Cig/Vis Trend Gui

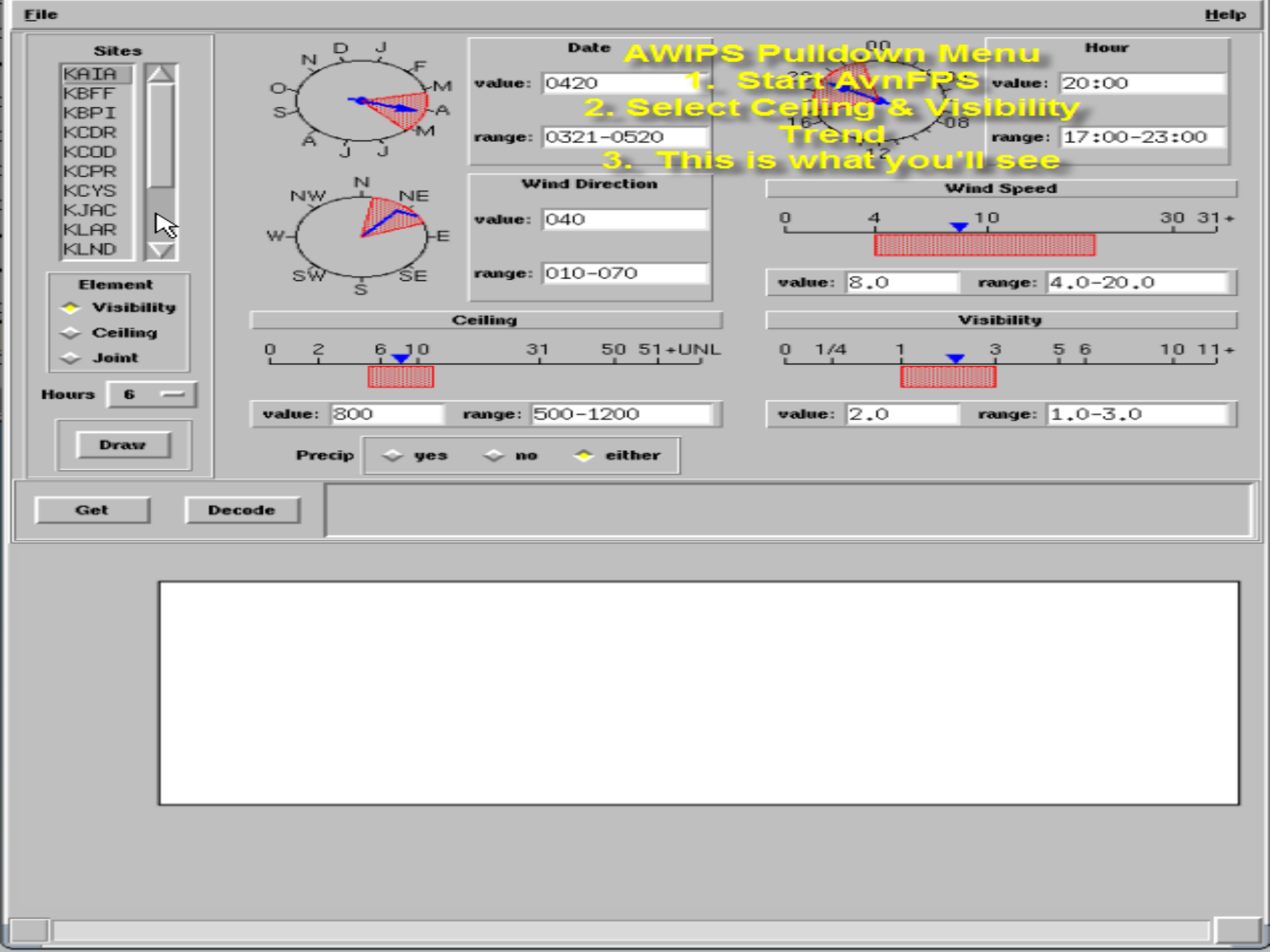
By Gerry Claycomb

Cig/Vis Trend Gui

- Can Be A Valuable Tool In Forecasting Short Term Trends In TAFs
- Conditional Climatology Program
- Takes Current Observation and Compares What Happened During Past Events With Similar Conditions
  - Time Of Day
  - Month
  - Wind Direction/Speed
  - Similar Sky Conditions/Present Weather

