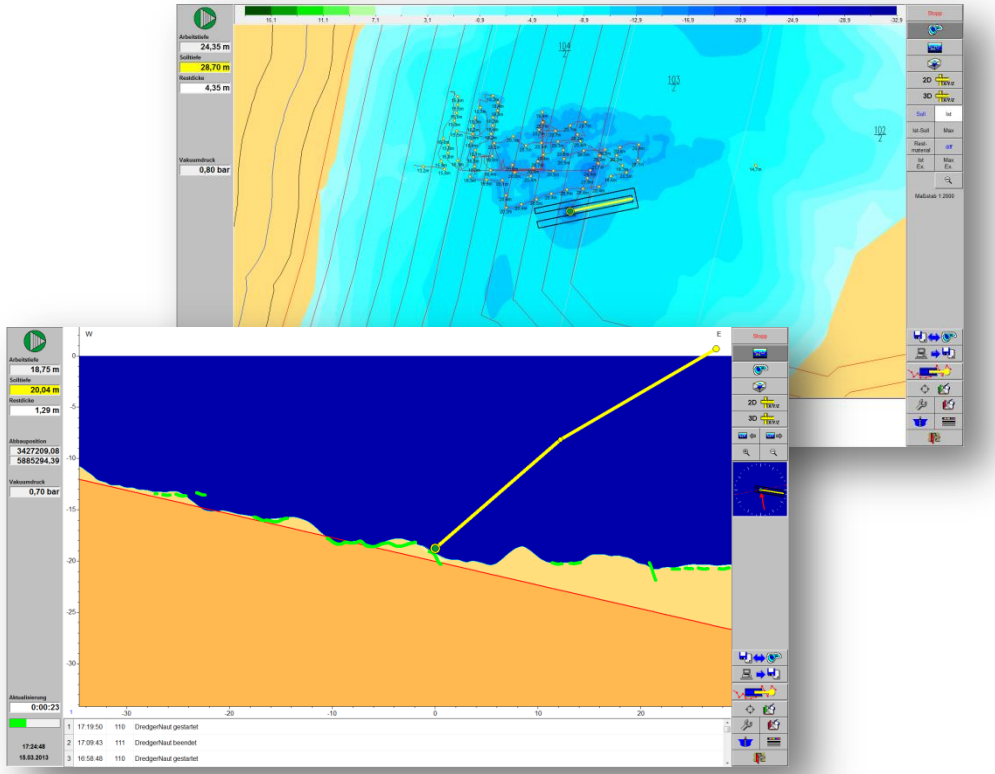
DredgerNaut

DXF-export (Isolines)

Technical brief



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1 Introduction

DredgerNaut is a measuring and visualization system for the positioning of dredgers and the continuous documentation of mining operations in sand and gravel mines.

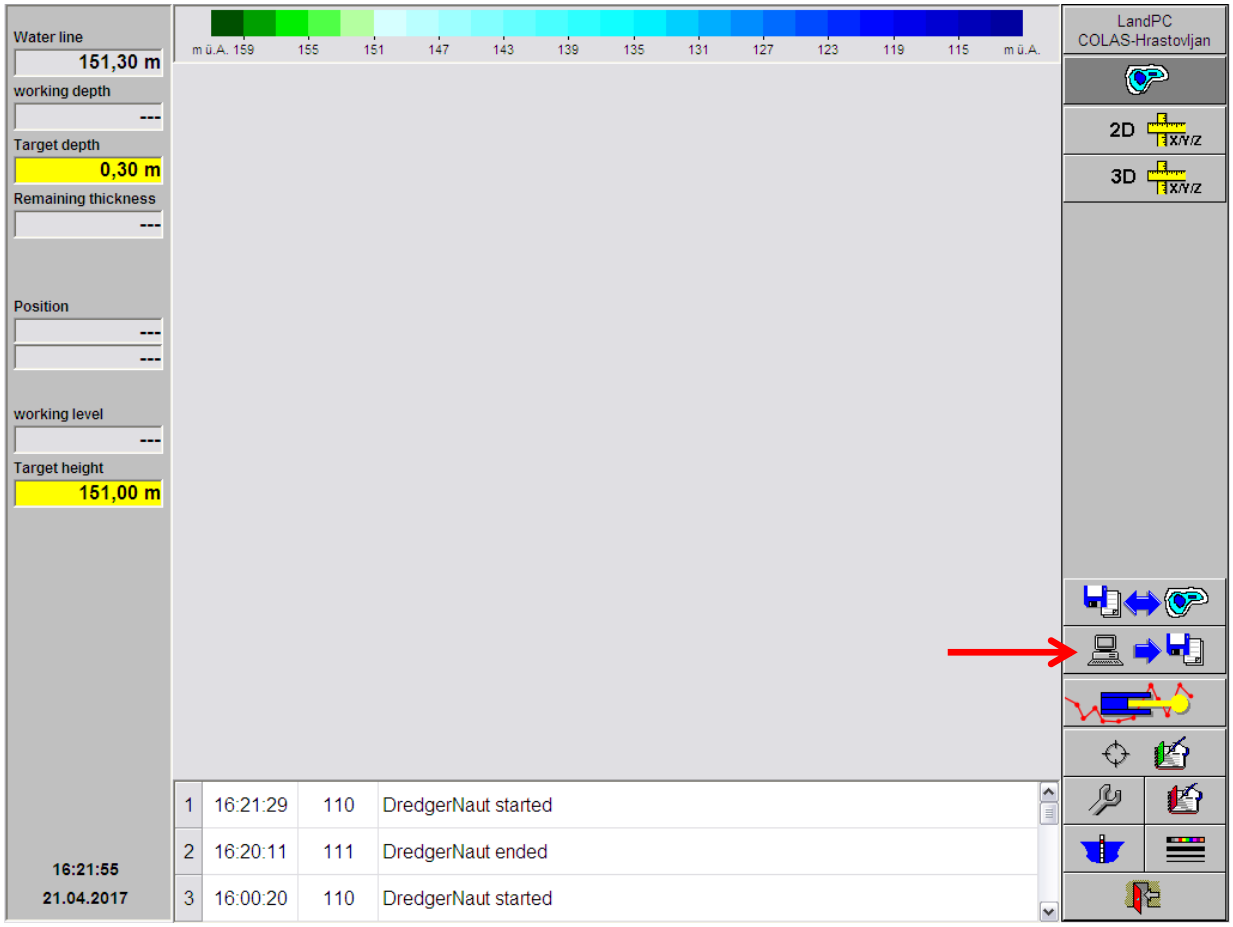
This technical brief contains explanations how to use the ***Isolines*** or ***DXF-export*** function.

