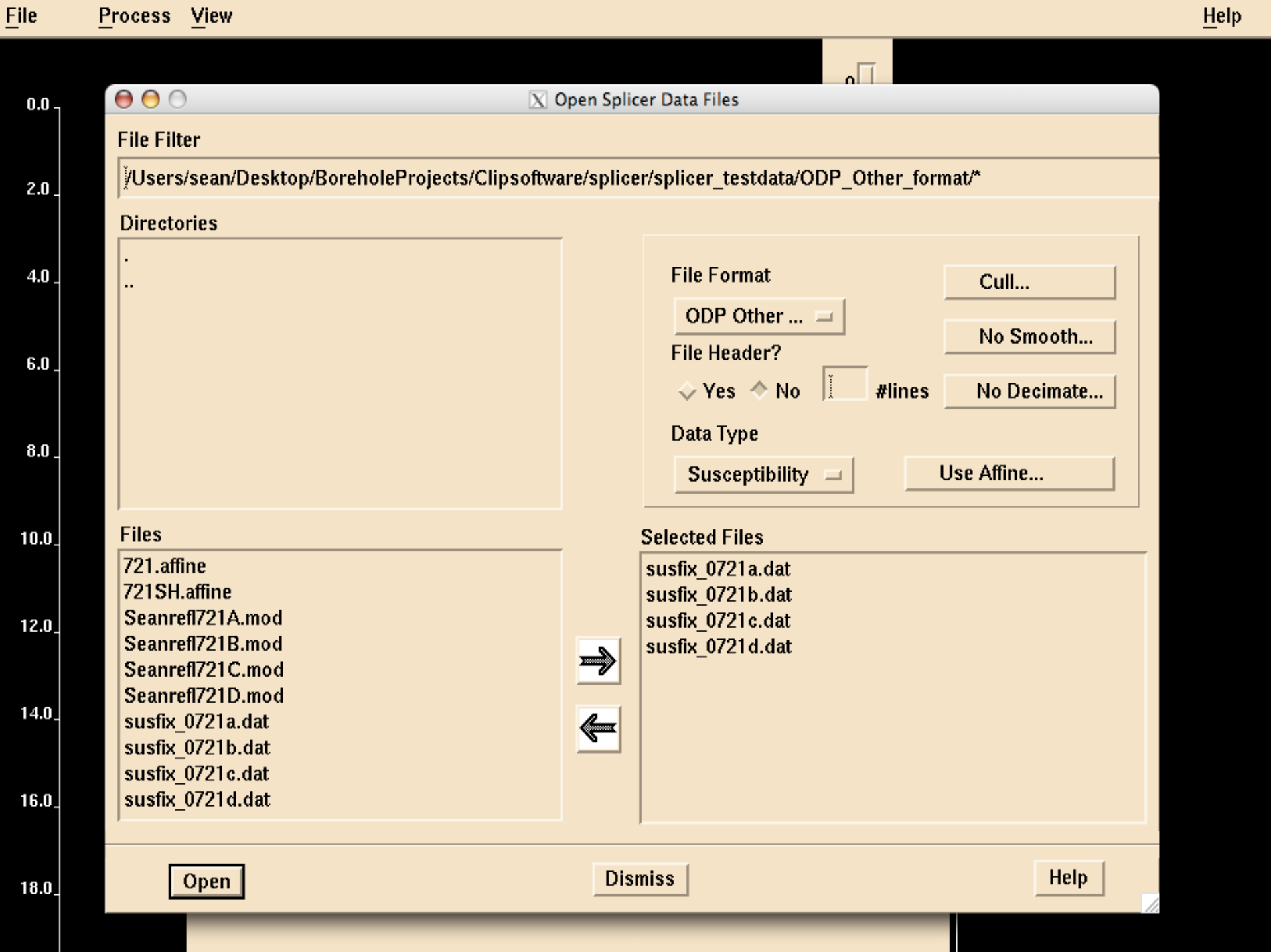
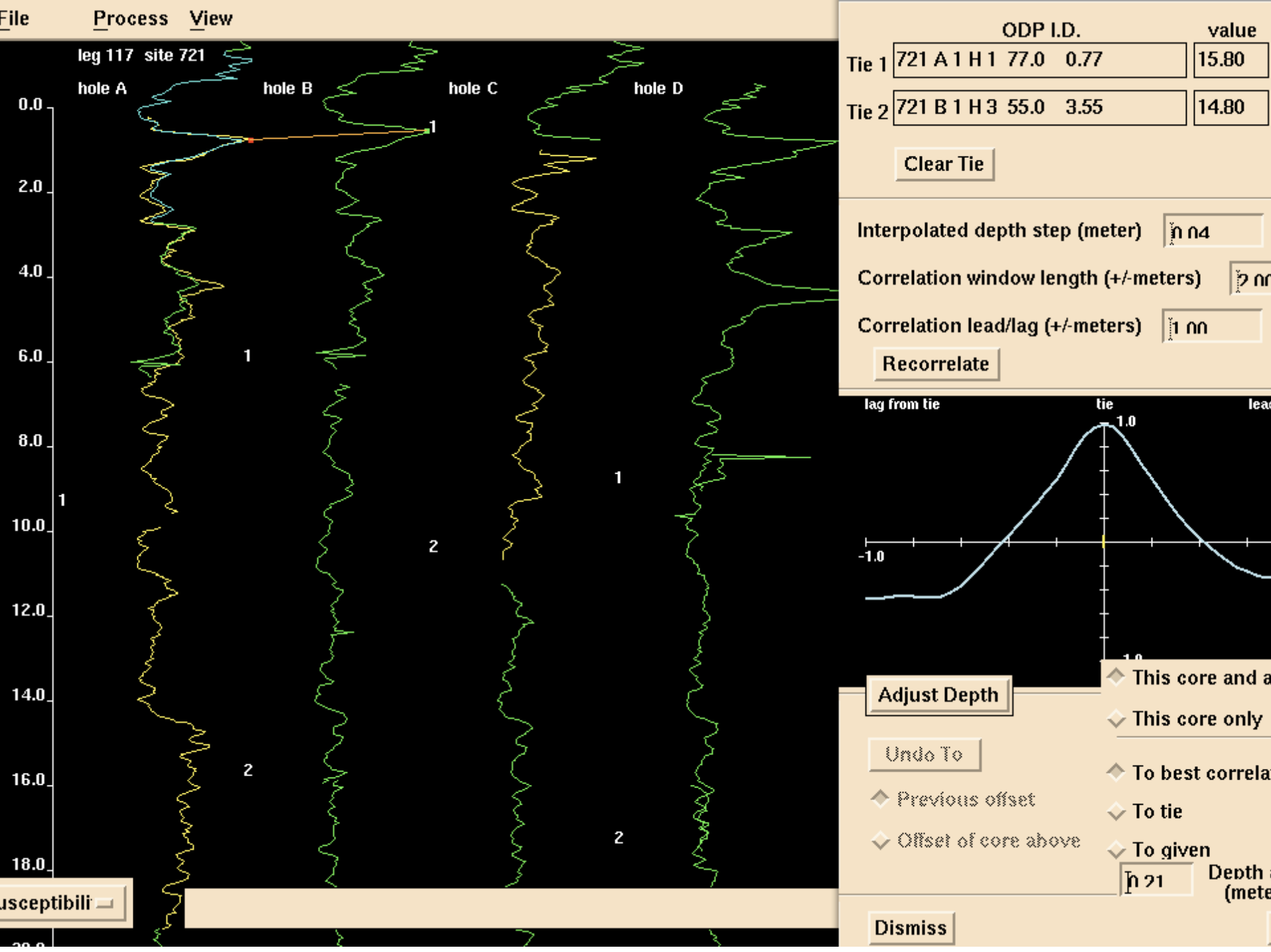
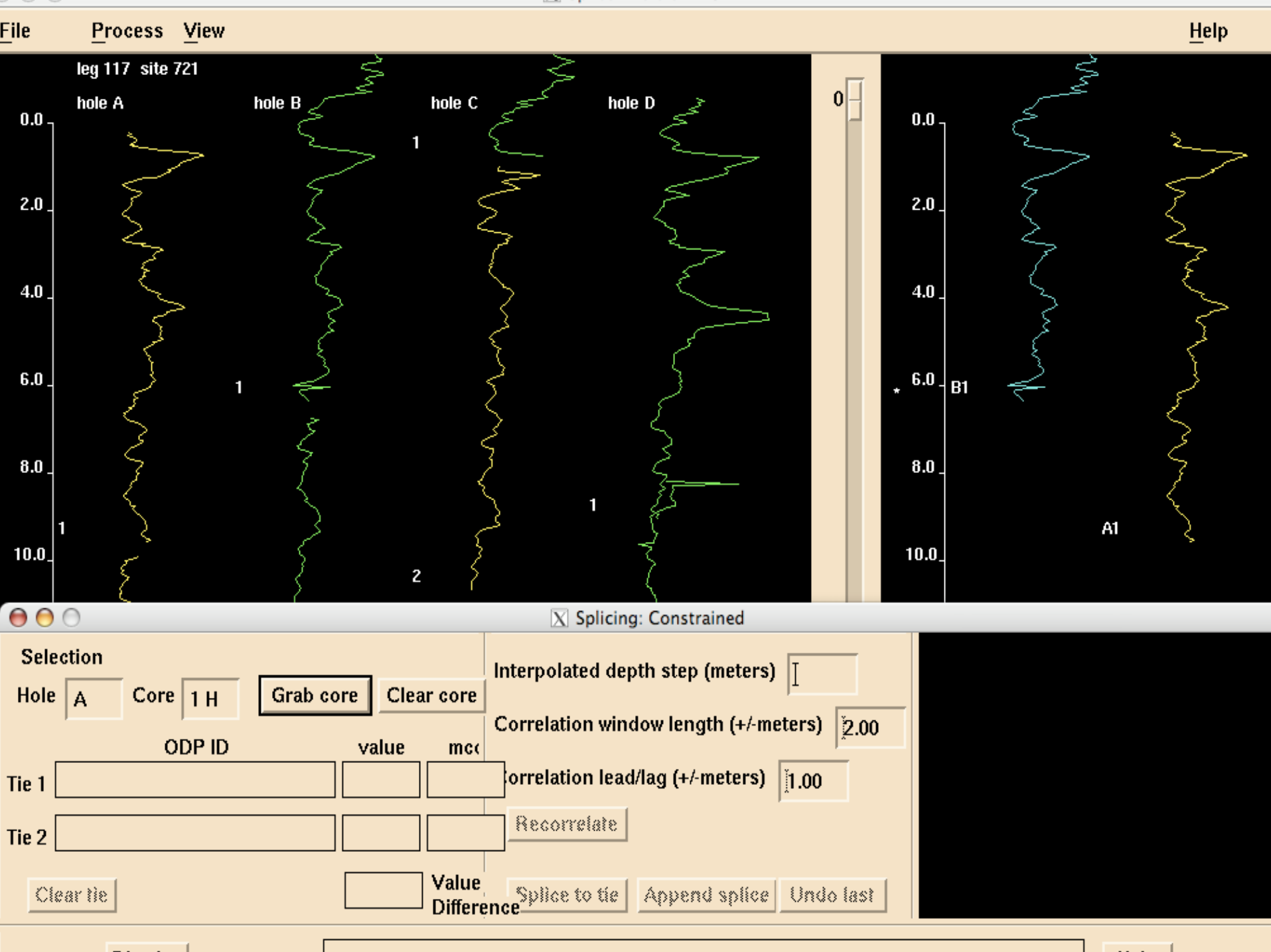
INTRODUCTION
SPLICER and SAGAN

