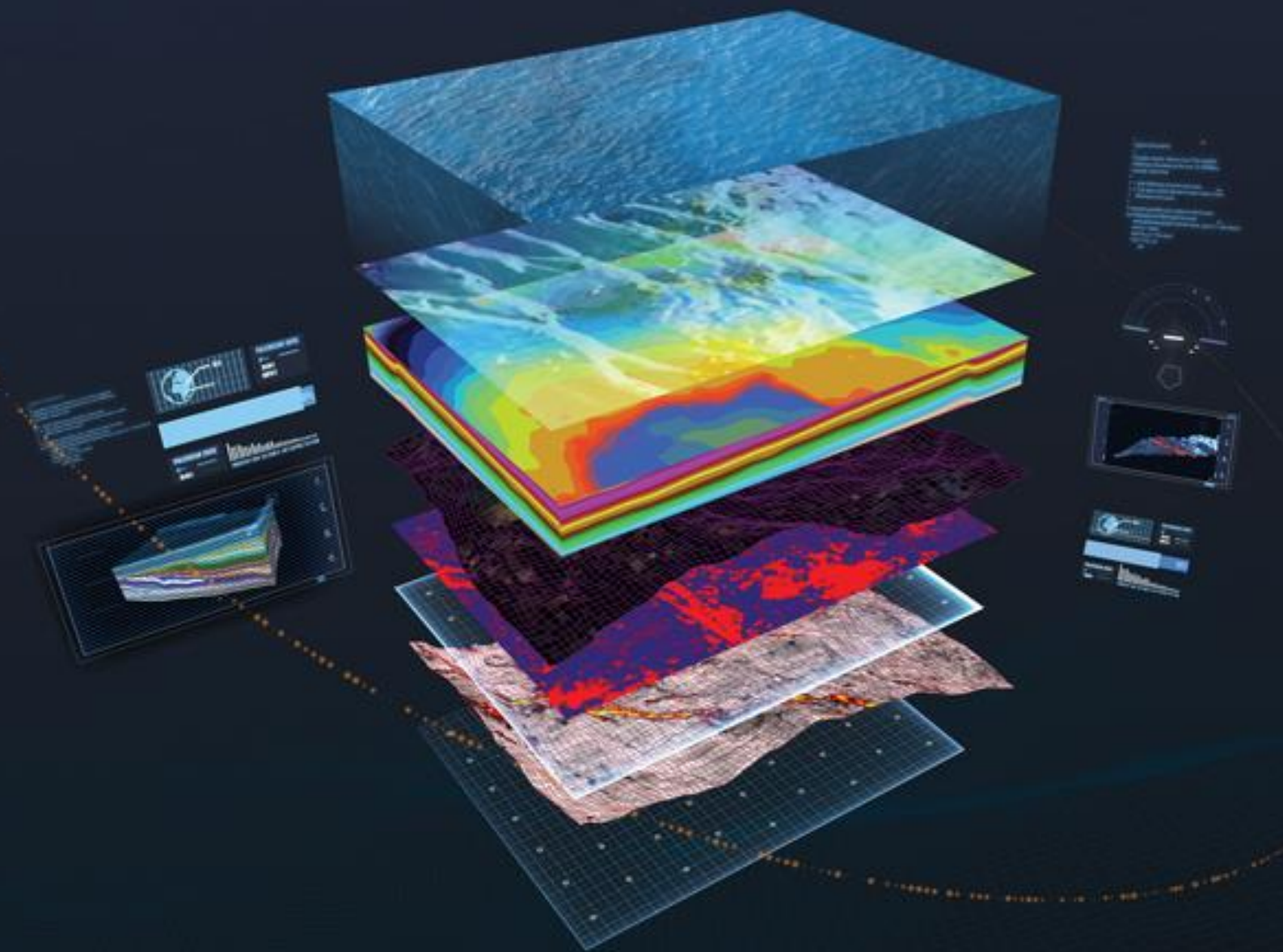


# PALEOSCAN™ 2020

## Patch Notes



*PaleoScan 2020.1.8*

Global Seismic Interpretation Software



<b>IMPROVEMENTS &amp; FIXED BUGS/BEHAVIOURS version 2020.1.8</b>	
<b>2D SEG-Y Import</b>	Implementation of the variable Start Time per trace for 2D Seg-y file import
	Fix a bug of undersampling option during the 2D SEG-Y import
	Fix a bug of SRD option during the 2D SEG-Y import
	Fix a bug of Spatial and Vertical Units at the 2D SEG-Y import
<b>Log Import</b>	Fix a crash when importing LAS file in WRAP mode
<b>3D SEG-Y Import</b>	Fix a bug of ZOI values restoration
	Fix a bug related to the file header size preventing the export process and locking the exported file
<b>Export</b>	Fix of instabilities while exporting objects in folders named with special characters
<b>Platform</b>	New Icon associated to the 2D SEG-Y export
	The opened windows are now closed while switching to another PaleoScan™ project
	Fix a bug of renaming obsolete volume and added specific warning message
<b>Window List</b>	Fix a refresh icon issue related to the Lock/Unlock option in the Windows List
<b>Cross Navigation</b>	Fix a bug of vertical domain in the Cross Navigation functionality between 3D viewer and log viewer
<b>2D Line</b>	Fix a bug of Real-time attribute display on 2D Line Set from 3D view
	Fix a bug and an instability about the Data Mapping on 2D Line when the units of input volume are different as the 2D Line
<b>2D Line Set</b>	Fix a bug of unrefreshed Survey Properties when modifying Z Sampling (2D Line set and 2D Model-Grid horizon viewer)
<b>2D Line Conditioning</b>	Improved Vertical parameter of the 2D Line Conditioning tool
<b>Attribute</b>	Improved Elimination 3D attribute to better consider the Fault width
<b>Attribute Mapping</b>	Fix a bug of attribute mapping on Horizon and Horizon Stack with filters computed using a vertical window
<b>Volume Extraction</b>	Using of units defined in Settings for the vertical extraction
<b>Automatic Fault Extraction (AFE)</b>	Fix a bug of incomplete Fault Extraction from large Fault Thinning input Volumes

<b>Fault</b>	Fix a bug of duplicate fault Detection at Faults opening in 3D
<b>Horizon Stack</b>	Improved stratigraphically Horizon sorting algorithm in the Horizon Stack from Horizons tool
	Fix a crash in the Horizon Stack Creation tool while using an incompatible Volume as displayed volume
<b>Geobody</b>	Improved Geobody creation from superimposed polygons
