

# Users' Manual and Installation Guide for the EverVIEW Slice and Dice Tool (Version 1.0 Beta)

By Dustin Roszell, Craig Conzelmann, Sumani Chimmula, Anuradha Chandrasekaran, and Christina Hunnicut

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## Abstract

Network Common Data Form (NetCDF) is a self-describing, machine-independent file format for storing array-oriented scientific data. Over the past few years, there has been a growing movement within the community of natural resource managers in The Everglades, Fla., to use NetCDF as the standard data container for datasets based on multidimensional arrays. As a consequence, a need arose for additional tools to view and manipulate NetCDF datasets, specifically to create subsets of large NetCDF files. To address this need, we created the EverVIEW Slice and Dice Tool to allow users to create subsets of grid-based NetCDF files. The major functions of this tool are (1) to subset NetCDF files both spatially and temporally; (2) to view the NetCDF data in table form; and (3) to export filtered data to a comma-separated value file format.

## Introduction

Network Common Data Form (NetCDF) is a self-describing, machine-independent file format for storing array-oriented scientific data. It was created by the Unidata Program Center at the University

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Corporation for Atmospheric Research (UCAR), in conjunction with the National Aeronautics and Space Administration (NASA) and other organizations, to provide a common interface between applications and real-time meteorological and other scientific data. (Unidata Program Center, 2009).

Over the past few years, there has been a growing movement within the community of natural resource managers in The Everglades, Fla., to use NetCDF as the standard data container for datasets based on multidimensional arrays. As a consequence, a need arose for additional tools to view and manipulate NetCDF datasets, specifically to create subsets of large NetCDF files. To address this need, we created the EverVIEW Slice and Dice Tool to allow users to create subsets of grid-based NetCDF files. The major functions of this tool are (1) to subset NetCDF files both spatially and temporally; (2) to view the NetCDF data in table form; and (3) to export filtered data to a comma-separated value (CSV) file format.

#### System Requirements

The EverVIEW Slice and Dice Tool requires that Java Runtime Environment (JRE) 5 (Sun Microsystems, Inc., Santa Clara, Calif.) or higher be installed. The JRE 5 software can be downloaded from http://java.sun.com/javase/downloads/index.jsp. The slice and dice tool has been tested on the following operating systems (OS): Windows XP Service Pack 2 (Microsoft Corporation, Redmond, Wash.), Mac OS X 10.5 (Apple, Cupertino, Calif.), and Ubuntu 8.10 (Canonical Ltd., Douglas, Isle of Man)

#### Data

This tool has been tested extensively with NetCDF data containing water surfaces from the Everglades Depth Estimation Network (EDEN). Limited testing has been done with multigrid datasets and other datasets that are compliant with the climate and forecast (CF) metadata standards (version1.0)

for NetCDF files, but there are no guarantees as to what does and does not work. The tool should subset most 3-dimensional grids based on time and two coordinates. The tool will not subset NetCDF files containing variables that define the grid-cell boundaries of coordinate variables (http://cf-pcmdi.llnl.gov/documents/cf-conventions/1.0/cf-conventions.html#cell-boundaries), two-dimensional coordinate variables (http://cf-pcmdi.llnl.gov/documents/cf-conventions/1.0/

## Windows XP Service Pack 2

#### Installation

The software is available for download at http://jem.cr.usgs.gov/everview.aspx. Extract the zip file into a folder on your local machine and run the executable file. This software requires write permission to the installation directory in order to function properly.

#### **User Instructions**

 Run the application. To do this, navigate to the folder where the tool is installed and double click on EverVIEW\_NetCDFSDTool.exe. The application can only be run from this directory, because it depends on other files and folders in the installation directory.



Figure 1. Windows XP Service Pack 2: Installation folder showing EverVIEW\_NetCDFSDTool.exe.

2. The EverVIEW NetCDF Slice and Dice Tool will open and check to see if any updates are available. If updates are available, you will be prompted to install them.

EverVIEW NetCDF	Slice and Dice Tool	
Slice and Dice		
🔻 Open		
NetCDF File	Brows	e View
Information		
💌 Grids		
Please select the grid(s	i) to subset (hold the shift key to select multiple grids).	
▼ Lonstraints		
Dataset Extents	Min X/Lon         Max X/Lon           Min Y/Lat         Max Y/Lat	
Time min	▼	
Time max	►	
Subset		
	Check for updates: (62%)	• • • • • • • • • • • • • • • • • • •

Figure 2. Windows XP Service Pack 2: Automatic updates.

3. Click the "Browse" button and select the NetCDF file to subset.

EverVIEW NetCD	F Slice and Dice Tool
Slice and Dice	
💌 Open	
NetCDF File C:\Doc	uments and Settings\chandrasekarana.GS\Desktop\2000_q1_v1\2000_q1.nc
► Information	
🔻 Grids	
Please select the grid	(s) to subset (hold the shift key to select multiple grids).
▼ Constraints	
Dataset Extents	Min X/Lon         Max X/Lon           Min Y/Lat         Max Y/Lat
Time min	✓
Time max	
Subset	

Figure 3. Windows XP Service Pack 2: Opening a Network Common Data Form (NetCDF) file in the EverVIEW NetCDF Slice and Dice Tool.

4. If you would like to preview the original NetCDF file, click the "View" button.

EverVIEW NetCDF	Slice and Dice Tool
Slice and Dice	
💌 Open	
NetCDF File C:\Docu	uments and Settings\chandrasekarana.GS\Desktop\2000_q1_v1\2000_q1.nc
► Information	
🔻 Grids	
Please select the grid	(s) to subset (hold the shift key to select multiple grids).
▼ Constraints	
Dataset Extents	Min X/Lon         Max X/Lon           Min Y/Lat         Max Y/Lat
Time min	▼
Time max	
Subset	
L	

Figure 4. Windows XP Service Pack 2: Previewing a Network Common Data Form (NetCDF) file in the EverVIEW NetCDF Slice and Dice Tool.

5. After clicking the "View" button, the NetCDF Table Viewer will be shown with the NetCDF file you selected.

		· M							
ilice and Dice	e 🖳 2000_	g1.nc 🛛							
etCDF T	able Vie	ewer							
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Upen									
LODE ELL									
	C:\Document	ts and Setting	s\chandrasek/	arana.GS\Des	ktop\2000_q1;	_v1\2000_q1	.nc	[	Browse
Table									
Table									
								_	
id: stage			Y Time Step	); 2000-01-	01 12:00:00Z	×		Expor	t to CSV
	463400.0	463800.0	464200.0	464600.0	465000.0	465400.0	465800.0	466200.0	466 🔨
2872600.0	NaN	NaN	NaN	160.9051	161.1992	161.5043	161.821	162.1503	162
2873000.0	NaN	NaN	NaN	167.1787	165.9384	166.3432	166.7596	167.1877	167
2873400.0	NaN	NaN	NaN	171.8972	172.1804	171.1859	171.7017	172.2283	172
2873800.0	NaN	NaN	NaN	NaN	176.9939	176.0259	176.6411	177.2663	177
2874200.0	NaN	NaN	NaN	NaN	185.7395	182.2875	181.5714	182.2955	183
2874600.0	NaN	NaN	NaN	NaN	190.6206	187.183	187.7713	187.3098	188
2875000.0	NaN	NaN	NaN	NaN	195.4956	195.8268	192.7431	192.3025	193
2875400.0	NaN	NaN	NaN	NaN	200.3592	200.7702	201.1998	198.4795	198
2875800.0	NaN	NaN	NaN	NaN	205.2059	205.6962	206.2052	203.4976	204
2876200.0	NaN	NaN	NaN	NaN	210.0298	210.599	211.1873	211.7925	209
2876600.0	NaN	NaN	NaN	NaN	214.8248	215.4724	216.1397	216.8244	217
2877000.0	NaN	NaN	NaN	NaN	219.5846	220.3097	221.0559	221.8202	222
2877400.0	NaN	NaN	NaN	NaN	224.3022	225.1039	225.9281	226.7721	227
2877800.0	NaN	NaN	NaN	NaN	228.9706	229.8471	230.7483	231.6715	232
2878200.0	NaN	NaN	NaN	NaN	NaN	234.5312	235.5076	236.5086	237
2878600.0	NaN	NaN	NaN	NaN	NaN	239.1477	240.1962	241.2727	242
2879000.0	NaN	NaN	NaN	NaN	NaN	243.6879	244.8043	245.9523	247
2879400.0	NaN	NaN	NaN	NaN	NaN	248.1434	249.3218	250.5352	251
2879800.0	NaN	NaN	NaN	NaN	NaN	252.5062	253.7393	255.0101	256
2880200.0	NaN	NaN	NaN	NaN	NaN	260.8808	261.8511	262.8488	263
2880600.0	NaN	NaN	NaN	NaN	NaN	265.1243	266.1393	267.1819	268
2881000.0	NaN	NaN	NaN	NaN	NaN	269.2623	270.3115	271.3867	272
2881400.0	NaN	NaN	NaN	NaN	NaN	273.2937	274.3671	275.4627	276
	NaN	MaN	NaN	NaN	NaN	277.2199	278.3082	279.4135	280

Figure 5. Windows XP Service Pack 2: Table Viewer that is used to preview Network Common Data Form (NetCDF) files in the EverVIEW NetCDF Slice and Dice Tool.