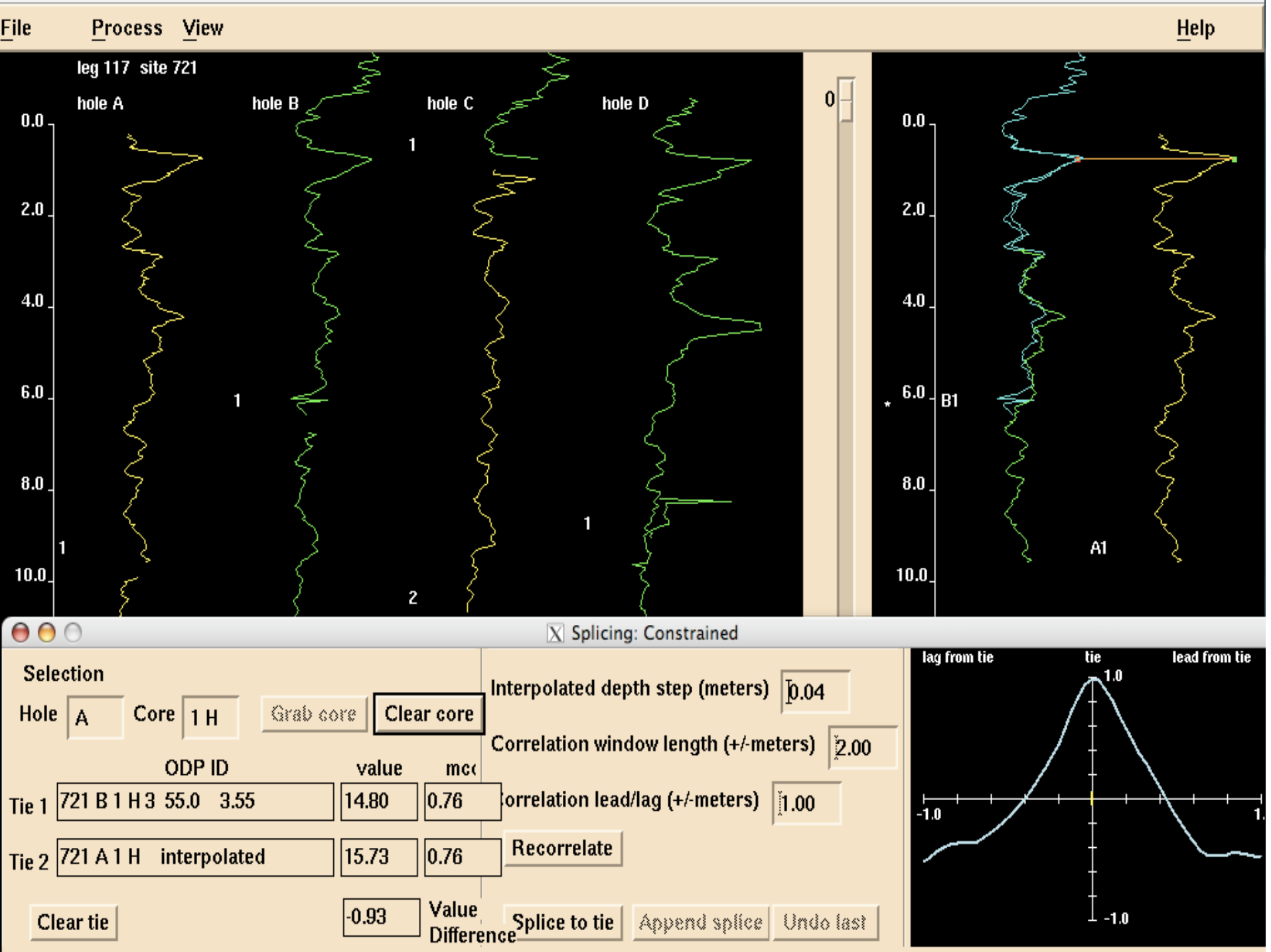
SPLICER Features

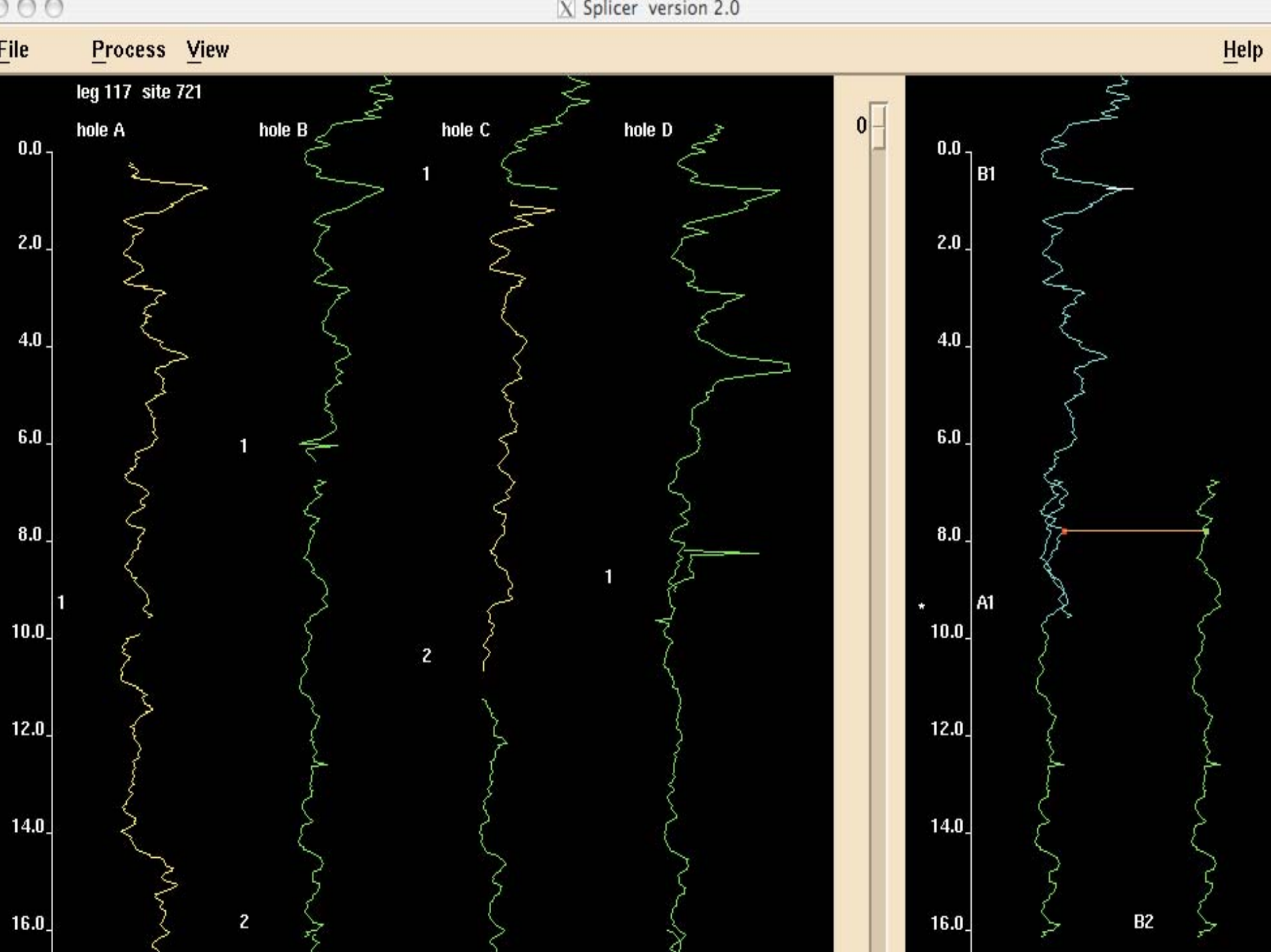
- Allows comparison of multiple data types from multiple holes.
- “Stratigraphic correlator” can create a continuous sediment section by "splicing" overlapping cores from multiple holes.
- Outputs data on this new composite depth scale (mcd) as well as mbsf.
- Outputs a continuous "spliced" record for further analysis and to allow sampling that “follows the splice”.
- The “spliced” record can be tied to reference data such as downhole logging data in SAGAN to account for core expansion or to create time series via insolation or isotope curves, etc..

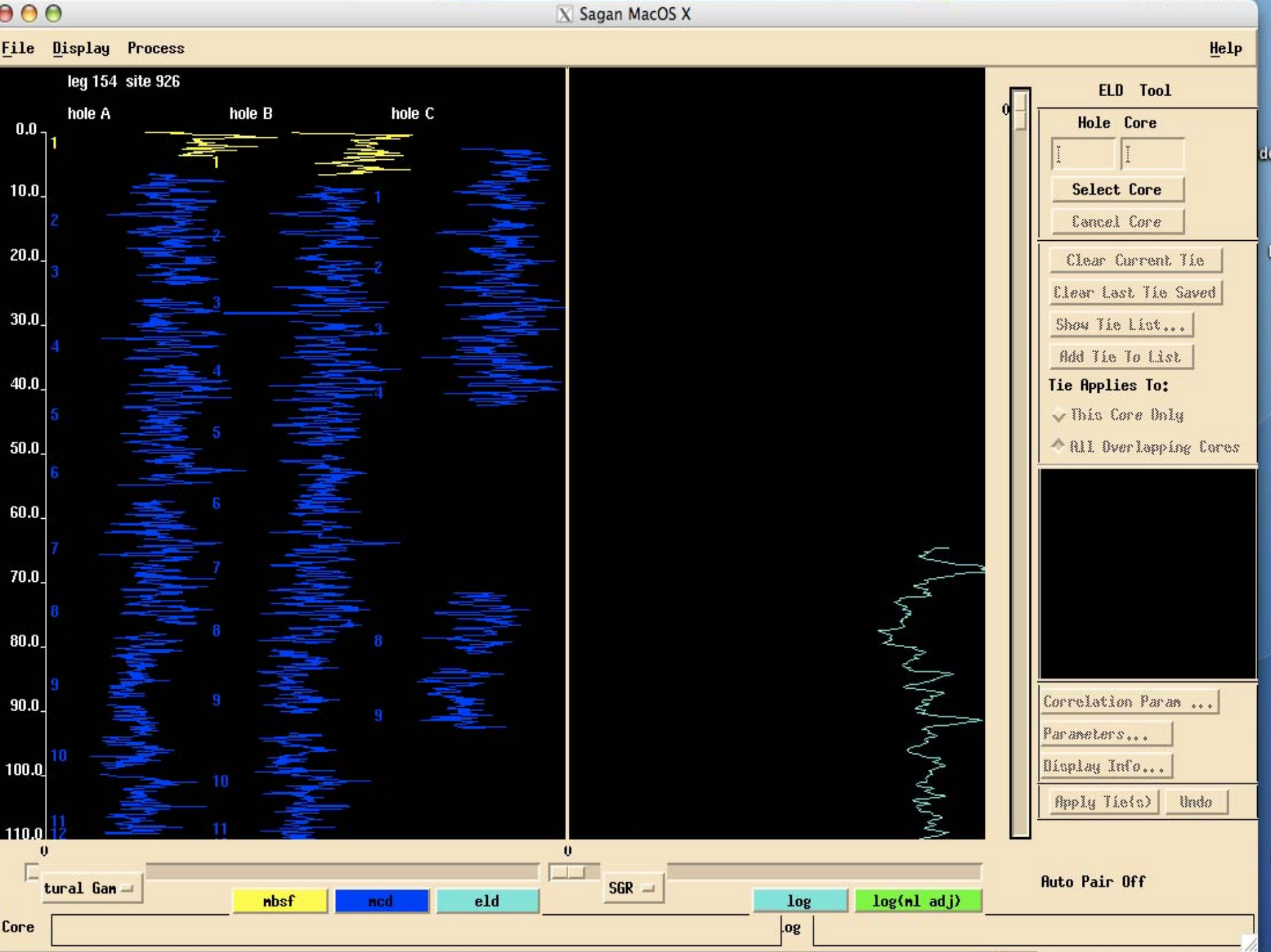

File
Process
View
Help
0.0
2.0
4.0
6.0
8.0
10.0
12.0
14.0
16.0
18.0
Open Splicer Data Files
File Filter
/Users/sean/Desktop/BoreholeProjects/Clipsoftware/splicer/splicer_testdata/ODP_Other_format/*
Directories
.
..
File Format
ODP Other ...
File Header?
Yes
No
#lines
Data Type
Susceptibility
Cull...
No Smooth...
No Decimate...
Use Affine...
Files
721.affine
721SH.affine
Seanrefl721A.mod
Seanrefl721B.mod
Seanrefl721C.mod
Seanrefl721D.mod
susfix_0721a.dat
susfix_0721b.dat
susfix_0721c.dat
susfix_0721d.dat
Selected Files
susfix_0721a.dat
susfix_0721b.dat
susfix_0721c.dat
susfix_0721d.dat
Open
Dismiss
Help


File
Process
View
leg 117 site 721
hole A
hole B
hole C
hole D
0.0
2.0
4.0
6.0
8.0
10.0
12.0
14.0
16.0
18.0
ODP I.D.
value
Tie 1
721 A 1 H 1 77.0 0.77
15.80
Tie 2
721 B 1 H 3 55.0 3.55
14.80
Clear Tie
Interpolated depth step (meter)
Correlation window length (+/-meters)
Correlation lead/lag (+/-meters)
Recorrelate
lag from tie
tie
1.0
-1.0
Adjust Depth
This core and a
This core only
Undo To
Previous offset
Offset of core above
To best correla
To tie
To given
Depth
(mete
Dismiss


File
Process
View
Help
leg 117 site 721
hole A
hole B
hole C
hole D
0.0
2.0
4.0
6.0
8.0
10.0
1
2
0
B1
A1
Splicing: Constrained
Selection
Hole
A
Core
1 H
Grab core
Clear core
ODP ID
value
mcd
Tie 1
Tie 2
Clear tie
Value
Difference
Interpolated depth step (meters)
Correlation window length (+/-meters)
2.00
Correlation lead/lag (+/-meters)
1.00
Recorrelate
Splice to tie
Append splice
Undo last


