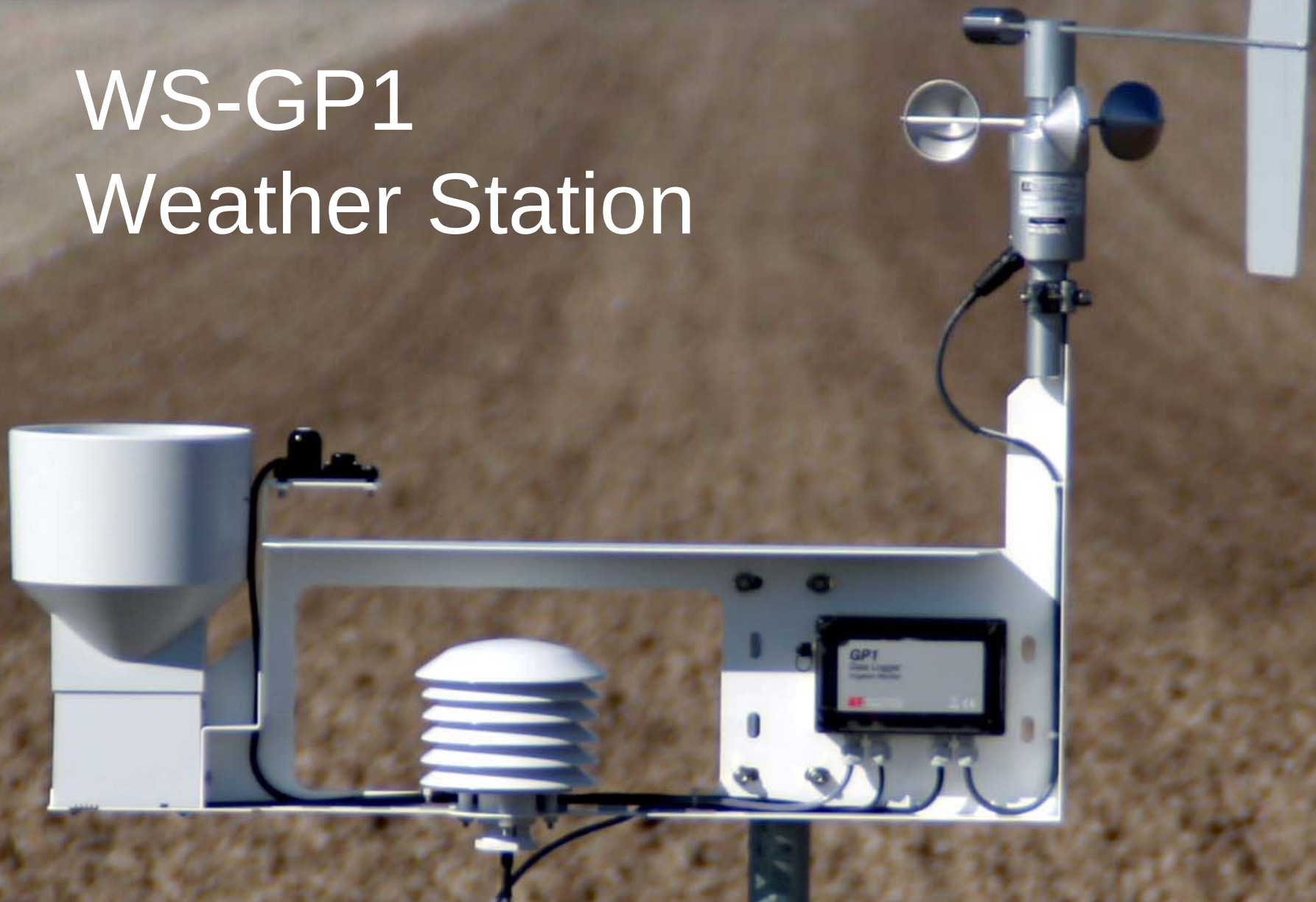


WS-GP1 Weather Station



Compact all-in one weather station

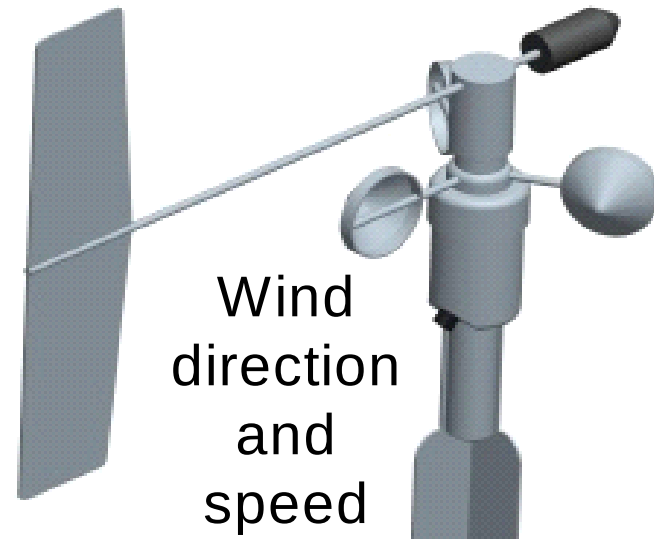
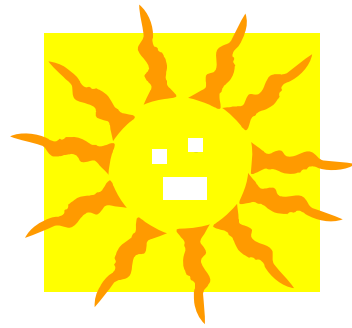
Easy to use:

- Highly portable
- Pre-wired for rapid set-up
- PDA and GSM modem download options

Complete package:

- Dependable, accurate sensors
- 2m tripod mast
- Pre-installed weather logging program