<b>Well</b>	Fix a bug of well display in 3D viewer for negative TVDSS
<b>Domain Conversion</b>	Fix several bugs of well, logs and markers intersections due to vertical domain conversion
<b>GeoCellular Grid</b>	Fix a bug of units in the Unit/CRS Editor while importing a GeoCellular Grid with not recognized unit

<b>IMPROVEMENTS &amp; FIXED BUGS/BEHAVIOURS version 2020.1.7</b>	
<b>Import</b>	Fix of bug after importing a Seg-y where the seg-y file remained opened
	Fix of bug affecting the parameters applied to all inputs while importing multi-Seg-y
	Fix of instability at the shapefile import
	Fix of bug related to an undesired error message at the Horizon import without data (without 4th column)
	Fix of bug related to an undesired error message at the Gocad Horizon import
	Fix of bug at the seg-y import using the Vertical undersampling option
<b>Export</b>	Fix of crash while exporting outputs in folders containing forbidden characters
<b>Sessions</b>	Fix of instability related to the 2D line at the session opening
	Fix of instability related to the Geobody at the session opening
<b>Platform</b>	Fix of instability using the viewer synchronization when closing a synchronized viewer
	Fix of bug related to the Automatic Tile option affecting the 2D and 3D viewers
	Fix of bug related to object saving into created folder in the Project browser
	Fix of bug related to windows icons and 2D Line Set window titles in the Window List
<b>Distance Measure</b>	Fix of bug related to the anchor points of the Distance Measure tool
<b>Calculator</b>	Fix of output issue by using a 3D Model as variable
<b>Blending Viewer</b>	Fix of bug related to the color scale at the 2D line opening in Blending viewers
	Fix of 2D line compatibility issue due to a different vertical resolution at the opening in Blending viewers
	Fix of instability concerning the 3D channels color blending viewers
<b>2D Line Set</b>	Improved 2D line set properties linked to the object size
<b>2D Line</b>	2D Line intersection behavior changed to avoid intersection issue of 2D Lines with different spatial resolution
	Fix of bug related to the vertical resolution of the 2D Line output using the 2D Line Conditioning
<b>2D Line conditioning</b>	Fix of bug related to the vertical resolution of the 2D Line output using the 2D Line Conditioning
<b>Model-Grid</b>	Fix of instability in the Model-grid while using the Auto-propagation option

