

# GMAT 2013a Release Process

This page is used to track the process and progress of the R2013a release.

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**Target Date: April 16, 2013**

## Tasks

**All dates are referenced to 12:00 noon EDT.**

For example, a deadline of March 15 should be interpreted as March 15, 12:00 noon EDT.

## Early Tasks

These are long-lead early tasks that can be completed before the detailed release cycle.

Use "( / )" for the checkmark (✓).

Task	Who	Status	Notes
Get updated legal statement/license	SPH	✓	Needed by Code Freeze.
Update sample scripts	SPH	✓	Needed by App Freeze. <ul style="list-style-type: none"><li>• Write examples that demonstrate new functionality</li><li>• Clean up all errors and warnings</li><li>• Remove deprecated fields</li></ul>
Write draft Release Notes	JJKP	✓	Needed by App Freeze. See <a href="#">Writing Release Notes</a>
Update standard descriptive text	SPH	✓	Needed by App Freeze. Will be used in User Guide, websites, release announcement. Commet from SPH: See Welcome to GMAT in user guide
Update info on public-facing websites	JJKP	✓	Needed by Release Day. See the <a href="#">list of sites</a> . Update this list as well, if necessary. <i>Updated major sites before announcement. Minor ones can be updated a bit later.</i>

<b>Update release announcement contacts</b>	SPH	✓	Needed by Release Day. Located <a href="#">here</a> .
<b>Put in order for additional icons</b>	SPH	✓	(if necessary) Needed by Visual Freeze.

## For QA Complete (March 20)

QA complete means that all known bugs are being tracked, all bug fixes are verified and documented, and the release process can begin.

Use "( / )" for the checkmark (✓).

Task	Who	Status	Notes
<b>Verify that all known bugs are checked into JIRA</b>	(All)	✓	
<b>Complete all JIRA verifications</b>	(All)	✓	
<b>Complete QA wrap-up tasks</b>	DSC, SPH, JJKP, RQ	✓	<ul style="list-style-type: none"> <li>GUI rename/delete</li> </ul>
<b>Address all JIRA tickets awaiting feedback</b>	(All)	✓	

## For Visual Freeze (Mar 27)

Visual Freeze finalizes all graphical changes to the software, so that screenshots, documentation, and TestComplete can be updated.

Use "( / )" for the checkmark (✓).

Task	Who	Status	Notes
<b>Update links in GMAT.ini</b>	JJKP	✓	<ul style="list-style-type: none"> <li>Help links</li> <li>Welcome page links</li> </ul> <p><i>Is this really a viz freeze issue?</i></p>
<b>Update link tests in TestComplete</b>	SJH	✓	<ul style="list-style-type: none"> <li>Help buttons</li> <li>Welcome Page links</li> <li>Help menu links</li> </ul> <p><i>This was delayed because of some last-minute behavior changes, but nothing here was required for Visual Freeze this time.</i></p>
<b>Update About panel</b>	LOJ	✓	<i>Not needed for R2013a</i>
<b>Update splash screen</b>	TGG	✓	<ol style="list-style-type: none"> <li>Update SplashScreen.psd in GmatDevelopment\moredata\graphics\splash</li> <li>Use GIMP to save a flattened TIF file and overwrite splash screen in GmatDevelopment\application\data\graphics\splash.</li> </ol> <p><i>This was delayed until (TBD) to allow the team to vote on the final design at the 3/28 team meeting.</i></p>
<b>Update icons</b>	SPH	✓	If there are any updates, additions, deletions.
<b>Update gmat_startup_file.txt</b>	JJKP	✓	<ul style="list-style-type: none"> <li>Update formatting, comments</li> <li>Switch to release configuration</li> </ul>
<b>Switch to release configuration in script test system</b>	JJKP	✓	Use new rundef.R2013aInternal.template.m.  <i>Ran public configuration manually on JJKP's machine on 2013-03-27 build. Decided to run manually on RCs only. For next time, need to figure out a way to assemble public release without manual intervention.</i>
<b>Complete visual updates</b>	(All)	✓	<i>Fixed all visual issues known before Visual Freeze.</i>

## For Code Freeze (April 5) (was April 3)

Code Freeze is a freeze on the software itself before final testing.

Use "( / )" for the checkmark (✓).