DXF (Drawing Interchange Format, or Drawing Exchange Format) is a CAD data file format developed by Autodesk for enabling data interoperability between AutoCAD and other programs.

In **DredgerNaut** this file format is used to export isolines, i.e. lines connecting points of the same depth, to share that data with the surveyor.

2 Go to ‚Documentation functions‘

The ***DXF-export*** is part of the Documentation functions, so you have to select the marked icon on the main screen first.

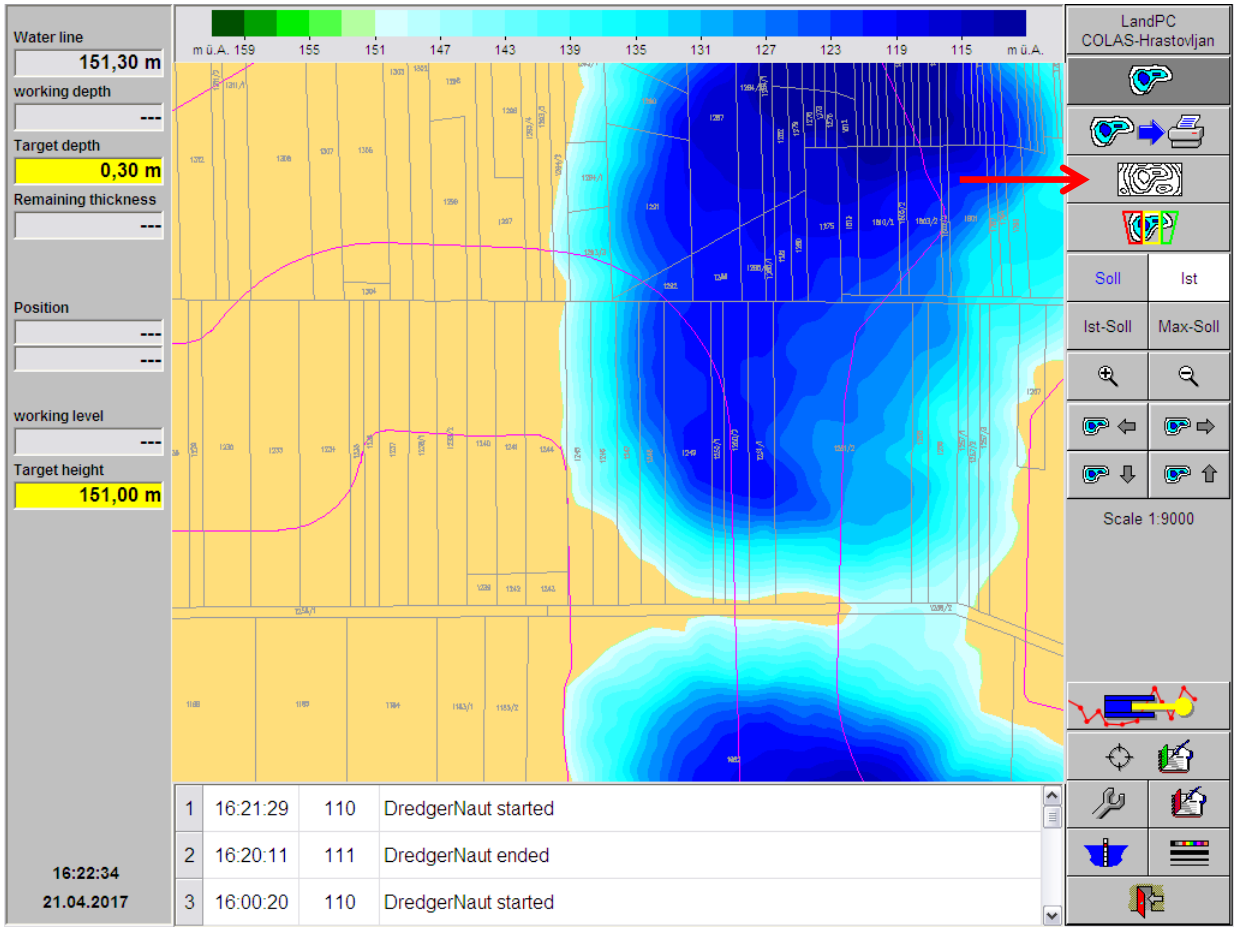


3 Menu ‚Documentation functions‘

The buttons in the upper right hand corner change to present the following Documentation functions: (from top to bottom)