6. After you have finished previewing the file, click the "Slice and Dice" tab at the top. Select the grid variable(s) that you want to subset. You can select more than one grid variable by holding the shift or control key while clicking them.

EverVIEW Ne	etCDF Slice and Dice Tool
Slice and Dice	<b>9</b> 2000_q1.nc
💌 Open	
NetCDF File	:\Documents and Settings\chandrasekarana.GS\Desktop\2000_q1_v1\2000_q1.nc Browse View
► Information	n
💌 Grids	
Please select th	ne grid(s) to subset (hold the shift key to select multiple grids).
💌 Constraints	
Dataset Extents	Min X/Lon         463400.0         Max X/Lon         577800.0           Min Y/Lat         2790200.0         Max Y/Lat         2951800.0
Time min	▼
Time max	✓
Subset	
	1

Figure 6. Windows XP Service Pack 2: Selecting grid(s) within the EverVIEW Slice and Dice Tool in order to subset Network Common Data Form (NetCDF) files.

- After selecting the grid(s), the minimum and maximum x/y or lattitude/longitude values will be populated in the "Dataset Extents" section.
- 8. Select the temporal bounds by specifying the start date and the end date from the drop down lists.

EverVIEW NetCDF Slice and Dice Tool	
Slice and Dice 2000_q1.nc	
▼ Open	
NetCDF File C:\Documents and Settings\chandrasekarana.GS\Desktop\2000_q1_v1\2000_q1.nc Browse	View
Information	
▼ Grids	
Please select the grid(s) to subset (hold the shift key to select multiple grids).          stage	
▼ Constraints	
Dataset Extents         Min X/Lon         463400.0         Max X/Lon         577800.0           Min Y/Lat         2790200.0         Max Y/Lat         2951800.0	
Time min 2000-01-01 12:00:00Z	
Time max V	
Subset	

Figure 7. Windows XP Service Pack 2: Defining spatial and temporal bounds in the EverVIEW Slice and Dice Tool in order to subset files.

- 9. Click on the "Subset" button to subset the data according to the specified constraints.
- 10. After clicking "Subset," a prompt will appear asking where to save the subsetted NetCDF file. Type in the name of a new NetCDF file, or select an existing NetCDF file, and click the "Save" button.The subsetted file will automatically be saved with a ".nc" extension.

EverVIEW N	etCDF Slice and	Dice Tool			
Slice and Dice	🛃 2000_q1.nc				
🔻 Open					
NetCDF File	:\Documents and S	ettings\chandrase	ekarana.GS\Desktop\2000_q1_v	1\2000_q1.nc	Browse
► Information	n				
▼ Grids					
Please select	Save As				? 🛛
stage	Save in:	🚞 2000_q1_v	v1	💌 G 👂 🛤 🖬 •	
Constraint     Dataset Extent	My Recent Documents Desktop	2000_q1			
Time min	My Documents				
Time max	My Computer				
		File name:	2001_sub	~	Save
	My Network	Save as type:	NetCDF Files (*.nc)	~	Cancel
24					
L				1	

Figure 8. Windows XP Service Pack 2: Saving the subsetted Network Common Data Form (NetCDF) file in the EverVIEW NetCDF Slice and Dice Tool.

11. Once the new NetCDF file has been created, a dialog box will appear letting you know that it was successful.

EverVIEW NetCDF S	Slice and Dice Tool 🗧 🗖 🔀
Ilice and Dice	
▼ Open	
NetCDF File C:\Docum	ents and Settings\chandrasekarana.GS\Desktop\2000_q1_v1\2000_q1.nc Browse View
Information	
▼ Grids	
Please select the grid(s)	to subset (hold the shift key to select multiple grids).  EverVIEW NetCDF Slice and Dice Tool  Output file is C:\Documents and Settings\chandrasekarana.G5\Desktop\2000 g1 v1\2001 sub.nc
▼ Constraints	
Dataset Extents	ОК
	Min Y/Lat 2790200.0 Max Y/Lat 2951800.0
Time min	2000-01-01 12:00:00Z
Time max	2000-01-03 12:00:002
Subset	

Figure 9. Windows XP Service Pack 2: Success dialog.

#### 12. The newly created NetCDF file will automatically open in the NetCDF Table Viewer.

Ties and Die		at as 🗐 20	01 aub as \$	2					
blice and Dici	e 📉 2000_		JUI_SUD.NC 2	°					
etCDF T	able Vie	ewer							
Open									
etCDF File	C:\Document	ts and Setting	s\chandrasek	arana.GS\Des	:ktop\2000_q1	_v1\2001_su	b.nc	ſ	Browse
Table									
rid: stage			👻 Time Step	p: 2000-01-0	01 12:00:00Z	*		Expor	t to CSV
	463400.0	463800.0	464200.0	464600.0	465000.0	465400.0	465800.0	466200.0	466 🔨
2867800.0	NaN	111.7028	110.7777	109.8306	109.0682	108.061	107.0376	106.0012	104
2868200.0	NaN	115.6253	114.78	114.1184	113.2162	112.2986	111.3681	110.4282	108
2868600.0	NaN	119.6282	119.0659	118.2672	117.4537	116.6277	115.792	113.4086	112
2869000.0	NaN	123.9036	123.2065	122.4957	121.7727	121.0399	118.6339	118.035	117
2869400.0	NaN	128.0278	127.4179	126.7966	124.236	123.7321	123.2319	122.7397	122
2869800.0	NaN	132.2145	131.6932	129.1024	128.6974	128.2952	127.8991	127.5131	127
2870200.0	NaN	134.1395	133.8318	133.5244	133.2192	132.919	132.6267	132.3459	132
2870600.0	NaN	NaN	138.2082	137.9989	137.7938	137.5953	137.4062	137.2298	137
2871000.0	NaN	NaN	142.6292	142.5183	142.4134	142.3163	142.2298	142.1566	142
2871400.0	NaN	NaN	147.0879	147.0756	147.0707	147.0748	147.09	147.1189	147
2871800.0	NaN	NaN	151.5774	151.6638	151.7587	151.8634	151.9798	152.1096	152
2872200.0	NaN	NaN	NaN	156.2758	156.4704	156.6755	156.8923	157.1222	157
2872600.0	NaN	NaN	NaN	160.9051	161.1992	161.5043	161.821	162.1503	162
2873000.0	NaN	NaN	NaN	167.1787	165.9384	166.3432	166.7596	167.1877	167
2873400.0	NaN	NaN	NaN	171.8972	172.1804	171.1859	171.7017	172.2283	172
2873800.0	NaN	NaN	NaN	NaN	176.9939	176.0259	176.6411	177.2663	177
2874200.0	NaN	NaN	NaN	NaN	185.7395	182.2875	181.5714	182.2955	183
2874600.0	NaN	NaN	NaN	NaN	190.6206	187.183	187.7713	187.3098	188
2875000.0	NaN	NaN	NaN	NaN	195.4956	195.8268	192.7431	192.3025	193
2875400.0	NaN	NaN	NaN	NaN	200.3592	200.7702	201.1998	198.4795	198
2875800.0	NaN	NaN	NaN	NaN	205,2059	205.6962	206.2052	203.4976	204
2876200.0	NaN	NaN	NaN	NaN	210.0298	210.599	211.1873	211.7925	209
2876600.0	NaN	NaN	NaN	NaN	214,8248	215,4724	216.1397	216.8244	217
2877000.0	NaN	NaN	NaN	NaN	219 5846	220 3097	221.0559	221 8202	222

Figure 10. Windows XP Service Pack 2: Table Viewer in the EverVIEW Slice and Dice Tool showing the subsetted Network Common Data Form (NetCDF) files.

