fix will be related to making the delete key work in the lists (see Bug 36)
56	Wanted Feature	Ability to change the order of line types in Config list.	F. Cawkwell	Windows		Open					1	fix will be related to making the delete key work in the lists (see Bug 36)
57	Wanted Feature	Be able to delete line types from Config list.	F. Cawkwell	Windows		Open					1	fix will be related to making the delete key work in the lists (see Bug 36)

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58	Wanted Feature	Change cursor for different functions (particularly magnifiers)		F. Cawkwell	Windows		Open				31 general usability issue
59	Wanted Feature	Dashed and dotted lines are unable to resolve complex lines so more colours would be helpful		F. Cawkwell	Windows		Open				Qt color picker oughta make this easy
60	Wanted Feature	Redo facility		F. Cawkwell	Windows		Closed	7/23/2005	dls	Redo of undo implemented similar to undo. Need to do a little clean-up (abstract upper classes, GID data handled the same as line data, etc.	
61	Bug	In line definition dialog, ?vegetation? is misspelled.		F. Cawkwell	Windows		Closed	5/24/2004	dls		
62	Plug-in	Drainage basin identification plug-in		F. Cawkwell	Windows		Open				
63	Bug	Analyst name is not reread into Config/Session tab when reading a previously saved project. Only the "Process Desc" field is reread correctly. Same for image acquisition date in the Image/Info tab.		F. Rau, B. Raup		Urgent	Closed	8/4/2005	dls	All the fields should work correctly now - crashing caused by the "fixes" should also be resolved (8/20/2005)	83
64	Bug	When displaying a GeoTIFF image, geodetic coordinates are not (always) displayed correctly.		F. Rau, B. Raup	Windows, Linux	Urgent	Open				
65	Bug	Southern hemisphere glacier IDs are usually (but not always) incorrectly generated with "N" rather than "S"		F. Rau	Windows	Urgent	Closed	5/7/2004	dls	5/7/04: changed GlacierIDDef::toString to use temp variables for lat/lon so mlat/mlon aren't modified in the process of generating a glacier ID string. 5/5/04: Problem was in GLIMSProject::exportGLIMSIngest - called GlacierIDDef::toString(), which converts lat/lon to positive value with N, S identifier... changed order so lat/lon are written to shape file before toString is called	
66	Wanted Feature	Ability to edit image metadata in Config tool		F. Rau	Windows	Urgent	Closed	1/23/2006	dls	8/20/2005 - fixed issues with Image information config, so should be easy to finish the job. 1/23/2006 - Image config and Session mostly complete, but need to check for absolute correctness with data dictionary	83
67	Wanted Feature	Need general comment field for notes about the glacier		F. Rau	Windows		Open				67
68	Bug	Crash happens when trying to change viewed band combinations midstream through digitization work.	2/10/2004	T. Khromova	Windows		Open				
69	Wanted Feature	Project title or identifier should be in GLIMSview window title bar, so that someone can easily use multiple sessions at the same time.	2/11/2004	T. Khromova	Windows	Obnoxious	Closed	1/23/2006	dls	added to status bar	69 Add project title to XML. If not defined, use project file name.
70	Wanted Feature	Indicate which metadata are optional, which are mandatory	2/19/2004	Khalsa		Urgent	Open				83
71	Wanted Feature	Compute length (given a center line), width (also use from a certain segment, use snow line?), and area automatically.	2/19/2004	Khalsa			Open				38
72	Wanted Feature	DEM: With an input DEM, offer orthorectification	2/19/2004	Khalsa			Open				95
73	Wanted Feature	STEREO: With ASTER data, offer stereo viewing while drawing lines (using colored glasses)	2/19/2004	Khalsa			Open				95 Overlapping footprints or DEM?
