

SPSPro Release Notes

Date: 14 May 2012

SPSPro Version: 6.49

FBComp Version: 4.35

No.	Module	Description
1.	Database	Export table now exports all selected line data.
2.	Multiplot	Maximum number of overlays increased to 20.
3.	Multiplot	All overlays can be selected in one operation.
4.	Multiplot	Overlay colours now graduated from red to green.
5.	Multiplot	Hint shows plot name when overlays are shown.
6.	Multiplot	Added overlay legend to printed plots.
7.	Multiplot	Bugfix: killed point status incorrectly initialised.
8.	Multiplot	Default scale set to "Fit".
9.	Replay	Now sets map relational button down when started.
10.	Replay	Now sets map hint button up when started.
11.	Setup	Bugfix: file lists were not automatically sorted when moving files between lists.
12.	All	Bugfix: source lines were not being sorted by time when read from file.
13.	Scan	Now lists missing points for source and receiver lines.
14.	Scan	Now checks that number of channels matches number of receivers in X record.
15.	Scan	Now lists numbers of points with unique index for source and receiver lines.
16.	Scan	Source sort ID checkbox is now obsolete. Sources are sorted by ID for missed SP checking and by the default sort order (time) for time increment checking.
17.	Scan	Added options for individual scan tests.
18.	FBComp	Bugfix: Only the first data file was being read.
19.	FBComp	Now backs up current version of FBComp.exe.
20.	FBComp	Bugfix: Range check error when creating new project.
21.	FBComp	No longer re-opens last project on startup.
22.	FBComp	Bugfix: Access violation on closing.
23.	FBComp	Can now specify receiver index for file.
24.	FBComp	Option to override receiver index for all files output.



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25.	FBComp	File lists now sorted by current sort order when adding items.
26.	FBComp	Apply transponder offsets control moved to Receiver Output panel.
27.	FBComp	New option to interpolate unsolved receivers.
28.	FBComp	CPU control removed.
29.	FBComp	Min/max pick time controls renamed Min/max data value and moved to Adjustment Parameters.

SPSPro Release Notes

Date: 15 March 2012

SPSPro Version: 6.42

FBComp Version: 4.31

No.	Module	Description
1.	Main	New option to create new project (previously could only save as).
2.	Main	Now saves backup of executable.
3.	Main	All SPS rev 1 format point numbers now treated as floating point.
4.	Setup	SPS format type for files without header are now saved.
5.	Setup	Plot colour and visibility can now be set for all files.
6.	Setup	External graphics files are now listed with visibility and colour options.
7.	Map	When applying surface elevation to reduce depths the depth value displayed in the information panel is now the reduced depth.
8.	Map	KL point colour is now specifiable.
9.	Map	Now optionally displays point information in hint window.
10.	Map	Window and control parameters now saved in project file.
11.	Map	Added splitter bar between info panel and map area.
12.	Map	Clicking relational button redraws map. Index colours will not be plotted if this button is down.
13.	Scan	Now counts number of points in line, good and killed points and lists killed points.
14.	Scan	Now reports totals at end of file.
15.	Scan	Now includes relational data summary.
16.	Scan	Bugfix: database record number stated in report entries was out by 1.
17.	Scan	Now reports format violations for records > 80 characters long, with exception allowed for hi-res S records of 87 characters.
18.	Scan	Disabled instrument code sequence checking.
19.	Database	Export table now allows field selection.
20.	Setup, Map	Now has option to suppress plotting of attributes that do not fall within the min/max key range.
21.	Setup, Map	Bugfix: newly added files were not always being displayed on map or database.



22.	Setup, Map	New option to compute min-max range for attribute map.
23.	Setup, Map	New option to colour plot according to index number.
24.	Compare	Added option to ignore instrument codes.
25.	FBComp	Bugfix: SD for observation type R was not being read.
26.	FBComp	Bugfix: SPS format revision 1 was not always being automatically recognised.
27.	FBComp	Now prompts for SPS format revision if not recognised.
28.	FBComp	Pressing <Esc> on receiver list will prompt to abort reading receivers.
29.	FBComp	User defined format 2 now allows shot line number and receiver line number.
30.	FBComp	Format specifier for horizontal range changed from 'R' to 'H'.
31.	FBComp	Added parameter for turnaround time to be subtracted from acoustic ping times.
32.	FBComp	Added field for turnaround time in data format (specifier 'D').
33.	FBComp	When computing receiver depths depth is initialised to last computed depth.
34.	FBComp	FB format now includes optional receiver line number.
35.	FBComp	Bugfix: Was sometimes getting SDs of 0 value when forcing UV to 1.
36.	FBComp	Bugfix: Occasional divide by 0 error when scaling plot.
37.	FBComp	Bugfix: Line and point numbers incorrectly written in separation report and pick plot.
38.	FBComp	Bugfix: Plot windows incorrectly initialised for first time use.
39.	FBComp	X axis label in time series plots now says "Stn:" was "SP:"
40.	FBComp	When clicking on receiver in list the plot now displays only that receiver's data even before computation has been carried out.
41.	FBComp	Bugfix: changed parameters were not being invoked in computation if project was saved before running.
42.	FBComp	Bugfix: access violation when preplot receiver index greater than 1.
43.	FBComp	Bugfix: was trying to match data record to receiver using index number when index field not specified.