13. From here, you can select the grid variable and time step for which you want to view data.

verVIEW N	etCDF Slic	e and Dice	Tool						
Slice and Dice	2000_	q1.nc 🛃 20	01_sub.nc 8	3					
etCDF Ta	able Vie	ewer							
Onen									
letCDF File	C:\Document	s and Setting	s\chandrasek	arana.GS\Des	ktop\2000_q1	_v1\2001_su	b.nc		Browse
Table									
								_	
irid: stage			Y Time Step	): 2000-01-0	01 12:00:00Z	~		Expor	t to CSV
	463400.0	463800.0	464200.0	464600.0	465000.0	465400.0	465800.0	466200.0	466 🔨
2867800.0	NaN	111.7028	110.7777	109.8306	109.0682	108.061	107.0376	106.0012	104
2868200.0	NaN	115.6253	114.78	114.1184	113.2162	112.2986	111.3681	110.4282	108
2868600.0	NaN	119.6282	119.0659	118.2672	117.4537	116.6277	115.792	113.4086	112
2869000.0	NaN	123.9036	123.2065	122.4957	121.7727	121.0399	118.6339	118.035	117
2869400.0	NaN	128.0278	127.4179	126.7966	124.236	123.7321	123.2319	122.7397	122
2869800.0	NaN	132.2145	131.6932	129.1024	128.6974	128.2952	127.8991	127.5131	127
2870200.0	NaN	134.1395	133.8318	133.5244	133.2192	132.919	132.6267	132.3459	132
2870600.0	NaN	NaN	138.2082	137.9989	137.7938	137.5953	137.4062	137.2298	137
2871000.0	NaN	NaN	142.6292	142.5183	142.4134	142.3163	142.2298	142.1566	142
2871400.0	NaN	NaN	147.0879	147.0756	147.0707	147.0748	147.09	147.1189	147
2871800.0	NaN	NaN	151.5774	151.6638	151.7587	151.8634	151.9798	152.1096	152
2872200.0	NaN	NaN	NaN	156.2758	156.4704	156.6755	156.8923	157.1222	157
2872600.0	NaN	NaN	NaN	160.9051	161.1992	161.5043	161.821	162.1503	162
2873000.0	NaN	NaN	NaN	167.1787	165.9384	166.3432	166.7596	167.1877	167
2873400.0	NaN	NaN	NaN	171.8972	172.1804	171.1859	171.7017	172.2283	172
2873800.0	NaN	NaN	NaN	NaN	176.9939	176.0259	176.6411	177.2663	177
2874200.0	NaN	NaN	NaN	NaN	185.7395	182.2875	181.5714	182.2955	183
2874600.0	NaN	NaN	NaN	NaN	190.6206	187.183	187.7713	187.3098	188
2875000.0	NaN	NaN	NaN	NaN	195.4956	195.8268	192.7431	192.3025	193
2875400.0	NaN	NaN	NaN	NaN	200.3592	200.7702	201.1998	198.4795	198
2875800.0	NaN	NaN	NaN	NaN	205.2059	205.6962	206.2052	203.4976	204
2876200.0	NaN	NaN	NaN	NaN	210.0298	210.599	211.1873	211.7925	209
2876600.0	NaN	NaN	NaN	NaN	214.8248	215.4724	216.1397	216.8244	217
2877000.0	NaN	NaN	NaN	NaN	219.5846	220,3097	221.0559	221,8202	222

Figure 11. Windows XP Service Pack 2: Selecting the grid and time step in the EverVIEW Slice and Dice Tool Table Viewer.

14. From this view, you can also export the data for the current Grid and Time Step to CSV format by clicking the "Export to CSV" button.

cline and Die		-1	201	,					
blice and Dio	e 📉 2000_	g1.nc 📉 2l	JU1_SUD.nc 20						
etCDF T	able Vie	ewer							
Open									
etCDF File	C:Document	ts and Setting	sichandraseka	rana.GS\Des	kton\2000_a1	v1\2001_su	h.nc		Browse
L			- 1					(	DIOWSC
Table									
rid: stage			V Time Sten	: 2000-01-0	1 12:00:007	~		Expor	t to CSV
nar prago	1	,	1		1	-	1	L	
	463400.0	463800.0	464200.0	464600.0	465000.0	465400.0	465800.0	466200.0	466 🔨
2867800.0	NaN	111.7028	110.7777	109.8306	109.0682	108.061	107.0376	106.0012	104
2868200.0	NaN	115.6253	114.78	114.1184	113.2162	112.2986	111.3681	110.4282	108
2868600.0	NaN	119.6282	119.0659	118.2672	117.4537	116.6277	115.792	113.4086	112
2869000.0	NaN	123.9036	123.2065	122.4957	121.7727	121.0399	118.6339	118.035	117
2869400.0	NaN	128.0278	127.4179	126.7966	124.236	123.7321	123.2319	122.7397	122
2869800.0	NaN	132.2145	131.6932	129.1024	128.6974	128.2952	127.8991	127.5131	127
2870200.0	NaN	134.1395	133.8318	133.5244	133.2192	132.919	132.6267	132.3459	132
2870600.0	NaN	NaN	138.2082	137.9989	137.7938	137.5953	137.4062	137.2298	137
2871000.0	NaN	NaN	142.6292	142.5183	142.4134	142.3163	142.2298	142.1566	142
2871400.0	NaN	NaN	147.0879	147.0756	147.0707	147.0748	147.09	147.1189	147
2871800.0	NaN	NaN	151.5774	151.6638	151.7587	151.8634	151.9798	152.1096	152
2872200.0	NaN	NaN	NaN	156.2758	156.4704	156.6755	156.8923	157.1222	157
2872600.0	NaN	NaN	NaN	160.9051	161.1992	161.5043	161.821	162.1503	162
2873000.0	NaN	NaN	NaN	167.1787	165.9384	166.3432	166.7596	167.1877	167
2873400.0	NaN	NaN	NaN	171.8972	172.1804	171.1859	171.7017	172.2283	172
2873800.0	NaN	NaN	NaN	NaN	176.9939	176.0259	176.6411	177.2663	177
2874200.0	NaN	NaN	NaN	NaN	185.7395	182.2875	181.5714	182.2955	183
2874600.0	NaN	NaN	NaN	NaN	190.6206	187.183	187.7713	187.3098	188
2875000.0	NaN	NaN	NaN	NaN	195,4956	195.8268	192.7431	192.3025	193
2875400.0	NaN	NaN	NaN	NaN	200,3592	200,7702	201,1998	198,4795	198
2875800.0	NaN	NaN	NaN	NaN	205.2059	205.6962	206.2052	203,4976	204
2876200.0	NaN	NaN	NaN	NaN	210.0298	210.599	211.1873	211.7925	209
2876600.0	NaN	NaN	NaN	NaN	214,8248	215.4724	216.1397	216.8244	217
2070000.0	NI-NI	NI-NI	NoN	NISN	210 5944	220 2007	221.0550	221 0202	222

Figure 12. Windows XP Service Pack 2: Exporting a grid to a comma-separated value (CSV) file in the EverVIEW NetCDF Slice and Dice Tool.

# Mac Operating System X 10.5

#### Installation

Download the image file (.dmg) and double click on it to mount the software. Some users may prefer to drag the "EverVIEW NetCDF Slice and Dice Tool" into the applications directory. This software requires write permission to the installation directory in order to function properly.

#### **User Instructions**

 Run the application. To do this, navigate to the folder where the tool is installed and double click on EverVIEW\_NetCDFSDTool application. The application can only be run from this directory, because it depends on other files and folders in the installation directory.

000	EverVIEW NetCDF SI	ide and Dice Tool		
		<b>☆</b> -	٩	
<ul> <li>DEVICES</li> <li>SHARED</li> <li>PLACES</li> <li>SEARCH FOR</li> </ul>	Name  Configuration EverVIEW_NetCDFSDTool Features Dugins	Date Modified Mar 31, 2009, 10:25 AM Mar 26, 2009, 4:17 PM Mar 26, 2009, 4:17 PM Mar 26, 2009, 4:17 PM	Size 92 KB  	Kind Folder Application Folder Folder
	1 of 4 selected, 14.7	7 MB available		1.

Figure 13. Mac Operating System X 10.5: Installation folder showing the EverVIEW\_NetCDFSDTool executable.