File
Process
View
Help
leg 117 site 721
hole A
hole B
hole C
hole D
0.0
2.0
4.0
6.0
8.0
10.0
1
2
0
B1
A1
Splicing: Constrained
Selection
Hole
A
Core
1 H
Grab core
Clear core
ODP ID
value
mcd
Tie 1
721 B 1 H 3 55.0 3.55
14.80
0.76
Tie 2
721 A 1 H interpolated
15.73
0.76
Clear tie
-0.93
Value Difference
Interpolated depth step (meters)
0.04
Correlation window length (+/-meters)
2.00
Correlation lead/lag (+/-meters)
1.00
Recorrelate
Splice to tie
Append splice
Undo last
lag from tie
tie
lead from tie
1.0
-1.0
-1.0


Splicer version 2.0
File
Process
View
Help
leg 117 site 721
hole A
hole B
hole C
hole D
0.0
2.0
4.0
6.0
8.0
10.0
12.0
14.0
16.0
1
2
B1
A1
B2
*
0


Sagan MacOS X
File
Display
Process
Help
leg 154 site 926
hole A
hole B
hole C
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
110.0
ELD Tool
Hole Core
Select Core
Cancel Core
Clear Current Tie
Clear Last Tie Saved
Show Tie List...
Add Tie To List
Tie Applies To:
This Core Only
All Overlapping Cores
Correlation Paran ...
Parameters...
Display Info...
Apply Tie(s)
Undo
Auto Pair Off
tural Gam
mbsf
mcd
eld
SGR
log
log(ml adj)
Core
log

Core-Log Depth Matching

Sagan MacOS X

Define Preliminary Core-Log Depth Matching Parameters:

Stretch/Compress Core Data Between 95.00 % and 85.00 % at 0.50 % Intervals

Slide Log Up/Down Between -5.10 m and 5.10 m at 0.30 m Intervals

Correlation Depth Step 0.15 (m)

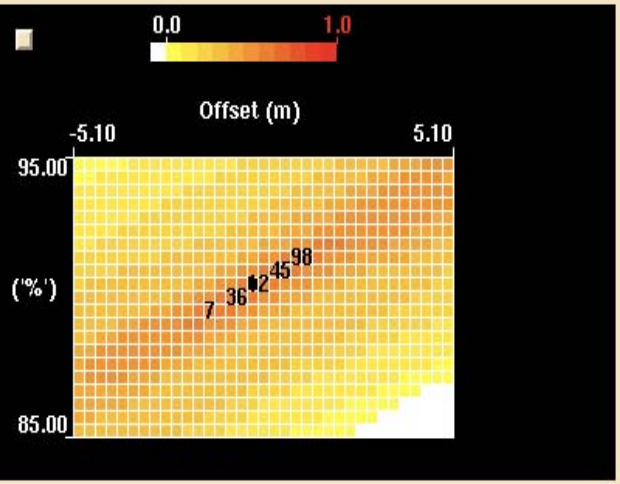
Invert Core Variable: Yes No

Select Hole(s): Hole A, Hole B, Hole C

Calculate Optimal Core-Log Depth Match

Interrupt

NATURAL GAMMA<->SGR



LD Recommended Depth-Matching

90.50 % Stretch/Compress

mbsf/mcd Ratio 0.909

-0.30 Log Offset (m)

r = 0.652 n = 715 (1)

Apply Undo

Dismiss Help

ELD Tool

Hole Core

Select Core Cancel Core

Clear Current Tie

Clear Last Tie Saved

Show Tie List...

Add Tie To List

Tie Applies To:

This Core Only

All Overlapping Cores

Correlation Param ...

Parameters...

Display Info...