Task	Who	Status	Notes
Update EOP files	WCS	✓	Update eopc04_08.62-now and run smoke tests.
Update files w/ updated legal statement	LOJ	✓	
Update license text	LOJ	✓	Update application/License.txt file.
Final bug fixes	(All)	✓	

For next release: Consider branching the repo here, instead of after release. We need to allow people to continue working on unrelated items while release work is ongoing.

## For App Freeze (April 5) (was April 3)

App Freeze is a freeze on all application bundle files beyond data and code. This includes documentation, sample scripts, stuff in the `extras` folder, etc.

Use "(/)" for the checkmark (✓).

Task	Who	Status	Notes
Update <code>README.txt</code>	JJKP	✓	Update with major release highlights.
Update extras folder	JJKP	✓	Notepad++ syntax coloring file
Update PDF files in docs folder	SPH/DJC	✓	<ul style="list-style-type: none"> <li>Done (DJC) GMAT-Architectural-Specification.pdf</li> <li>Done (DJC) GMATEstimationSpecification.pdf</li> <li>Done (SPH) GMATMathSpec.pdf</li> <li>Update watermark: "Draft for Release R2013a"</li> <li>Put into application/docs folder, and individual doc source folders</li> </ul>
Gather list of compatibility changes since last release	(Feature leads)	✓	<ul style="list-style-type: none"> <li>Deprecated fields</li> <li>Removed &amp; disabled fields</li> <li>Anything a user would need to know to make R2012a scripts compatible with this release.</li> </ul> <p><i>For this release, put a generic blanket statement regarding the change from beta status to production status and point to wiki page.</i></p>
Update Release Notes	JJKP	✓	
Update screenshots in User Guide	(Feature leads)	✓	
Test User Guide instructions & code	(Feature leads)	✓	<ul style="list-style-type: none"> <li>Tutorials</li> <li>Common Tasks</li> <li>script snippets</li> <li>reference page examples</li> </ul>
Update Windows installer package	JJKP	✓	

## Testing of Release Candidate 1 (April 5–12)

This will start with the 2013-04-05 daily build. **Repeat this phase until tests check out.** Steve will make the call.

Use "(/)" for the checkmark (✓).

Task	Who	Status	Notes
Update <code>README.txt</code>	JJKP	✓	(For RC2+) Update with any late-breaking notes.
Build Windows installer	JJKP	✓	Version string: R2013a-rc#
Bundle Windows zip	JJKP	✓	Version string: R2013a-rc#

Run TestComplete smoke tests	TGG	✓	These are tests on the packaged versions of GMAT: the installer and the zip bundle.
Run TestComplete system test missions	JMB	✓	These are tests on the packaged versions of GMAT: the installer and the zip bundle.
Run script test system	JJKP	✓	Run the internal installer tests on T4 and the public installer tests on Joel's machine. Run .zip bundle tests afterwards on same build to compare.
Test all sample scripts	SPH	✓	At a minimum these need to be run individually by hand. I ran them by adding the folder, and they run so fast I missed some pretty big problems. Ideally, these should all be in script regression tests. Many but not all already are regression tested.
Run TestComplete full regression tests	TGG	✓	(For final RC only)

#### Notes

- While this cycle is ongoing is a good time to do wiki updates and cleanup.

## Stage Release (April 15)

This is a soft release, putting all the files in place and updating information. Then on release day, we only need to send the announcements.

Use "( / )" for the checkmark (✓).

Task	Who	Status	Notes
Bundle source code and upload to SourceForge	DJC	✓	<ol style="list-style-type: none"> <li>1. Export the trunk code from svn that is used for the release build when that build is started</li> <li>2. Wait for a go/nogo call from testing on the build</li> <li>3. Archive the following folder trees into a zip file: src, plugins, build</li> <li>4. Move the zip file to SF</li> <li>5. Mark as "staged"</li> <li>6. Download the upload and check it</li> </ol>
Bundle data and upload to SourceForge	DJC	✓	<ol style="list-style-type: none"> <li>1. Use the same export as used for the source bundle</li> <li>2. Wait for a go/nogo call from testing on the build</li> <li>3. Archive the following folder tree into a zip file: application/data</li> <li>4. Move the zip file to SF</li> <li>5. Mark as "staged"</li> <li>6. Download the upload and check it</li> </ol>
Upload Windows installer to SourceForge	JJKP	✓	Download, install, and run after uploading.
Upload Windows zip to SourceForge	JJKP	✓	Download and run after uploading.
Post README.txt on SourceForge	JJKP	✓	
Post internal & public release files to MESA network	JJKP	✓	
Branch and tag repositories	DJC	✓	At least tag the test system; consider branching also if the burden on the repo is low.
Make SourceForge repository backup	JJKP	✓	<p>Follow <a href="#">SourceForge's instructions</a>.</p> <p>Perform the backup on the Linode server and download the resultant .zip file, since the local network blocks rsync.</p>