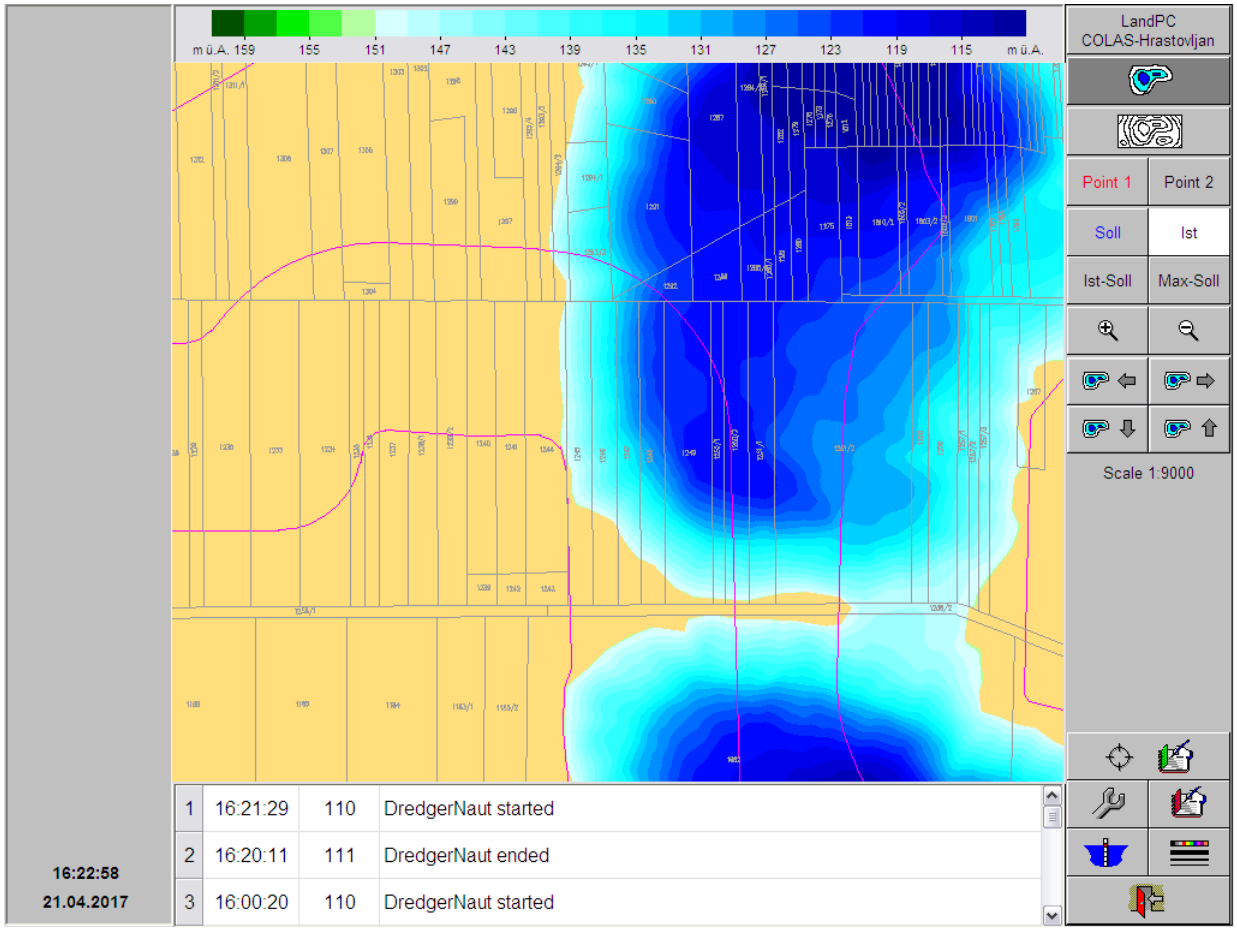
- ***Print***
- ***Isolines (DXF-export)***
- ***Plot***

Select ***Isolines (DXF-export)*** by pressing the marked button.