Apply Tie(s) Undo

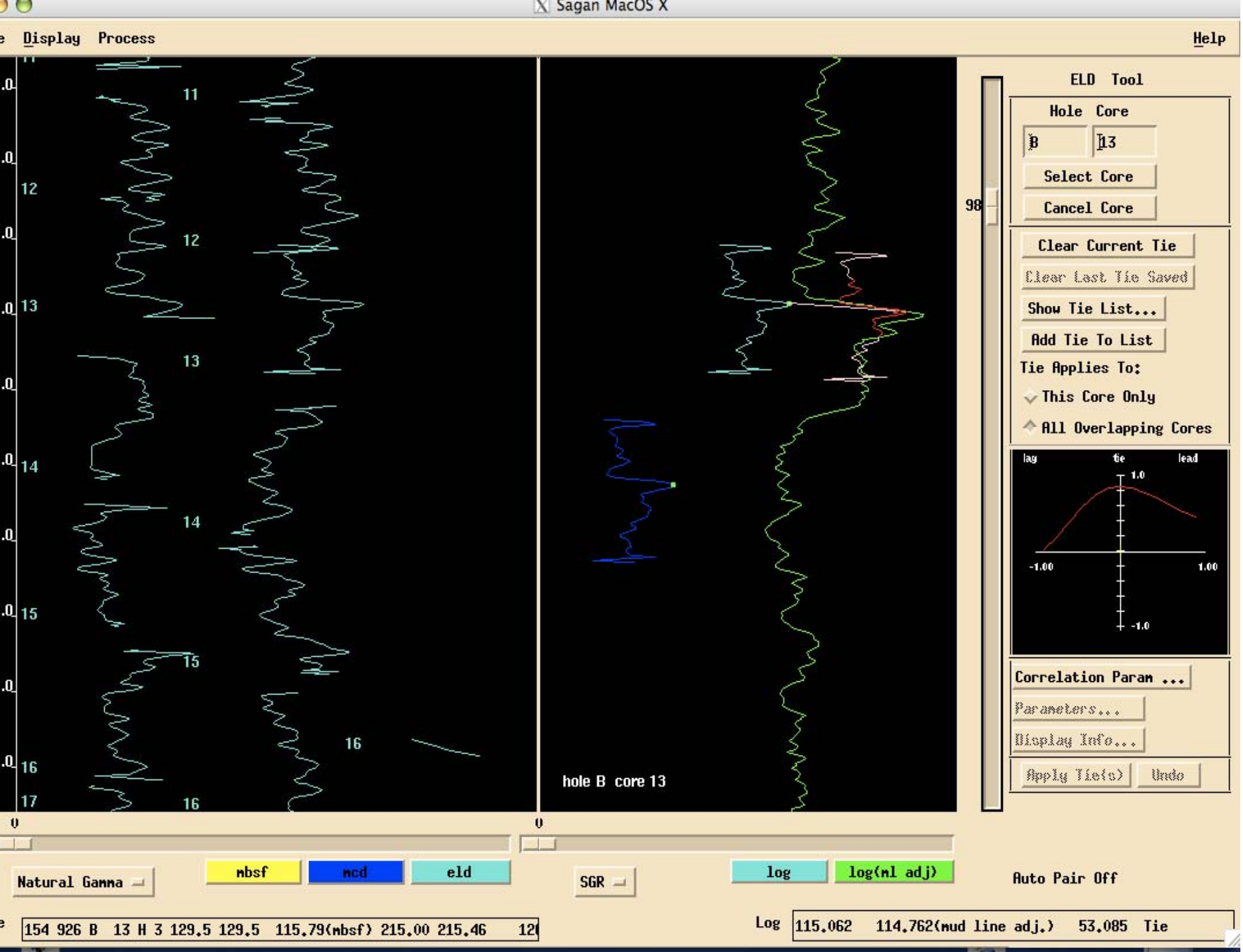
88

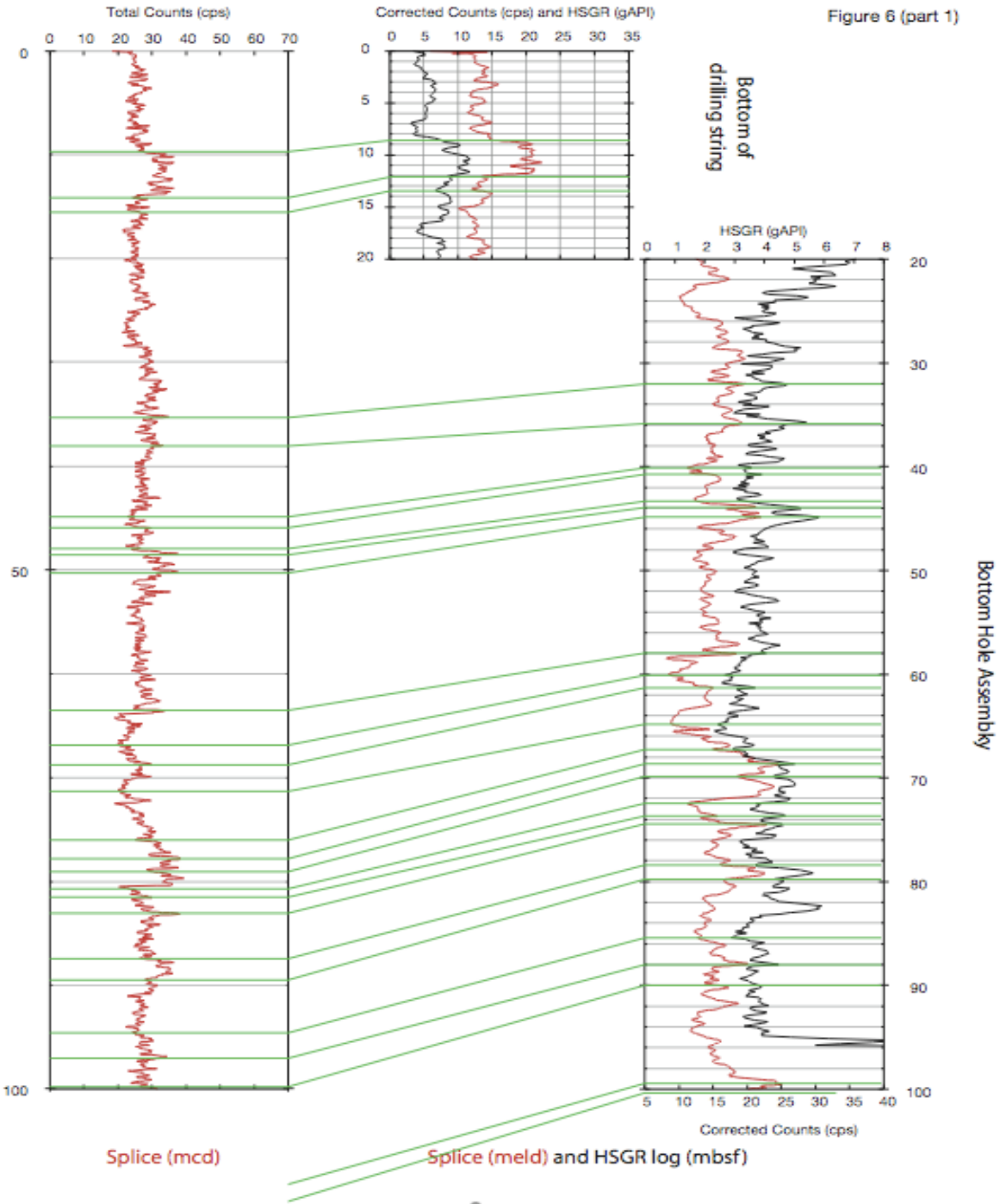
SGR

log log(ml adj)

Auto Pair Off

Log


Sagan MacOS X
Display
Process
Help
ELD Tool
Hole Core
B
13
Select Core
Cancel Core
Clear Current Tie
Clear Last Tie Saved
Show Tie List...
Add Tie To List
Tie Applies To:
This Core Only
All Overlapping Cores
lag
tie
lead
1.0
-1.00
1.00
-1.0
Correlation Param ...