## Release Day (April 16)

Use "( / )" for the checkmark (✓).

Task	Who	Status	Notes
Make files visible on SourceForge	SPH	✓	

Send out release announcement	SPH		<ul style="list-style-type: none"> <li>Mention GSFC in the announcement</li> <li>Don't include large attachments.</li> </ul>
Post release announcement on SourceForge	DJC		
Post release announcement on GMAT Blog	JJKP		

## Post-Release

Use "( / )" for the checkmark ().

Task	Who	Status	Notes
Party!	(All)		<ul style="list-style-type: none"> <li>Darrel is visiting sometime in April. Let's do something then.</li> </ul>
Print materials	JJKP		<ul style="list-style-type: none"> <li>Printed documentation (reference booklet, full User Guide)</li> <li>Release CDs</li> </ul>
Conduct postmortem review	SPH		This includes gathering feedback, holding the postmortem meeting, and documenting the results.
Submit NTR for next release	SPH		
Spring cleaning	?		General cleanup of infrastructure: <ul style="list-style-type: none"> <li>Wiki</li> <li>\\mesa-file\595\GMAT</li> <li>get rid of old SVN branches</li> <li>anything else?</li> </ul>

## Notes for postmortem

Please add your notes to the [Release R2013a Process Notes](#) document.

## Compatibility changes

This is a list of compatibility changes since R2012a that need to be captured in the release notes.

- Spacecraft.CurrA1MJD parameter is deprecated
- ImpulsiveBurn.V, ImpulsiveBurn.N, ImpulsiveBurn.B parameters are deprecated
- non-Earth planet NutationUpdateInterval field is removed
- restricted setting CoordinateSystem Epoch, Primary, Secondary, XAxis, YAxis, ZAxis fields
- restricted setting CoordinateSystem Origin field

See [Writing Release Notes](#)

## Running script test system

In the steps below, "#" is the RC number and "<config>" is "internal" or "public".

- Install the version being tested.
  - Check "Enable MATLAB interface".
  - Leave "Associate file types" unchecked.
- Update the test system repo.
- Run:
 

```
>> diary('..\log\R2013a-rc#-<config>.log')
```
- Run:
 

```
>> preparegmat('C:\Path\To\GMAT')
```
- Copy the appropriate template (autorundef.R2013aInternal.template.m or autorundef.R2013aPublic.template.m) to a new name and fill in the values:
  - RunDef.Build: "R2013a-rc#-<config>"
  - RunDef.GmatExe: path to installed GMAT.exe
  - RunDef.RegressionBuild: last build date if testing RC1, otherwise, "R2013a-rc#-<config>"

6. Run:  
>> gmatteest <name of rundef.m>
7. Run:  
>> diary('off')
8. Post results to network using robocopy:  
>robocopy "C:\path\to\output\R2013a-rc#" "\\mesa-file\595\GMAT\TestResults\win7\R2013a-rc#-<config>"  
/E /MT /LOG:robocopy.txt

## Issues for RC3

- [GMT-3794](#) (still open)
- [GMT-3826](#)
- Run graphics regression tests (still open)
- Run toolbar/menubar regression tests

## Issues for RC2

- [GMT-3745](#) - fix
- [GMT-3794](#) - fix
- [GMT-3795](#) - fix
- [GMT-3797](#) - fix
- [GMT-3817](#) - fix if time allows
- [GMT-3816](#) - don't fix
- [GMT-3803](#) - don't fix
- Update scripts for estimation functionality - fix
- What to do about MATLAB Interface in bundle? - update installer if time allows
- Proper covers on the PDF User Guide - fix
- Run graphics regression tests - fix