



# *FGPS International*

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## **FBComp Release Notes**

Date: 23/01/2016

Version: 5.04

<b>No.</b>	<b>Module</b>	<b>Description</b>
1	Data files	Added warning for no matching sources.
2	Compute	Bugfix: saved rejected observations read from project file were remaining rejected when recomputing.

Date: 19/06/2015

Version: 5.03

<b>No.</b>	<b>Module</b>	<b>Description</b>
1	Data files	Now warns for different transponders on the same cable with the same offset.
2		Bugfix: divide by 0 error in interpolation when different transponders with same offset.



Date: 03/06/2015

Version: 5.02

No.	Module	Description
1	Time Series	Bugfix: was not displaying plots for lines with 10 digit line number.
2	Data files	Bugfix: was not finding all data when using FB picks under certain circumstances.

Date: 31/05/2015

Version: 5.01

No.	Module	Description
1	All	Bugfix: transponder line numbers were sometimes being misread from file.
2	Compute	Default maximum receiver interval increased to 500m.

Date: 18/05/2015

Version: 5.00

No.	Module	Description
1	IMPORTANT	This version implements a new licensing system. It is recommended that you contact <a href="mailto:licence@fgps.com">licence@fgps.com</a> in order to request a new licence before installing it.
2		If your current licence will expire soon it is recommended that you upgrade to this version immediately.



Date: 10/04/2015

Version: 4.74

No.	Module	Description
1	Project files	Bugfix: Corrected launching of project specified in command line

Date: 25/03/2015

Version: 4.73

No.	Module	Description
1	IMPORTANT	FBComp is now a standalone application. This means it should be separately installed, and it requires its own licence.
2	Bugfix	was not correctly handling situation with first or last transponder failed when interpolation model set to 2.
3	FBComp	Added number of iterations to time series plots.
4	FBComp	Added MDE to observation statistics.



Date: 28/10/2014

Version: 4.72

No.	Module	Description
1	Bugfix	overriding transponder line number was not correctly working.
2	FBComp	Default interpolation model changed to two transponders.
3	FBComp	New option to match data to sources using both time ad ID - this is now the default setting.
4	Bugfix	time series button was not enabled when it should be.
5	Bugfix	access violation when plotting multiple lines in time series.
6	FBComp	Some minor behavioural improvements.
7	FBComp	General minor performance improvements.

Date: 09/07/2014

Version: 4.71

No.	Module	Description
1	Bugfix	Some observations were incorrectly assigned to transponder for certain datasets.



Date: 12/06/2014

Version: 4.70

No.	Module	Description
1	Bugfix	Was sometimes incorrectly reading receiver and transponder offsets.

Date: 13/02/2014

Version: 4.69

No.	Module	Description
1	FBComp	Improved speed of loading data from project.

Date: 11/02/2014

Version: 4.68

No.	Module	Description
1	FBComp	Fixed interpolation problems when bad adjacent transponders.
2	FBComp	For interpolation model > 2 dead transponders reduces model size.
3	FBComp	Clicking on transponder in plot now displays transponder info in main form.



Date: 07/02/2014

Version: 4.67

No.	Module	Description
1	Bugfix	misreporting of non-unique receiver and transponder offsets.
2	FBComp	Now lists non-unique receiver and transponder offsets.
3	Output	report now states interpolation type.
4	Bugfix	output report was mis-reporting interpolation model size.
5	FBComp	Now lists transponders with no data (only when using SeisPos generated acoustic file).
6	FBComp	Now saves observation statistics.
7	FBComp	Now generates warning log after reading files.
8	Bugfix	data format string was blank on starting new project with SeisPos format string specified.



Date: 15/01/2014

Version: 4.66

No.	Module	Description
1	FBComp	New parameter for maximum receiver interpolation distance.
2	Bugfix	Minor bugfixes on receiver interpolation.
3	FBComp	Added checks for duplicate times and shot IDs.
4	FBComp	New option to match sources on time (default) or ID. This is needed because multiple datasets could result in duplicates.
5	Bugfix	setting a transponder status to Not Solved was still including that transponder in the receiver interpolation.