Parameters...
Display Info...
Apply Tie(s)
Undo
98
hole B core 13
Natural Gamma
mbsf
mcd
eld
SGR
log
log(ml adj)
Auto Pair Off
154 926 B 13 H 3 129.5 129.5 115.79(mbsf) 215.00 215.46
Log
115.062 114.762(mud line adj.) 53.085 Tie



Exp. 303
Site 1305

Figure 6 (part 2)

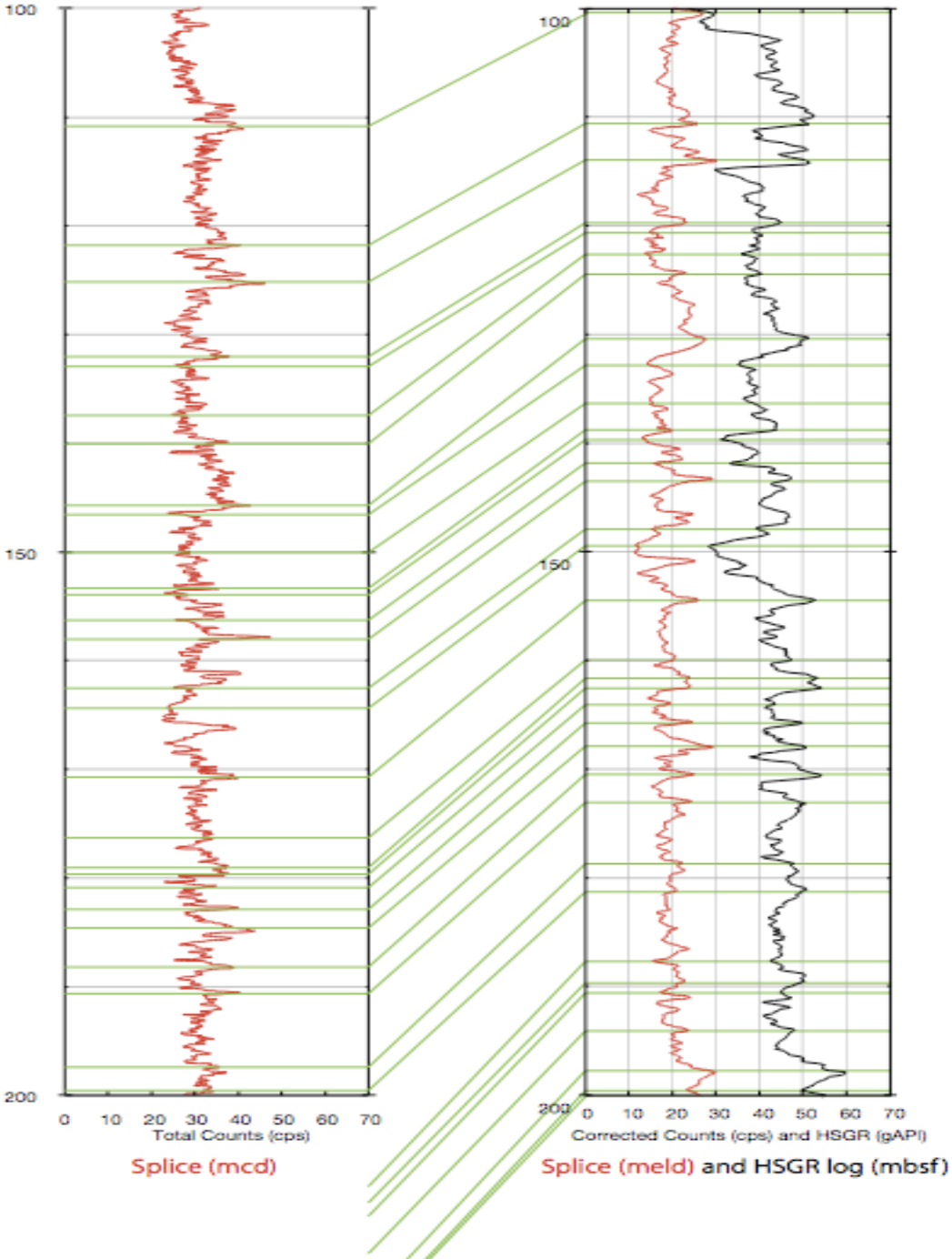
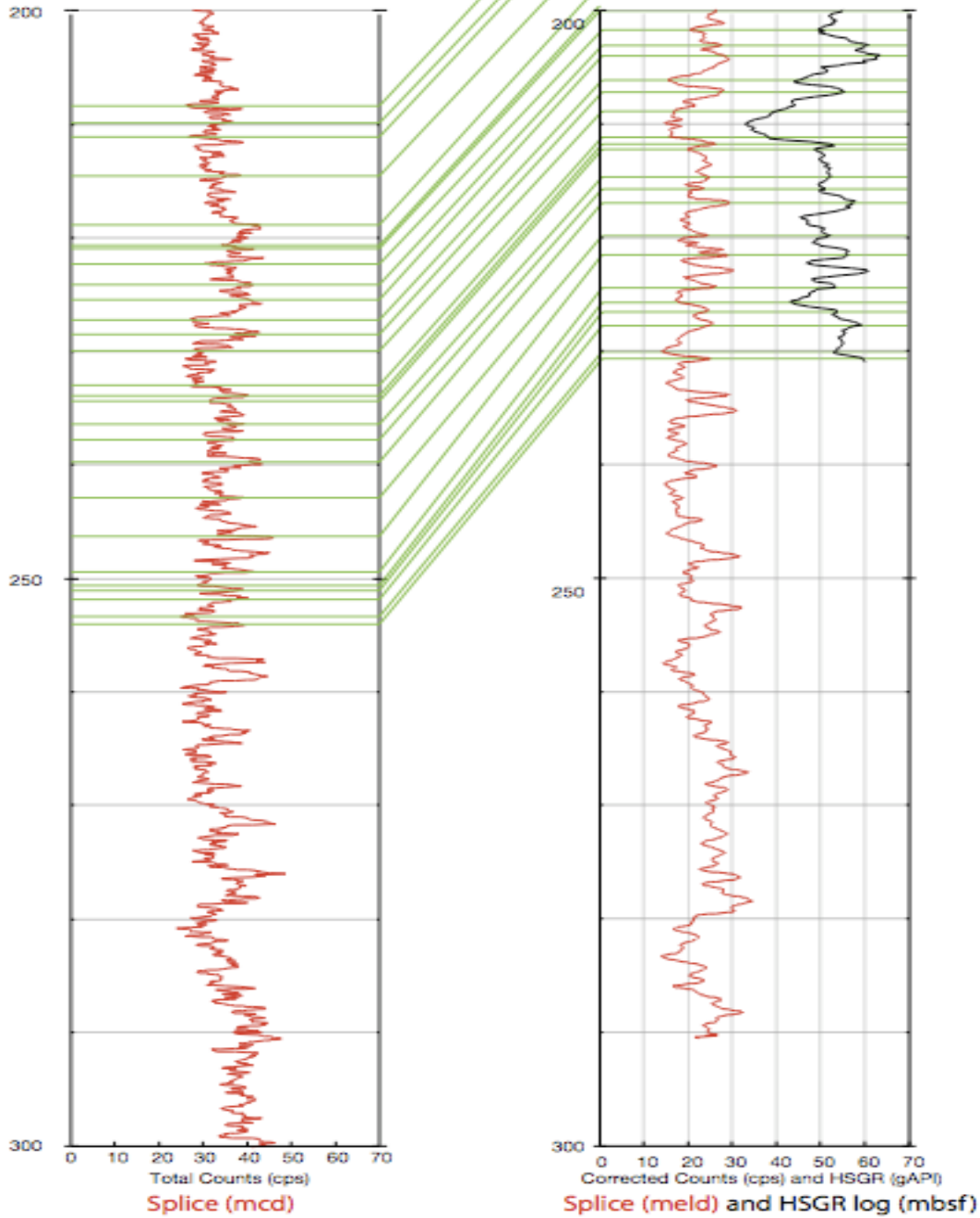
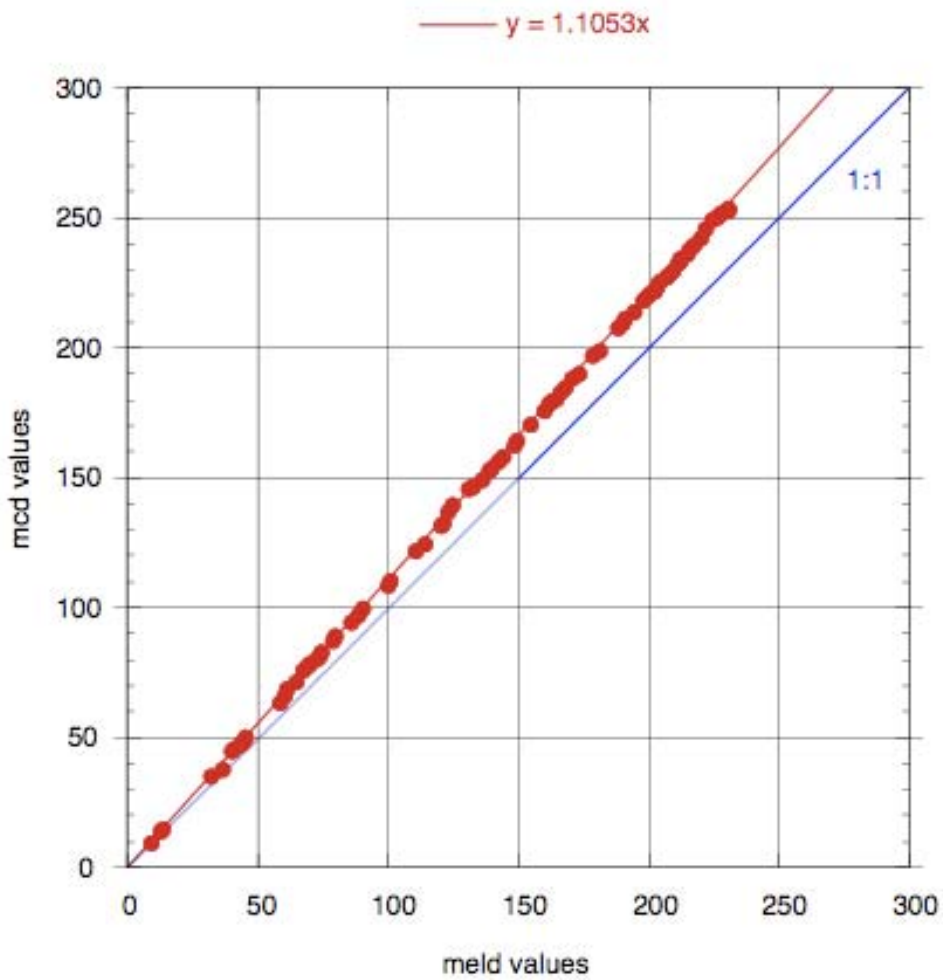


