



Fast  
Geophysical  
Positioning  
Solutions

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## SeisPos Release Notes

Date: 11 May 2012

**Version: 18.89**

No.	Module	Description
1.	Coord Convert	Bugfix: headers reporting grid units in metres when not.
2.	All	Bugfix: TM Geog to grid conversion in error when latitude of origin high value.
3.	Database	All header grid coordinates now in grid units (were metric).

## SeisPos Release Notes

Date: 26 April 2012

**Version: 18.88**

No.	Module	Description
1.	Coord Convert	Bugfix: Project false E and N were reported incorrectly when project is non-metric.
2.	Output	Message for time exceptions in tide data now includes record number in file of first exception.
3.	Main	No longer displays message "seispos.dat - no such file" when licensing afresh.
4.	Main	Prompts to create a new project on first time use.

## SeisPos Release Notes

Date: 23 April 2012

**Version: 18.87**

No.	Module	Description
1.	Input	DGPS QC stats now read from T621 records even if format violations detected.
2.	Report	Reports now remain open when Report main module is closed.
3.	Network Adjust	Bugfix: Adjustment was running slowly.

## SeisPos Release Notes

Date: 19 April 2012

**Version: 18.85**

No.	Module	Description
1.	Report	New module container for all report functions
2.	Database	Projection easting and northing at origin now displayed in grid units (was metric).
3.	Coord Convert	Added option to convert using metric or grid units.
4.	Precondition	Bugfix: access violation when viewing delta, RoC or acceleration on plot with no data.
5.	Database	Q-Marine modifications now create bearing observations from tailbuoys to last acoustics.
6.	Multiplot	Maximum number of overlays increased to 20.
7.	Multiplot	All overlays can be selected in one operation.
8.	Multiplot	Overlay colours now graduated from red to green.
9.	Multiplot	Hint shows plot name when overlays are shown.
10.	Multiplot	Added overlay legend to printed plots.
11.	Precondition, Output	External data now with option to treat colons as delimiters.
12.	Input	Bugfix: was not handling very large files (> 4GB).
13.	All	Maximum number of observations increased to 50000.
14.	All	P cable now implemented.
15.	Input	Bugfix: Hi resolution time stamp was being incorrectly decoded.
16.	Output	Bugfix: Line name for SPS Format Rev 2.1 is now truncated to max 10 characters.
17.	Network Adjust	Now automatically configures GATOR SOURCE network.
18.	Output	Bugfix: Hi-res timestamp option was reverting to on when saving parameters.

## SeisPos Release Notes

Date: 06 February 2012

**Version: 18.73**

No.	Module	Description
1.	Main	Split P2 utility now supports P2/86 format.
2.	Project	Added popup menu item to delete all lines.
3.	Project	Added acquisition system Q-SEABED RECEIVER.
4.	Project	Added acquisition system P-CABLE.
5.	Input	Performance improvement for C/O data and field positioning data.
6.	Input	Waypoints are now sorted depending on SOL position.
7.	Input	For P2/86 now computes waypoint grid coordinates if not recorded.
8.	Input	Bugfix: P2/86 echosounder data not being correctly written to database.
9.	Input	Various bug fixes and modifications to handle ENSOCO produced P2/86 data.
10.	Input	Error reading P1/86 H20 and H22 records.
11.	Input, Output	Bugfix: streamer and gun nodes were incorrectly numbered for P2/86 causing access violation on Output.
12.	Input	Hexidecimal 5bservation IDs is now checked by default for Q Marine projects.
13.	Input	QMARINE compass SDs now default to 3 deg, acoustics to 2m.
14.	Input	User defined obs of type HEIGHT now automatically recognised.
15.	Input	User defined speed of sound obs with data value < 2 now has scale set to 1000.
16.	Database	Creation of GPS comparison nodes now creates duplicate observations and nodes for all vessel GPS antenna nodes.
17.	Database	New utility to create sub-array separation nodes with independently sources observations.
18.	Database	Extract acoustic utility updated to handle Q Seabed.
19.	Database	Bugfix: when loading default nodes incorrect node number was being reported for default reference node.
20.	Database	Bugfix: error indexing observations when creating Q marine modifications.
21.	Precondition	Default interpolation threshold for Q Seabed acoustics set to 50s.
22.	Precondition	Auto-Precondition now handles unlimited number of observations.
23.	Compass Bias	Default thresholds for Q Marine now set to 5.
24.	Network Adjust	Bugfix: refine network on Q-Marine data was causing some observations to be omitted from the network.
25.	Network Adjust	Bugfix: when replaying rejected observations were being plotted as good.