Date: 09/01/2014

Version: 4.65

No.	Module	Description
1	Bugfix	interpolation was failing with very curved cable.
2	Bugfix	output format when outputting transducer file was being ignored.



Date: 28/12/2013

Version: 4.64

No.	Module	Description
1	FBComp	New option to set method of source point matching by time or by SP.

Date: 27/12/2013

Version: 4.63

No.	Module	Description
1	Bugfix	was attempting to extrapolate receivers beyond the specified extrapolation range.

Date: 21/11/2013

Version: 4.62

No.	Module	Description
1	Bugfix	was not reading FB pick files.





Date: 19/11/2013

Version: 4.61

No.	Module	Description
1	FBComp	Some cosmetic changes.

Date: 18/11/2013

Version: 4.60

No.	Module	Description
1	Output	Added option to output transponders only.

Date: 12/11/2013

Version: 4.59

No.	Module	Description
1	Bugfix	Was not handling different data formats for different data files.
2	Bugfix	Was trying to use USBL Z observations when transponder depth computation was disabled.
3	Bugfix	Was outputting unsolved, uninterpolated receivers with zero coordinates.



Date: 18/10/2013

Version: 4.58

No.	Module	Description
1	Bugfix	was not correctly reading data when delimited format records started with blank spaces.
2	Bugfix	memory error when stepping through computation.

Date: 14/10/2013

Version: 4.57

No.	Module	Description
1	Bugfix	Was incorrectly reading data format string with leading blank space.
2	FBComp	Revised transponder interpolation - now uses only 3 receivers.

Date: 25/09/2013

Version: 4.56

No.	Module	Description
1	Bugfix	Various bugs processing USBL XYZ data.
2	Enhancement	Observation list now includes source coordinates when included in data file.



Date: 12/09/2013

Version: 4.55

No.	Module	Description
1	Enhancement	Improved SPS format recognition.
2	Bugfix	Was including sources not used.

Date: 08/09/2013

Version: 4.54

No.	Module	Description
1	FBComp	Change: Increased number of decimal places for storing some parameters.
2	FBComp	Bugfix: Floating point error during interpolation.
3	FBComp	Bugfix: Transponder depth computed flag was not being saved.
4	FBComp	Bugfix: Ranges were being assigned to incorrect transponders.
5	Output	Bugfix: Bad depths were being output as -999999.9.



Date: 05/09/2013

Version: 4.53

No.	Module	Description
1	Input	Bugfix: Access violation when reading FB data.
2	Plot	Bugfix: Source information on plot was not being displayed.

Date: 26/08/2013

Version: 4.52

No.	Module	Description
1	GUI	Enhancement: GUI now uses Windows themes
2	FBComp	Enhancement: Computation is now transponder based not receiver based.
3	Output	Change: Output files are now based on line number not input file.
4	Output	Change: Point index for output now user specified.
5	Output	Change: SPS format revision for output now user specified.
6	Output	Change: header for all output files now taken from first input file.
7	Output	Change: Point index for output receiver file must now be specified.
8	FBComp	Change: Maximum receiver extrapolation now specified as a distance.
9	FBComp	Enhancement: Data format now automatically set for new data files if one exists.



Date: 06/02/2013

Version: 4.51

No.	Module	Description
1	FBComp	Bugfix: was not updating change in observation rejection type.
2	FBComp	Bugfix: when clicking on computed receiver plot was showing source points that were not used.
3	FBComp	Receiver depth computation more stable.
4	FBComp	When mouse down on plot info now displays reduced observation (with TaT and scale applied) instead of raw.
5	FBComp	Bugfix: suppressed unnecessary re-reading of receiver files when computation is started.

Date: 16/01/2013

Version: 4.50

No.	Module	Description
1	Input	Now supports pinger coordinates in data records in place of source files.
2	FBComp	Interpolation now supported for receivers computed from non-seispos data.
3	FBComp	Project files now stored in plain text format (old binary files will be silently converted).