Cig/Vis Trend Gui

- Works Best When Conditions Are Down and You're Trying To Forecast Improving Conditions
- Though It Can Give You An Idea That Conditions May Deteriorate
- The More Cases At the Bottom Of The Display, The More Accurate The Climatology Is


File
Help
Sites
KAIA
KBFF
KBPI
KCDR
KCOD
KCPR
KCYS
KJAC
KLAR
KLND
Element
Visibility
Ceiling
Joint
Hours
6
Draw
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range: 0321-0520
Hour
value: 20:00
range: 17:00-23:00
Wind Direction
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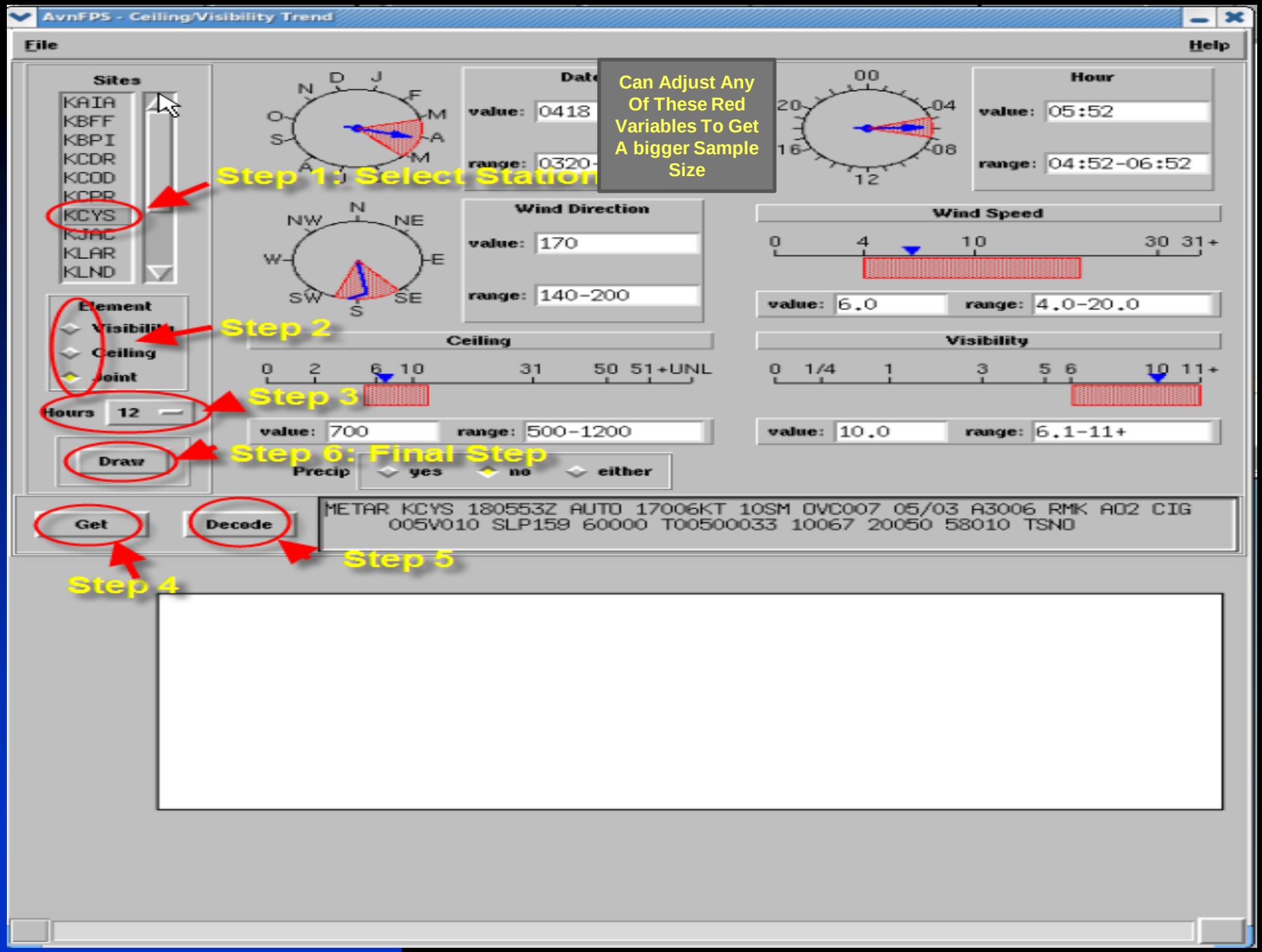
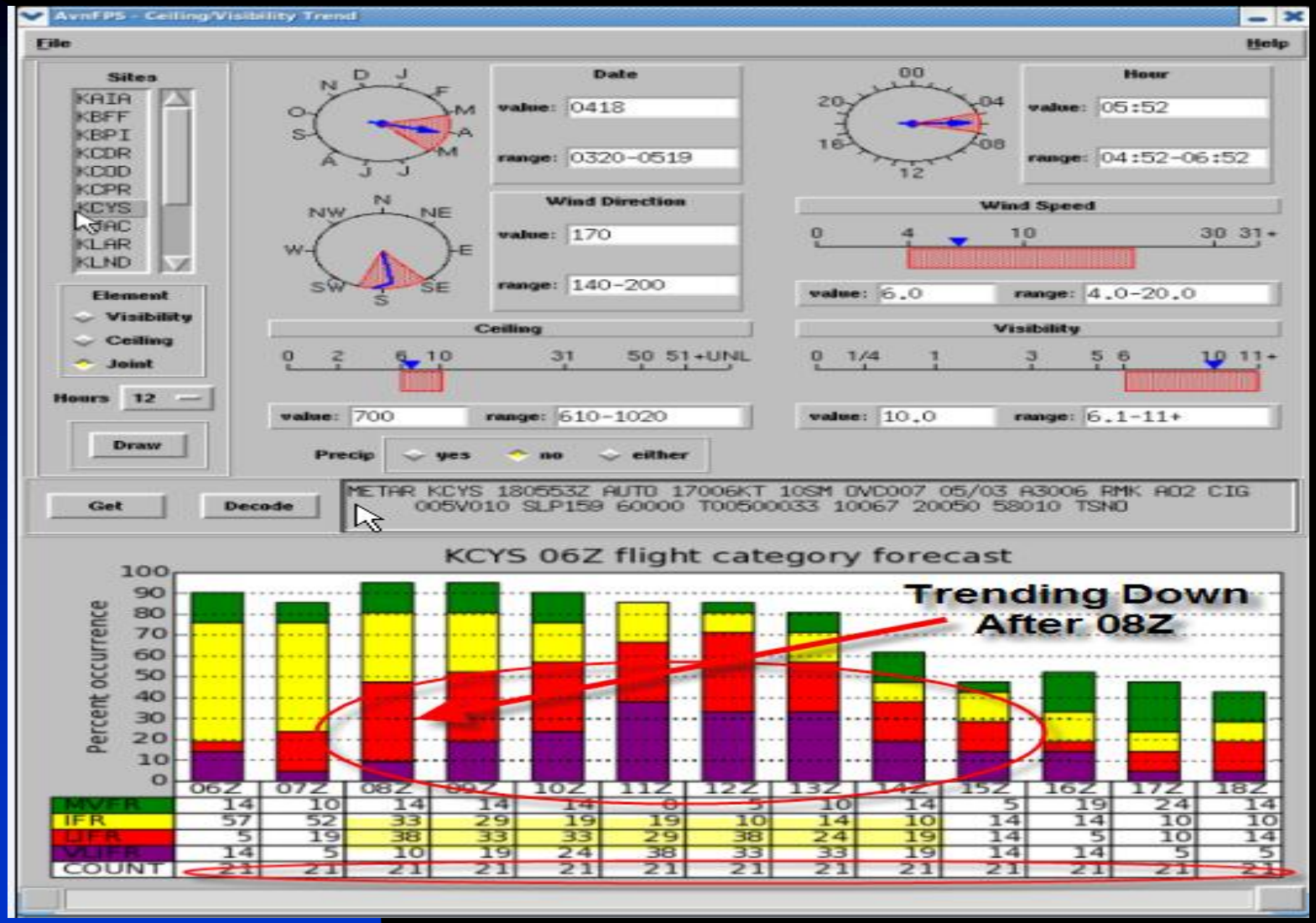
range: 010-070
Wind Speed
0 4 10 30 31+
value: 8.0
range: 4.0-20.0
Ceiling
0 2 6 10 31 50 51+UNL
value: 800
range: 500-1200
Visibility
0 1/4 1 3 5 6 10 11+
value: 2.0
range: 1.0-3.0
Precip
yes
no
either
Get
Decode
AWIPS Pulldown Menu
1. Start AvnFPS
2. Select Ceiling & Visibility Trend
3. This is what you'll see