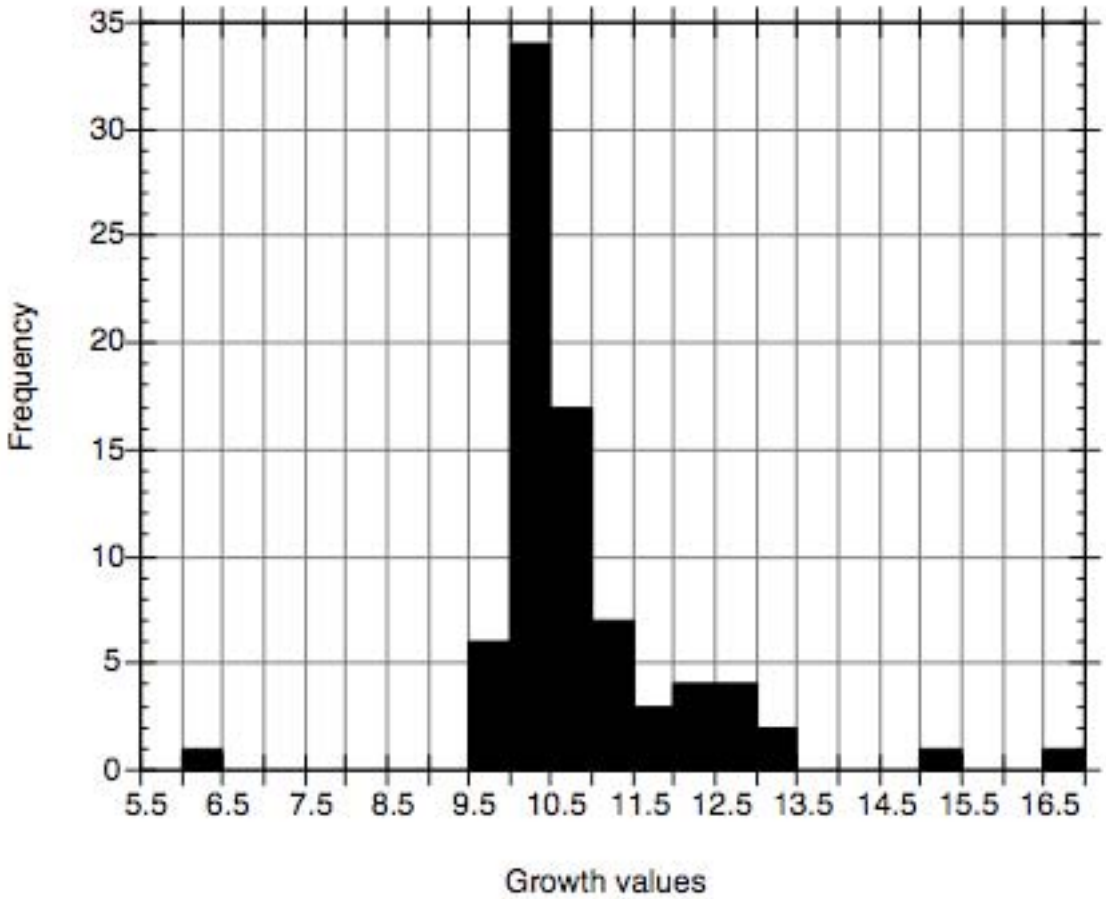
Figure 6 (part 3)