74	Wanted Feature	Add comments field to segments, or at least to Glacier_Dynamic	2/19/2004	Khalsa			Open				67
75	Wanted Feature	(related to #11) Be able to select additional lines with shift-click	4/8/2004	Khalsa		Urgent	Open				11
76	Wanted Feature	(similar to #32) Importing shapefiles should allow carry-over of attributes defining line types.	4/8/2004	Khalsa			Closed	5/29/2008	dls	2008-05-29 Updated segments shapefile import and added points shapefile import, both look for GLIMS attributes in the DBF file	32
77	Wanted Feature	(similar to #33) Enhanced selection tool ? polygon bounding region rather than just rubber band box	4/8/2004	Khalsa			Open				33 Will need this for data->text export (92)
78	Wanted Feature	GLIMSview is slow with many vertices. Either speed up, or give warning about too many vertices.	4/8/2004	Khalsa			Closed	7/14/2005	dls	refactored undo to not save a copy of the entire line set, reducing memory usage	19 Probably related to the undo facility creating a full snapshot, which uses a lot of memory for large projects (19)
79	Wanted Feature	If there are lines or polygons that are not associated with a glacier ID, GLIMSview should give a warning before exporting for ingest (and even before saving).	4/8/2004	Raup		Urgent	Open				1
80	Bug	Sometime, the ID dots disappear from the view, even tho' the IDs are still in the config tool list.	4/8/2004	F. Bown	Windows	Urgent	Closed	12/6/2004	dls		
81	Bug	The glacier ID is not correctly created from the coordinates. It truncates rather than rounding. More importantly, if the coordinate is something like "43.0532", the corresponding part of the ID becomes "43532"; the algorithm to generate the ID doesn't take into account a zero right after the decimal point. (The XML file stores only the coordinates for each glacier, and doesn't explicitly store the ID.) This is related to #65.	4/14/2004	B.Raup		Urgent	Closed	4/16/2004	dls		
82	Wanted Feature	be able to specify a default value for all points (preferably of a given line type), rather than having to enter them individually for each segment.	4/15/2004	Khalsa		Urgent	Open				
83	Bug	General issues with saving/reading project information to/from project file, starting with "Image Info" configuration dialog - suspect bigger problem.	4/16/2004	D.Soltesz		Urgent	Open				83
84	Bug	WGMS classifications in Edit Glacier ID dialog are shifted by 1, causing wrong descriptions to be associated with the Glacier ID.	5/5/2004	B.Raup, F. Rau		Urgent	Closed (Mostly - see notes)	5/24/2004	dls	Fixed handling of values for the classifications to output WGMS standard values to the project file. Old projects will be automatically "fixed" and tagged with a version date. Schema (draft at this point) has been created. Version Date is pulled from AboutDlg.	96 Qt does not handle Schema - it does support DTD and insists on having a DOCTYPE in the file... one option is to suffer with it and use Schema, the other is to convert the Schema to DTD 69 has another XML related issue
85	Typo	Confluent in WGMS classification	5/20/2004	J. Kargel		Annoying	Closed	5/24/2004	dls		
86	Typo	Primary Classification "prim_class" missing underscore when exported to shapefile	5/2/2004	B.Raup, F. Rau		Annoying	Closed	5/24/2004	dls	Fixed output label on export, and check input labels on import for both "primclass" and "prim_class" for backwards compatibility	

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87	Typo	Output GlacType (again) instead of Name in LineData/LineDefSet/LineDefinition	5/18/2004	D.Soltesz	Annoying	Closed	5/24/2004	dls	No backwards fixes implemented	
88	Wanted Feature	Secondary classifications?	5/21/2002	B.Molnia		Open				Needs to be addressed by GLIMS standards folks
89	Bug	lineconfig-data set: the global uncertainties values for Y (sometimes also for X) are always set to zero after importing. in the exported file the values are still proper.	8/3/2004	D. Riemann (F. Rau)		Open				
90	Bug	Certain EDC Aster products appear as "blank" image	10/8/2004	E. Lee	Urgent	Closed	10/19/2004	dls	DN range not set correctly when reading in 16-bit HDF file, resulting in bad autostretch of the data	
91	Bug	Switch window display from normal to cascade and back causes crash	10/21/2004	E. Lee	Annoying	Open				
92	Wanted Feature	Export selected DN's to text file for use in spreadsheet	11/1/2004	E. Lee, J. Kargel	Annoying	Open				need selection lasso metioned in 77
93	Wanted Feature	When reading NLAPS format, it would be nice it GLIMSview didn't care which file in a set of NLAPS file for a particular image you picked -- it should just know that if you pick a .l? file, you meant the set of files associated with that one.	11/16/2004	B. Raup	Very Annoying	Open				Barring a fix, it would at least be good to document that fact that you need to select the .H1 file.