<b>Horizon</b>	Fix of bug losing mapped data after assigning a survey to a horizon
<b>Horizon Stack</b>	Fix of bug in the Horizon Stack Extraction tool where mapped data were lost after using the extraction tool
<b>Fault</b>	Improved Undo/redo action after using the fault split and merge options
	Fix of bug related to the picking preview while erasing picked points from attribute window
<b>2D Fault</b>	2D Fault picking optimization
<b>Automatic Fault Extraction (AFE)</b>	Improved tooltip associated to the stereonet in the Fault Plane attribute interface
<b>Log Viewer</b>	Fix of bug related to the Baseline in log template
	Fix of bug related to the log sampling type in log template
	Fix of display bug related to the Status bar associated to the log viewer
	Cross Navigation management from log viewer using the TVDSS as vertical scale
	Fix of bug avoiding the display of log composed of negative TVDSS values in log viewer
	Fix of bug concerning the objects intersection in log viewer while using the TVDSS vertical scale of the viewer
	Fix of bug related to the marker picking from the log viewer while using the TVDSS vertical scale of the viewer
	Fix of crash while customizing a Log with a Log Area while using the TVDSS vertical scale of the viewer
<b>Well</b>	Improved behavior at the well data import to better manage the well trajectory
	Improved behavior of created well opening without any associated data
	Fix of instabilities while using the Log Composite tool
	Fix of instabilities while using the Log Composite tool
	Fix of bug related to the well assignment while importing well data from an existing well
	Fix of bug related to the logs min and Max after deleting logs from the well data base
	Fix of bug in the well marker names where spaces were considered as special characters
<b>Advanced Interpretation</b>	fix of bug related to the volume input color scale in the Strati viewer
	Fix of bug associated to the 2D Model input while opening a 2D sequence in the Strati Viewer

<b>Cross Plot</b>	Fix of instability related to the classes of the Cross Plot tool
	Improved data classification method using low amplitude values
<b>Deterministic Inversion</b>	Fix of bug related to the inversion using the recursive method
<b>Velocity Modeling</b>	Fix of velocity ribbon bug
<b>GeoCellular Grid</b>	Fix of keyword issue at the Geocellular Grid import/export
	Fix of bug related to the Geocellular Faults using the Geocellular Grid Extraction tool
	Improved the cancel action while opening Geocellular Grid containing faults
<b>Python</b>	Fix a crash in Python module while deleting a python package

### IMPROVEMENTS & FIXED BUGS/BEHAVIOURS version 2020.1.6

<b>Well Data import</b>	Added LAS 3.0 format at the Log import into PaleoScan™, including support for: <ul style="list-style-type: none"> <li>• Multiple log sets</li> <li>• Multiple marker sets</li> <li>• Well trajectory</li> <li>• KB elevation</li> <li>• X and Y coordinates</li> </ul>
	Improved detection of foot units while importing LAS files
	Add management of KB during import of 2.0 LAS files
<b>Platform</b>	Fix of bug related to object names display in all viewers
	Fix of bug related to the 3D object saving, when saving as 3D Polyline was inappropriately proposed
<b>Session</b>	Fix instability at project opening when using sessions
<b>Export</b>	Improved progress bar during SEG-Y export
<b>Calculator</b>	Fix of crash occurring when using logs as variable inside the Calculator
	Fix of crash occurring when using the preview with two volumes as inputs
<b>Attribute</b>	Fix inconsistency in the output folder while under-sampling 2D model or 2D Line Set model
	Fix of CRS bug at GeoModel Attribute computation when project CRS and input CRS were different
	Fix a computation issue for attributes with a computation window
	Editable preview size for all attributes
<b>2D Line</b>	Fix CRS bugs while using Vertical and Spatial splitting options of the 2D Line Conditioning tool