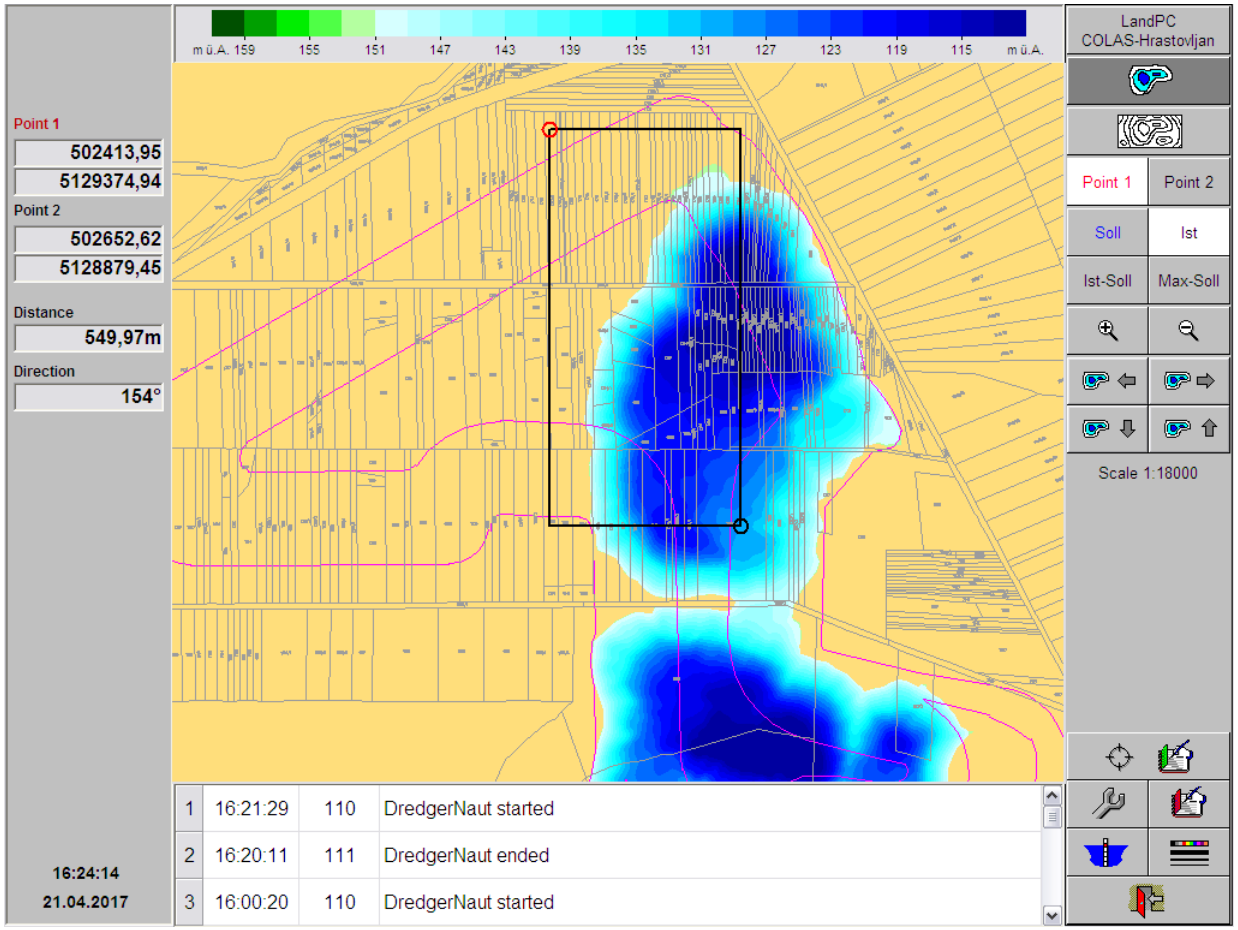
4 Isolines (DXF-export)

The buttons in the upper right hand corner change again, you are presented with two buttons named ***Point 1*** and ***Point 2***, used to select the area (rectangle) to export.



5 Selecting an area, Point 1

Select button ***Point 1*** and the last used rectangle will be redrawn on the map. Click anywhere onto the map to set the **red** upper left corner of the rectangle to that position.