SPSPro Release Notes

Date: 15 April 2011

SPSPro Version: 6.23

FBComp Version: 4.17

No.	Module	Description
1.	Main	Now prompts for SPS format revision if undetermined.
2.	Scan	Bugfix: was misreporting format violations for records H201, H210 and H30.
3.	Compare	New option to disregard index numbers.
4.	Compare	Bugfix: Report entry for number of points compared was not showing properly.
5.	Main	Bugfix: Option to override SPS v2.1 line number position was not working when files were initially loaded into the software.
6.	Compare	Compare: bugfix: error in flagging time based point matching.
7.	Compare	New option to specify method of point matching.
8.	Setup	When auxiliary file line number columns were changed program had to be restarted for changes to take effect.
9.	Scan, Database	FSP and LSP numbers reported did not account for lines shot in multiple passes in opposing directions.
10.	Scan	Now assumes that the lowest receiver index number does not have to be a 1.
11.	Scan	Bugfix: was falsely reporting receiver number increment exceptions.
12.	Compare	Percentage samples criteria now apply to all selected series.
13.	Compare	Individual comparison criteria can now be applied to each series.
14.	Compare	Bugfix: percentage failures was being misreported.
15.	Utilities	Bugfix: conversion to P1/90 gave source id in wrong column.
16.	Database	When saving file the line name for SPS format V2.1 is now taken from the line name and not the line number (which may be a substring of the line name).
17.	Database	Bugfix: relation record line number was not being correctly parsed from text line name when changing format options.
18.	Scan, Database	FSP and LSP were being mis-calculated under certain circumstances.
19.	Main	Now allows user specified SPS format revision to be applied to all files of undeterminable format.
20.	Utilities	Now writes shapefile when record type is blank.
21.	Compare	Source comparisons now use only digital part of instrument code for differentiating sources.



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No.	Module	Description
22.	Utilities	File filter for SPS files changed to *.s* *.r*
23.	Compare	Bugfix: access violation when trying to compare receiver datasets.
24.	Utilities	New utility to convert P1/90 to SPS.



SPSPro Release Notes

Date: **01 March 2010**

SPSPro Version: **6.06**

FBComp Version: **4.17**

No.	Module	Description
1.	FBComp	Now supports SPS format revision 2.1.
2.	FBComp	New pre-defined data format for SeisPos generated acoustic data.
3.	FBComp	Min and max pick time now applies to slope range (type L) observations.
4.	FBComp	Pick plot display now has option to toggle plotting of good and rejected picks.
5.	FBComp	Clicking on a pick on the pick display now displays the network and statistics for the associated receiver.

SPSPro Release Notes

Date: 23 February 2010

SPSPro Version: 6.06

FBComp Version: 4.12

No.	Module	Description
1.	Compare	Point matching no longer depends on file sort order.
2.	Compare	Point indexes added to csv file output.
3.	Compare	Open report folder button added.
4.	Compare	Bugfix: when point index was set to Auto points were being compared sequentially regardless of index.
5.	Scan	Relation records are no longer checked for SP number increment.
6.	Database	Data records are now numbered.
7.	Compare	New feature to compute multiple percentage pass on radial difference.
8.	Compare	Individual sources are now compared separately.
9.	Main	Memory allocation error now provides error message.
10.	All	Now supports SPS format revision 2.1.
11.	Main	Bugfix: Split file utility did not support SPS format version 2.1.
12.	Compare	From/to station numbers in summary file were corrupted.
13.	Database	Bugfix: change in line number was not being saved.
14.	Setup	New option to override line number position in record for SPS format revision 2.1 files.
15.	Setup	Bugfix: when line number position was changed program had to be restarted, or affected data types re-read, for change to take effect.
16.	Utils	Edit with CGG exclusion list updated to SPS format v2.1.
17.	Scan	Bugfix: relational file format check for "to channel" was for columns 44-47, should be 44-48.
18.	Scan	Bugfix: number of unique shots in relational file was being misreported.
19.	FBComp	Number of observations input and used are now recorded for report and plots.
20.	FBComp	Now supports SPS format revision 2.1
21.	FBComp	New pre-defined data format for SeisPos generated acoustic data.
22.	FBComp	New option to override SPS format v2.1 line number columns.