<b>Polyline</b>	Improvement of polyline saving during Arbitrary Line creation by avoiding polyline resampling
<b>Fault</b>	Improved Fault picked points display associated to high resolution data
	Fix a display bug of 2D Faults in 2D Line Viewer with different CRS
	Fix of bug occurring while creating 2D Faults from a 2D Line Viewer using a different CRS from the project one
<b>Horizon Stack</b>	Improved Horizon cropping during Horizon Stack generation from multiple Horizon Stacks
<b>Model-Grid</b>	Fix a bug making impossible to generate a 3D Model-Grid while using an input file bigger than the RAM
	Fix of bug related to the vertical boundaries of 3D Model-Grid creation. Horizons used as vertical boundaries were ignored
	Fix of crash that could occur during 3D Model-Grid creation
<b>Well</b>	Fix instabilities caused by Log data deletion
	Added an automatic trajectory creation during log import if no trajectory exists inside the Well allowing visualization of logs in the Log Viewer
<b>Well Editor</b>	Fix a bug related to the TVD start which was not used for deviation of type Incl/Azimuth
<b>Log Viewer</b>	Fix a bug related to the MDTVD/TVDSS/TWT values in the status bar of the Log Viewer
<b>Wavelet</b>	Fix a bug related to the Lag Time info message at Deterministic Wavelet creation
<b>GeoCellular Grid</b>	Fix a crash occurring when canceling the GeoCellular Grid opening
<b>Strati</b>	Fix a crash occurring when opening a 3D Strati Sequence inside a 2D Strati viewer when the arbitrary line was missing
<b>Cross Plot</b>	Fix a bug concerning loading, visualization and editing of saved classes
	Fix a bug related to the editing of classes created with the fixed rectangle mouse mode
<b>Watertight Model</b>	Data mapping action removed for Allan diagram
<b>Reservoir</b>	Fix a crash that could occur when dropping an input volume inside the Deterministic Inversion tool
	Fix a computation bug in the Deterministic Inversion tool causing a phase shift on the generated output

### IMPROVEMENTS & FIXED BUGS/BEHAVIOURS version 2020.1.5

<b>Data Access</b>	Improved volume and Horizon Stack reading/writing through instable network
<b>OpenWorks® Connector</b>	MD and TVDSS depth types added to the Well deviation import into PaleoScan™
<b>SEG-Y</b>	Fix of instability while importing a 3D SEG-Y after adjusting the import options
<b>Isochore</b>	Fix of bug related to the Isochore map computation

<b>FIXED BUGS/BEHAVIOURS version 2020.1.4</b>	
<b>Settings</b>	Unlimited Number of Threads used for computation
<b>SEG-Y</b>	Improved 2D/3D SEG-Y import with low resolution
<b>Color Bar</b>	Fix NaN value management in color bar
	Fix of bug related to the Color Bar in Volume blending viewer
<b>Model-Grid</b>	Model-Grid creation file access optimization
<b>Geo-Model</b>	Classic Geo-Model creation file access optimization
	Fix of bug when loading several inputs in the 3D Geo-Model computation from Horizon Stacks
	Fix of bug while including horizon inputs before selecting the volume input (Geo-Model from Horizons)
<b>Horizon</b>	Fix of bug related to the time map while editing a horizon
<b>Horizon Stack</b>	Horizon Stack creation file access optimization
	Fix of CRS bug assigned to the output of the Horizon Stack Creation tool from Horizons
<b>Culture</b>	Fix of bug related to the Culture saving
<b>GeoTIFF</b>	Fix of crash while saving Horizon as GeoTIFF containing Forbidden characters
<b>Calculator</b>	Fix of bug related to 2D Line input in the Calculator
<b>2D Line</b>	Improved 2D Line intersections display in the viewers
<b>Strati</b>	Fix of bug related to the overlay in the Strati viewer
<b>GeoCellular</b>	Fix of infinite loading when opening a GeoCellular Model in 3D view
<b>Well</b>	TVDSS scale has been added in Log Viewer
	Improved progress bar in Well/Log table
	Fix of bug while creating TWT/Depth logs without log set
	Fix of bug related to the well names display in the Arbitrary Lines along Wells interface
	Fix of crash in Well/Log Table after deleting T-D relationship and switching CRS
	Fix bug deleting Deviation when importing a Time-Depth Relationship
<b>Python</b>	Correction in the Fault Set script in the Python documentation
	Fix the PaleoScan version number in Python
	Fix of crash while adding attributes in PaleoScan using the Python editor