- 2. The EverVIEW NetCDF Slice and Dice Tool will open and check to see if any updates are available. If updates are available, they will be installed automatically.
- 3. Click the "Browse" button and select the NetCDF file to subset.

000	EverVIEW NetC	DF Slice and Dice Tool	
Slice and Dice			
▼ Open			
NetCDF File /Volum	es/eelab/project data/EverView/da	a/multi var/2008_q4_ss_multi_shared.nc Br	owse View
Information			
▼ Grids			
stage salinity			
✓ Constraints	Min V/I on	May Yil on	
Datase: Extents	Min X/Lat	Max X/Lon	
	Wint 17 Lat		
Time min	<b></b>		
Time max	. A		
Subset			
		1	
		]	

Figure 14. Mac Operating System X 10.5: Opening a Network Common Data Form (NetCDF) file in the EverVIEW NetCDF Slice and Dice Tool.

4. If you would like to preview the original NetCDF file, click the "View" button.

000	EverVIEW NetCDF Slice and Dice Tool	
Slice and Dice		
▼ Open		
NetCDF File /Volume	es/eelab/project data/EverView/data/multi var/2008_q4_ss_multi_shared.nc	owse
Information		
▼ Grids		
Please select the grid	s) to subset (hold the shift key to select multiple grids)	
stage salinity		
▼ Constraints Dataset Extents	Min X/Lon Max X/Lon	
	Min Y/Lat Max Y/Lat	
Time min	\$	
Time max	\$	
Subset		

Figure 15. Mac Operating System X 10.5: Previewing a Network Common Data Form (NetCDF) file in the EverVIEW NetCDF Slice and Dice tool.

5. After clicking the "View" button, the NetCDF Table Viewer will be shown with the NetCDF file

you selected.

1	(ma)			1						_
Slice and Dice	2008_	q1_ss_multi	_shared.nc	23						
letCDF Tab	le Viewer	r								
• Open										
NetCDF File	/Volumes/ee	elab/project	data/EverVi	ew/data/mu	lti var/2008_	_q4_ss_mult	i_shared.nc	В	rowse	
Table										
Gr <mark>id</mark> : stage	8	‡ Tin	ne Step:	2008-10-01	12:0 ‡			Export	to CSV	
	553400.0	553800.0	554200.0	554600.0	555000.0	555400.0	555800.0	556200.0	55	
2910200.0	362.8875	362.7675	362.9888	371.7638	363.4534	370.9098	370.5418	370.2265	369	
2910600.0	362.5999	362.8625	363.1462	363.4497	363.7578	363.98	364.3496	364.7349	36!	
2911000.0	362.4211	362.8372	363.3105	363.4674	363.8982	364.3523	364.7552	365.1681	36!	
2911400.0	362.0707	362.5746	363.1313	363.6758	364.1805	364.6978	365.1468	365.4887	36!	
2911800.0	361.7184	362.4759	363.196	363.8357	364.4357	364.9432	365.4429	365.9076	366	
2912200.0	361.3881	362.3556	363.1988	363.9464	364.6899	365.2838	365.8291	366.3356	366	
2912600.0	361.2	362.2707	363.2328	364.1006	364.9387	365.5982	366.2065	366.7164	36:	
2913000.0	360.9099	362.141	363.244	364.2323	365.222	365.9455	366.5786	367.148	361	
2913400.0	357.3155	358.1967	359.0389	359.9296	365.502	366.2787	366.9607	367.5633	368	
2913800.0	358.656	359.246	360.2679	360.9362	361.7177	362.3543	362.9854	363.6771	364	
2914200.0	363.1357	360.7092	361.3052	358.9199	360.557	363.3854	363.9658	364.4895	36!	
2914600.0	363.909	364.9927	365.8968	363.1971	363.6851	367.8208	368.2019	364.7222	366	
2915000.0	364.726	365.8477	366.7695	364.1061	364.6322	365.055	368.9695	370.0874	37(	
2915400.0	365.6471	366.7923	367.7142	365.1706	365.5829	366.5797	366.9489	370.779	37(	
2915800.0	366.6577	367.8176	368.7468	366.2927	367.2117	367.5913	367.9641	368.2708	37:	
2916200.0	367.6464	368.7681	370.1626	367.7312	368.3586	368.6768	368.9363	369.1691	372	
2916600.0	368.7979	370.3381	368.8083	369.0618	369.2509	369.3883	369.5662	369.1105	368	
2917000.0	370.3006	371.5372	370.3525	370.4865	370.608	370.6665	370.189	370.172	369	
2917400.0	371.5388	372.8288	371.996	372.0371	371.6294	371.5274	371.4102	371.4299	37(	
2917800.0	373.4217	374.19	373.8131	373.4708	373.2274	373.0174	372.7967	373.0659	37:	
2918200.0	376.0227	375.9119	375.6657	375.3551	374.994	374.5598	374.0711	372.8269	372	
2918600.0	378.5526	378.1814	377.6905	377.1487	376.6605	376.1348	375.5428	373.9316	37:	

Figure 16. Mac Operating System X 10.5: Table Viewer in the EverVIEW Slice and Dice Tool that is used to preview a Network Common Data Form (NetCDF) file.

6. After you have finished previewing the file, click the "Slice and Dice" tab at the top. Now select the grid variable(s) that you want to subset. You can select more than one grid variable by holding the shift or control key while clicking them.

Since and Dice	008 a4 ss multi	shared pr			
	.000_q4_ss_multi_	snared.nc			
<ul> <li>Open</li> </ul>					
NetCDF File /Volum	nes/eelab/project (	data/EverView/data/	multi var/2008_q4_s	s_multi_shared.nc	Browse View
Information					
Please select the grid	(s) to subset (hold	the shift key to sele	ct multiple grids).		
stage					
salinity					
<ul> <li>Constraints</li> </ul>					
	Min V/I on		May V/Lon		-
	MIN A/LON	553400.0	Max A/LON	577800.0	
Dataset Extents					
Dataset Extents	Min Y/Lat	2010200.0	Max Y/Lat	2051000.0	
Dataset Extents	Min Y/Lat	2910200.0	Max Y/Lat	2951800.0	
Dataset Extents	Min Y/Lat	2910200.0	Max Y/Lat	2951800.0	
Dataset Extents Time min	Min Y/Lat	2910200.0	Max Y/Lat	2951800.0	
Dataset Extents Time min	Min Y/Lat	2910200.0	Max Y/Lat	2951800.0	
Dataset Extents Time min Time max	Min Y/Lat	2910200.0	Max Y/Lat	2951800.0	
Dataset Extents Time min Time max	Min Y/Lat	2910200.0	Max Y/Lat	2951800.0	
Dataset Extents Time min Time max	Min Y/Lat	2910200.0	Max Y/Lat	2951800.0	
Dataset Extents Time min Time max Subset	Min Y/Lat	2910200.0 ‡	Max Y/Lat	2951800.0	
Dataset Extents Time min Time max Subset	Min Y/Lat	2910200.0	Max Y/Lat	2951800.0	
Dataset Extents Time min Time max Subset	Min Y/Lat	2910200.0	Max Y/Lat	2951800.0	
Dataset Extents Time min Time max Subset	Min Y/Lat	2910200.0	Max Y/Lat	2951800.0	
Dataset Extents Time min Time max Subset	Min Y/Lat	2910200.0	Max Y/Lat	2951800.0	
Dataset Extents Time min Time max Subset	Min Y/Lat	2910200.0	Max Y/Lat	2951800.0	
Dataset Extents Time min Time max Subset	Min Y/Lat	2910200.0	Max Y/Lat	2951800.0	
Dataset Extents Time min Time max Subset	Min Y/Lat	2910200.0	Max Y/Lat	2951800.0	

**Figure 17.** Mac Operating System X 10.5: Selecting grid(s) in the EverVIEW Slice and Dice Tool in order to subset files in Network Commona Data Form (NetCDF).

- After selecting the grid(s), the minimum and maximum x/y or latitude/longitude values will be populated in the "Dataset Extents" section.
- 8. Select the temporal bounds by specifying the start date and the end date from the drop down lists.

