FGI-GSRx v2.0.2 Release Notes

New Features in v2.0.2

(1) Bug fixes and other minor changes.

(2) Cosmetic changes and corrections that should generally not affect the receiver's functionality.

Table 1: Changes made on v2.0.1 to reach this new v2.0.2

File name	Remarks	Type of change
(A total of 75 files, including files listed below)	Various (mostly cosmetic) fixes or adjustments in comments, function documentation, syntax, and similar.	Modification
/acq/acquireSignal.m	Renamed variable and field variance to standardDev.	Modification
/acq/initAcquisition.m	Renamed field variance to standardDev.	Modification
/ionex/ionexDelay.m	Fixed possible bug, closing parenthesis in the wrong place on line 92. One new variable is introduced: ionexScalingFactor as 0.1, since 1 TECU should always be 1e16.	Modification
/lse/calcPosLSE.m	Removed unused variables rcvr_clock_corr and clock_correction. Also general tidying and some data not unnecessarily saved into arrays anymore. Added threshold for stopping LSE iterations after good enough accuracy.	Modification
/lse/calcVelLSE.m	Fixed how nrSats is calculated and removed redundant recalculation of range. General tidying and some data not unnecessarily saved into arrays anymore.	Modification
/nav/doNavigation.m	Removed four redundant fields from the channels of the returned obsData to save space. Also removed redundant variable fixIndex.	Modification
/nav/getNavSolution.m	Removed unused field enu from nav data. Fixed what happens	Modification

	when trynav fails (should not use previous nav sol but set everything to NaN etc.), made nav data fields consistent, and removed redundancies. Initialize Pos and Vel (Time not needed) manually instead of using initPosVel.	
/nav/initNavigation.m	Removed unused field enu from nav data. Made nav data fields consistent.	Modification
/nav/initPosVel.m	Deleted now unused function.	Removal
/nav/updateNavState.m	Added possibility for navigation flag to be "NOT_GOOD_FOR_NAV".	Modification
/plot/plotTracking.m	Added initialization of visiblePRN to zeros, and removed redundancies.	Modification
/stats/calcStatistics.m	Fixed "index exceeds nr of array elements" error when there is nav data with Pos.bValid = false.	
/ui/showNavStatus.m	Removed printing of enu.	Modification
/param/defaultReceiverConfiguration.txt	Minor corrections.	Modification
/param/default_param_BeiDouB1_Chapter5.txt	Minor corrections.	Modification
/param/default_param_GLONASSL1_Chapter3.txt	Minor corrections.	Modification
/param/default_param_GPSL1C.txt	Minor corrections.	Modification
/param/default_param_GPSL1_Chapter2.txt	Minor corrections.	Modification
/param/default_param_GalileoE1_Chapter4.txt	Minor corrections.	Modification
/param/default_param_MultiGNSS_Chapter7.txt	Minor corrections.	Modification
/param/default_param_NavICL5_Chapter6.txt	Minor corrections.	Modification