**FIXED BUGS/BEHAVIOURS version 2020.1.3**

<b>Well</b>	Fix of bug affecting minimum curvature (dip/azimuth) deviation
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**FIXED BUGS/BEHAVIOURS version 2020.1.2**

<b>Well</b>	Fix of bug related to the CRS and the trajectory of wells
	Fix of bug affecting minimum curvature (dip/azimuth) deviation
<b>Ghost</b>	Fix of crash while using the ghost tool on color blending viewer
<b>Domain Conversion</b>	Fix of bug while generating the XL volume of a converted volume
	Fix of bug while using the domain conversion using the foot unit
<b>Horizon</b>	Fix of bug associated to the manual horizon picking mode where all points remained connected
<b>3D Sculpted Cube</b>	Fix of instabilities while using the 3D Sculpted Cube tool
<b>GeoTIFF</b>	Fix of crash while including special characters in the GeoTIFF saving
<b>3D Viewer</b>	Fix of instability in the 3D Object list

**FIXED BUGS/BEHAVIOURS version 2020.1.1**

<b>Import</b>	Fix of crash in 2D Line import process using CRS option for multi inputs.
	Fix of RAM issue while importing Seg-y data.
<b>CRS</b>	Fix of bug related to the CRS creation from some WKT definitions.
<b>Ghost tool</b>	Fix of bug related to the Ghost tool used on 2D Lines.
<b>3D Viewer</b>	Fix of bug associated to the 3D Viewer vertical domain selection.
<b>3D Cube</b>	Fix of issue related to the anchor points of a 3D Cube.
<b>3D Sculpted Cube</b>	Fix of issue using the 3D Sculpted Cube tool with specific horizon as input.
<b>Model-Grid</b>	Fix of instability in the patch erasing while using the undo option.
	Fix of bug related to the 2D horizon area in the 2D Model-Grid environment.
<b>AFE</b>	Added decimal to the Minimum Thinning Value while extracting faults for a better control of this parameter.
<b>Calculator</b>	Fix of bug associated to the functions applied with 2D Lines variables.
	Fix of bug related to 2D Line variable using the viewer synchronization option.
<b>Horizon Stack</b>	Fix of Cross navigation issue while generating a Horizon Stack from Horizons.
<b>Horizon</b>	Fix of issue in Horizon Truncation tool using specific horizon as input.

<b>Horizon</b>	GRV tool Improvement: <ul style="list-style-type: none"> <li>- Added column in the GRV table corresponding to the Volume computed for each Z vs the cumulative volume.</li> <li>- Improved exported CSV file.</li> </ul>
<b>Deterministic Inversion</b>	Fix of bug related to inputs with different survey.
<b>Well</b>	Fix of instability while adding well markers to the seismic display.
	Fix of bug related to the TVD Start value in the Well Editor.
	Fix of bugs in the TWT and Depth logs creation tool: <ul style="list-style-type: none"> <li>- From wells without Time-Depth Relationship,</li> <li>- From wells with Log Set and deviation defined in different units.</li> </ul>
<b>Well-Tie</b>	Fix of bug in the Well-Tie process after assigning invalid T-D relationship.

<b>Domain Conversion</b>	Fix of bug of the conversion of Model-Grid horizons.
	Improved formulas display in the Velocity Modeling interface.
	Fix of bug linked to the spatial resolution of the different inputs.
	Fix of bug while using the domain conversion using the foot unit.

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