Sheet1

| Sheet1   |                    |                                     |  |  |
|--|--------------------|-------------------------------------|--|--|
|  |                    |                                     | Major Changes or Bug Fixes   |  |
| Impact   | Package            | Section                             | Change   |  |
| 1  | Cdms               | Axis                                | Time dimension does not generate bounds automatically anymore – use cdms.setAutoBounds('on') -   |  |
| 1  | Cdms               | Curvilinear grids                   | CurveGrids can be supplied in the axis list.   |  |
| 1  | Cdms<br>Cdms       | Curvilinear grids Curvilinear grids | Added conversion routines: rect => curve => generic  MV works with curvilinear grids   |  |
| 1  | Cdms               | Curvilinear grids                   | works will culvinize a grids Can read grids from scrip remap files   |  |
| 1  | Cdms               | Curvilinear grids                   | getMesh returns a transposed mesh grid if requested.   |  |
| 1  | Cdms               | Curvilinear grids                   | On reading grids from files, check for cell convexity. Where that fails by default fix cells that straddle the 0 / 2pi boundary.   |  |
| 1  | Cdms               | Curvilinear grids                   | Added routines to write grids to external files in scrip format  |  |
| 1  | Cdms               | I/O                                 | Trapped seg faults on closed file objects.   |  |
| 1  | Cdms<br>Doc        | Tutorials                           | Fixed memory leaks. New tutorials  |  |
| 1  | Exsrc              | DODS                                | Now builds by default under Linux, updated to Version 3.4  |  |
| 1  | Vcdat              | DV                                  | A number reflecting selection/operation order appears next to selected variable  |  |
| 1  | Vcdat              | DV                                  | Templates and Graphic Method Listbox available (on/off) in Variables and Calculator area   |  |
| 1  | Vcdat              | Editors                             | Template editor accessible from VCDAT (click and drag technology)  |  |
| 1  | Vcdat              | Editors                             | Graphic Method Editors updated, preview/reset option added   |  |
| 1  | Vcdat<br>Vcdat     | General<br>GUI                      | 4 mode: 1-user defined layout; 2- Browse Variable; 3- Data Manipulation; 4- Graphics Display Layout changed, now has mode for plot edititing, letting you copy/paste and edit existing template and method |  |
| 1  | Vcdat              | Plot                                | Layout changed, now has mode not piot equingly entirely out oppypaste and edit existing template and metrou  |  |
| 1  | Vcdat              | Plot                                | Page Layout Table to control what is displayed on the VCS Canvas, can turn on/off plots with one click   |  |
| 1  | Vcs                | Animations                          | update to handle two or more on a page   |  |
| 1  | Vcs                | Animations                          | Can read from a file   |  |
| 1  | Vcs                | Animations                          | Can save to a file   |  |
| 1  | Vcs                | Curvilinear grids                   | Handled automatically  Added eta parkings to use 29 pour box of projection available   |  |
| 1  | Vcs<br>Vcs         | Projection<br>Templates             | Added gctp package to vcs, 28 new types of projection avalaible Template editor by clicking  |  |
|  | VCS                | тепіріалез                          | Important Changes or Bug Fixes   |  |
| 2  | Cdms               | I/O                                 | Important Changes of Bug Fixes  Added writeScripGrid, readScripGrid can read from a SCRIP mapping file   |  |
| 2  | Cdms               | Libcdms                             | Removed spurious calendar error  |  |
| 2  | Cdms               | Time axis                           | TransientAxis getCalendar returns DefaultCalendar if none specified. This is consistent with FileAxis.getCalendar()  |  |
| 2  | Doc                | Tutorials                           | Data can now be anywhere on user's space   |  |
| 2  | Genutil            | Arrayindexing                       | New module, allows array indexing, e.g.C=genutil.arrayindexing.get(A,B)  |  |
| 2  | Genutil            | Filters<br>Statistics               | Added filters module, so far only "running average", 121 and custom fixed a bug in linear regression when trend is 0, probability are not set to missing   |  |
| 2  | Genutil<br>Install | Statistics<br>All                   | Inxed a bug in linear regression when trend is 0, probability are not set to missing  Updated external Packages to their latest versions, see README files   |  |
| 2  | Install            | CDAT                                | Mac OS X "officially" supported  |  |
| 2  | Install            | Cdms                                | Fix CDMS build for FreeBSD   |  |
| 2  | Install            | Cdms                                | Addedcdms-only option to express_install.  |  |