Core Expansion



Comparison of All Tiepoints



New Core Log Integration Platform(NCLIP)
New Features

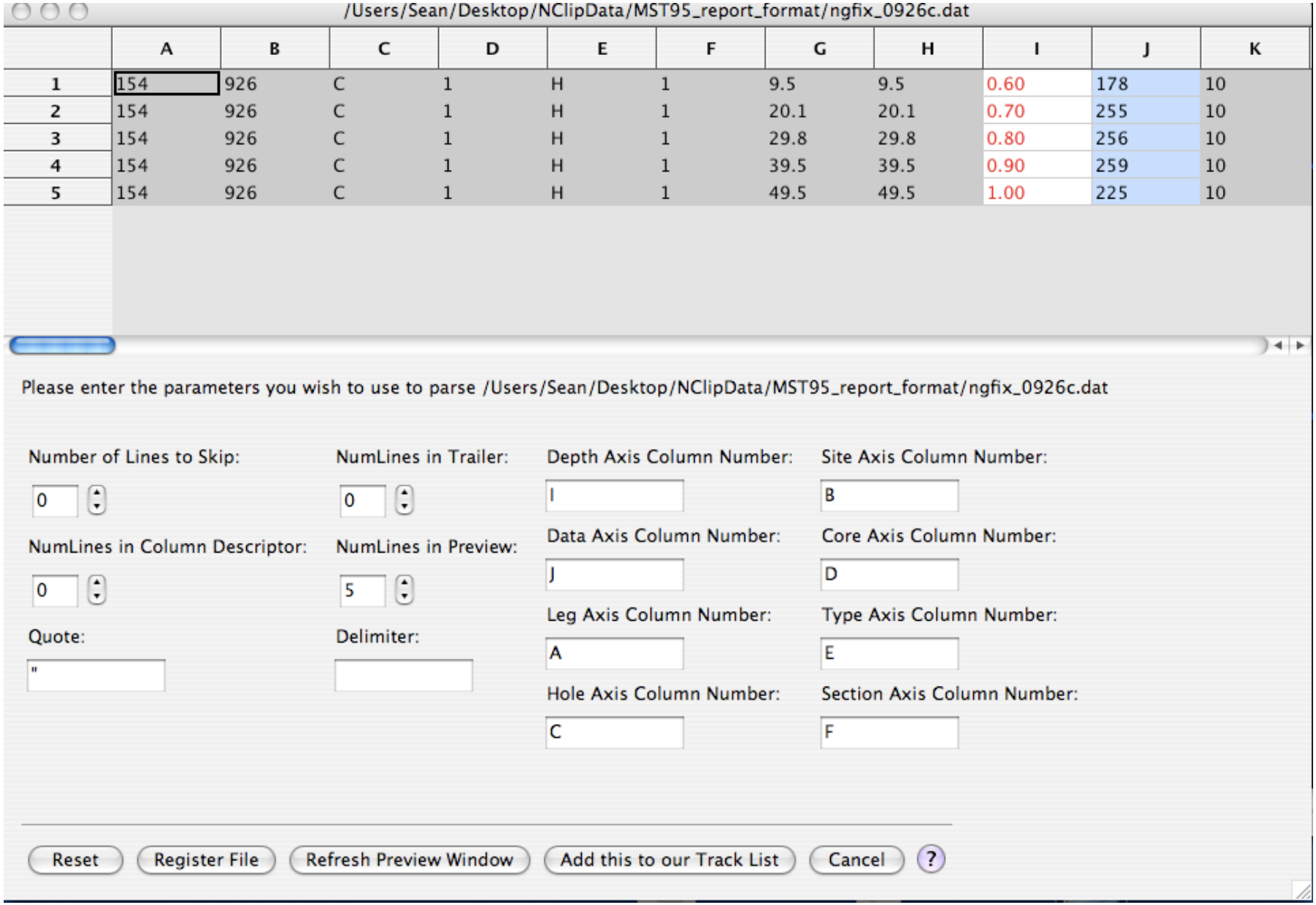
- PC, Linux and Mac Versions that all behave the same way.
- Collaborative features added:
  - a) Help is stored in an XML to which a user can add information
  - b) Sessions are self contained in XML and can be e-mailed from one user to another.
- An audit trail to the original data is provided by storing the original data's URL in the session.
- An embedded server will be able to pull data from web services.
- Images can be used alongside the core log data. (And the images will be stored in the XML session file.)
- Affine table will be exported in text and/or in XML.
- The following data types are supported:
  - a) Text based files. This can be CSV (Comma Separated Variable), excel(xls), and tab delimited.
  - b) XML files, such as the POSC standard.
  - c) Binary files, such as BMP, JPG

New NCLIP Features (cont.)

1. Legacy data will be supported using a text import tool similar to excel. (See attached figure) Data can be displayed vertically or horizontally.

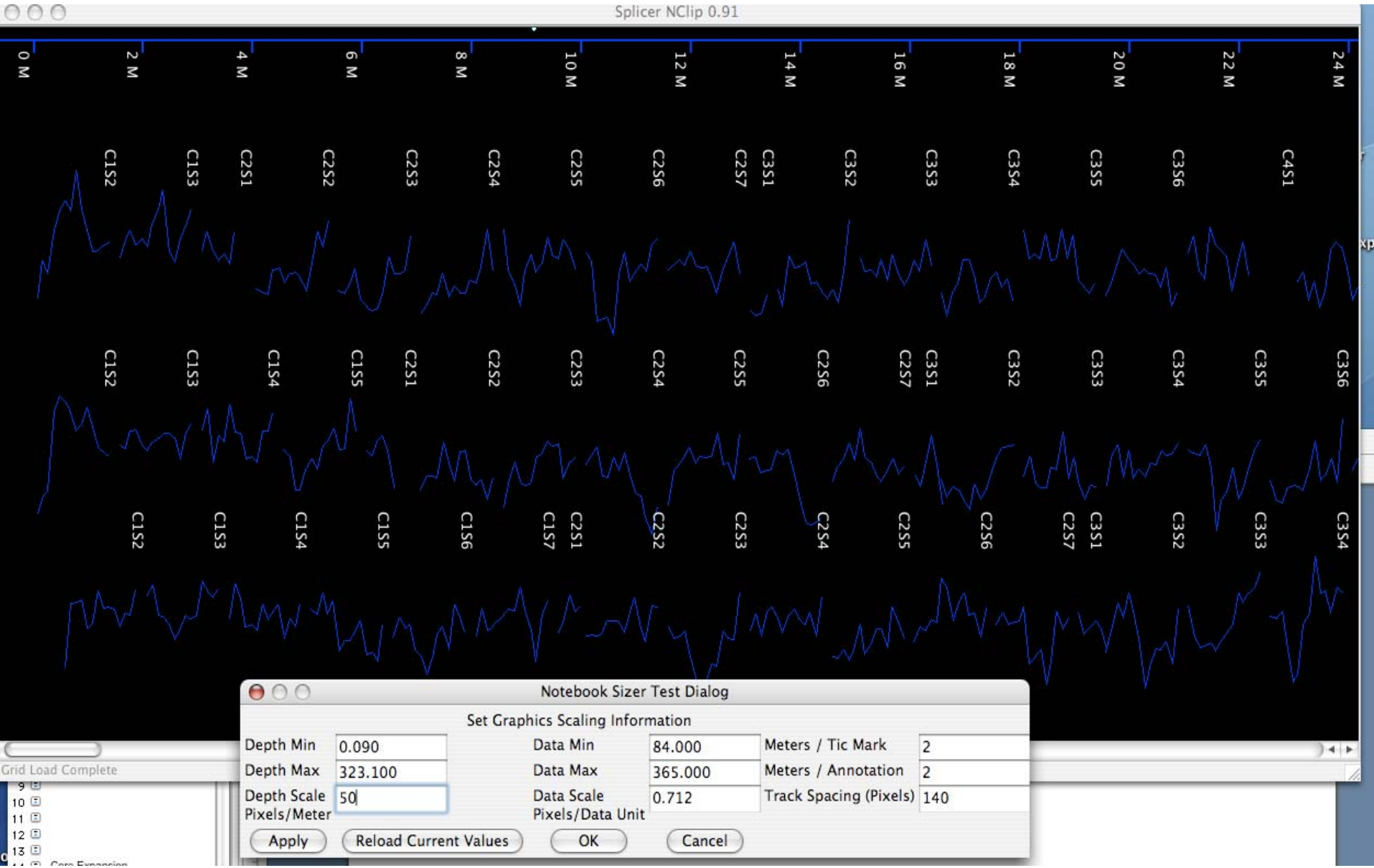
2. New annotation mode:, a click in a track will produce a pop-up box that will allow the user to add HTML or plain text.