No.	Module	Description
26.	Network Adjust	Bugfix: when replaying gated observations were staying rejected for rest of line.
27.	Network Adjust	Bugfix: sometimes getting access violation when clicking on a node in the display.
28.	Network Adjust	When set to Continue on Failure, failed nodes will automatically be removed for the shot in question and the network re-computed.
29.	Network Adjust	Bugfix: Plot was not being updated when adding/removing nodes from the node list.
30.	Network Adjust	Bugfix: access violation when exiting if no gun-array RGPS nodes present.
31.	Network Adjust	Manual observations with bad compass data will automatically switch to using adjacent good compass if any.
32.	Network Adjust	Bugfix: was hanging at end of adjustment when running in Automatic Processing mode.
33.	QC	Bugfix: node crossline distance was computed with wrong sign.
34.	Config/Print Plots	Bugfix: access violation when comparing Precon raw or processed data with a shot domain series.
35.	Config/Print Plots, Trend Analysis	Bugfix: node crossline distance was computed with wrong sign.
36.	Config/Print Plots, Trend Analysis	No longer restricted to comparing with shot event data only for Precon data.
37.	Config/Print Plots	New function from Tools menu to auto-create DGPS comparison plots. The automatically saved configuration can be used in the Trend Analysis module.
38.	Config/Print Plots	New function from Tools menu to auto-create sub-array separation plots. The automatically saved configuration can be used in the Trend Analysis module.
39.	Output	SPS header H02 record was defaulting to survey details and not start of survey date.
40.	Output	SPS header – changed H2600 to H26 for polynomial datum parameters.
41.	Output	Bugfix: T records were incorrectly sorted.
42.	Output	Bugfix: access violation when outputting user H2600 records.
43.	Output	For QMARINE polynomial streamer shape is no longer the default.
44.	Various	Bugfix: some date strings on reports were incomplete.
45.	Node Dialog	Added button to display reference node details.
46.	Node Dialog	Bugfix: reference node name was not being correctly displayed.
47.	Network Display	Bugfix: ANGLE type observations were not being displayed.

## SeisPos Release Notes

Date: 22 June 2011

**Version: 18.37**

No.	Module	Description
1.	Utilities	Bugfix: coordinate conversion report lat and lon of origin hemisphere was sometimes incorrectly reported.
2.	Print Plots, Trend Analysis	Can now use <Ctrl> + A to select all plots in configuration.
3.	Print Plots, Trend Analysis	Bugfix: Depth type obs nominal was forced to negative.
4.	Input	When reading E33 record will ignore array with all zero gun mask.
5.	Database	Bugfix: error in computing transducer offsets when exporting acoustic data for OBC.
6.	Project	Bugfix: Line number from line name parameters were being overwritten with incorrect values.
7.	Precondition	Bugfix: processing parameters for all observations were not being initialised when first plotting only a subset of observations.
8.	Precondition	Bugfix: access violation when selecting Network from popup menu for the first time.
9.	Network Adjust	Bugfix: Gunarray orientation, when using RGPS, was using nodes when rejected.
10.	Input	Now reads USBL Z data.
11.	Database	Now exports USBL Z data for OBC.
12.	Network Adjust	Bugfix: wrapping of streamer feather when beginning at small negative value.
13.	Network Adjust	Bugfix: was trying to use RGPS for gunarray orientation when antenna separation < 3m.
14.	Network Adjust	Bugfix: was trying to use rejected observations for gunarray orientation using RGPS.







## SeisPos Release Notes

Date: 14 December 2010

**Version: 18.16**

No.	Module	Description
1.	Input	Bugfix: FPD input as obs were being given wrong unit code.
2.	Input	Bugfix: was not correctly handling files with no record terminator.
3.	Input	access violation when counting number of obs per node for Qmarine data.
4.	Input	now supports hex observation IDs for all datasets (was just Q-Marine).
5.	Input	Display of format violation and warning reports is suppressed when in batch mode.
6.	Multiplot	Bugfix: window position was not being saved.
7.	Compass Bias	Bugfix: auto-reject was not working correctly when worst compass had negative bias.
8.	Network Adjust	Bugfix: saving manual observation form observation dialog was changing obs 0 attributes.
9.	Network Adjust	Feather computation updated to handle extreme latitudes.
10.	Main	the file alias.txt was being moved to the report folder.
11.	Main	Upgrade to process Triggerfish OBC acoustic data.
12.	Utilities	intermittent error when computing in coordinate conversion utility.
13.	Utilities	Bugfix: List P2 was not working properly with DOS files.
14.	Database	Bugfix: GPS comparison nodes' vessel attribute was always set to vessel 1 causing incorrect comparison after adjusting vessel 2 network only.
15.	Output	Bugfix: Problems writing bathymetry data with multivessel data.
16.	Output	Bugfix: line name override was not working.
17.	Output	Line name override now applies to both SPS format versions.
18.	Output	Bugfix: Depth output was using bad echosounder data when outputting depth at record position for run-in shots.
19.	Output	Bugfix: line name was not being written to P1/90.
20.	Output	Added option to output GAM.
21.	Output	Bugfix: option to number by output buoys was not being saved.
22.	Output	Bugfix: error writing vessel 2 echosounder information to H09 record.
23.	Output	Bugfix: H1700 record was not complete when echosounder depth reference is sea level.