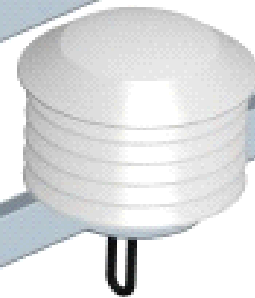
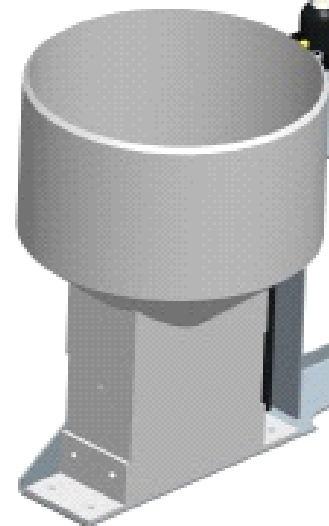




Wind
direction
and
speed

Solar
radiation

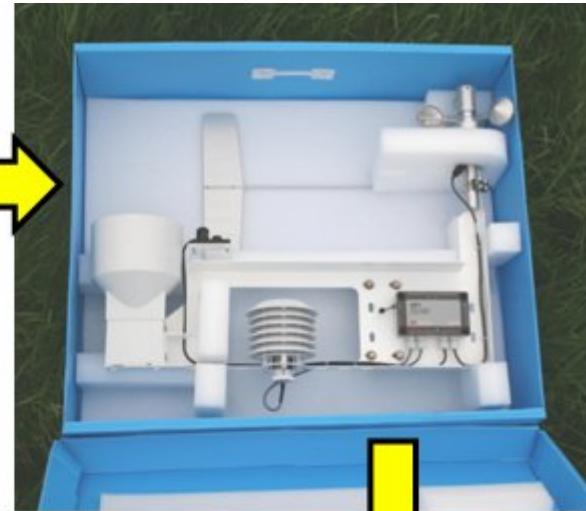
Rain



RH & air temperature

Data
logger





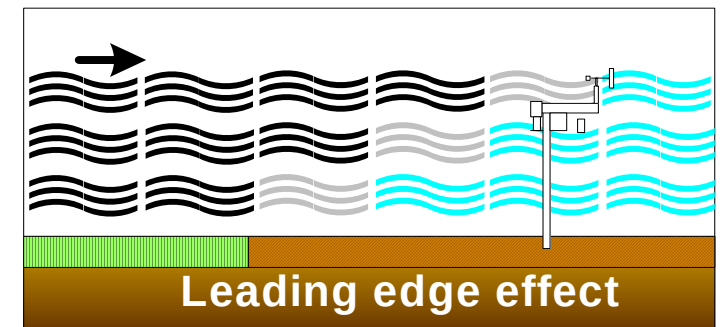
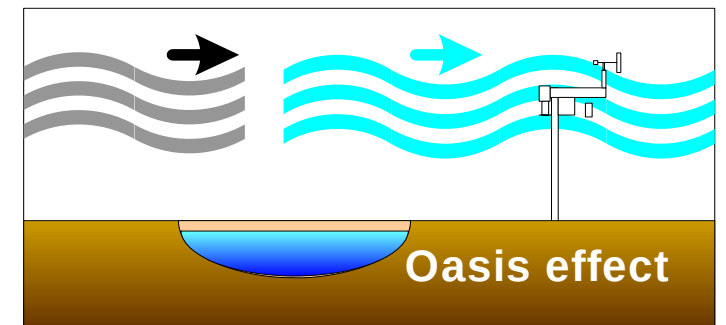
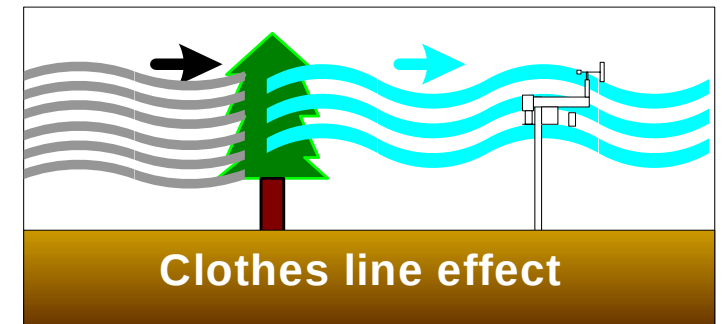
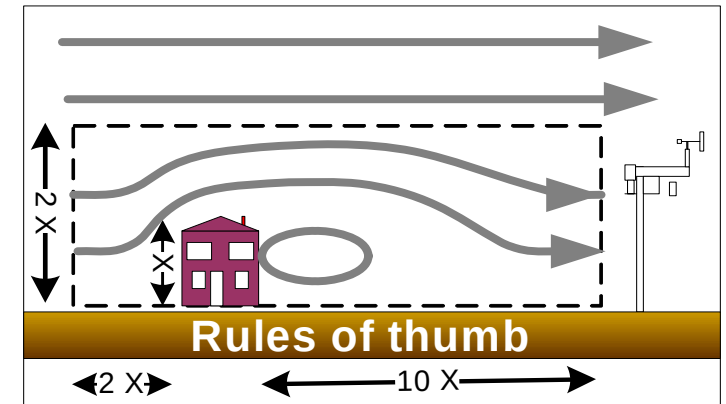
Pre-wired, pre-programmed & portable, works out-of-the-box