| 2  | Install            | Exsrc                               | Now can build indiviudal package or exclude some   |  |
| 2  | Install            | Exsrc                               | -list option added   |  |
| 2  | Install<br>Vcdat   | Exsrc<br>0D (numbers)               | help option in install_script if no dimensions are present, then show the single vaule in the Defined Variables window   |  |
| 2  | Vcdat              | 1D plot                             | in to uniterisations are present, interisation the strigge value in the behinder variables window.  Overlay applies, use page layout for other types.  |  |
| 2  | Vcdat              | DV                                  | Different mode of variable selection single/multiple   |  |
| 2  | Vcdat              | GUI                                 | Remove the 1-Plot, 2-Plot, 3-Plot, 4-Plot per page   |  |
| 2  | Vcdat              | I/O                                 | Simple binary file reader added  |  |
| 2  | Vcdat              | I/O                                 | Can read column arranged ascii files   |  |
| 2  | Vcdat<br>Vcdat     | I/O<br>I/O                          | Save netcdf now has browser to go between directories Simple ascii file reader added   |  |
| 2  | Vcdat              | Menu                                | Simple ascume reader added New interface to user menu, more robust and intuitive   |  |
| 2  | Vcdat              | Scripting                           | New interaction user inferior in the rousing and infinitely interaction (not available on beta)  |  |
| 2  | Vcs                | Boxfill                             | Now can specify levels just like in isofill  |  |
| 2  | Vcs                | Isofill                             | Now has legend otpion (i.e can specifiy where to put values)   |  |
| 2  | Vcs                |                                     | Linewidth option added where line are controlled   |  |
| 2  | Vcs                |                                     | User can click on the plot and get worldcoordinate/index values, and actual value  |  |
| Significant Changes or Bug Fixes  3 Cdms I/O picker selector, let you pick non contiguous values |                    |                                     |  |  |
| 3  | Cdms<br>Cdutil     | Times                               | Picker selector, let you pick non contiguous values Yearly and xDaily Time Bounds setting, plus accept either slab or axis   |  |
| 3  | Contrib            | F2py                                | Heany and Abain Time bounds setting, plus acceptencer stab or axis Added F2PY, fortran wrapper   |  |
| 3  | Install            | HDF                                 | HDF= option let user point to HDF libraries  |  |
| 3  | Install            | Scrip                               | Source code distributed but not installed  |  |
| 3  | Vcdat              | DV                                  | Replacing the eval call for the exec call. Now the user can enter any command  |  |
| -  | Vodet              | DV/                                 | Fix for the automatic Numeric and MA conversion to MV. The user now has a choice to convert Numeric and MA to MV. That is, the user will need  |  |
| 3  | Vcdat              | DV                                  | to select the "Automatic Conversion to MV" toggle in the "Preferences" menu to turn this feature on or off   |  |
| 3  | Vcs                | Plot                                | Very High Resolution Continent Files generated via GMT are available on the web  |  |
| 3  | Vcs                | Templates                           | Scaling, now can scale fonts   |  |
| 3  | Vcs                | Text                                | Bg option works  |  |
|  |                    |                                     | Notable Changes or Bug Fixes   |  |
| 4  | Cdms               | I/O                                 | Implemented isClose().   |  |
| 4  | Contrib            | Install                             | Automatically built  NTK (best present) added to distribute the built build fault this is experienced.   |  |
| 4  | Exsrc<br>Genutil   | VTK                                 | VTK (beta version) added to distrib, not built by default this is experimental  Now can pass arguments at init time, safe mode problem introduced by latest versions of xmgrace fixed                      |  |
| 4  | Vcdat              | Xmgrace<br>General                  | Now can pass arguments at init time, sare mode problem introduced by latest versions of xmgrace fixed Retains user settings  |  |
| 4  | Vcdat              | General                             | Predefined Region  |  |
| 4  | Vcdat              | General                             | Can define colors using intensiy   |  |
| 4  | Vcdat              | Taylordiagram                       | GUI updated  |  |
| 4  | Vcs                | Primitives                          | Projection accessible  |  |
| 4  | Vcs                | Taylordiagram                       | standard dev added to xaxis  |  |
| 4  | Vcs                | Taylordiagram                       | taylor control the xtic/ytic/cticks  |  |