000	EverVIEW NetCDF Slice and Dice Tool
Slice and Dice 2	2008_q4_ss_multi_shared.nc
▼ Open	
NetCDF File /Volum	nes/eelab/project data/EverView/data/multi var/2008_q4_ss_multi_shared.nc Browse View
Information	
➡ Grids	
Please select the grid stage salinity	l(s) to subset (hold the shift key to select multiple grids).
✓ Constraints Dataset Extents	Min X/Lon         S53400.0         Max X/Lon         577800.0           Min Y/Lat         2910200.0         Max Y/Lat         2951800.0
Time min Time max	2008-10-01 ‡
Subset	

Figure 18. Mac Operating System X 10.5: Defining spatial and temporal bounds in the EverVIEW Slice and Dice Tool in order to subset Network Common Data Form (NetCDF) files.

- 9. Click on the "Subset" button to subset the data according to the specified constraints
- 10. After clicking "Subset," a prompt will appear asking you where to save the subsetted NetCDF file.

Type in the name of a new NetCDF file, or select an existing NetCDF file, and click the "Save" button.

Sav	e As: 2008_q4_subset.r	nc		
< > (iii)	🔳 🔟 📋 multi var		¢ Q search	$\supset$
<ul> <li>DEVICES</li> <li>SHARED</li> <li>PLACES</li> </ul>	<ul> <li>2008_q4_sshai</li> <li>2008_q4_sared</li> <li>2008_q4_suniqi</li> <li>2008_q4_suniqi</li> <li>2008_q4_suniqi</li> <li>2008_q4_suniqi</li> <li>2208_q4_subset</li> </ul>	red.nc _ss.nc ue.csv que.nc		
		11		

Figure 19. Mac Operating System X 10.5: Saving subsetted Network Common Data Form (NetCDF) files in the EverVIEW NetCDF Slice and Dice Tool.

11. Once the new NetCDF file has been created, a dialog box will appear letting you know that it was successful.

00	EverVIEW NetCDF Slice and Dice Tool	
(1)	Output file is /Users/bubba/Desktop/2008_q4_subset.nc	
		ОК

Figure 20. Mac Operating System X 10.5: Success dialog.

#### 12. The newly created NetCDF file will automatically be opened in the NetCDF Table Viewer.

Slice and Dice	2 2008_	q4_ss_multi	_shared.nc	2208_q	4_subset ⊠				
tCDF Tab	le Viewer	ć							
Open									
etCDF File	/Volumes/e	elab/project	data/EverVi	ew/data/mu	ti var/2208	q4 subset		B	OW5P
				N 03					onse
Table									
rable									
100000									
Grid: stage	8	‡ Tin	ne Step:	2008-10-01	12:0 ‡			Export	to CSV
	553400.0	553800.0	554200.0	554600.0	555000.0	555400.0	555800.0	556200.0	55
2917400.0	371.5388	372.8288	371.996	372.0371	371.6294	371.5274	371.4102	371.4299	37(
2917800.0	373.4217	374.19	373.8131	373.4708	373.2274	373.0174	372.7967	373.0659	37:
2918200.0	376.0227	375.9119	375.6657	375.3551	374.994	374.5598	374.0711	372.8269	372
2918600.0	378.5526	378.1814	377.6905	377.1487	376.6605	376.1348	375.5428	373.9316	37:
2919000.0	383.3204	380.5551	380.1519	379.3207	378.6115	377.9166	377.18	375.4283	374
2919400.0	386.4373	383.033	382.5603	381.9878	380.8511	379.9696	379.0735	377.148	376
2919800.0	389.5963	387.0863	385.0959	384.4503	383.3129	382.263	381.1972	379.1137	37:
2920200.0	389.4699	390.0239	388.6003	387.0552	386.2218	384.7612	383.038	381.3219	380
2920600.0	392.2992	390.5352	389.0932	387.3442	386.4294	385.3758	383.6388	384.2486	382
2921000.0	396.7296	395.2658	393.8154	392.3718	389.1571	388.081	386.2515	384.7531	383
2921400.0	399.8546	398.4373	397.0075	395.5591	394.0826	392.8899	391.6349	389.4162	387
2921800.0	403.0923	401.73	400.3332	398.6688	397.2106	396.0798	394.8051	393.3392	39:
2922200.0	406.4404	405.1425	403.524	402.1358	400.6819	399.1571	398.1967	396.9876	392
2922600.0	409.579	408.3768	407.1032	405.7517	404.3176	402.8481	401.4922	400.6692	399
2923000.0	413.1345	412.0175	410.8114	409.5093	408.1073	402.2832	405.3109	404.5351	402
2923400.0	416.7867	415.7675	414.6413	413.7029	412.3126	410.8699	409.2775	407.5999	403
2923800.0	417.4753	419.6179	418.888	417.6885	416.35	414.9438	413.3718	411.7059	409
2924200.0	422.5523	421.8109	422.9011	421.7835	420.5024	419.1265	417.5667	415.7385	414
2924600.0	421.5351	426.7111	427.0086	425.9812	426.7032	429.9066	421.5472	420.3699	419
2925000.0	430.8148	430.8264	430.0857	430.269	428.2711	427.3011	426.181	424.99	423
2925400.0	435.2835	434.9787	434.8935	433.1931	432.941	431.9535	430.7813	429.5335	428
2925800.0	439.3515	437.4341	438.0258	438.1531	437.6333	436.5611	435.273	433.9225	424
				2000 10 10 10 10 10 10					1000

Figure 21. Mac Operating System X 10.5: Table Viewer in the EverVIEW Slice and Dice Tool showing subsetted Network Common Data Form (NetCDF) files.

## 13. From here, you can select the grid variable and time step for which you want to view data.

ice and Dice	2008_	q4_ss_multi	_shared.nc	<b>1</b> 2208_q4	4_subset ⊠				
CDF Tab	le Viewer								
Open									
tCDF File	/Volumes/er	elab/project	data/EverVi	w/data/mul	ti var/2208	o4 subset		R	inus e
	ronannesper	ciab/projece	crace, crei in	erry ducey mos	d var, 2200	di Danner		D.	UNSC
Table									
lable									
		_							
id: stage		Tin	ne Step:	2008-10-01	12:0	)		Export	to CSV
	553400.0	553800.0	554200.0	554600.0	555000.0	555400.0	555800.0	556200.0	55
2917400.0	371.5388	372.8288	371.996	372.0371	371.6294	371.5274	371.4102	371.4299	37(
2917800.0	373.4217	374.19	373.8131	373.4708	373.2274	373.0174	372.7967	373.0659	37:
2918200.0	376.0227	375.9119	375.6657	375.3551	374.994	374.5598	374.0711	372.8269	372
2918600.0	378.5526	378.1814	377.6905	377.1487	376.6605	376.1348	375.5428	373.9316	37:
2919000.0	383.3204	380.5551	380.1519	379.3207	378.6115	377.9166	377.18	375.4283	374
2919400.0	386.4373	383.033	382.5603	381.9878	380.8511	379.9696	379.0735	377.148	376
2919800.0	389.5963	387.0863	385.0959	384.4503	383.3129	382.263	381.1972	379.1137	371
2920200.0	389.4699	390.0239	388.6003	387.0552	386.2218	384.7612	383.038	381.3219	380
2920600.0	392.2992	390.5352	389.0932	387.3442	386.4294	385.3758	383.6388	384.2486	382
2921000.0	396.7296	395.2658	393.8154	392.3718	389.1571	388.081	386.2515	384.7531	383
2921400.0	399.8546	398.4373	397.0075	395.5591	394.0826	392.8899	391.6349	389.4162	381
2921800.0	403.0923	401.73	400.3332	398.6688	397.2106	396.0798	394.8051	393.3392	39:
2922200.0	406.4404	405.1425	403.524	402.1358	400.6819	399.1571	398.1967	396.9876	392
2922600.0	409.579	408.3768	407.1032	405.7517	404.3176	402.8481	401.4922	400.6692	399
2923000.0	413.1345	412.0175	410.8114	409.5093	408.1073	402.2832	405.3109	404.5351	402
2923400.0	416.7867	415.7675	414.6413	413.7029	412.3126	410.8699	409.2775	407.5999	403
2923800.0	417.4753	419.6179	418.888	417.6885	416.35	414.9438	413.3718	411.7059	409
2924200.0	422.5523	421.8109	422.9011	421.7835	420.5024	419.1265	417.5667	415.7385	414
2924600.0	421.5351	426.7111	427.0086	425.9812	426.7032	429.9066	421.5472	420.3699	419
2925000.0	430.8148	430.8264	430.0857	430.269	428.2711	427.3011	426.181	424.99	423
2925400.0	435.2835	434.9787	434.8935	433.1931	432.941	431.9535	430.7813	429.5335	428
2925800.0	439.3515	437.4341	438.0258	438.1531	437.6333	436.5611	435.273	433.9225	424
				and the second se		441 0363			

Figure 22. Mac Operating System X 10.5: Selecting the grid and time step in the Table Viewer of the EverVIEW Slice and Dice Tool.

