Wind Rose from Met Data Exercise:

Using the text file UTE 1 WS&WD space del.txt, create a wind rose using the free software WRPlot. The WRPlot software can be downloaded from <u>http://www.lakes-environmental.com/lakewrpl.html</u>. This program can take excel files as input, so first the text file must be imported into excel. However, the input file must have the date in a specific and somewhat unusual format, with the day, month, and year each in their own column.

1. Import the text file into excel, using

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| i7 | PivotTable and PivotChart Report | | | |
| | Import External <u>D</u> ata | ► | ě | Import <u>D</u> ata |
| | List | • | 6 | New <u>W</u> eb Query |
| | XML | • | ** | New Database Query |
| 1 | <u>R</u> efresh Data | | • | <u>E</u> dit Query |
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Find the text file location and import it into excel:

| Select Data Sou | rce | | | <u>?</u> × |
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| My Recent Documents Desktop My Documents | Name jan-april 2007 WS WD.xls NewImport from Brenda's AQ NewImport.xls TMP UTE 1 Nov2006-Feb2007 UTE 1 WS&WD space del.txt WD UTE 1 Nov2006-Feb2007 WS UTE 1 Nov2006-Feb2007 | Size 439 KB 68 KB 68 KB 39 KB 39 KB 39 KB | Type Microsoft Excel Wor Microsoft Excel Wor Text Document Text Document Text Document Text Document Text Document | Date Modified 6/7/2007 9:04 PM 5/27/2007 11:15 / 5/28/2007 8:44 AI 5/27/2007 11:19 / 6/6/2007 3:27 PM 5/27/2007 11:19 / 5/27/2007 11:19 / |
| My Network Places | File name: Files of type: All Data Sources (*.or | | New <u>S</u> ource | Qpen Cancel |

Click Open, and look carefully at the screen which gives you a preview of the file:

| Text Import Wizard - Step 1 of 3 | ? × |
|--|-----|
| The Text Wizard has determined that your data is Fixed Width. If this is correct, choose Next, or choose the data type that best describes your data. | |
| Original data type | |
| Choose the file type that best describes your data: | |
| Delimited - Characters such as commas or tabs separate each field. | |
| Fixed width - Fields are aligned in columns with spaces between each field. | |
| Start import at <u>r</u> ow: 1 File <u>o</u> rigin: 437 : OEM United States | • |
| | |
| Preview of file C:\Documents and Settings\Administrator\UTE 1 WS&WD space del.txt. | |
| 1 002H 2 01/01/0704/30/07 3 | |
| 4 0108001HWS 0109001HWD | |
| 5 If chosen parameter intervals are not the same the parameters v | ч ◄ |
| | |
| Cancel < Back Next > Einis | ו ו |

You can see that there are error codes -999 (found around rows 620, on 1/26/07) which make it unfeasible to use the Fixed Width option. If that option is chosen, then the columns will break within values, as shown below:

| Text Import Wizard - Step 2 of 3 | ?× |
|---|----|
| This screen lets you set field widths (column breaks). | |
| Lines with arrows signify a column break. | |
| To CREATE a break line, click at the desired position. To DELETE a break line, double click on the line. | |
| To MOVE a break line, click and drag it. | |
| Data preview | |
| 10 20 30 40 50 60 | |
| 01/26/07 08 .5 13.7 | |
| 01/26/07 09 -999 -999 01/26/07 10 -999 -999 | |
| 01/26/07 11 -999 -999 01/26/07 12 -999 -999 | - |
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| Cancel < <u>B</u> ack <u>Next</u> > <u>F</u> inis | :h |

Because of this, you should choose the Delimited option, and start the import at row 8:

| Text Import Wizard - Step 1 of 3 | ? X |
|--|-----|
| The Text Wizard has determined that your data is Fixed Width. If this is correct, choose Next, or choose the data type that best describes your data. | |
| Choose the file type that best describes your data: | |
| Delimited - Characters such as commas or tabs separate each field. Fixed width - Fields are aligned in columns with spaces between each field. | |
| Start import at row: 8 두 File origin: 437 : OEM United States | • |
| Preview of file C:\Documents and Settings\Administrator\UTE 1 WS&WD space del.txt. | |
| 8 Date Hour WS WD | |
| <u>9</u> 01/01/07 00 .9 26.5 | |
| 10 01/01/07 01 .6 15.9 | |
| 12 01/01/07 03 .5 321.1 | |
| | |
| Cancel < Back Next > Finis | h |

