First: Download all files in this ftp directory into a single directory.

Then:

To plot a single sounding on a Skew T diagram:

1. Go to the U. of Wyoming sounding web site, http://weather.uwyo.edu/upperair/sounding.html to see a map of station numbers.

2. In MATLAB, type the commands
   [data,header,status] = getsounding([station number], [year] ,[month] ,[day],[GMT])
   skewt(data(:,1),data(:,3),data(:,5)/100)

   Example:

   [data,header,status] = getsounding(72797,2008,5,12,12)
   skewt(data(:,1),data(:,3),data(:,5)/100)

   (Thanks to Andrew Rhines for providing the *getsounding* script.)

To make contour plots of parcel buoyancies:

1. Use a FORTRAN compiler (e.g. f77) to compile *wyoming.f* into an executable named "*wyoming.exe*". (Note: You only have to do this once.)

2. Go to the U. of Wyoming web site, http://weather.uwyo.edu/upperair/sounding.html , and download a sounding file. Save this file into an ascii text file called "*sounding.txt*".

3. Execute "tcon" in MATLAB.

12.811 Tropical Meteorology
Spring 2011