14. From this view, you can also export the data for the current Grid and Time Step to CSV format by clicking the "Export to CSV" button.

Slice and Dice	2008_	q4_ss_multi	_shared.nc	1 2208_q	1_subset 🕄					
letCDF Tab	le Viewer	1								
▼ Open										
NetCDF File	/Volumes/ee	elab/project	data/EverVi	ew/data/mu	lti var/2208	q4_subset		Br	rowse	
- Table										
			CARLENCE AND							
Grid: stage	£	‡ Tin	ne Step:	2008-10-01	12:0 🗘			Export	to CSV	ν
		1		1	1		1	1		÷
	553400.0	553800.0	554200.0	554600.0	555000.0	555400.0	555800.0	556200.0	55	1
2917400.0	371.5388	372.8288	371.996	372.0371	371.6294	371.5274	371.4102	371.4299	370	
2917800.0	373.4217	374.19	373.8131	373.4708	373.2274	373.0174	372.7967	373.0659	37.	
2918200.0	376.0227	375.9119	375.6657	375.3551	374.994	374.5598	374.0711	372.8269	37.	
2918600.0	378.5526	378.1814	377.6905	377.1487	376.6605	376.1348	375.5428	373.9316	3/:0	í.
2919000.0	383.3204	380.5551	380.1519	379.3207	378.6115	377.9166	377.18	375.4283	374	
2919400.0	386.4373	383.033	382.5603	381.9878	380.8511	379.9696	379.0735	377.148	3/1	
2919800.0	389.5963	387.0863	385.0959	384.4503	383.3129	382.263	381.1972	3/9.113/	3/1	
2920200.0	202 2002	390.0239	300.0003	307.0002	300.2210	304.7012	202.020	301.3219	201	
2920600.0	392.2992	390.3332	202 0154	202 2710	200 1571	303.3730	206.000	304.2400	201	
2921000.0	390.7290	393.2038	393.8154	392.3718	309.1571	303,001	201 6240	304./331	30:	1
2921400.0	402 0022	398.4373	397.0075	393.3391	394.0820	392.0099	391.0349	303.4102	20.	
2921800.0	405.0925	401.75	400.3332	403 1350	400 6910	200 1571	394.0051	393.3392	39.	
2922200.0	400.4404	405.1425	403.324	402.1338	400.0819	402 8481	401 4022	400 6603	394	
2922600.0	409.379	412 0175	410 8114	403./31/	404.3170	402.0401	401.4922	400.0092	40	
2923000.0	416 7867	415 7675	414 6412	413 7020	412 3126	410 8600	409.3109	407 5000	402	
2923400.0	417 4753	419 6179	418 888	417 6885	416.35	414 9439	413 3718	411 7050	400	
2923800.0	422 5523	421 8109	422 9011	421 7835	420 5024	419 1265	417 5667	415 7385	414	
2924500.0	421.5351	426.7111	427.0086	425,9812	426,7032	429,9066	421.5472	420,3699	410	
2925000.0	430.8148	430.8264	430.0857	430,269	428,2711	427.3011	426.181	424.99	42:	
2925400.0	435,2835	434.9787	434,8935	433,1931	432.941	431.9535	430,7813	429.5335	421	
2925400.0	439,3515	437,4341	438.0258	438,1531	437,6333	436.5611	435.273	433,9225	424	
2925800.0									2010	

 Figure 23.
 Mac Operating System X 10.5: Exporting a grid to a comma-separated value (CSV) file in the

EverVIEW NetCDF Slice and Dice Tool.

# Ubuntu 8.10

#### Installation

The software is available for download at *http://jem.cr.usgs.gov/everview.aspx*. Extract the zip file into a folder on your local machine and run the executable file. This software requires write permission to the installation directory in order to function properly.

#### **User Instructions**

 Run the application. To do this, navigate to the folder where the tool is installed and double click on EverVIEW\_NetCDFSDTool. You may need to give the file permissions to execute as a program in order for it to run. The application can only be run from this directory, because it depends on other files and folders in the installation directory.





 The EverVIEW NetCDF Slice and Dice Tool will open and check to see if any updates are available.

	EverVIEW NetCDF	Slice and Dice Tool	
Slice and Dice			
• Open			
NetCDF File			Brcwse
Information			
- Grids			
• Constraints Dataset Extents	Min X/Lon Min Y/Lat	Max X/Lor Max Y/Lat	
lime min			
lime max	[] ↓ ↓		
Subset			

Figure 25. Ubuntu 8.10: Automatic updates.

3. Click the "Browse" button and select the NetCDF file to subset.

4	EverVIEW NetCDF	Slice and Dice Tool	×
Slice and Dice			
• Open			
VetCDF File /home/	/ubuntu/Desktop/2008_q4.n	c	Brcwse
Information			
▼ Grids			
Diagona coloct the g	rid(r) to subcer (bold the eb	ift kou to coloct poultiple gride)	
stage	id(s) to subse. (hold the sh	iit key to select multiple gras).	
stage			
▼ Constraints			
Detect Extents	Min X/Lop	Max X/Lon	
Dataset Extents	Min Y/Lat	Max Y/Lat	_
			_
Time min	×		
Time max			
	3		
Subset			

Figure 26. Ubuntu 8.10: Opening a Network Common Data Form (NetCDF) file in EverVIEW.

4. If you would like to preview the original NetCDF file, click the "View" button.

	EverVIEW NetCDF	Slice and Dice Tool	×
Slice and Dice			
▼ Open			
NetCDF File /home,	/ubuntu/Desktop/2008_q4.n	c	Brcwse
Information			
▼ Grids			
Please select the g	rid(s) to subse: (hold the sh	ift key to select multiple grids).	
stage			
Dataset Extents	Min X/Lon	Max X/Lor	
	Min Y/Lat	Max Y/Lat	
Time min	×		
Time max	· · ·		
Subset			

**Figure 27.** Ubuntu 8.10: Previewing a Network Common Data Form (NetCDF) file in the EverVIEW NetCDF Slice and Dice Tool.

5. After clicking the "View" button, the NetCDF Table Viewer will be shown with the NetCDF file you selected.

		Everviev	W NetCD	F Slice an	d Dice 10	01			
Slice and Di	ce 🖪 200	)8_q4.rc Σ	z						
letCDF Ta	ble Vie	wer							
Onen									
open									
	I								
NetCDF File	/nome/ub.	untu/Deski	op/2008_0	q4.nc				Brow	se
Table									
laste									
Cride stage		Tir	na Ctani	2002.10	01.12:00.		G		0
Ghu: stage		• ] III	ne step:	2005-10-		*		Export to C	50
	4630	4630	4640	4640	4650	4650	4650	4660	ľ
2790200.0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2790600.C	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2791000.C	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2791400.C	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2791800.C	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2792200.C	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2792600.C	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2793000.0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2793400.C	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2793800.0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2794200.0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2794600.0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2795000.C	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2795400.C	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2795800.0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2796200.C	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2796600.C	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2797000.C	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2797400.C	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2797800.C	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2798200.0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2798600.C	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
< - 111 -								3	

Figure 28. Ubuntu 8.10: Table Viewer in the EverVIEW Slice and Dice Tool used to preview a Network Common Data Form (NetCDF) file.

6. After you have finished previewing the file, click the "Slice and Dice" tab at the top. Now select the grid variable(s) that you want to subset. You can select more than one grid variable by holding the shift or control key while clicking them.

