

NOTE:

There is one set of macros

D default parameters are in a file, which you can still override.

File names are: xxxxxx.[f].bas

NOTE:

Winzip acts differently under VISTA than XP. Extraction under VISTA is to a folder on the desktop

So an icon appears, and just click that icon.

NOTE:

The parameter file has defaults, which you can still override by the way,

And the parameter file "DcadParms.txt" AND the macros must be in the same folder, and should be run by

MACRO, E, FILE, OPEN, and then select the file, then RUN it.

If you run them using

MACRO, E, FILE, and select from the history list, then the macros may or may not run.

Opening these macros with MACRO, E, then FILE, and then OPEN will cause DeltaCAD to set the current directory to the place the macro came from, and then all works well.

But, using the history list instead of opening from a folder panel with OPEN has DeltaCAD keep the DeltaCAD default folder and thus the parameter file will not be found.

Placing the macros and the text file in the Program Files\DeltaCAD folder does not solve the problem, so always use MACRO, E, FILE, OPEN, and then the folder panel.

DeltaCAD macros

this file is called:- DeltaCADmacrosREADME.pdf

(also see: NotesOnProgrammingDeltaCAD.pdf also)

DESCRIPTION	FILE NAME	file names ending in [f].bas use a parameter file for dial locations but please read the notes
ALTITUDE DIALS Cappucin dial planispheric astrolabe shepherd's dial	alt-cappucin.bas alt-astrolabes.bas alt-shepherds.bas	Cappucin altitude dial the planispheric astrolabe generator - and notes on formula derivation – depicted horizontally and also, the rete shown vertically aligned and clutter removed Shepherd's dial using true declinations not fixed ones, animated, much better curves. both single and dual dual gnomon (long for winter short for summer)
AZIMUTH DIALS winged azimuth dial	azi-winged-azimuth.bas	Summer/equinox/winter hour lines [can animate hour lines w latitude, 7 month circles, dial plate options]
HOOR ANGLE DIALS simple bi-filar h-dial horizontal dial	MAIN-bifilar.bas MAIN-h-dials.bas	Bi filar dial (h-dial with hour angles of 15 degree separation) with a gnomon as two wires of differing heights Horizontal dial, longitude/latitude specific, and for north or south hemisphere, and calendar lines & gnomon based on sub-style length [can animate hour-lines w latitude], and sub style length is fixed - gnomon linear height varies. And a horizontal dial whose shadow is animated using a given solar declination, thus can do calendar lines and curves for h-dials.
inclined decliner	MAIN-inc-dec.bas	Inclined decliner dial plate design. Cautionary note added to check hrs:hr lines the angles, SD, and SH are correct, sometimes the naming is "different".
meridian dial	MAIN-m-dials.bas	Meridian dial constrains the hour lines to the calendar lines, and meridian dial true east and west inclined dial
polar dial equatorial dial	MAIN-p-dial.bas MAIN-q-dial.bas	with calendar lines and longitude adjusted with calendar circles and sunrise/set lines longitude adjusted
vertical dial	MAIN-v-dials.bas	Simple vertical dials – non declining, both hemispheres, and vertical decliner dial, and if you enter declination of 0 it is animated, north hemisphere only vertical decliner for north or south hemisphere, with declinations so the dial faces largely east or west vertical declining dial but facing the pole, not equator vertical declining dial for mostly east or west alignments
MISC DIALLING AIDS calendar lines/curves almanac and tables	MAIN-calendar-curves.bas MAIN-almanac-tables.bas	calendar curves for a V or H dial using SH EOT (2 and 3 wave), Declination (small formula), as tables and graphs and other functions such as sunrise and sunset etc, and a daily almanac.

- NOTE:** If you run thebas file directly, thus invoking DeltaCAD by doing so, then the DeltaCAD macros will run. However they may end with an error message such as "error in running basic script". Click OK, the program ran fine. The solution is to bring up DeltaCAD first, rather than invoking it by double clicking the macro name, then... click on: MACRO, and then click on E, and then click on FILE ...and open the desired macro, and then that message goes away.
- NOTE:** Some screen capture programs may not get the correct aspect ratio when capturing some CAD screens, and some CAD system may display a slightly incorrect aspect ratio on a screen yet still print correctly. The tabulated and displayed angles in these DeltaCAD macros are correct.
- NOTE:** The calendar-curves output is used by placing its "noon" line on the actual dial using the actual dial's SD for noon, and its SH for the calendar curves "latitude".
- NOTE:** MAIN-xxxxx.bas are the most common dialling programs, or, hour angle dial programs, the others are less common, or, altitude or azimuth dial programs. Many of the programs have animation of shadows, calendar curves, or hour lines available, but should not be used by epileptic persons. Many dials can handle both north and south hemispheres.

Simon April 26, 2009 * improvements and consolidations make them easier to use, better notes added in popup boxes. Cappucin dial. Windows VISTA DeltaCAD supported.

PRINTING TECHNIQUES ~ ~ ~ DIAL PLATES LARGER THAN PRINT PAPER SIZE

Once you have a DeltaCAD macro executed and a dial plate depicted, printing is easy.