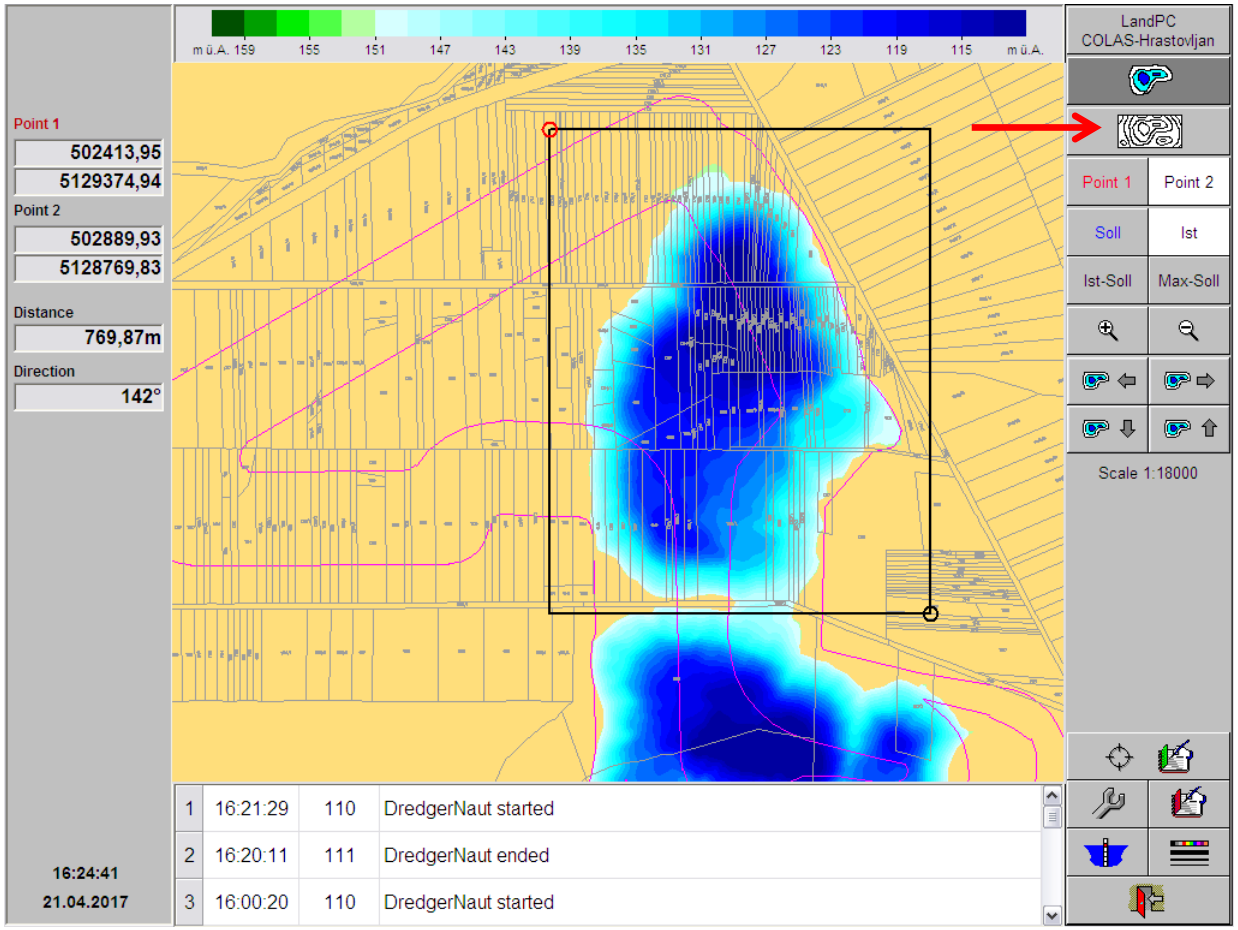
6 Selecting an area, Point 2

Next, select button ***Point 2*** and click onto the map where you want to position the **black** lower right corner of the rectangle.

Every new click will move the currently selected point to that position. Using ***Point 1*** and ***Point 2*** you can reposition the rectangle corners as often as you like.

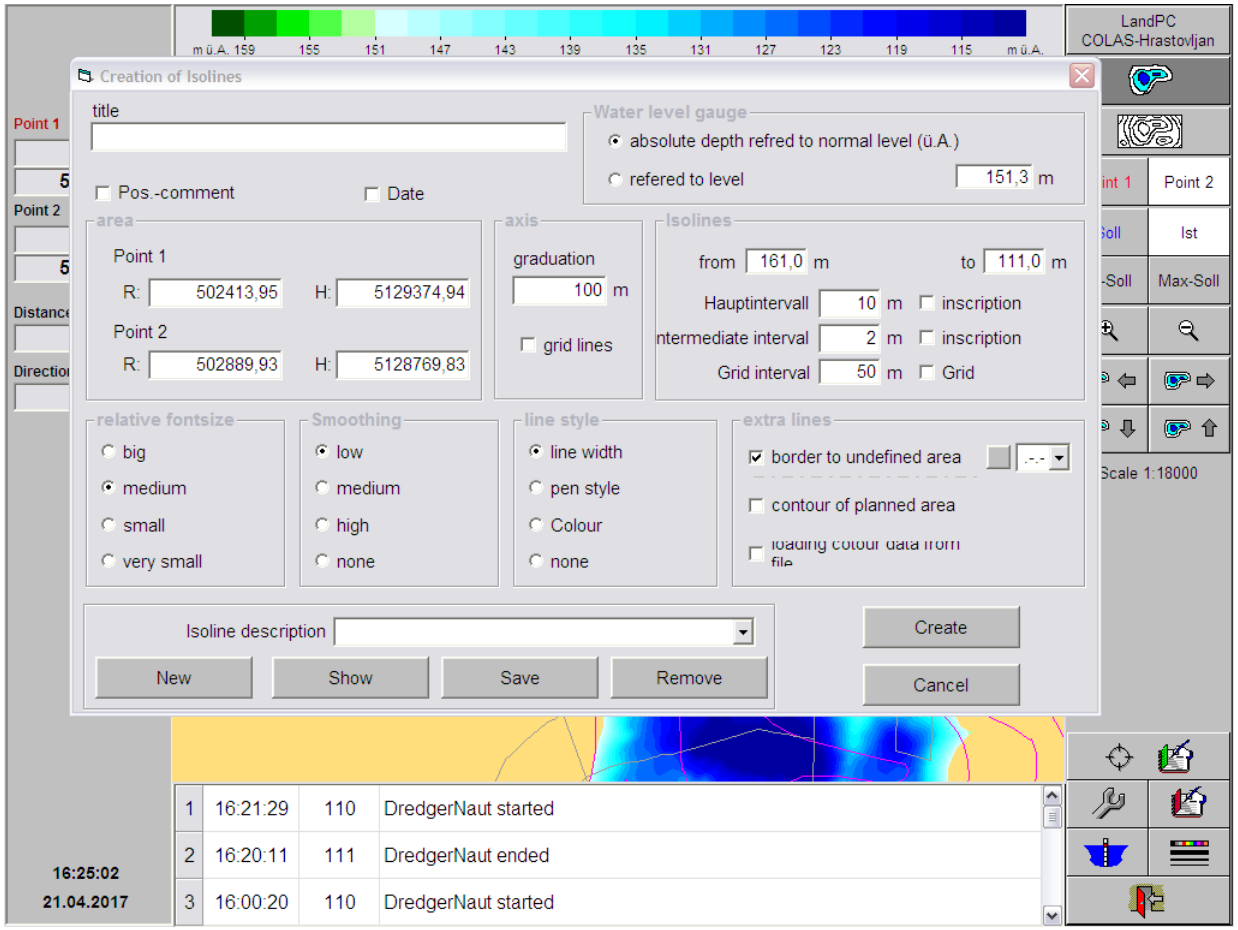
In our example, the whole upper lake area was chosen.