AvnFPS - Ceiling/Visibility Trend
File
Help
Sites
KAIA
KBFF
KBPI
KCDR
KCOD
KCPR
KCYS
KJAC
KLAR
KLND
Element
Visibility
Ceiling
Joint
Hours 12
Draw
Step 1: Select Station
Step 2
Step 3
Step 6: Final Step
Date
value: 0418
range: 0320-
Can Adjust Any Of These Red Variables To Get A bigger Sample Size
Hour
value: 05:52
range: 04:52-06:52
Wind Direction
value: 170
range: 140-200
Wind Speed
value: 6.0
range: 4.0-20.0
Ceiling
value: 700
range: 500-1200
Visibility
value: 10.0
range: 6.1-11+
Precip
yes
no
either
Get
Decode
METAR KCYS 180553Z AUTO 17006KT 10SM OVC007 05/03 A3006 RMK A02 CIG 005V010 SLP159 60000 T00500033 10067 20050 58010 TSNO
Step 4
Step 5

Cig/Vis Trend Gui

- Two Cases Follow Where The Program Worked Fairly Well

Conditions Already Down



Results

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     SLP167 T00110006 TSNO
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SPECI KCYS 181017Z AUTO 19006KT 1 1/4SM BR BKN001 02/01 A3005 RMK AO2
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     TSNO
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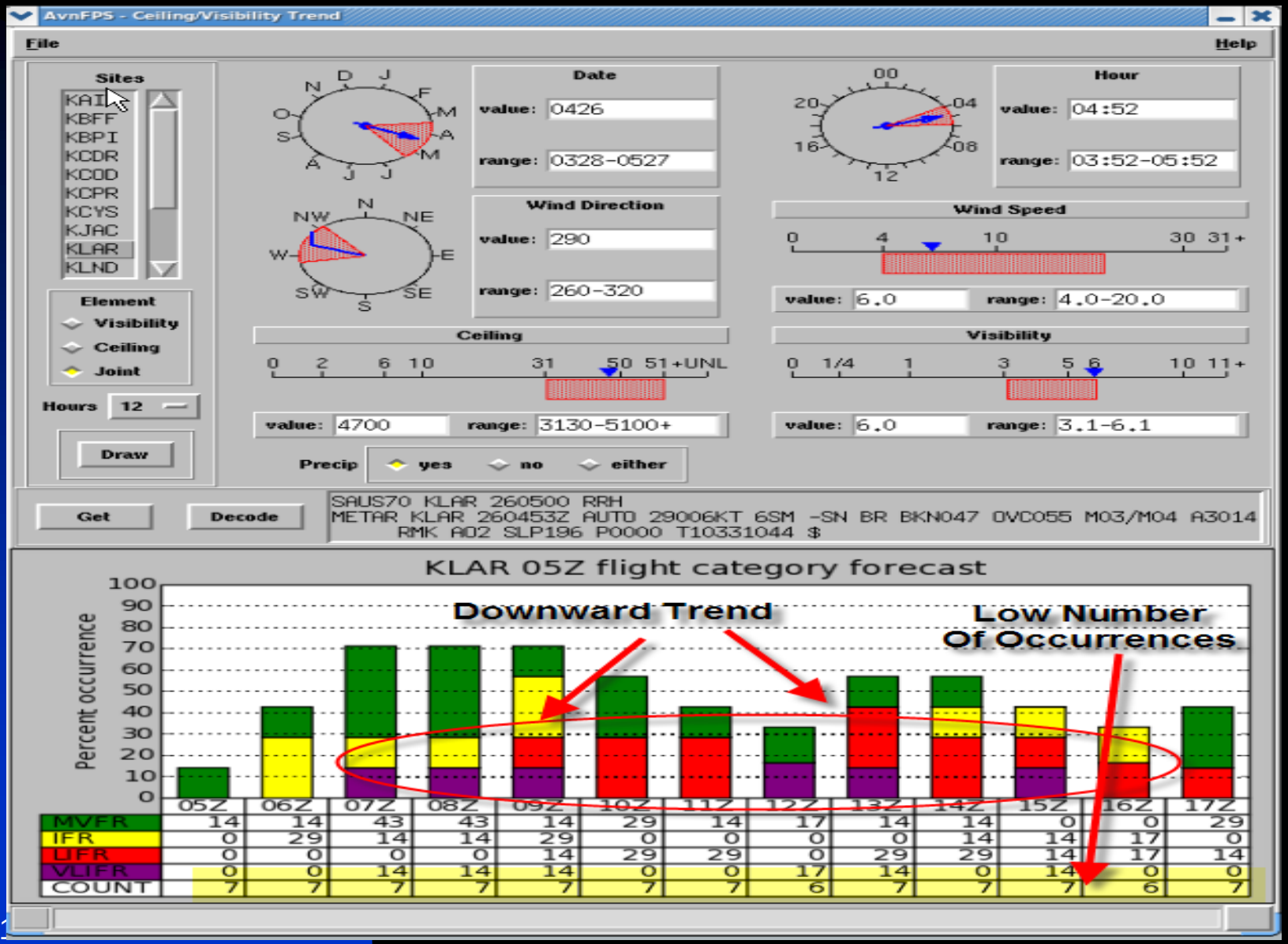
Missed

Did Good Trending Down

Missed

Conditions Up Going Down



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File Edit Options Version Tools Scripts Products Help

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AFOS Cmd: | WMO TTAAii CCCC: | AWIPS ID:

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Cig/Vis Trend Gui

- Does not always work. Especially when you're VFR and are concerned with conditions deteriorating. Low Cases Use With Caution
- Works Best When Count Number At The Bottom Of The Output Is High. More Cases Indicate a More Accurate Forecast
- Works Best When You're Already Down and Trying To Forecast Up Conditions

Cig/Vis Trend Gui

- My Recommendation:
  - Total Percentages For Everything IFR and Under (Definition of IFR is LT 1000/3 down to surface.
  - Use Joint In the Element Section To Get a Bigger Sample Size
  - Can Expand Hours and Months in the Observed Circles To Get A Bigger Sample Size As Well

Cig/Vis Trend Gui

- Further Training Can Be Found On Our Training Folder On The V Drive:
  - Aviation Conditional Climatology Tools
  - Recorded Version From OCWWS

  - Questions? Please ask me and I'll give you more demos