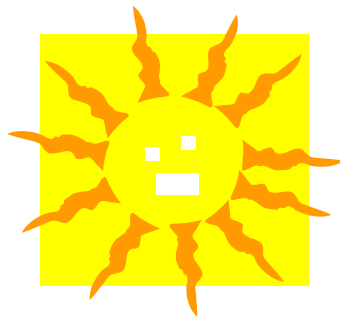


***Choose the
Location***

Avoid obstacles

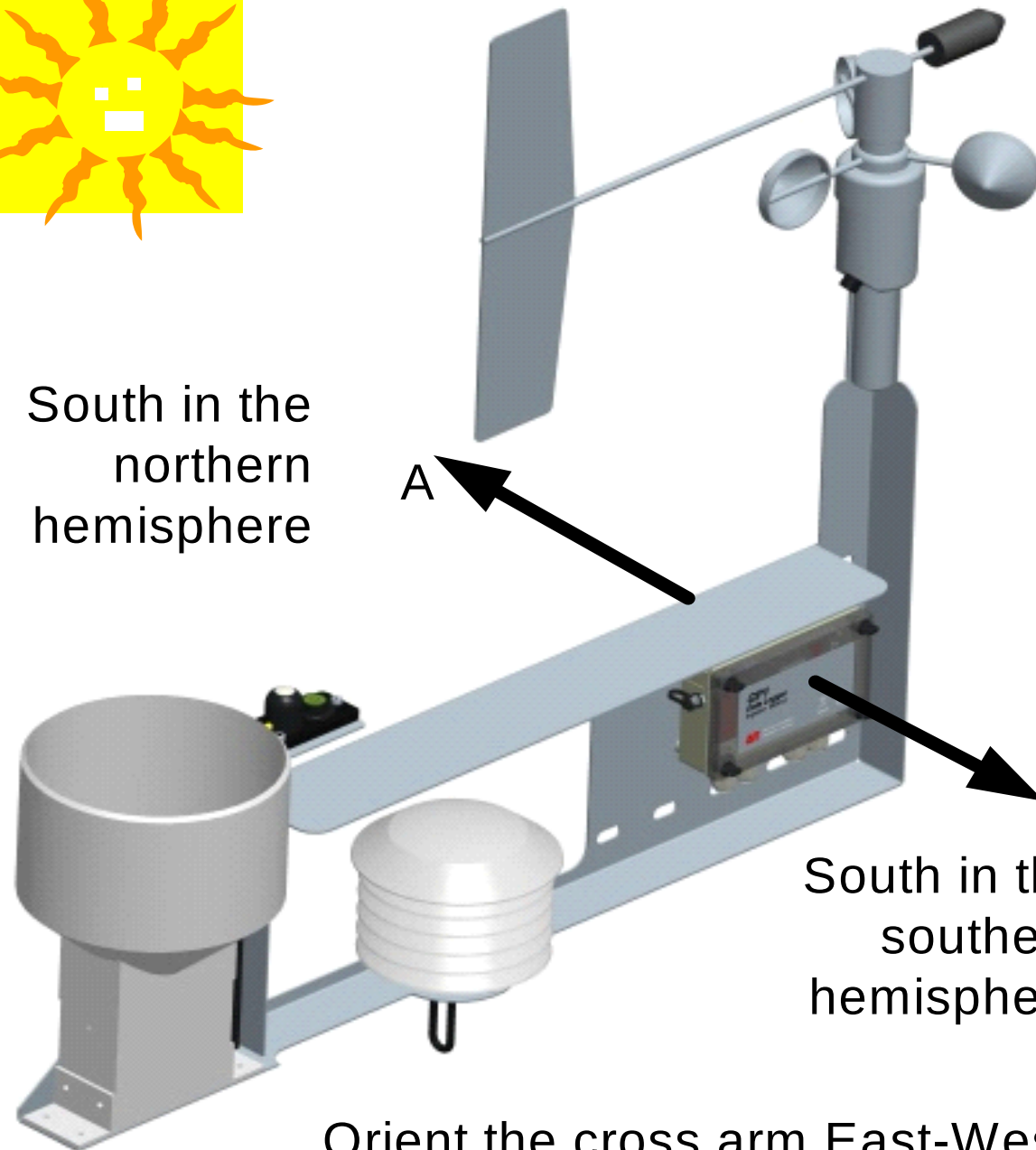
***Choose a
representative
location***





South in the
northern
hemisphere

A

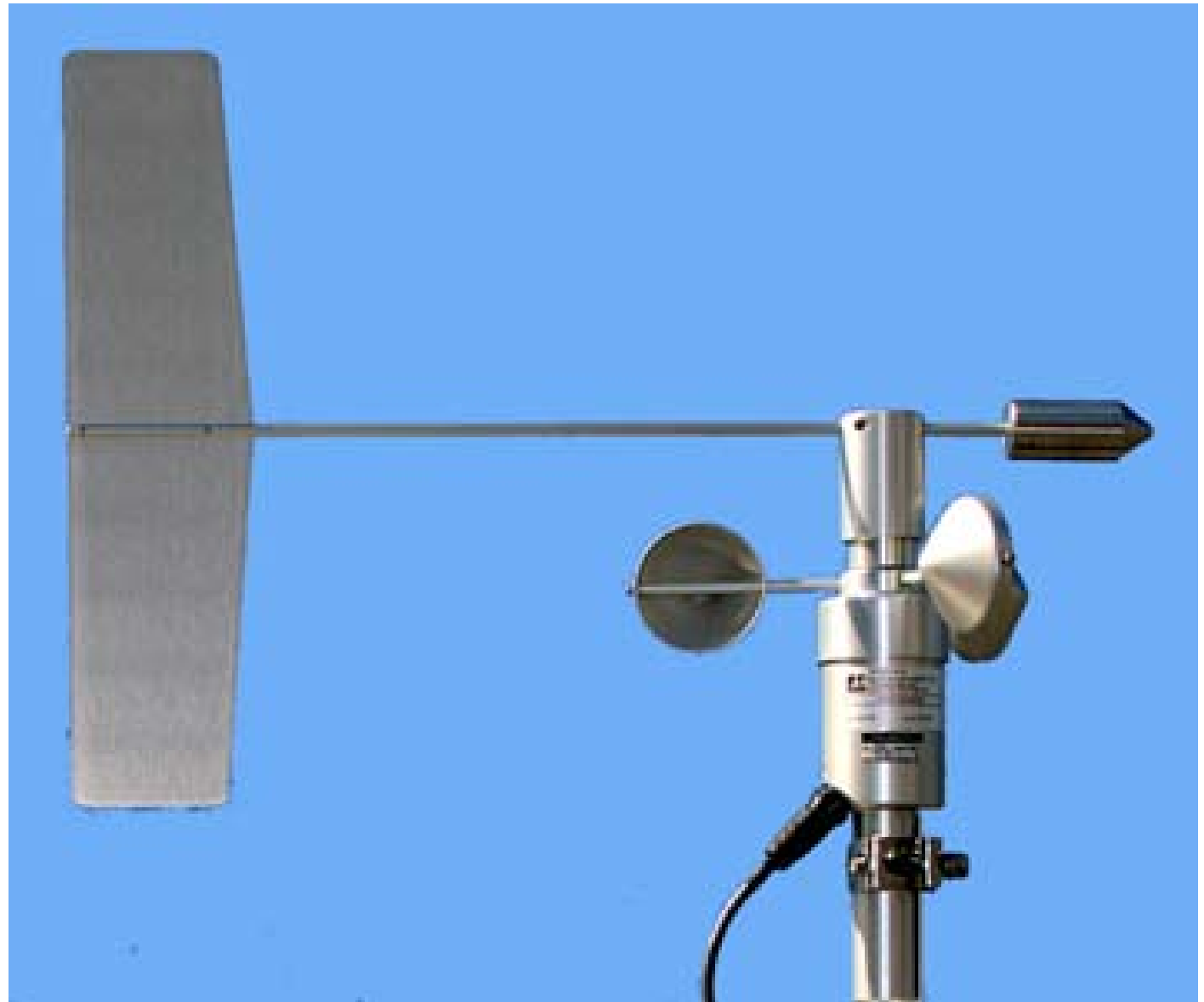


South in the
southern
hemisphere

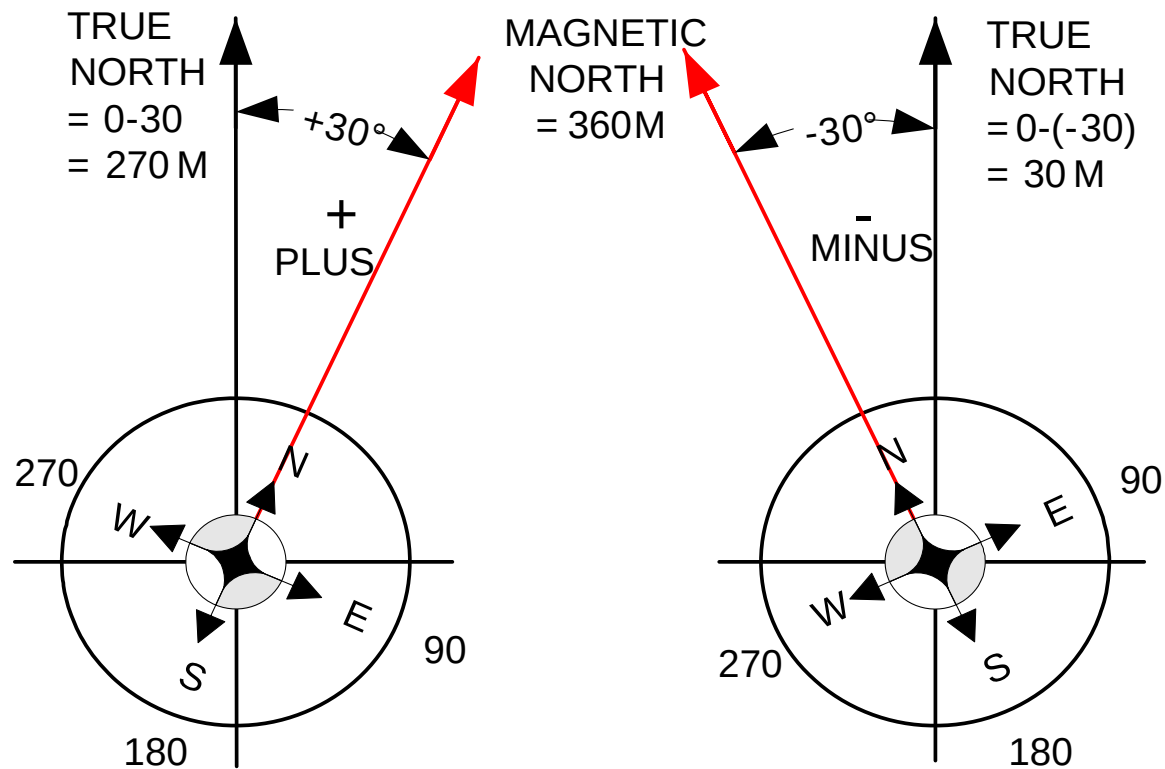
Orient the cross arm East-West

