- Click 'Open' —
- Choose host
- Specify path or filter
- Navigate to file
- Select file type
- Click 'OK'

	Vislt 2.0.0	
Active window	1 🛟	Auto apply
Sources		
Open Jose R	eopen Replace Overlay	
Active source		Å.
Time		
0		
Plots		Control Restanting 1
Addr Operators	Delete Hide/Show D	raw Variables





- Click 'Open'
- Choose host -
- Specify path or filter
- Navigate to file
- Select file type
- Click 'OK'





- Click 'Open'
- Choose host
- Specify path or filter
- Navigate to file
- Select file type
- Click 'OK'

	File open	
Host nautilus pics u	itk edu	
Path /data1/szczep	ba/tg10	
Use "current working of	directory" by default File grouping On 🛊 R	emove paths
Directories	Files	
. (current directory) (go up 1 directory level)	ssh_global.cdf ssh_global_10.cdf	
Open file as type: Gues	s from file name/extension 🚺 Set default open opti	ons





Opening a File

- Click 'Open'
- Choose host
- Specify path or filter
- Navigate to file
- Select file type

Click 'OK'

		File open
📃 Host	nautilus.nics.utk.edu	
🗋 Path	/data1/szczepa/tg10	•
Filter	*	
🗹 Use "cı	urrent working directory" by default	File grouping On Remove paths
Directorie	S	Files
. (current (go up)	directory) 1 directory level)	ssh_global.cdf ssh_global_10.cdf





- Click 'Open'
- Choose host
- Specify path or filter
- Navigate to file
- Select file typeClick 'OK'

00		File open
📃 Host	nautilus.nics.utk.edu	
🗋 Path	/data1/szczepa/tg10	
Filter	•	
Use "cu	urrent working directory" by default	File grouping On 🛊 Remove paths
Disectoria		Tiles.
Directorie	S	Files
. (current	directory) 1 directory level)	ssh_global.cdf ssh_global_10.cdf
(go up .	a uncertory levely	
		· ·
Open file a	as type: Guess from file name/exte	ension Set default open options
(Defeed		
LI COLLEGE		



- Click 'Open'
- Choose host
- Specify path or filter
- Navigate to file
- Select file type
- Click 'OK'

000	File open
📃 Host	nautilus.nics.utk.edu
🗋 Path	/data1/szczepa/tg10
Filter	•
🗹 Use "c	urrent working directory" by default File grouping On Remove paths
Directorie	es Files
. (current (go up	t directory) 1 directory level) Ssh_global.cdf Ssh_global_10.cdf
Open file Refres	as type: Guess from file name/extension 🛟 Set default open options OK Cancel





- Click 'Open'
- Choose host
- Specify path or filter
- Navigate to file
- Select file type
- Click 'OK'



Nothing in vis window yet





- File is 'Active source'
- File -> File information
- Dismiss file info
- Add->Pseudocolor->ssh
- 'Plots' list
- Click 'Draw'

	Vislt 2.0.0	
Global		
Active window	1 🗘	Auto apply
Sources		
	D Replace Overl	
Active source	ssh_global.cdf	ay 🗘
Time		
0		0000
Plots		
Addr Operators	Delete Hide/Show	Draw Variables





- File is 'Active source'
- File -> File information
- Dismiss file info
- Add->Pseudocolor->ssh
- 'Plots' list
- Click 'Draw'

2.0.0	File	Controls	Option	ns Wir	ndows	Plot At
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e ssh	Set	Save optio	ns		企業O	
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	8	Print windo	w			
	Set	Print optio	ns		ЖP	
	Sav	e session .				
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	Res	store sessio	on with s	ources		
•	-	-	1	YY		





- File is 'Active source'
- File -> File information
- Dismiss file info
- Add->Pseudocolor->ssh
- 'Plots' list
- Click 'Draw'