| 4  | Vcs<br>Vcs         | Yxvsx, Xyvsy                        | Auto now works again (no more blank canvas) Improved thread support  |  |
| Good to Know Changes or Bug Fixes  |                    |                                     |  |  |
| 5  | Cdms               | Cdscan                              | Added -nofiles, -execfile option   |  |
| 5  | Cdms               | Cdscan                              | Addednotrim-lat option   |  |
| 5  | Cdms               | Cdscan                              | Addedfilesxml option   |  |
|  |                    |                                     |  |  |

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| S   |                  |  |  |  |  |
|---|------------------|--|--|--|--|
| S   Cdutil   Times   Rived times_setTimesBoundsMonthly for end of month storage   |                  |  |  |  |  |
| S   Countib   Vertical   Vertical   Vertical   Merit cal Interpolation Tools (sigmaz) pressure  |                  |  |  |  |  |
| S   |                  |  |  |  |  |
| S   Exsrc   R   Added R (statistical package) sources to distrib, not built by default  |                  |  |  |  |  |
| S   Genutil   Xmgrace   Safe/nosafe problem solved, version controled before passing the argument   |                  |  |  |  |  |
| S   |                  |  |  |  |  |
| Scrip   New module, interface to scrip regridder  |                  |  |  |  |  |
| 5 Vcdat General Keep (or not) Windows in front of main window  **Minor Changes or Bug Fixes**  6 Cdms Axis Align isLatitude, isLongitude test with CF convention 6 Contrib Comparison Statistics fixed a bug for TimeComponent 18, the seasonal weights used in computing the annual means were slightly off 6 Contrib Rpy Added Rpy package, works if you have R on your system 6 Exsrc Pbm Pbmplus replaced with netpbm on Linux and Mac systems 6 Genutil Statistics Geometric Mean, Median and Rank functions added 6 Vcdat 1D plot Fixed multiplier annotation for 1D plots. 6 Vcdat DV Support for chemistry attributes 6 Vcdat General Exit Popup to retain settings (can be turned off) 6 Vcdat Menu Option pull down from main menu was changed to "Preferences" 6 Vcs Animations Dug fix for pan and zoom 6 Vcs Templates Ratio options now supported, let user definean y/x ratio or if lat/lon let vcs find a good one 7 Contrib Comparison/Statistics Handles fortran NaN 7 Vcdat Annotations Changed annotation so a blank text field will print nothing in on the Canvas Cdscan Fixed bug when file has 'bounds' dimension. 8 Cdms Cdscan Fixed bug when file has 'bounds' dimension. 9 Cdms Ors Taylordiagram Tizylordiagrams. Fixed bug when file has 'bounds' dimension. 9 Cdms Drs Fixed the cycle process for DRS files. Must close DRS files before you open them again. 9 Cduful Removed Propertied Class dependencies, replaced with standard python (object/property) 9 Contrib Comparison/Statistics Bug fixing  |                  |  |  |  |  |
| Social Contrib   ComparisonStatistics   Support for chemistry attributes  |                  |  |  |  |  |
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| 6 Cdms  |                  |  |  |  |  |
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| 9 Contrib Pyfort New version 8.4  |                  |  |  |  |  |
|   |                  |  |  |  |  |
| 9   Victor   General   Il Iser can defined the name of its default template/granhic methods   |                  |  |  |  |  |
|   |                  |  |  |  |  |
| 9 Vcs 1D plots Bug fixes for graphics methods. That is, if the data only has 1 dimensions and 2 or more dimensions are required, then use Yxvs  | to plot the data |  |  |  |  |
| 9 Vcs Printer lanscape/portrait argument bug fix  |                  |  |  |  |  |
| 9 Vcs Taylordiagram Skill drawing, bug fix  |                  |  |  |  |  |
| 9 Vcs Major changes to the VCS graphics methods   |                  |  |  |  |  |
| 9 Vcs Fixed attribute settings for missing attributes   |                  |  |  |  |  |
| 10 Cdms I/O Fixed bug in dataset.write when time axis is a float. This shows up with Numeric V23.1  |                  |  |  |  |  |
| 10 Cdms Added xmllib to ditrib since it'll be abandoned in future python  |                  |  |  |  |  |
| 10 Cdutil VariableMatcher Added comment keyword   |                  |  |  |  |  |
| 10 Genutil Removed Propertied Class dependencies, replaced with standard python (object/property)   |                  |  |  |  |  |
| 10 Vcs Colormap Added the NCAR Color Map to the initial attribute file.   |                  |  |  |  |  |
| 10 Vcs Colormap Cleanedup   |                  |  |  |  |  |
| 10 Vcs Templates fixed JYP comments about "inconsistency" on comment#1 of UL1of4 template   |                  |  |  |  |  |
| 10 Vcs Removed Propertied Class dependencies, replaced with standard python (object/property)   |                  |  |  |  |  |
| 11 Cdms Curvilinear grids auxcoord, gengrid modules   |                  |  |  |  |  |
| 11 Esg New Package  |                  |  |  |  |  |
| 11 Install CDAT Building GNU tar on older systems   |                  |  |  |  |  |
| 11 Install CDATpsql option added  |                  |  |  |  |  |