Attach the
wind vane
tail

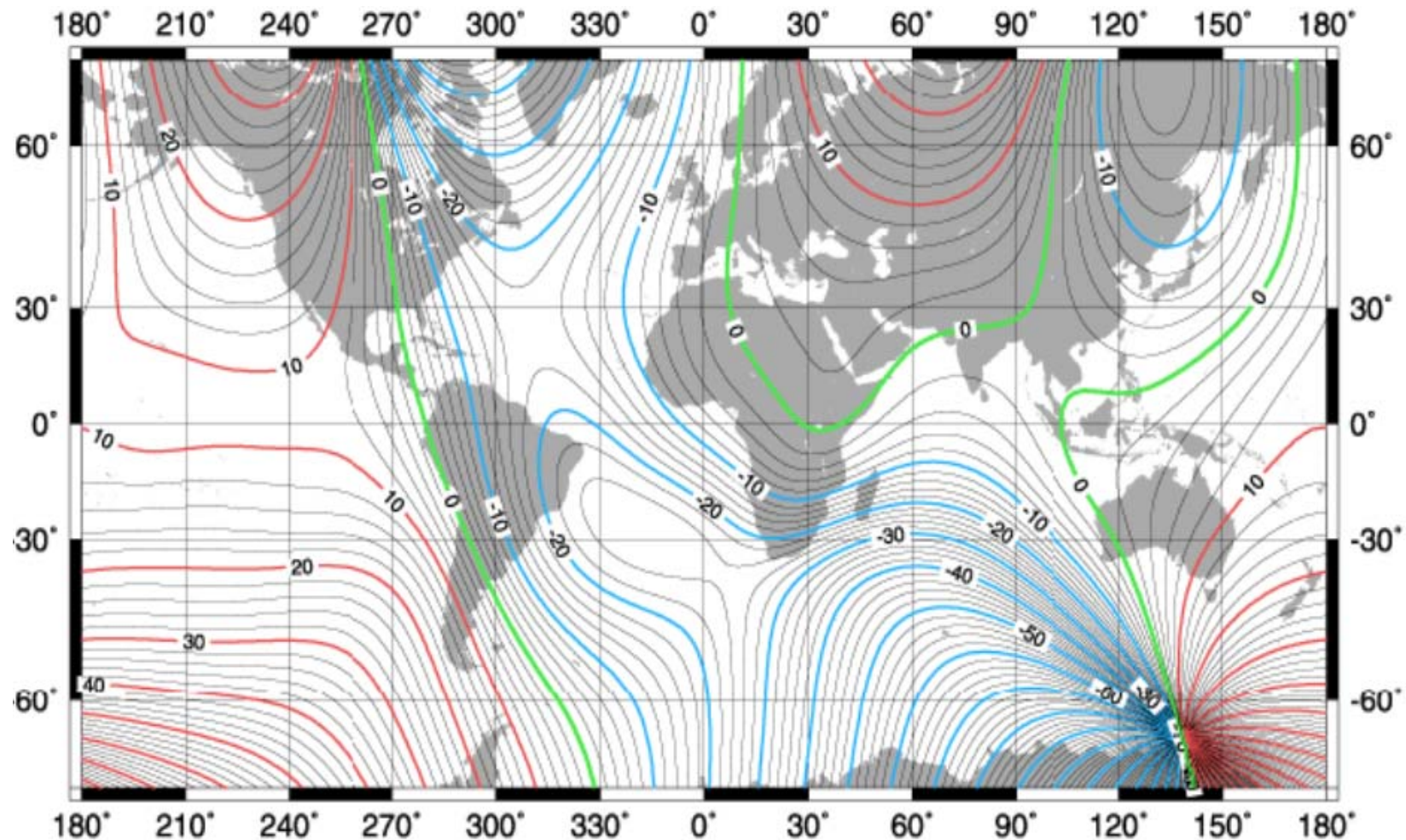
Orient the
body to
North



Set the wind sensor to true North,
you need your
local magnetic declination



Example: How to find true North given a compass
and the angle of magnetic declination



Typical magnetic declination map

(reproduced courtesy of NOAA)