00	File information	6
File = localhost:/Users/scott	simmerman/visit/tutorials/sample_	datasets/ssh_global.cdf
Datab ase: /Users/scottsim Simulation: No Datab ase comment: Read File format: NETCDF_1.0 Num Time States: 10 MetaData is NOT repopula useC atchAllMesh: 0 Format cannot do its own of Temporal extents are from All Times are Accurate Times: -23.5, -22.5, -21.5, All Cycles are Accurate Cycles: 0, 1, 2, 3, 4, 5, 6, 7 Meshes:	merman/visit/tutorials/sample_data as CCSM MT data ated on state changes lomain decomposition -23.5 to -14.5. -20.5, -19.5, -18.5, -17.5, -16.5, 7, 8, 9	asets/ssh_glob al.cdf
Name = mesh720 Number of blocks Block origin = 1 Cell origin = 1 (ori Node origin = 0 (or Group origin = 0 Title for domain hi	0x330 = 1 gin within one block of the cells). origin within one block of the nodes erarchy is domains	s).
Title for individual Number of group	piece in domain hierarchy is doma s = 0	ain A V
	(Post Dismiss





- File is 'Active source'
- File -> File information
- Dismiss file info
- Add->Pseudocolor->ssh
- 'Plots' list
- Click 'Draw'





- File is 'Active source'
- File -> File information
- Dismiss file info
- Add->Pseudocolor->ssh
- 'Plots' list
- Click 'Draw'







- File is 'Active source'
- File -> File information
- Dismiss file info
- Add->Pseudocolor->ssh
- 'Plots' list
- Click 'Draw'







- File is 'Active source'
- File -> File information
- Dismiss file info
- Add->Pseudocolor->ssh
- 'Plots' list
- Click 'Draw'







Making a Plot

- File is 'Active source'
- File -> File information
- Dismiss file info
- Add->Pseudocolor->ssh
- 'Plots' list
- Click 'Draw'



Initial pseudocolor plot







Navigation

Reset View

Undo/Redo View

TeraGrid







Navigation

Reset View Undo/Redo View







 Navigate mode click and drag to pan or rotate Zoom mode click and drag box to zoom in





 Navigate mode click and drag to pan or rotate

 Zoom mode click and drag box to zoom in





Adding Operators

- Operators-> _____
 Selection->Threshold
- Click 'Draw'
- Click triangle
- Double-click operator
- Threshold attributes
- Click 'Apply'







Adding Operators

- Operators->
 Selection->Threshold
- Click 'Draw'
- Click triangle
- Double-click operator
- Threshold attributes
- Click 'Apply'







Adding Operators

- Operators->
 Selection->Threshold
- Click 'Draw'
- Click triangle
- Double-click operator
- Threshold attributes
- Click 'Apply'



user: scottsimmerman Fri Jul 23 16:49:13 2010

No change





Adding Operators

- Operators->
 Selection->Threshold
- Click 'Draw'
- Click triangle
- Double-click operator
- Threshold attributes
- Click 'Apply'

	op(=) +/-		-		
Add	Operator <i>s</i>	Delete	Hide/Show	Draw	Variables
Þ	Pseudocolor	– ssh			





Adding Operators

- Operators->
 Selection->Threshold
- Click 'Draw'
- Click triangle
- Double-click operator
- Threshold attributes
- Click 'Apply'

Plots	00()		— .		m
Addt		Delete	Hide (Show	Draw	Variables
Audr	operators	Delete	Hide/Show	Draw	variables
	SSN H	hold) 🗙		
	Pseue	locolor			
					a
M Ap	ply operator	s / 🗹 s	selection to	all plo	ts





Adding Operators

- Operators->
 Selection->Threshold
- Click 'Draw'
- Click triangle
- Double-click operator
- Threshold attributes
- Click 'Apply'



Choose 'All in range'



Adding Operators

- Operators->
 Selection->Threshold
- Click 'Draw'
- Click triangle
- Double-click operator
- Threshold attributes
- Click 'Apply'

Variable	Lower bound	Upper bound	Show zone if
default	-1000	max	All in rang 🛟
A all three	dd variable	• De	lete selected variable
A or all three Dutput m	dd variable shold variables nesh is ()	Zones from i	nput () Point mesh





Adding Operators

- Operators->
 Selection->Threshold
- Click 'Draw'
- Click triangle
- Double-click operator
- Threshold attributes
- Click 'Apply'



Threshold applied





- Double-click plot name
- Select 'Use Current Plot'
- Click 'Apply'
- Change color table
- Click 'Apply'