Integrated Text Parser

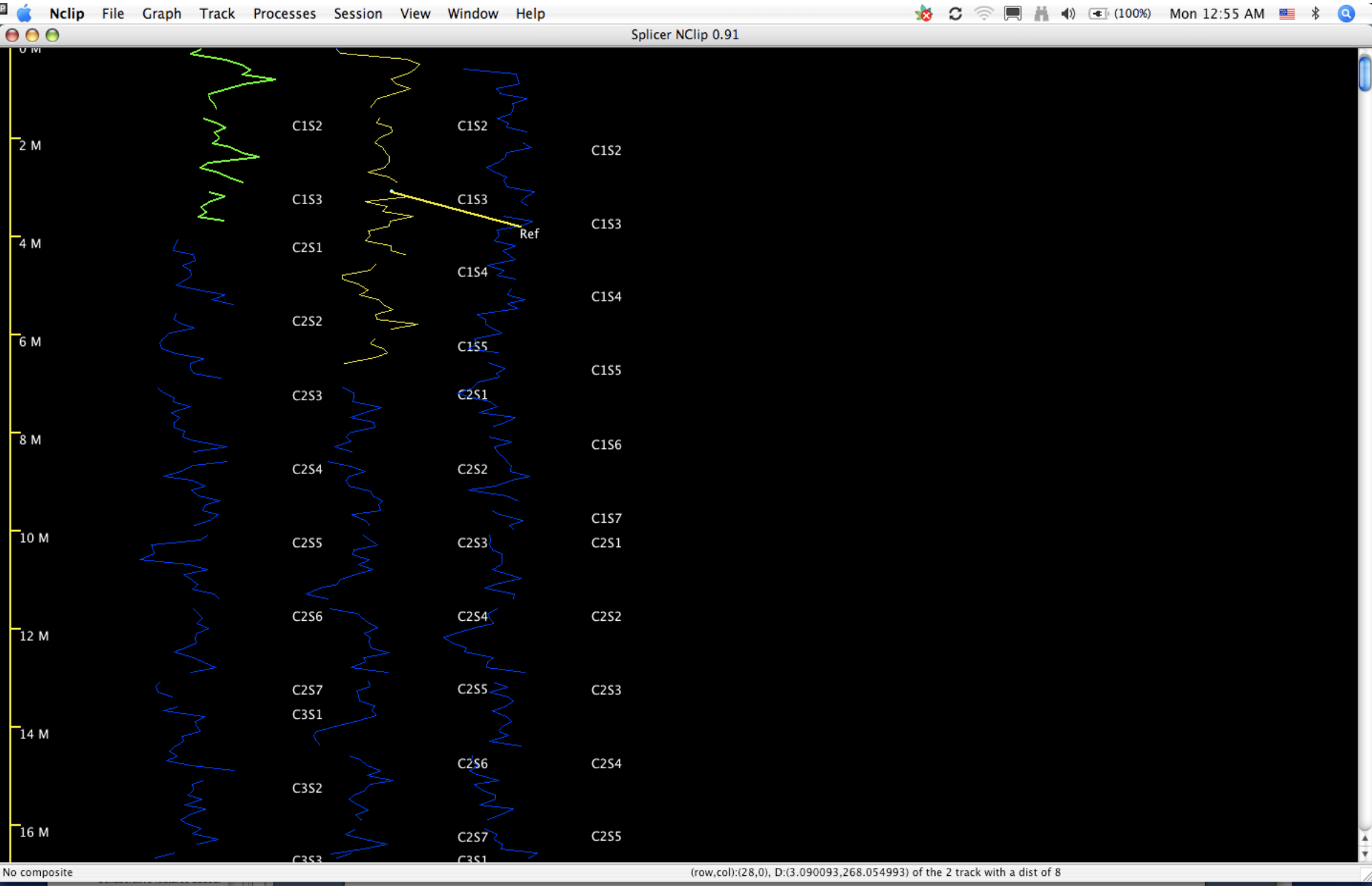


	A	B	C	D	E	F	G	H	I	J	K
1	154	926	C	1	H	1	9.5	9.5	0.60	178	10
2	154	926	C	1	H	1	20.1	20.1	0.70	255	10
3	154	926	C	1	H	1	29.8	29.8	0.80	256	10
4	154	926	C	1	H	1	39.5	39.5	0.90	259	10
5	154	926	C	1	H	1	49.5	49.5	1.00	225	10

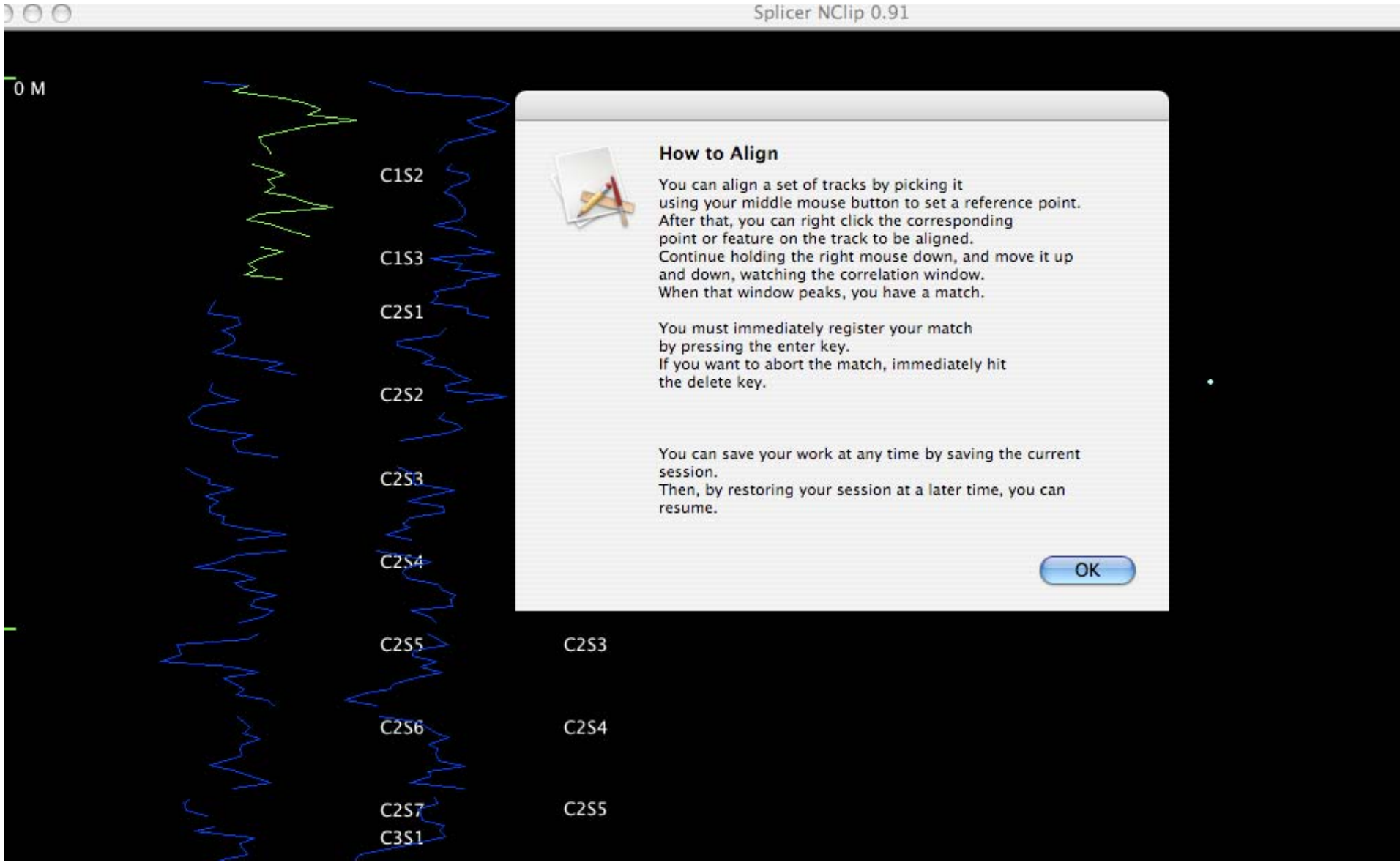
Horizontal Splicer Window



Vertical Splicer Window



Help Menus


Splicer NClip 0.91
0 M
C1S2
C1S3
C2S1
C2S2
C2S3
C2S4
C2S5
C2S6
C2S7
C3S1
C2S3
C2S4
C2S5
How to Align
You can align a set of tracks by picking it
using your middle mouse button to set a reference point.
After that, you can right click the corresponding
point or feature on the track to be aligned.
Continue holding the right mouse down, and move it up
and down, watching the correlation window.
When that window peaks, you have a match.
You must immediately register your match
by pressing the enter key.
If you want to abort the match, immediately hit
the delete key.
You can save your work at any time by saving the current
session.
Then, by restoring your session at a later time, you can
resume.
OK

Enhanced Control Over Tracks and Data