<http://www.ngdc.noaa.gov/seg/geomag/jsp/struts/calcDeclination>

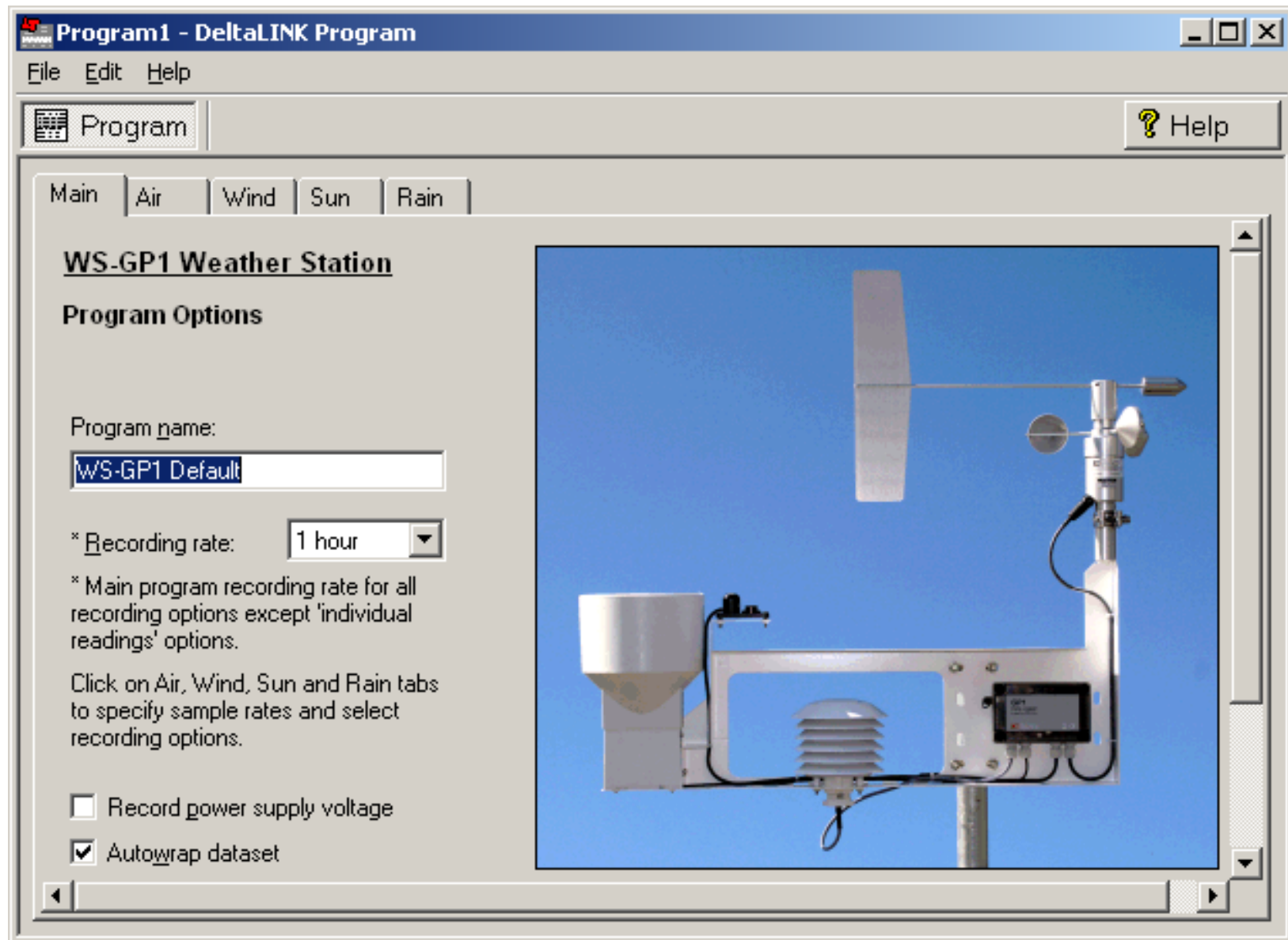
Level the light sensor