Add+	Operators	Delete Hid	de/Show Di	raw Varia	ables
	ssn	hold	×		
	- Pseud	ocolor			





- Double-click plot name
- Select 'Use Current Plot' /
- Click 'Apply'
- Change color table
- Click 'Apply'

00	Pseudoco	olor plot attributes	
Data			
Scale Limits Minimum (Use Original Data	Skew 1	
Centering 💿 O	riginal 🔘 Nodal	🔿 Zonal	
Color			
Color table	hot		
Opacity Opacity	• Set explicitly	y () From color ta	ble
Point / Line Style			
Point type Po	int 🛟 I	Point size (pixels) 2	— 1 •
Line style	Solid	cine width	<u> </u>
Geometry			
Smoothing	None	O Fast	High
Misc			
🗹 Legend		 Lighting 	
Make default)	Load	Save Reset





- Double-click plot name
- Select 'Use Current Plot'
- Click 'Apply'
- Change color table
- Click 'Apply'

Data			
Scale	• Linear O Log	O Skew 1	
Limits	✓ Use Current Plot		
Minim	um 0	Maximum 1	
Centering	• Original O Nodal	🔘 Zonal	
Color			
Color table	hot		
Onacity	O Company in the	0.5	
Opacity	• Set explicitly	y O From color tab	le
Opacity			10
Point / Line	Style		
Point type	Point	Point size (pixels) 2	
Scale p	oint size by variable	default 💌	
Line style	— solid	Line width	[-1
Geometry			
	0	0.5	Ollish
Smoothing	 None 	Fast	High
Smoothing Misc	• None	O Fast	High



Plot Attributes

- Double-click plot name
- Select 'Use Current Plot'
- Click 'Apply'
- Change color tableClick 'Apply'



Pseudocolor fixed





- Double-click plot name
- Select 'Use Current Plot'
- Click 'Apply'
- Change color table
- Click 'Apply'

Scale Linear Limits Use Current Minimum O Centering Original Color Color table h	Default amino_rasmol amino_shapely bluehot caleblack calewhite contoured cpk_jmol
Limits Use Current Minimum 0 Centering Original O Color Color table h	amino_rasmol amino_shapely bluehot n 1 caleblack calewhite contoured cpk_jmol
Minimum 0 Centering Original O Color Color table	bluehot n 1 caleblack calewhite contoured cpk_jmol
Centering Original O Color Color table	calewhite contoured cpk_jmol
Color Color table	cpk_jmol
Color table h	and manual
	difference
Opacity 💽 Set ex	gray or table
Opacity	hot hot_and_cold
Point / Line Style	hot_desaturated
Point type Point Scale point size by varial	levels orangehot rainbow xray
Line stylesolid	d 🕻 Line width 🗌 🕇
Geometry	
Smoothing 📀 None	Fast O High
Misc	
Legend	✓ Lighting
Make default	Load Save Reset
Apply	(Post) (Dismiss





- Double-click plot name
- Select 'Use Current Plot'
- Click 'Apply'
- Change color table
- Click 'Apply'

Data		
Scale 💽 L	inear 🔾 Log 🔾 Skew 1	
Limits	Use Current Plot	
Minimum	0 Maximum	1
-		-
Centering 💽 (Driginal () Nodal () Zonal	
Color		
Color table	bluehot	
Opacity	• Set explicitly O From color t	able
Opacity	1 1 1	1
opacity		
Point / Line Style		
Point type Po	int Point size (pixels)	2
Scale point	size by variable default 💌	
Line style	— solid 🚺 Line width	-1
Commenter		
Smoothing	● None ○ Fast) High
Misc		
	✓ Lighting	
Legend		
🗹 Legend		
Legend	Load	Save Reset
Legend Make deradit	Load	Save Reset



- Double-click plot name
- Select 'Use Current Plot'
- Click 'Apply'
- Change color table
- Click 'Apply'







More Operators Operator->Transforms

- ->Elevate
- Click 'Draw'
- Operator->Transforms
 ->Transform
- Double-click 'Transform'
- Scale Z axis, Apply
- Click 'Draw'





More Operators Operator->Transforms ->Elevate Click 'Draw' Operator->Transforms ->Transform Double-click 'Transform' Scale Z axis, Apply Click 'Draw'