When finished positioning the rectangle click the ***Isolines (DXF-export)*** button again.



7 Export parameters

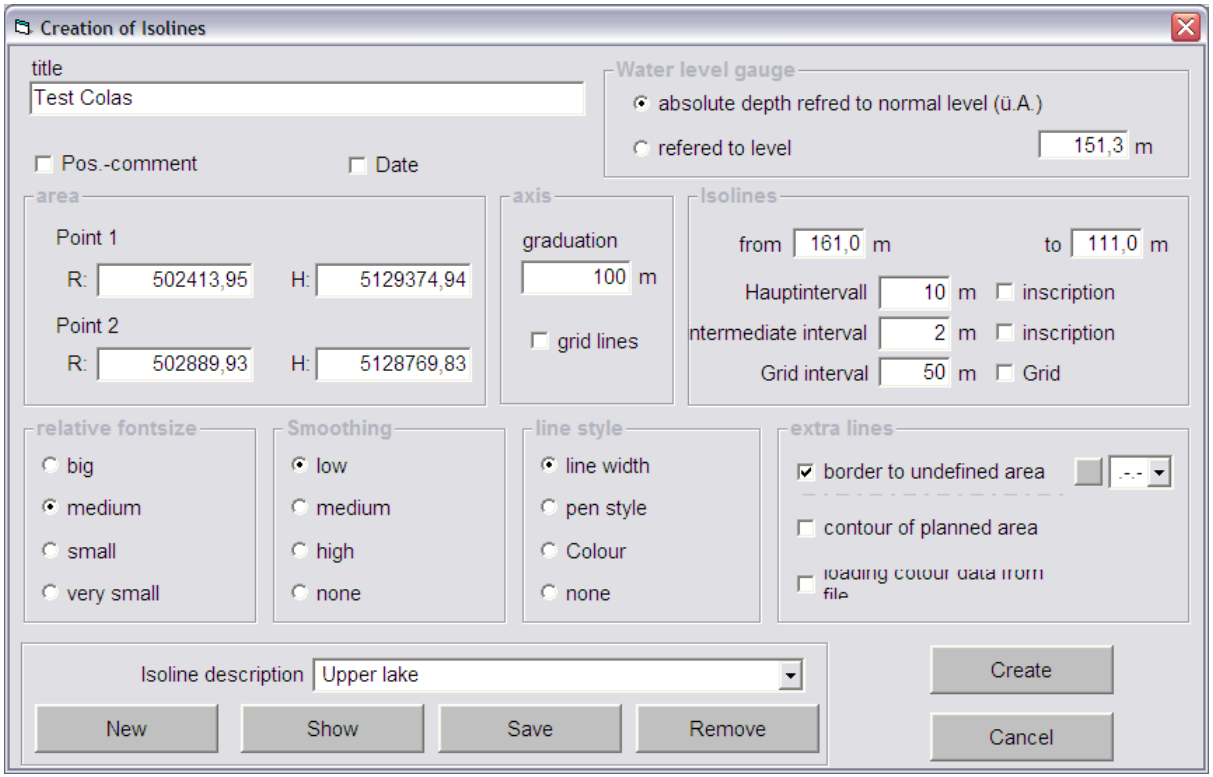
In the window presented several parameters for the export can be set or changed.