94	Bug	Update glacier id list highlighting after doing a Set Line	12/6/2004	D. Soltesz	Urgent	Open			1	Hope to fix with other listview issues mentioned in other bug/wish list items
95	Wanted Feature	STEREO: Anaglyph viewing; Load same band into multiple channels; Load Aster 3B with other bands; allow view rotation to take advantage of Aster stereo pairs	7/20/2005	P. Geissler, D. Soltesz	Suggestion	Open			95	Similar requests already on list
96	Wanted Feature	Need Schema against which a project file can be validated (by GV)	5/27/2004	D. Soltesz		Open			96	Work started. Qt 2.3 doesn't handle Schema. Waiting for next version of Qt. May consider switching XML i/o over to use SAX libraries instead of Qt XML module
97	Wanted Feature	Make GV project independent instead of glacier specific; Build dialogs from XML "project description" file that sets fields, types, values, ranges, etc. from project's data dictionary;	11/1/2004	D. Soltesz, K. Mullins (Mars Dune DB project)	Need by 2007 at the earliest	Open				2005 CS Capstone Project worked on this issue, creating dialog boxes on the fly (a la Isis 3) from XML.
98	Bug	Proid_desc truncated to 200 characters	7/14/2005	F. Rau	Urgent	Closed	8/4/2005	dls	3D description also fixed to save as many characters as is in the description field	Truncated in XML or shapefile? See e-mail from 7/14
99	Wanted Feature	In the whole view window make it so that whenever you click on the image, with any tool, it moves the red box to that area. Since no other tools can be used in the whole view this would make for less tool switching between the differnt views.	7/15/2005	D. Gaseau		Open			99	
100	Wanted Feature	Red box... in any of the views, when the hand tool is selected, make it so that instead of moving the entire image (if the hand tool is clicked outside of the redbox). Make it so the redbox jumps to the place where the user clicked.	7/15/2005	D. Gaseau		Open			99	Refer to Envi for an example of this functionality
101	Wanted Feature	I am having a hard time selecting points at 2000 zoom to modify them. The selection tool only moves along the pixels and some of my points are not on a pixel boundry, making it hard to select the point that I want.	7/15/2005	D. Gaseau		Open			33	
102	Bug	Undo doesn't deal with updating the GIDDefSet and thus the list of GIDs doesn't get properly updated on an undo/redo	8/4/2005	D.Soltesz	Urgent	Closed	8/5/2005	dls		
103	Bug	Export causes crash	8/5/2005	F. Rau, I. Brown	Show Stopper	Closed	8/20/2005	dls	Prior changes to description fields caused issues	
104	Bug	Export causes crash	11/1/2005		Show Stopper	Closed	12/1/2005	dls	Same bug as 104 - update to latest version fixed problem	
105	Bug	RCID limited to two digits	11/29/2005	B. Raup	Annoying	Closed	1/6/2006	dls	Bad programmer missed reading the full RC ID spec. RC ID increased to 3 digits to cover all possible RC IDs.	
106	Wanted Feature	GLIMSView nodes less sensitive to being moved when splitting the line segments	11/16/2005	B. Raup, F. Cawkwell	Annoying	Open				
107	Bug	Importing session info from GLIMS ingest shapefile tries too fill info into analyst name and time fields	11/16/2005	B. Raup, F. Cawkwell	Urgent	Closed	1/23/2006	dls		1/6/2006 - Having issues importing GLIMS shapefiles exported from glimsview (Windows)
108	Wanted Feature	Remove imported shapefiles without touching other work	11/16/2005	B. Raup, F. Cawkwell	Annoying	Open			14	
109	Bug	Configure plug-in crash?	1/3/2006	E. Liszewski	Annoying	Open				
110	Wanted Feature	User profile (automatically loads profile into session)	11/23/2005	B. Raup, Matt		Open				Would help drastically with keeping session information consistent