Choose Space as the delimiter in the next screen:

| Text Import | Wizard | - Ste | p 2 of 3 | | | | | | ? × |
|-------------------------------|-----------------------|---------------------|--------------------------|----------------------------|----------------------|----------|----------------|----------|-----|
| This screen le how your te | ets you kt is affe | set the ected in | delimiters the previe | your data cor ew below. | ntains. You can | see | | | |
| Delimiters – | | Se <u>m</u> ico | lon [| <u>C</u> omma | ▼ T <u>r</u> eat con | secutive | e delimiter | s as one | |
| Space | | Other: | | | Text <u>q</u> ua | lifier: | | • | |
| -Data <u>p</u> review | ı | | | | | | | | |
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| 01/01/07 | 03 | .5 | 321.1 | | | | | | - |
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| | | | | Cancel | < <u>B</u> ack | | <u>l</u> ext > | Einis | h |

You can see that Excel suggest column breaks, based on the Delimiter you checked. Click Next, and now select the type of each column. Click on Date for the type of the first column, and check MDY for month-day-year format for the data in that column (although this is not always a foolproof way for getting excel to understand what format you want). Check General for the other columns.

| Text Import W | izard | - Step |) 3 of 3 | ? × |
|--|---|--------|-------------------------------|----------------|
| This screen lets the Data Forma 'General' conv values to date | ach column and set Column data format O General values to numbers, date maining values to text. | | | |
| | <u>A</u> dvar | nced | C Do not import column (skip) | |
| Data preview- | | | | |
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Click Next and select the cell where the imported data should go:

| Import Data | × |
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| Where do you want to put the data? | ОК |
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| 7 | 1/1/2007 | 4 | 0.3 | 14.7 | ' | | | | | | | | | | | | |
| 8 | 1/1/2007 | 5 | 0.5 | 264 | | | | | | | | | | | | | |
| 9 | 1/1/2007 | 6 | 0.5 | 341.9 | | | | | | | | | | | | | |
| 10 | 1/1/2007 | 7 | 0.4 | 245.1 | | | | | | | | | | | | | |
| 11 | 1/1/2007 | 8 | 0.4 | 61.6 | | | | | | | | | | | | | |
| 12 | 1/1/2007 | 9 | 0.5 | 151.1 | | | | | | | | | | | | | |
| 13 | 1/1/2007 | 10 | 0.9 | 193.5 | | | | | | | | | | | | | |
| 14 | 1/1/2007 | 12 | 0.0 | 221.1 | | | | | | | | | | | | | |
| 16 | 1/1/2007 | 12 | 0.4 | 336.6 | | | | | | | | | | | | | |
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Now, ensure that Excel understands the date format of the first column by clicking on the column to select it, clicking on Format, Cells, Date, and select mm/dd/yy in the box:

| Format Cells | | ? × |
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This changes the entire column's format to look like:

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Now check the imported data using Autofilter. Click on Data, Autofilter:

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| 2 | <u>R</u> efresh Data | | | |

Click on each header and scroll through the values to make sure that, for example, all the values in the date column are really dates:

In particular, verify that the wind speed is between 0-360 degrees, that the wind speeds are within a reasonable range, and all the hours are between 0 and 23. The WRPlot program will not accept those rows with the -999 error codes (or anything outside the acceptable range for that field, which is 00-23 or 01-24 for hour, 0-360 for wind direction, etc.) so these values should be deleted or replaced. WRPlot does not like blanks, either.

This can be done using Autofilter by finding those values in the drop-down box, or using Custom Autofilter to select those rows with values that you want to find:

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At this point the date field must be parsed into separate columns for month, day and year, so that the WRPlot program can use the file. To do this, create 3 new fields with the formulas =month(a2), =date(a2), and =year(a2) where the date field is in cell a2, as follows:



Do this three times so the file now looks like:

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This should result in a value in cell B2 that is 1 (for January), 1 in C2 for the first day of January, and 2007 in column D for year. (If you did not change their formats to General, the values shown in those cells might look different, but that should be a formatting issue.)

Copy this formula and formatting down the entire column by clicking on cell B2, then holding the cursor over the selected cell and in the lower right hand corner so that the cursor becomes a black cross:

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With the cursor showing as this black cross, double-click. This will copy the current cell's formula all the way down the column, filling that column until excel finds a blank cell in the column to its left. The file will now look like:

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The WRPlot program requires the field of hours to be in the format 00, 01, 02, etc. Click on the hours column (click on the column label (E) to select the entire column) and go to Format, Cells, Special, and type in 00:

| Format Cells | ? 🗙 |
|---|--|
| Number Alignment Category: General General Image: Currency Accounting Date Time Percentage Fraction Scientific Text Special Custom V Delete Type the number format point. | Font Border Patterns Protection Sample Hour Type: 00 |
| | OK Cancel |