8 Export parameters (example)

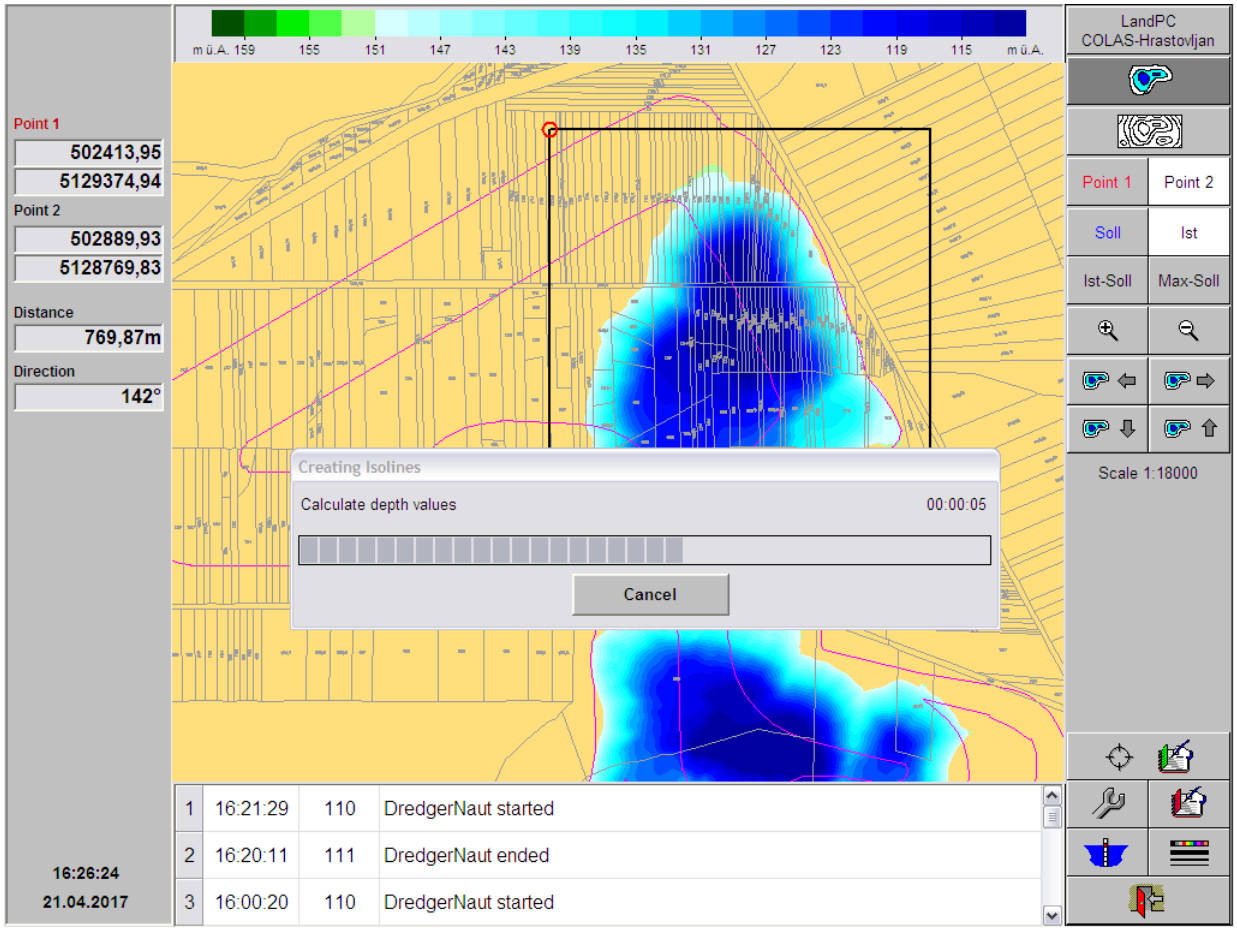
Normally you will only have to enter a ‘title’ (top left) and a description (bottom middle).

When all parameters are set click the ***Create*** button (right bottom corner)



9 Creating Isolines display

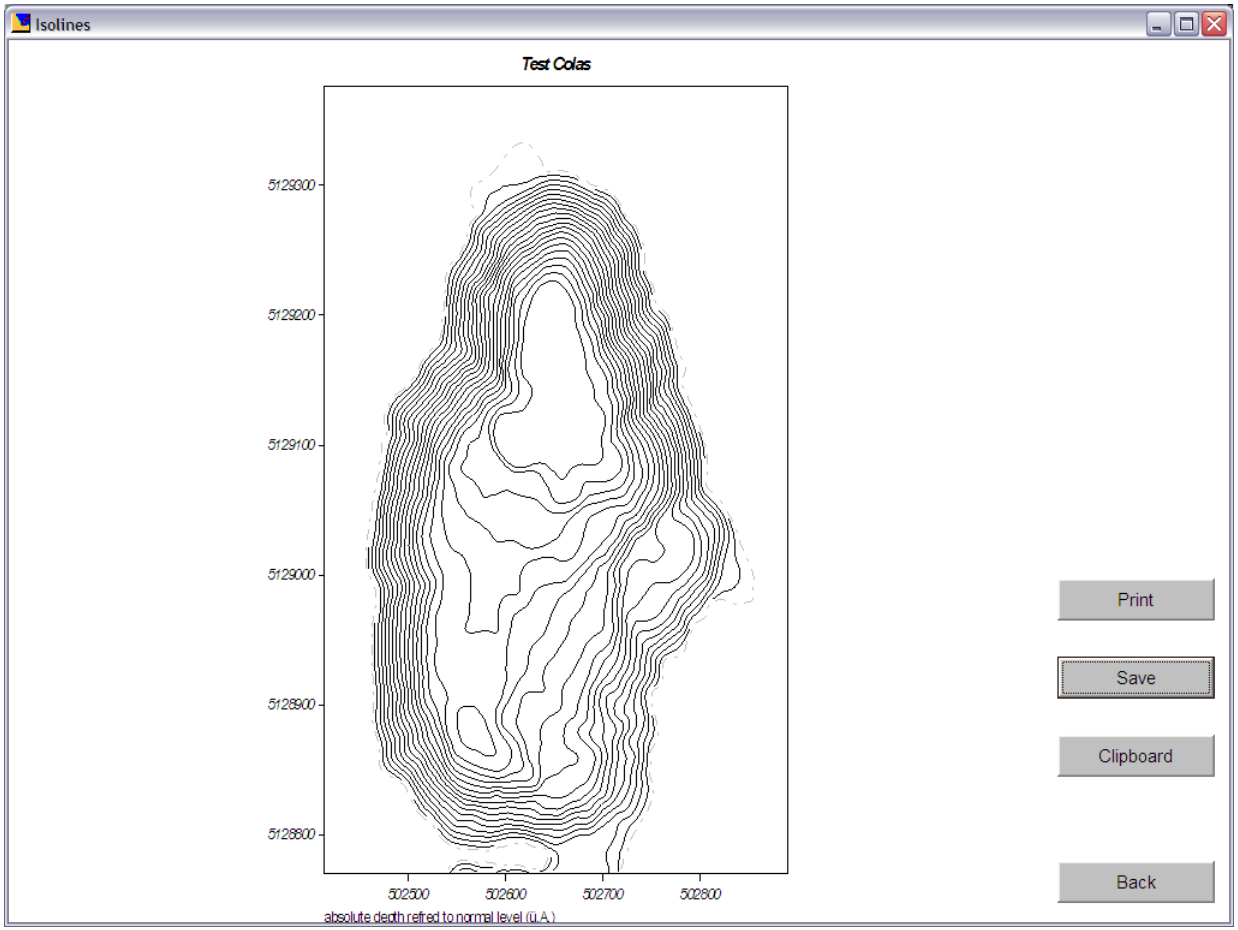
While the Isolines display is being created you will be shown a progress bar