Plots

op()

perators

Threshold

Pseudocolor

Apply operators / 🗹 selection to all plots

Delet

Draw

Variables


More Operators Operator->Transforms ->Elevate

- Click 'Draw'
- Operator->Transforms
 ->Transform
- Double-click 'Transform'
- Scale Z axis, Apply
- Click 'Draw'



Extreme elevation



- Click 'Draw'
- Operator->Transforms
 ->Transform
- Double-click 'Transform'
- Scale Z axis, Apply
- Click 'Draw'





- Click 'Draw'
- Operator->Transforms
 ->Transform
- Double-click 'Transform'
- Scale Z axis, Apply
- Click 'Draw'







- Click 'Draw'
- Operator->Transforms
 ->Transform
- Double-click 'Transform'
- Scale Z axis, Apply
- Click 'Draw'





- Click 'Draw'
- Operator->Transforms
 ->Transform
- Double-click 'Transform'
- Scale Z axis, Apply
- Click 'Draw'









- ->Elevate
- Click 'Draw'
- Operator->Transforms
 ->Transform
- Double-click 'Transform'
- Scale Z axis, Apply
- Click 'Draw'







Sessions

File->Save Session File->Restore Session

2.0.0	File	Controls	Options	Windows	Plot Attri
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-	Restore session				
	Res	store sessio	rces		
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itors	Delete	Hide/Show	Draw Varia	ables	





Sessions

File->Save Session
File->Restore Session

2.0.0	File	Controls	Options	Windows	Plot Attri
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	Close file			•	
ow 1	ReOpen file			•	THE C
-	Refresh file list			₩R	1
	File information			% I	
	Compute engines			₩E	1
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	Print window				
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	Sav	ve session .			
	Restore session				
	Res	store sessio	n with sou	rces	h
		-/_	1 4	V	
itors	Delete	Hide/Show	Draw Varia	ables	





- Delete Transform, Elevate
- Click 'Draw'
- Add Mesh plot, Draw
- Select Zoom mode
- Click & drag box to zoom
- Select Node Pick mode
- Click on nodes
- Try Zone Pick mode







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- Select Zoom mode
- Click & drag box to zoom
- Select Node Pick mode
- Click on nodes
- Try Zone Pick mode





Lineouts

- Reset view
- Hide mesh plot
- Select Pseudocolor
- Select Lineout mode
- Click and drag line
- Click '1x2' layout
- Make window 2 active

Change curve attributes





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TeraGrid



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Lineouts

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- Select Pseudocolor
- Select Lineout mode
- Click and drag line
- Click '1x2' layout
- Make window 2 active

Change curve attributes



Curve plot in new window



Lineouts

- Reset view
- Hide mesh plot
- Select Pseudocolor
- Select Lineout mode
- Click and drag line
- Click '1x2' layout
- Make window 2 active

Change curve attributes





Lineouts

- Reset view
- Hide mesh plot
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- Click '1x2' layout
- Make window 2 active

Change curve attributes





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- Change curve attributes







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- Hide mesh plot
- Select Pseudocolor
- Select Lineout mode
- Click and drag line
- Click '1x2' layout
- Make window 2 active
- Change curve attributes







- Reset view
- Hide mesh plot
- Select Pseudocolor
- Select Lineout mode
- Click and drag line
- Click '1x2' layout
- Make window 2 active
- Change curve attributes

•••••	Curve plot attribute	25
Line Geometry		
Oraw curve using	lines	
Line style	- solid	Line width -1
Show points	Point size	5
O Draw curve using	symbols	
Symbol	triangle up	Density 50
Color		
Curve color	 Cycle 	O Custom
Misc		
🗹 Legend	🗹 Label	s
Make default	Load	Save Reset
Apply		Post Dismiss





TeraGrid



Queries

- Delete Curve plot
- Controls->Query
- Select 'Max'
- Select 'Actual Data'
- Click 'Query'
- Click 'Time curve'
- Variable sum, stats, etc.

File	Controls	Options	Windows	Plot At	tributes
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Queries

- Delete Curve plot
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- Select 'Max'
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FeraGrid



Queries

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- Click 'Query'
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Queries

- Delete Curve plot
- Controls->Query
- Select 'Max'
- Select 'Actual Data'
- Click 'Query'
- Click 'Time curve'

• Variable sum, stats, etc.