## SeisPos Release Notes

Date: 05 February 2010

**Version: 17.15**

No.	Module	Description
1.	Multiplot	Scaling options can now be applied to individual plots of groups.
2.	Multiplot	Multiplot scaling options are now saved.
3.	Multiplot	New menu option to save form to bitmap.
4.	Network Adjust	New facility to replay the adjustment. Note: previously saved node statistics are not compatible with this version.
5.	Network Adjust	Network display can now be rotated.
6.	Project	Project name length increased to 63 characters.
7.	Project	When specifying acquisition system as GATOR RECEIVER new entry for line number position within line name field for SPS version 2.1 line number format.
8.	Database	Extracted acoustic records for OBC cable positioning now adopt SPS V2.1 format version.
9.	Output	SPS V2.1 line number (was name) now conforms to f10.2, with option to override.
10.	Input	Attempts to recognise and correct if number of receivers defined in streamer section exceeds the format limit of 999.
11.	Database	Default filename for exported acoustic data for FBComp is now *.1.txt (was *.0.txt).
12.	Reports	Shot report now gives F-LSP as well as F-LGSP, and P2 file name.
13.	Multiplot, Network Display	No longer gets focus when mouse enters the form (stops hiding other windows).
14.	Final Report	Bugfix: observations with no gate or filter were reported as having the previous observation's gate/filter.
15.	Input	Format violations and warnings now appear automatically on completion of interactive input.
16.	Network Adjust	Bugfix: RGPS gunarray orientation was not being used if any RGPS nodes were co-located.
17.	Input	Bugfix: misleading error messages regarding number of receiver groups.
18.	Output	New option to use observed source depths for SPS output.
19.	Network Adjust	Bugfix: module sometimes hanging when initialising.

































## SeisPos Release Notes

Date: 01 March 2009

**Version: 16.36**

No.	Module	Description
1.	All	Maximum number of compasses allowed per streamer increased to 60.
2.	Project	Bugfix: New project name was not accepting edits when copied from existing project.
3.	Project	Maximum number of projects increased to 200.
4.	Project	Acquisition system list simplified.
5.	Project	New field for acoustic output folder when acquisition system set to GATOR_RECEIVER.
6.	Input	Bugfix: Default gate and filter parameters for "other" obs was set to NONE.
7.	Input	New option to use script file for input. Format is CSV: Path, FGSP, LGSP.
8.	Input	Bugfix: P2 file name was not being saved in project information.
9.	Input	Bugfix: GPS quality data for only one system was being input.
10.	Database	When running in automatic mode Default node offsets will now be loaded.
11.	Database	Extract FB obs utility now outputs observation time as well as SP number.
12.	Database	Extract FB can now be run as a batch on multiple lines.
13.	Database	Extract FB obs utility now outputs observation day.
14.	Database	Bugfix: Extract FB obs utility access violation when running additional files after first run.
15.	Network Adjust	New option to save derived observation SDs as project defaults.
16.	Output	New option to use P2 file name as P1 root name.
17.	Output	Bugfix: Multiple output would not report failure if a line had no records compatible with the saved configuration.
18.	Utilities	New utility to extract P2 listing from list of P2 files.

## SeisPos Release Notes

Date: 31 January 2009

**Version: 16.30**

No.	Module	Description
1.	Database	Observation type letter for extracted FBComp acoustic ranges changed from "R" (horizontal range) to "L" (slope range).
2.	Database	When extracting acoustic data transponder offset from receiver is now added to file.
3.	Project	New acquisition system types Gator and Triggerfish.
4.	Input	Attempts to recognise acoustic pinger when acquisition system is Gator.
5.	Database	For Gator, reads cable number from comment records for output of acoustic data.
6.	Precon	Sets Gator-specific parameters.
7.	Database	Extracting acoustic obs now includes receiver index.
8.	Network Adjust	New function to automatically configure network for acoustic pinger using Gator dataset.
9.	Precon	Undefined user defined observations, and GPS statistics, have no gating or filtering applied by default.
10.	Precon	When acquisition system is set to Gator default precondition parameters are not used, each dataset is initially processed using the internal default parameters. Lines with different configurations may therefore be processed in the same database e.g. all lines in a patch/swath.
11.	Input	Bugfix: Gun depth sensor Y offsets were being incorrectly assigned.
12.	Project	Dropdown list is now available when creating new project so that previous project can be copied.
13.	Output	Bugfix: waypoint coordinates greater than 9 999 999 when written to H26 record were causing the record to exceed 80 characters.





