Slice and Dice	2008 g4.nc					
	2000_41110					
• Open						
NetCDF File /home,	/ubuntu/Deskte	op/2008_q4.nc			Browse	View
						1.0000
Information						
▼ Grids						
Please select the g	rid(s) to subse	t (hold the shift k	ey to select multi	ple grids).		
stage	>		•			
<ul> <li>Constraints</li> </ul>						
	Min X/Lon	463400.0	Max X/Lon	577800.0		
Dataset Extents	1-IIII A COLL					
Dataset Extents	Min V/Lat	2790200.0	, Max Y/Lat	2951800.0		
Dataset Extents	Min Y/Lat	2790200.0	Max Y/Lat	2951800.0		
Dataset Extents Time min	Min Y/Lat	2790200.0	Max Y/Lat	2951800.0		
Dataset Extents Time min Time max	Min Y/Lat	2790200.0	Max V/Lat	2951800.0		
Dataset Extents Time min Time max	Min Y/Lat	2790200.0 ~	Max Y/Lat	2951800.0		
Time min Time max	Min V/Lat	2790200.0	Max Y/Lat	2951800.0		
Dataset Extents Time min Time max Subset	Min Y/Lat	2790200.0	Max V/Lat	2951800.0		
Dataset Extents Time min Time max Subset	Min Y/Lat	2790200.0	Max Y/Lat	2951800.0		
Dataset Extents Time min Time max Subset	Min Y/Lat	2790200.0	Max Y/Lat	2951800.0		
Dataset Extents Time min Time max Subset	Min V/Lat	2790200.0	Max Y/Lat	2951800.0		
Dataset Extents Time min Time max Subset	Min Y/Lat	2790200.0	Max Y/Lat	2951800.0		
Dataset Extents Time min Time max Subset	Min Y/Lat	2790200.0	Max Y/Lat	2951800.0		
Dataset Extents Time min Time max Subset	Min Y/Lat	2790200.0	Max Y/Lat	2951800.0		

Figure 29. Ubuntu 8.10: Selecting grid(s) in the EverVIEW Slice and Dice Tool in order to subset Network Commona Data Form (NetCDF) files.

- After selecting the grid(s), the minimum and maximum x/y or latitude/longitude values will be populated in the "Dataset Extents" section.
- 8. Select the temporal bounds by specifying the start date and the end date from the drop-down lists.

4	EverVIEW NetCI	OF Slice and D	ice Tool	_ • ×
Slice and Dice	2008_q4.nc			
▼ Open				
NetCDF File /home,	/ubuntu/Desktop/2008	_q4.nc		Browse View
Information				
👻 Grids				
Please select the g	ʻid(s) to subset (hold t	he shift key to s	elect multiple grids).	
<ul> <li>Constraints</li> </ul>				
Dataset Extents	Min X/Lon 463400 Min Y/Lat 279020	0.0	Max X/Lon 577800.0 Max Y/Lat 2951800.	•
Time min Time max	2008-10-01 12			
Subset				

Figure 30. Ubuntu 8.10: Defining spatial and temporal bounds in the EverVIEW Slice and Dice Tool in order to subset Network Common Data Form (NetCDF) files.

- 9. Click on the "Subset" button to subset the data according to the specified constraints
- 10. After clicking "Subset," a prompt will appear asking you where to save the subsetted NetCDF file.

Type in the name of a new NetCDF file, or select an existing NetCDF file, and click the "Save" button.

				(
<u>N</u> ame:	2008_q4_sub	set.nc		
Save in <u>f</u> olcer:	🔍 Desktop			
✓ <u>B</u> rowse for o	ther folders	EverVIEW NetCDE Slice and Dice Too		reste Folde
Places		Name	·	Modified
🥃 John and a state of the stat		EverVIEW NetCDF Slide and Dice Tool		13:58
🔳 Desktop		2008_q4.nc		07/03/09
🛁 -ile System 🚽 CD-RW/DVD-		🖹 2008_q4_ss.nc		Monday
Cocuments				
Pictures	~			
de Add	- Bernove		NetCDF File	es (*.nc) 🗸
			😢 <u>C</u> ancel	<u>ек</u>
				- <u>-</u>

Figure 31. Ubuntu 8.10: Saving subsetted Network Common Data Form (NetCDF) files in the EverVIEW NetCDF Slice and Dice Tool.

11. Once the new NetCDF file has been created, a dialog box will appear letting you know that it was successful.

EverVIEW NetCDF Slice and Dice Tool	×
Output file is /home/ubuntu/Desktop/2008_q4_subset.nc	
	ОК

Figure 32. Ubuntu 8.10: Success dialog.

12. The newly created NetCDF file will automatically be opened in the NetCDF Table Viewer.

Slice a	nd Dic	e 🖪 200	8_q4.nc	<b>1</b> 2008_q	4_subset.r	ic 🛛				
etCD	F Tak	ole Viev	wer							
Open	Ì									
NetCDF	File /	home/ubu	untu/Deskt	op/2008	q4 subset.	nc			Brow	60
				. –	· <del>.</del>				Brow	
Table	e.									
Grid:	stage		V Tir	ne Step:	2008-10-	01 12:00:	~		Export to C	sv
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28626	00.0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	1
28630	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
28634	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
28638	00.0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
28642	0.00	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
28646	00.0	NaN	NaN	NaN	NaN	NaN	NaN	102.679	10129	
28650	0.00	NaN	NaN	NaN	10988	10821	10773	10643	10438	
28654	0.00	NaN	11405	11349	11276	11164	11091	10964	108.519	
28658	00.0	11828	11742	116.574	11523	11493	11456	11393	11217	
28662	0.00	12182	12071	12067	11971	118.379	117.533	11603	11642	
28666	0.00	12448	12449	12381	12249	122.046	12124	12057	11976	-
28670	0.00	NaN	12729	12733	12699	125.804	12567	12498	12356	
28674	0.00	NaN	13161	13067	13064	12965	12985	12846	12772	
28678	0.00	NaN	13593	13426	13479	13367	13305	13219	13134	
28682	0.00	NaN	138.897	13853	13883	13777	13753	13636	13655	
28686	0.00	NaN	14236	14287	14111	14127	14153	14017	139.431	
28690	0.00	NaN	14636	14668	146.01	14548	14534	14528	14405	
28694	00.0	NaN	15013	15037	15085	14867	14979	14994	14889	
28698	0.00	NaN	15411	15435	15405	15308	15342	15341	15346	
28702	00.0	NaN	15799	15878	15886	157.972	15709	15786	15789	
28706	0.00	NaN	NaN	16287	16201	16264	16203	16249	16238	
28710	00.0	NaN	NaN	16663	16682	16669	16651	16656	16616	~
< .m									)	-

Figure 33. Ubuntu 8.10: Table Viewer in the EverVIEW Slice and Dice Tool showing subsetted Network Common Data Form (NetCDF) files.