Queries

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Queries

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- Controls->Query
- Select 'Max'
- Select 'Actual Data'
- Click 'Query'
- Click 'Time curve'
- Variable sum, stats, etc.





Expressions

- Controls->Expressions
- Click 'New'
- Enter name
- Create expression
- Apply
- New expression in list
- Cmfe expressions

File	Controls	Options	Windows	Plot At	tributes
	🛕 Anim	ation		жA	0
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\$	Color	table		жт	C +z
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en R	冒 Light	ing		жL	Cyc
1_globa	🔁 Lineo	ut		<mark>ት</mark> <mark>ස</mark> L	Pseu
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Delete	Hide/Show	Draw Varia	bles		



Expressions

- Controls->Expressions
- Click 'New'
- Enter name
- Create expression
- Apply
- New expression in list

• Cmfe expressions

H 0.0		Expressions		
Expression List	Definition			
	Name			
	Туре	Scalar Mesh V	ariable	
		Show variab	le in plot menus	
		Standard Editor	Python Expression Editor	
	Definition			
	~			
	-			
New Delete		In	sert Function • Insert Variab	sle v
Display expressions from databa	ase			
Apply			Post	Diami
				UISMI





Expressions

- Controls->Expressions
- Click 'New'
- Enter name
- Create expression
- Apply
- New expression in list

• Cmfe expressions

		Expressions
Expression List	Definition	
ssh inches	Name	ssh inches
	Type	Scalar Mesh Variable
		Show variable in plot menus
		Standard Editor Python Expression Editor
	Definition	
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New Delate		
New Delete		Insert Function Insert Variable
New Delete Display expressions from datab	base	Insert Function • Insert Variable •
New Delete	base	Insert Function Insert Variable





Expressions

- Controls->Expressions
- Click 'New'
- Enter name
- Create expression
- Apply
- New expression in list

• Cmfe expressions

	EX	pressions		
Expression List	Definition			
ssh inches	Name	ssh inches		
	Type	Scalar Mesh V	/ariable	
		Show variab	le in plot menus	
		Standard Editor	Python Expression Editor	
	Definition			
	ssh * 0.3937			
	-			
	-			
	-			
New Delete			sert Function •) Insert Varial	ble •





Expressions

- Controls->Expressions
- Click 'New'
- Enter name
- Create expression
- Apply
 Novie and in the task
- New expression in list
- Cmfe expressions







Expressions

- Controls->Expressions
- Click 'New'
- Enter name
- Create expression
- Apply
- New expression in list
- Cmfe expressions







Expressions

- Controls->Expressions
- Click 'New'
- Enter name
- Create expression
- Apply
- New expression in list
- Cmfe expressions



Difference between timesteps



VisIt With Python

- Vislt has built-in Python interpreter called CLI
 - •CLI with vis window
 - > visit -cli
 - •CLI alone
 - > visit -cli -nowin
 - •Run Vislt with a script (for batch mode)
 - > visit -cli -nowin -s script.py
 - Lots of example scripts at http://visitusers.org



- Controls->Command
- Enter Python code
- Click 'Execute'
- Record actions
- See Python code

File	Controls	Options	Windows	Plot At	tributes
	🏫 Anim	ation		жA	
	🔊 Anno	tation		ЖN	
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- Controls->Command
- Enter Python code
- Click 'Execute'
- Record actions
- See Python code

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- Controls->Command
- Enter Python code
- Click 'Execute'
- Record actions
- See Python code

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- Controls->Command
- Enter Python code
- Click 'Execute'
- Record actions
- See Python code

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- Controls->Command
- Enter Python code
- Click 'Execute'
- Record actions
- See Python code

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Lots more...

- Histograms, Scatter Plots, Parallel Coordinates
- Contour, Molecule and Volume Plots
- Vector, Streamline and Tensor Plots
- Animation and Movie Wizard

Remote Data Analysis and Visualization Center

 Support for creating your own Plot, Operator or Database reader plugins



- Vislt Website:
 - http://visit.llnl.gov
- Vislt Wiki
 - http://visitusers.org
- RDAV Website

http://rdav.nics.tennessee.edu



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