Install and start the software



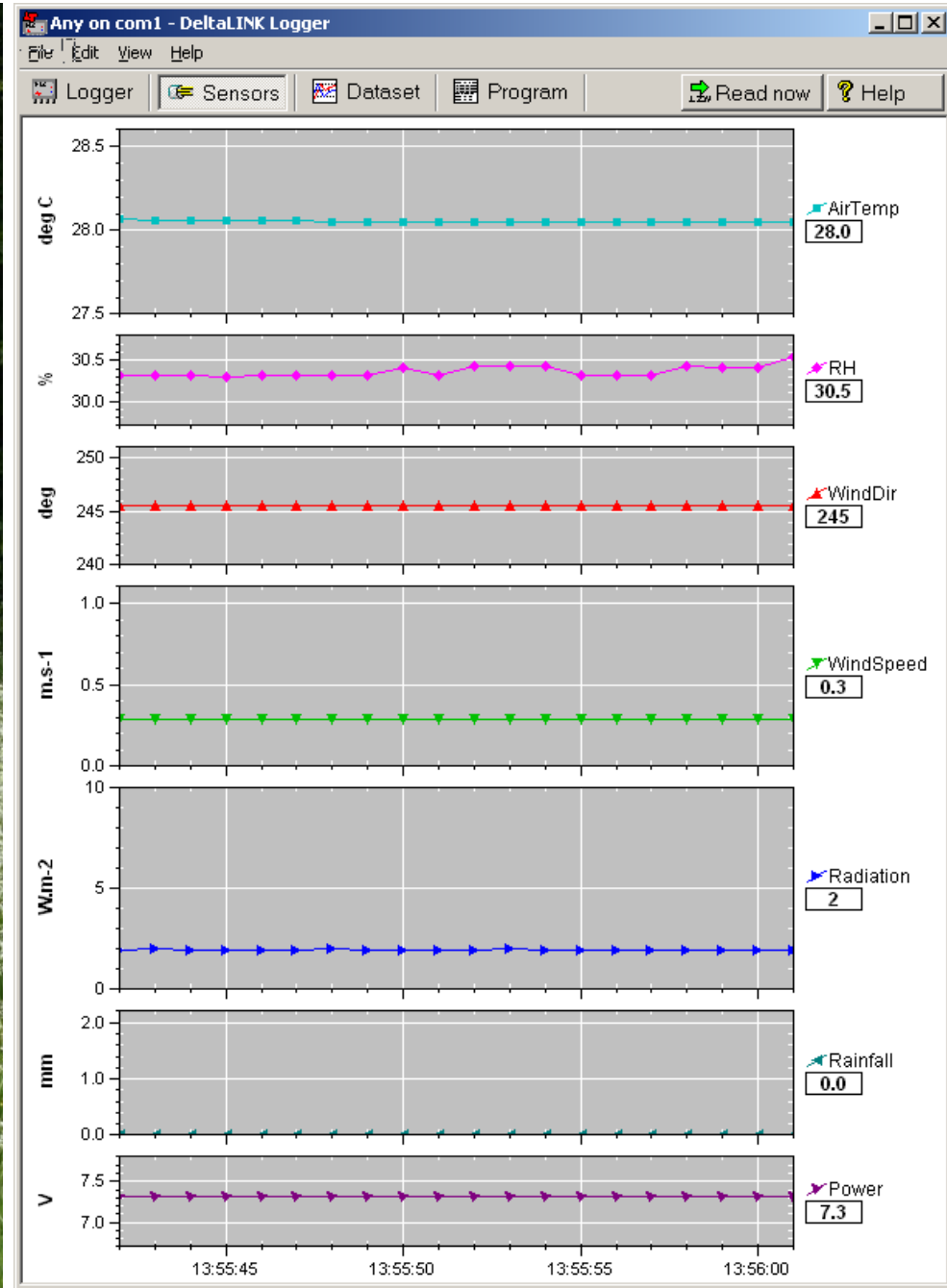
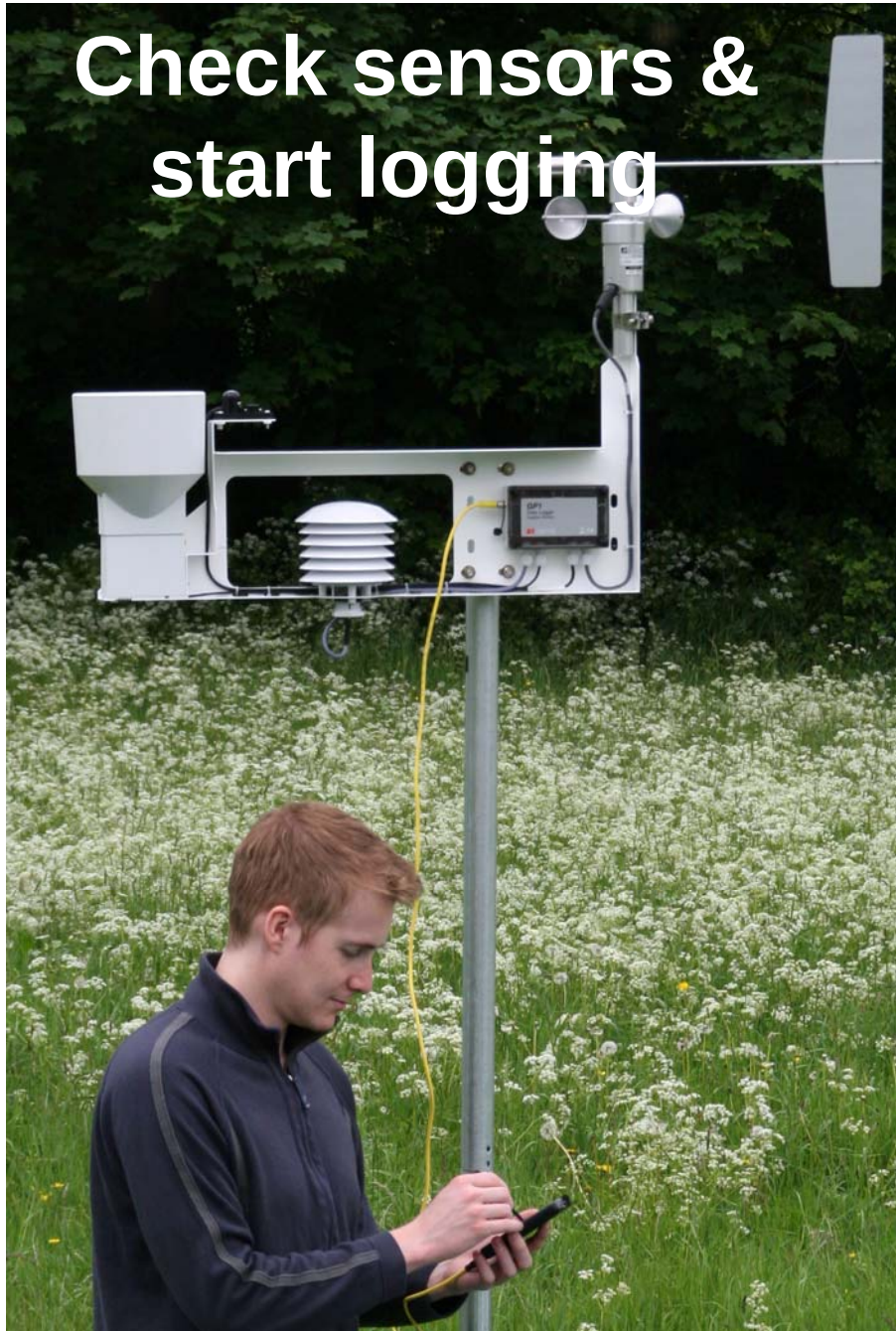
DeltaLINK-PC