10 Isolines display

The result is shown as a black-and-white depiction of the Isolines in the selected area. Using the buttons here the graphic can then be printed, saved to a file in DXF format (export) or transferred to the clipboard to be used by another program.

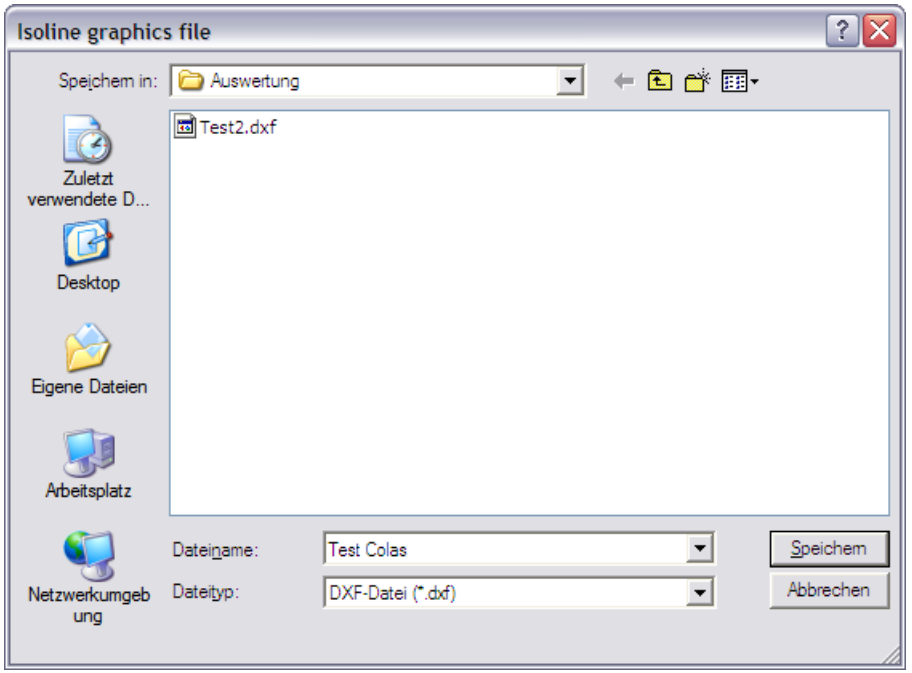
As we are talking ***DXF-export*** here, we will send the data to a file using the ***Save*** button.

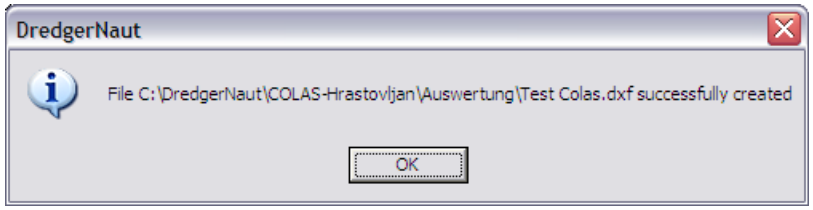


11 Saving to a DXF-file

After clicking the ***Save*** button a standard dialogue from Windows will appear to select the location the file will be saved to.

A second dialogue window will confirm that the file was saved succesfully.





12 Finished

After you have acknowledged the above ‘success’ dialogue you are back to the map display.

As usual use the button with the ‘***red door***’ in the lower right hand corner repeatedly to return to the desired level in **DredgerNaut**.