Now the file is ready for importing into WRPlot, so open that program to see:

| WRPLOT View | | | _ O × |
|---|---|--|---|
| Eile Edit Tools Help Display © Wind Speed | Wind Directions: 16 | S Orientation Knots Orientation (blowing from |) |
| C Stability Class | Wind Classes [6] | m/s C Flow Vector (blowing t | •) |
| Meteorological Data File(s) | | | |
| Year Station | Met Data File | Incomplete/ Missing Hours | Add File |
| | | | <u>R</u> emove <u>C</u> lear All WebMET |
| Date Range January, 1 - December, 31 | Year All Time Range Start Time: 00:00 End Time: 23:00 | Data File Info Total No. of Hours: Average Wind Speed: Calm Hours: Calm Winds Frequency: Data Availability: | |
| Surface Station (Optional) - | Specify Time | Incomplete/Missing Hours: Total Hours Used: State: State | on ID: |
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Click on Tools, Import from Excel:

Which opens up this screen:

| * | lmp | ort Surface Data | from Excel | | | | | | |
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| | 1 | Year | | | | | | Not Applicable | |
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Click on the open folder icon to specify the excel file:

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| | 1 | Year | | | | | | Not Applicable | |
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The program will try to interpret the data so it should look like this:

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| 6 | 39083 | 1 | 1 | 2007 | 4 | 0.3 | 14.7 | | | | | | | | | | |
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Right click on the Month header to see a drop-down list of field names:

And select Month. Select field names for date, year, hour, wind speed, and wind direction by right-clicking on each header in the same way. The file should now look something like:

| 💥 Impo | ort Surface Da | ata from Exc | el | | | | | | | | | | | | | <u>_ 8 ×</u> |
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| atta i ita | ida <u>Station in</u> | Tormatio | on [| | | | | | | | |
| | | | | | | | Excel | Missing | | | |
| # | | | Data F | Field Nam | e | | Column Name | Indicator in Excel File | Excel File | | |
| | Year | | | | | | G | ENCONTRO | Not Applicable | | |
| 2 | Month | | | | | | E | | Not Applicable | | |
| 3 | Day | | | | | | F | | Not Applicable | | |
| 4 | Hour | | | | | | В | | 00 to 23 | | |
| 5 | Wind Direction | n – | | | | | lo 🛛 | | dearees | | |
| Fir | st Row to Impo | rt: 2 | \$ | [| Las | t Row to I | mport: 2802 | • | [m | port | |
| cel Fi | le <u>S</u> AMSON F | ile | | | | | ····· • | | | | |
| | A | В | С | D | E | F | G | н | I. | | |
| 1 | Date | Hour | WS | WD | month | day | year | | | | |
| 2 | 39083 | 0 | 0.9 | 27 | 1 | 1 | 2007 | | | | |
| 3 | 39083 | 1 | 0.6 | 16 | 1 | 1 | 2007 | | | | |
| 4 | 39083 | 2 | 0.7 | 21 | 1 | 1 | 2007 | | | | |
| 5 39083 3 0.5 321 1 1 2007 | | | | | | | | | | | |
| 6 39083 4 0.3 15 1 1 2007 | | | | | | | | | | | |
| Assistance to C Southern Ute Wind Rose fro C podcasts C econ 6-16-07 | | | | | | | | | | | |
| D 1 | .5 Science and | . 0 | Windo | ws Medi. | 🛛 🛛 Micro | osoft Exce | 🔆 WRI | PLOT View | DENVER | | |
| ~ | | | | | | | | | | | |

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Now save the file that was created in a folder where you will remember it, with the extension .sam

| In | WRPlot, | click | on Add | File: |
|----|---------|-------|--------|-------|
|----|---------|-------|--------|-------|

| 🔆 WRPLOT View | | |
|---|---|---|
| <u>File E</u> dit <u>T</u> ools <u>H</u> elp | | |
| Vind Speed Stability Class | Wind Directions: 16 Vind Classes [6] | Units Orientation Knots Direction (blowing from) This Flow Vector (blowing to) |
| Met Data Information Freq | uency <u>C</u> ount Frequency <u>D</u> istribution | Wind Rose Graph |
| Year Station | Met Data File | Incomplete/ Missing Hours |
| Date Range January, 1 - December, 3 Specify Days Surface Station (Optional) Name: | Year All Time Range Start Time: 00:00 End Time: 23:00 Image: Specify Time | Clear All Clear All WebMET Data File Info Total No. of Hours: Average Wind Speed: Calm Hours: Calm Winds Frequency: Data Availability: Incomplete/Missing Hours: Total Hours Used: State: Station ID: |
| | | |

Tell the program to open the .sam file you just created, making sure you specify this file type in the drop-down list:



Now click on the Wind Rose tab to see the gorgeous thing:



Note that you can change the setting from "Blowing To" to "Blowing From."

You can print the image using the MS document image writer and save it as a file that you can insert into a MS word document. From within Word, select Insert, Picture, From File.