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No.	Module	Description
23.	FBComp	Bugfix: Observation report line and id numbers were not written properly.
24.	FBComp	Min and max pick time now applies to slope range (type L) observations.
25.	FBComp	Pick plot display now has option to toggle plotting of good and rejected picks.
26.	FBComp	Clicking on a pick on the pick display now displays the network and statistics for the associated receiver.
27.	FBComp	



SPSPro Release Notes

Date: **30 March 2009**

SPSPro Version: **5.83**

FBComp Version: **4.09**

No.	Module	Description
1.	Setup	Format columns for X files are now calculated from the S and R file column settings.
2.	Scan	Bugfix: file record number was being incorrectly reported.
3.	Time series Plots	Bugfix: sort by station was not working correctly for source plots.
4.	Map	New feature to display attributes for selected points.
5.	Compare	Plot feature now plots all comparisons computed.
6.	Compare	Bugfix: last point was being included even if index did not match.
7.	Compare	Bugfix: error freeing memory when previous line had no points to compare.

SPSPro Release Notes

Date: 01 March 2009

SPSPro Version: 5.79

FBCComp Version: 4.08

No.	Module	Description
1.	All	Memory allocation bugs fixed.
2.	Main	New utility to split SPS file into constituent lines.
3.	Setup	Colour keys can now be interpolated from first and last values and colours.
4.	Compare	Now supports CSV file output.
5.	Compare	All attributes can now be compared.
6.	Compare	Index to use for comparison is now specifiable.
7.	Compare	Interface redesigned and now supports batch processing.
8.	Compare	Time comparison for S file search now based on <= 1 sec.
9.	Database	Bugfix: interpolation of killed receivers did not work properly with more than one index.
10.	Database	Auxiliary files are now included in the database.
11.	Database	Bugfix: Was getting access violation when saving line database.
12.	Database	Bugfix: memory access violation when copying a line to another file.
13.	SPS to P1/90	Now supports SPS records up to 255 characters long. Only first 80 are used for conversion.
14.	Map	Tidal reduction button added, when toggled down and plotting water depths tidal reductions (recorded in Surface Elevation field) will be applied.
15.	Map	File name field added to information panel.
16.	Map	Code and index plot flags can now be applied to auxiliary points.
17.	Map	Popup menu added with function to kill/unkill point.
18.	Utilities	New utility to apply record exclusions using CGG edit list.
19.	FBCComp	Bugfix: Receiver depth computation ambiguity addressed i.e. depth cannot be negative.
20.	FBCComp	Acoustic transponder offset is now applied automatically when using SeisPos generated acoustic data file.
21.	FBCComp	Source positions are now stored in two arrays sorted on time and sp respectively to support hybrid data formats.
22.	FBCComp	Data format now supports day of observation (required if observations span more than one day).



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SPSPro Release Notes

Date: 29 September 2008

SPSPro Version: 5.70

FBCComp Version: 4.03

No.	Module	Description
1.	FBCComp	Outputting water depths greater than 99.9 was causing a format error. These are now written as integers.
2.	FBCComp	Multicomponent support now provided.
3.	FBCComp	Some minor bugs fixed.



SPSPro Release Notes

Date: 10 July 2008

SPSPro Version: 5.61

FBComp Version: 4.00

No.	Module	Description
1.	FBComp	Receiver depth SD, when computed, is now reported.
2.	FBComp	A separate data file format can now be applied to each data file enabling a hybrid solution e.g. using first break files and acoustic files.
3.	FBComp	Bugfix: parameter panel settings were not being correctly remembered.
4.	FBComp	Bugfix: change of bearing SD was not being applied until project reloaded.