FILE

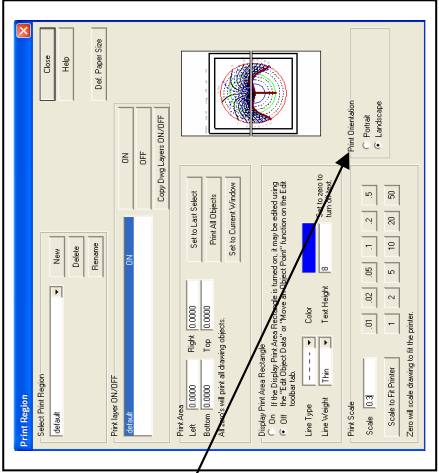
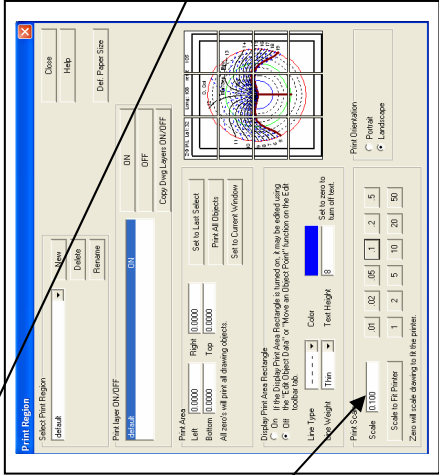
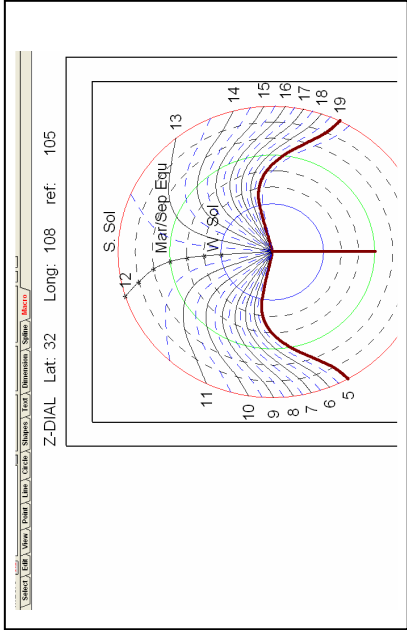
PRINT SETUP

- select printer
- select properties
- landscape or portrait
- OK

FILE

SET PRINT REGION

- check portrait or landscape
- set print scale so that the result is the final size you want, recall that paper is often 8.5 x 11 inches. The left used a print scale of 0.1 and needed 12 sheets, this would be a big dial, the right used a scale of 0.3 and used 2 sheets and the final dial plate size can be visually estimated.



FILE

PRINT

The above process can be used to print dial plates using DeltaCAD for dials larger than the print paper size.

CAUTION: Some screen capture programs do not accurately preserve aspect ratios

PRINTING TECHNIQUES ~ ~ ~ PRINTING A SMALL PART OF A DIAL PLATE ~ ~ ~ TYPICALLY DECLINING VERTICAL DIALS FACING ABOUT EAST OR WEST

Once you have the dial plate drawn, as shown to the left,

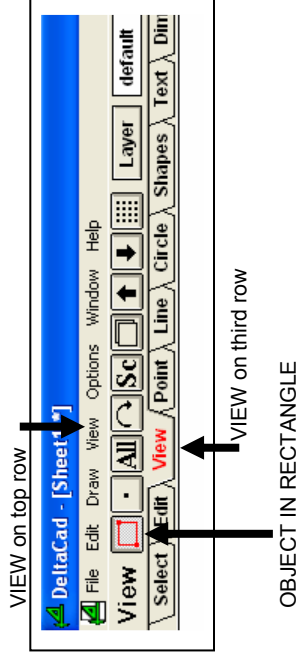
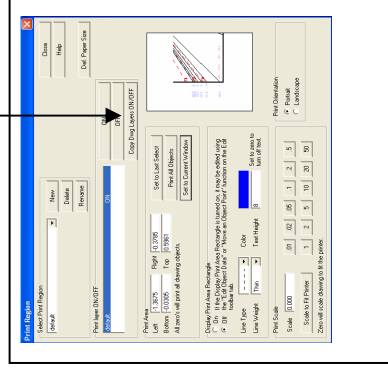
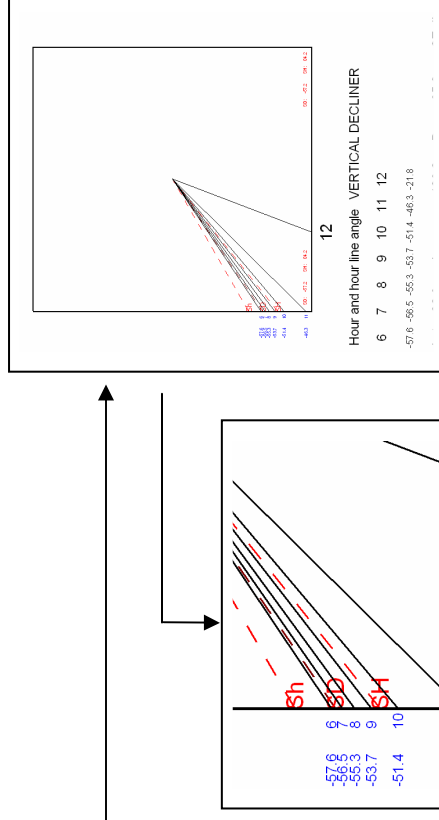
Use DeltaCAD VIEW (top row, not third row of tabs in DeltaCAD) then zoom to get the area you desire.

If you use screen capture, beware that some capture programs may distort DeltaCAD angles. The Angles in DeltaCAD are correct as tabulated and as displayed.

Because of hour line bunching, use the following print technique:

VIEW (third row, not top row) then
 VIEW OBJECT IN RECTANGLE and draw its rectangle
 FILE then SET PRINT REGION and in that box...

in PRINTAREA do SET TO CURRENT WINDOW
you may enter print scale numbers also
FILE then PRINT PREVIEW and then you may print



The above process can be used to print dial plates using DeltaCAD for dials smaller than the displayed size.

CAUTION: Some screen capture programs do not accurately preserve aspect ratios