AetCDF Table Viewer           NetCDF File /home/ubuntu/Desktop/2008_q4_subset.nc         Bru           Stage         Tote Ster         2008-10-01 12:00:         Export tot           Tote Ster         2008-10-01 12:00:         Export tot           Stage         Tote Ster         2008-10-01 12:00:         Export tot           Stage total         4630         4650         4650         4650         4650         4650         4650         4650         4650         4650         4650         4650         4650         4660           2865800.0         NaN         NaN <th colspan<="" th=""><th>Slice a</th><th>ind Di</th><th>ce 🖪 200</th><th>)8_q4.n</th><th>c</th><th>2008_q</th><th>4_subset.r</th><th>nc 🖾</th><th></th><th></th><th></th><th></th></th>	<th>Slice a</th> <th>ind Di</th> <th>ce 🖪 200</th> <th>)8_q4.n</th> <th>c</th> <th>2008_q</th> <th>4_subset.r</th> <th>nc 🖾</th> <th></th> <th></th> <th></th> <th></th>	Slice a	ind Di	ce 🖪 200	)8_q4.n	c	2008_q	4_subset.r	nc 🖾				
Open           NetCDF File         /home/ubuntu/Desktop/2008_q4_subset.nc         Browne           Table         Export to           Grid:         stage         Tore         2008-10-01         12:00:         Export to           4630         4630         4640         4640         4650         4650         4660         4660           2862500.0         NaN         NaN         NaN         NaN         NaN         NaN         NaN         NaN           286300.0         NaN	etCD	F Ta	ble Vie	wer									
NetCDF File         /home/ubuntu/Desktop/2008_q4_subset.nc         Bra           Table	Oper	Ĩ											
NetCDF File         /home/ubuntu/Desktop/2008_q4_subset.nc         Bra           Table         4630         4640         4640         4650	Sandaaaaa												
Table         Export to           Grie:         stage         Time Ster.         2008-10-01         12:00:         Export to           4630         4630         4640         4650         4650         4650         4660           2862600.0         NaN         NaN         NaN         NaN         NaN         NaN         NaN         NaN           286300.0         NaN         NaN         NaN         NaN         NaN         NaN         NaN         NaN           2863400.0         NaN         NaN         NaN         NaN         NaN         NaN         NaN         NaN           2863800.0         NaN           2864200.0         NaN         NaN         NaN         NaN         NaN         NaN         NaN         NaN           2865400.0         NaN         Na	VetCD	File	/home/ubi	untu/De	skt	op/2008 d	4 subset.	nc			Brow	0	
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2865800.01182811742116.5741152311493114561139311212866200.012182120711206711971118.379117.5331160311642866600.012448124491238112249122.0.4612124120571197286700.0NaN127291273312699125.80412567124981235286740.0NaN1316113067130641296512985128461277286780.0NaN1359313426134791336713305132191313286820.0NaN138.89713853138831377713753136361365286800.0NaN146361428714111141271415314017139.43286940.0NaN1501315037150851486714979149941488286980.0NaN15411154351540515308153421534115344	28654	0.00	NaN	114	05	11349	11276	11164	11091	10964	108.519		
2866200.0         12182         12071         12067         11971         118.379         117.533         11603         1164           2866600.0         12448         12449         12381         12249         122.046         12124         12057         1197           286700.0         NaN         12729         12733         12699         125.804         12567         12498         1235           2867400.0         NaN         13161         13067         13064         12965         12985         12846         1277           2867800.0         NaN         13593         13426         13479         13367         13305         13219         1313           2868200.0         NaN         138.897         13853         13883         13777         13753         13636         13653           2868600.0         NaN         14236         14287         14111         14127         14153         14017         139.43           286900.0         NaN         15013         15037         15085         14867         14979         14949         1440           2869800.0         NaN	28658	0.00	11828	117	42	116.574	11523	11493	11456	11393	11217		
2866600.0         12448         12449         12381         12249         122.046         12124         12057         1197           2867000.0         NaN         12729         12733         12699         125.804         12567         12498         1235           2867400.0         NaN         13161         13067         13064         12955         12985         12846         1277           2867800.0         NaN         13593         13426         13479         13367         13305         13219         1313           2868200.0         NaN         138.897         13853         13883         13777         13753         13636         1365           2868600.0         NaN         14236         14287         14111         14127         14153         14017         139.43           286900.0         NaN         14636         14668         146.01         14548         14534         14528         1440           2869400.0         NaN         15013         15037         15085         14867         14979         14994         1488           2869800.0         NaN	28662	0.00	12182	120	71	12067	11971	118.379	117.533	11603	11642		
2867000.0         NaN         12729         12733         12699         125.804         12567         12498         1235           2867400.0         NaN         13161         13067         13064         12965         12985         12846         1277           2867800.0         NaN         13593         13426         13479         13367         13305         13219         1313           2868200.0         NaN         138.897         13853         13883         13777         13753         13636         1365           2868600.0         NaN         14236         14287         14111         14127         14153         14017         139.43           2869000.0         NaN         14636         14668         146.01         14548         14534         14528         1440           2869400.0         NaN         15013         15037         15085         14867         14979         14994         1488           2869800.0         NaN         15411         15435         15405         15308         15342         15341         15344	28666	0.00	12448	124	49	12381	12249	122.046	12124	12057	11976		
2867400.0         NaN         13161         13067         13064         12965         12985         12846         1277           2867800.0         NaN         13593         13426         13479         13367         13305         13219         1313           2868200.0         NaN         138.897         13853         13883         13777         13753         13636         1365           2868600.0         NaN         14236         14287         14111         14127         14153         14017         139.43           286900.00         NaN         14636         146.01         14548         14534         14528         1440           2869400.0         NaN         15013         15037         15085         14867         14979         14994         1488           2869800.0         NaN         15411         15435         15405         15308         15342         15341         15344	28670	0.00	NaN	127	29	12733	12699	125.804	12567	12498	12356		
2867800.0         NaN         13593         13426         13479         13367         13305         13219         1313           2868200.0         NaN         138.897         13853         13883         13777         13753         13636         1365           2868600.0         NaN         14236         14287         14111         14127         14153         14017         139.43           2869000.0         NaN         14636         14668         146.01         14548         14534         14528         1440           2869400.0         NaN         15013         15037         15085         14867         14979         14994         1488           2869800.0         NaN         15411         15435         15405         15308         15342         15341         15344	28674	0.00	NaN	131	61	13067	13064	12965	12985	12846	12772		
2868200.0         NaN         138.897         13853         13883         13777         13753         13636         13657           2868600.0         NaN         14236         14287         14111         14127         14153         14017         139.43           2869000.0         NaN         14636         14668         146.01         14548         14534         14528         1440           2869400.0         NaN         15013         15037         15085         14867         14979         14994         1488           2869800.0         NaN         15411         15435         15405         15308         15342         15341         15344	28678	0.00	NaN	135	93	13426	13479	13367	13305	13219	13134		
2868600.0         NaN         14236         14287         14111         14127         14153         14017         139.43           2869000.0         NaN         14636         14668         146.01         14548         14534         14528         1440           2869400.0         NaN         15013         15037         15085         14867         14979         14994         1488           2869800.0         NaN         15411         15435         15405         15308         15342         15341         15344	28682	0.00	NaN	138.8	97	13853	13883	13777	13753	13636	13655		
2869000.0         NaN         14636         14668         146.01         14548         14534         14528         1440           2869400.0         NaN         15013         15037         15085         14867         14979         14994         1488           2869800.0         NaN         15411         15435         15405         15308         15342         15341         15344	28686	0.00	NaN	142	36	14287	14111	14127	14153	14017	139.431		
2869400.0         NaN         15013         15037         15085         14867         14979         14994         1488           2869800.0         NaN         15411         15435         15405         15308         15342         15341         15341	28690	0.00	NaN	146	36	14668	146.01	14548	14534	14528	14405		
2869800.0 NaN 15411 15435 15405 15308 15342 15341 1534	28694	0.00	NaN	150	13	15037	15085	14867	14979	14994	14889		
	28698	0.00	NaN	154	11	15435	15405	15308	15342	15341	15346		
2870200.0 NaN 15799 15878 15886 157.972 15709 15786 1578	28702	0.00	NaN	157	99	15878	15886	157.972	15709	15786	15789		
2870600.0 NaN NaN 16287 16201 16264 16203 16249 1623	28706	0.00	NaN	NaN		16287	16201	16264	16203	16249	16238		
2871000.0 NaN NaN 16663 16682 16669 16651 16656 1661	28710	0.00	NaN	NaN		16663	16682	16669	16651	16656	16616	10	

13. From here you can select the grid variable and time step for which you want to view data.

Figure 34. Ubuntu 8.10: Selecting the grid and time step in the Table Viewer of the EverVIEW Slice and Dice

Tool.

14. From this view, you can also export the data for the current Grid and Time Step to CSV format by clicking the "Export to CSV" button.

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2862	600.0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	-
2863000.0		NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2863400.0		NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2863800.0		NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
2864	200.0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	-
2864	600.0	NaN	NaN	NaN	NaN	NaN	NaN	102.679	10129	
2865	0.000	NaN	NaN	NaN	10988	10821	10773	10643	10438	
2865	400.0	NaN	11405	11349	11276	11164	11091	10964	108.519	
2865	800.0	11828	11742	116.574	11523	11493	11456	11393	11217	
2866	200.0	12182	12071	12067	11971	118.379	117.533	11603	11642	-
2866	600.0	12448	12449	12381	12249	122.046	12124	12057	11976	
2867	0.000	NaN	12729	12733	12699	125.804	12567	12498	12356	
2867400.0		NaN	13161	13067	13064	12965	12985	12846	12772	
2867800.0		NaN	13593	13426	13479	13367	13305	13219	13134	
2868200.0		NaN	138.897	13853	13883	13777	13753	13636	13655	
2868600.0		NaN	14236	14287	141 <b>1</b> 1	14127	14153	14017	139.431	
2869000.0		NaN	14636	14668	146.01	14548	14534	14528	14405	
2869400.0		NaN	15013	15037	15085	14867	14979	14994	14889	
2869800.0		NaN	15411	15435	15405	15308	15342	15341	15346	
2870	200.0	NaN	15799	15878	15886	157.972	15709	15786	15789	
2870600.0		NaN	NaN	16287	16201	16264	16203	16249	16238	
2871000.0		NaN	NaN	16663	16682	16669	16651	16656	16616	-
< 111									>	

Figure 35. Ubuntu 8.10: Exporting a grid to a comma-separated value (CSV) file in the EverVIEW NetCDF Slice and Dice Tool.

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