SPSPro Release Notes

Date: 01 July 2008

SPSPro Version: 5.61

FBComp Version: 3.08

No.	Module	Description
1.	Main	Number of source or receiver records was limited to 99999, now has no limit.
2.	FBComp	Bugfix: Superfluous data records were being created when based in time when no corresponding source records existed.
3.	FBComp	User defined 1 format now supports time data.
4.	FBComp	Bugfix: Rejected obs were being partly used in acoustic solution.
5.	FBComp	Bugfix: After modifying the data format or file selection the module had to be re-started before the new settings took effect.
6.	FBComp	Graphics resources increased to prevent out of resource error when maximising network display window.
7.	FBComp	Source files are now automatically sorted on time of first record before reading.
8.	FBComp	New option to compute receiver depths when using slope ranges.
9.	FBComp	Predefined formats for Trackpoint II data now supported.
10.	FBComp	P1/90 format now supported for source files.



SPSPro Release Notes

Date: 14 June 2008

SPSPro Version: 5.60

FBCComp Version: 3.01

No.	Module	Description
1.	FBCComp	Bugfix: Files of format type 2 using Z data were incorrectly read.
2.	FBCComp	Data to source correlation can now be made using the time stamp.



SPSPro Release Notes

Date: 14 May 2008

SPSPro Version: 5.60

FBComp Version: 3.00

No.	Module	Description
1.	Database	Copy, paste and function now operate with block cell selection.
2.	Setup	Instrument code lists are now compiled from data records.
3.	Main	Recent project list added to main menu.
4.	Time Series	Station interval now included.
5.	Map	Mouse wheel is now used to zoom.
6.	Multiplot	Mouse wheel can now be used to scroll through plots.
7.	Multiplot	Mouse wheel can now be used to zoom on plots: Ctrl button for X-axis, Shift button for Y-axis.
8.	FBComp	Clicking on a computed receiver now displays the plot for that receiver.
9.	FBComp	USBL X & Y, range and bearing observations now supported.
10.	FBComp	Receivers can be constrained to drop positions in solution.
11.	FBComp	Implemented fully integrated solution combining all observation types.
12.	FBComp	Receiver list popup menu now with option to display observations for selected receivers.
13.	FBComp	Parameter interface improved.
14.	FBComp	Recent project list added to menu.



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SPSPro Release Notes

Date: 11 August, 2006

SPSPro Version: 4.30

FBCComp Version: 2.80

No.	Module	Description
1.	FBCComp	When stepping now does not move to next receiver if failed.
2.	FBCComp	Interface part redesigned
3.	FBCComp	Receiver compute and reject parameters now displayed when receiver is selected.
4.	FBCComp	Bugfix: Pick time vs. distance plot: unused picks were being plotted



SPSPro Release Notes

Date: 03 May, 2006

SPSPro Version: 4.30

FBComp Version: 2.10

No.	Module	Description
1.	FBComp	Now supports receiver indexing
2.	FBComp	Now outputs header records copied fro input files



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SPSPro Release Notes

Date: 03 May, 2006

SPSPro Version: 4.30

FBComp Version: 2.02

No.	Module	Description
1.	FBComp	Bug fix: Parameter file containing invalid file/path names(s) was causing error "Invalid argument to TdateTime encode"



SPSPro Release Notes

Date: 23 June, 2005

Version: 4.30

No.	Module	Description
1.	Database	Now supports import of external data based on point ID or interpolated using time stamp, with basic math function.
2.	Database	Data tables now support copy and paste from/to clipboard, including pasting with basic math function.
3.	Database	Clicking on column headers now selects the column in preparation for a copy or paste operation.
4.	Database	Interpolation of receiver depths from source depths moved to Utilities menu.
5.	FBComp	Now version 2.00
6.	FBComp	Improved interface
7.	FBComp	Pick time vs. range plot now plots a single point for each data item and not a fitted curve.
8.	FBComp	Pick time vs. range plot now displays rejected picks in red and down-weighted picks in yellow.
9.	FBComp	Polynomial coefficients now displayed and available in time series plots.
10.	FBComp	Hint information on plotted points now includes line and point id (was point id only).



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SPSPro Release Notes

Date: 24 March, 2003

Version: 4.00

No.	Module	Description
1.	Setup	Bug fix: selected files would sometimes be removed from the "database" lists.
2.	Compare	Bug fix: floating point errors sometimes occurred.
3.	Scan	Bug fix: access violation when reporting certain types of errors.
4.	FBComp	New module for receiver coordinate computation

Notes:



SPSPro Release Notes

Date: 13 December, 2002

Version: **3.00**

No.	Module	Description
1.	Setup	Multiple files now supported. ¹
2.	Database	New module supporting organisation and editing of data files. ¹
3.	Compare	Dataset selection is now made manually. ¹
4.	Map	Now supports conformal scaling.

Notes:

1. Refer to user manual.



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