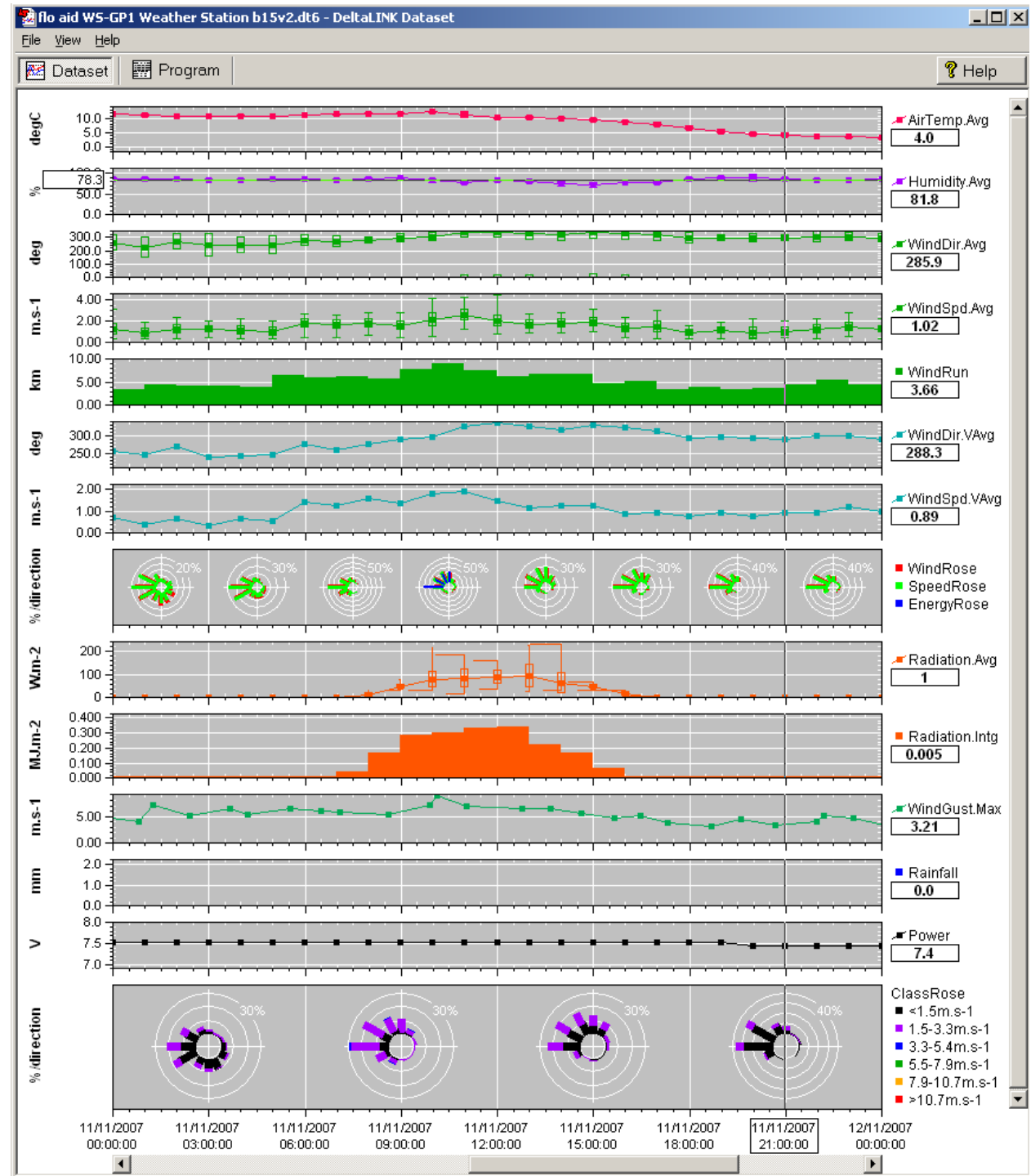
A default weather station program
is pre-installed
but you can customize it