## SeisPos Release Notes

Date: 08 April 2008

**Version: 16.00**

No.	Module	Description
1.	All	Some minor batch processing bugs fixed.
2.	Project	FGSP and LGSP are now saved in line database and loaded when updating project.
3.	Project	Migration function now added to change drive/path of all projects e.g. when running on data stored in a backup location.
4.	P2 Header Diff	Multiple files can now be selected.
5.	P2 Header Diff	Reports are now saved in the project report folder.
6.	Input	Maximum number of compasses allowed per streamer increased to 50.
7.	Input	Bugfix: an opened file as not being closed.
8.	Database	Bugfix: file was being left open after loading default obs.
9.	Database	Bugfix: log file was not being closed when automatic processing.
10.	Precon	Negative ranges are now automatically rectified and log entry made.
11.	Precon	New auto-rejection based on processed Delta SD.
12.	Precon	Bugfix: plotting by node or group when not plotting all observations was causing database corruption. Plotting by node or group is now ineffective if not all observations are selected.
13.	Precon	Initial processing parameters revised – see document TD_SP03 Internal Defaults.pdf.
14.	Precon	Default key for toggling observation use is now 's'.
15.	Precon	Multiple lines can now be selected for auto-precon.
16.	Precon	Median gate now renamed to median window gate.
17.	Precon	New gate - median, uses median value for entire range i.e. not windowed.
18.	Precon	Bugfix: When applying gate to group median gate was not being applied.
19.	Precon	Bugfix: When saving default parameters median gate was not being saved.
20.	Compass Bias	Bugfix: auto-reject was not working when end compass bias was greater than a mid compass bias, with the end compass below the threshold and the mid compass above the threshold.
21.	Network Adjust	Now prompts to disable output of adjustment stats when computing vessel only network.
22.	Network Adjust	Bugfix: after flagging an observation as globally rejected in the Adjust   Obs list it was still being used until the adjustment module was re-started.
23.	Network Adjust	Select nodes button can now be toggled off.

No.	Module	Description
24.	Output	The polynomial streamer shape option is now always enabled to allow output with compass streamer shaping after re-adjusting vessel position only.
25.	Output	New function to substitute specified characters in line name.
26.	Output	The specified prefix for H0203 record is now automatically stripped from the line name.
27.	Reports/Log	Filter function added to popup menu.
28.	Network Display	Mouse wheel can now be used to zoom.
29.	Multiplot	Mouse wheel can now be used to scroll through plots.
30.	Multiplot	Mouse wheel can now be used to zoom on plots: Ctrl button for X-axis, Shift button for Y-axis.
31.	Utilities	New function to split P2 files containing multiple datasets.
32.	Trend	Summary stats are now saved and re-used if unchanged to speed up data read.
33.	Trend	Bugfix: plots with more than one series configured were displaying the wrong data.
34.	Trend	Improved progress tracking.
35.	Trend	Plot generation can now be stopped.
36.	Final Report	Bugfix: Node statistics were being incorrectly read.
37.	External Data	Bugfix: was not reading data when in SP format with decrementing shots.



## SeisPos Release Notes

Date: 11 March 2008

**Version: 15.00**

No.	Module	Description
1.	Database	Q-marine modifications now done automatically from Utilities menu
2.	Input	Bugfix: SP interval was not being correctly read.
3.	Config Plots	New series added for Precondition plots: processed minus nominal.
4.	Trend Analysis	New module
5.	Project	Recent project list added
6.	Project	Bugfix: was getting access violation after deleting a project.
7.	All	Line specific reports and logs are now saved in the Reports folder under the line database folder. Project specific reports and log are now saved in the Reports folder under the project database folder.
8.	Online Services	When creating an archive report files and project specific parameter files are now also included.
9.	Network Diagram, Network Adjust	Edit Obs Dialog now links to Edit Node Dialog.
10.	Header Diff	Bugfix: was getting access violation when first header longer than second header.
11.	Output	Echosounder data will no longer be used if its E record is not selected for output.
12.	Main	Bugfix: Automatic batch processing was stopping after input of the second line.
13.	Network Adjust	Speed increased significantly.