Recording options		
Label	Units	Description
☒ AirTemp	deg C	Air temperature, individual readings
☒ AirTemp.Avg	deg C	Air temperature, average
☒ AirTemp.Min	deg C	Air temperature, mininum
☐ AirTemp.Tmin		Air temperature, time of minimum
☒ AirTemp.Max	deg C	Air temperature, maximum
☐ AirTemp.Tmax		Air temperature, time of maximum
☐ AirTemp.Std	deg C	Air temperature, standard deviation
☒ RH	%	Relative humidity, individual readings
☒ RH.Avg	%	Relative humidity, average
☒ RH.Min	%	Relative humidity, mininum

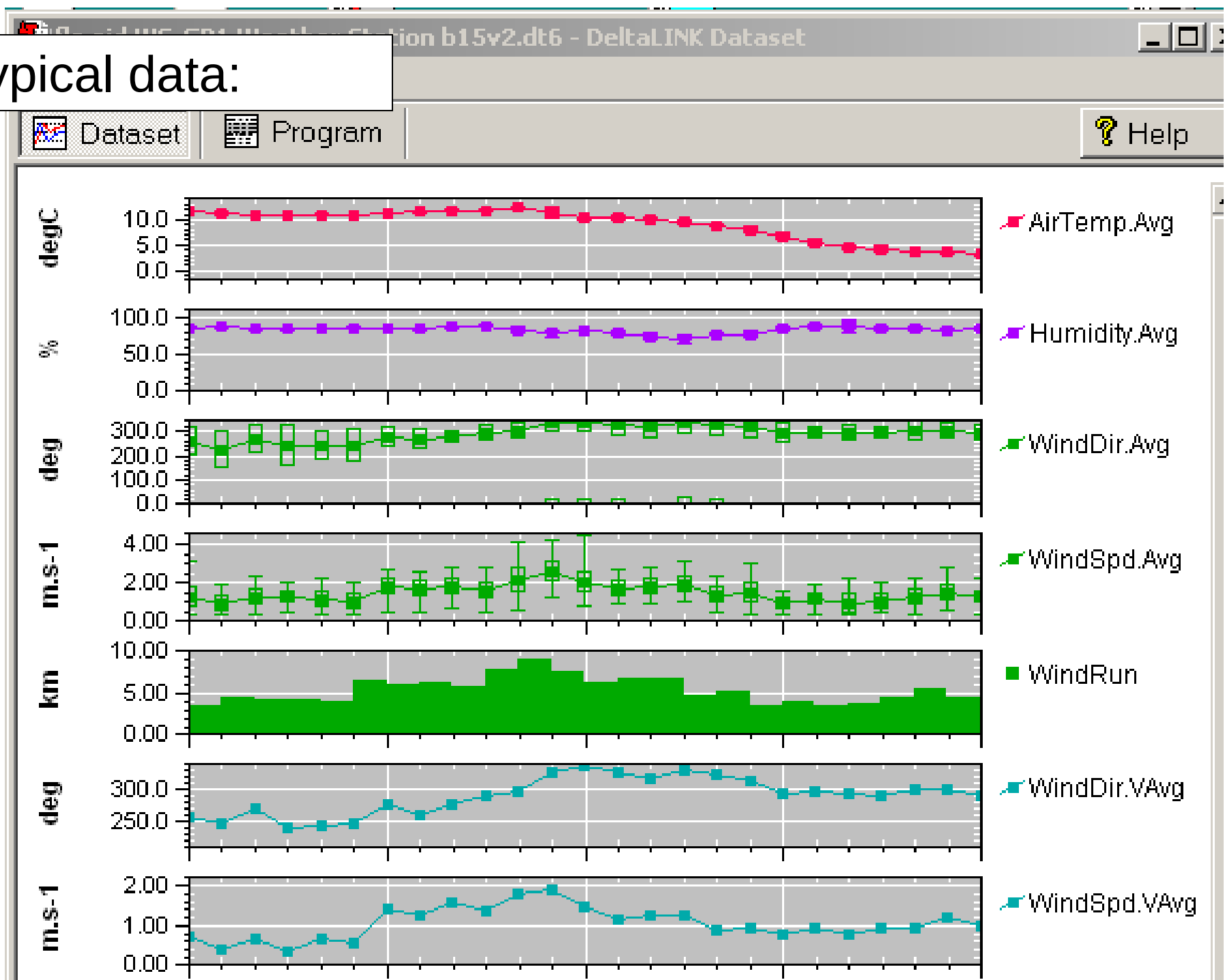
Check sensors & start logging



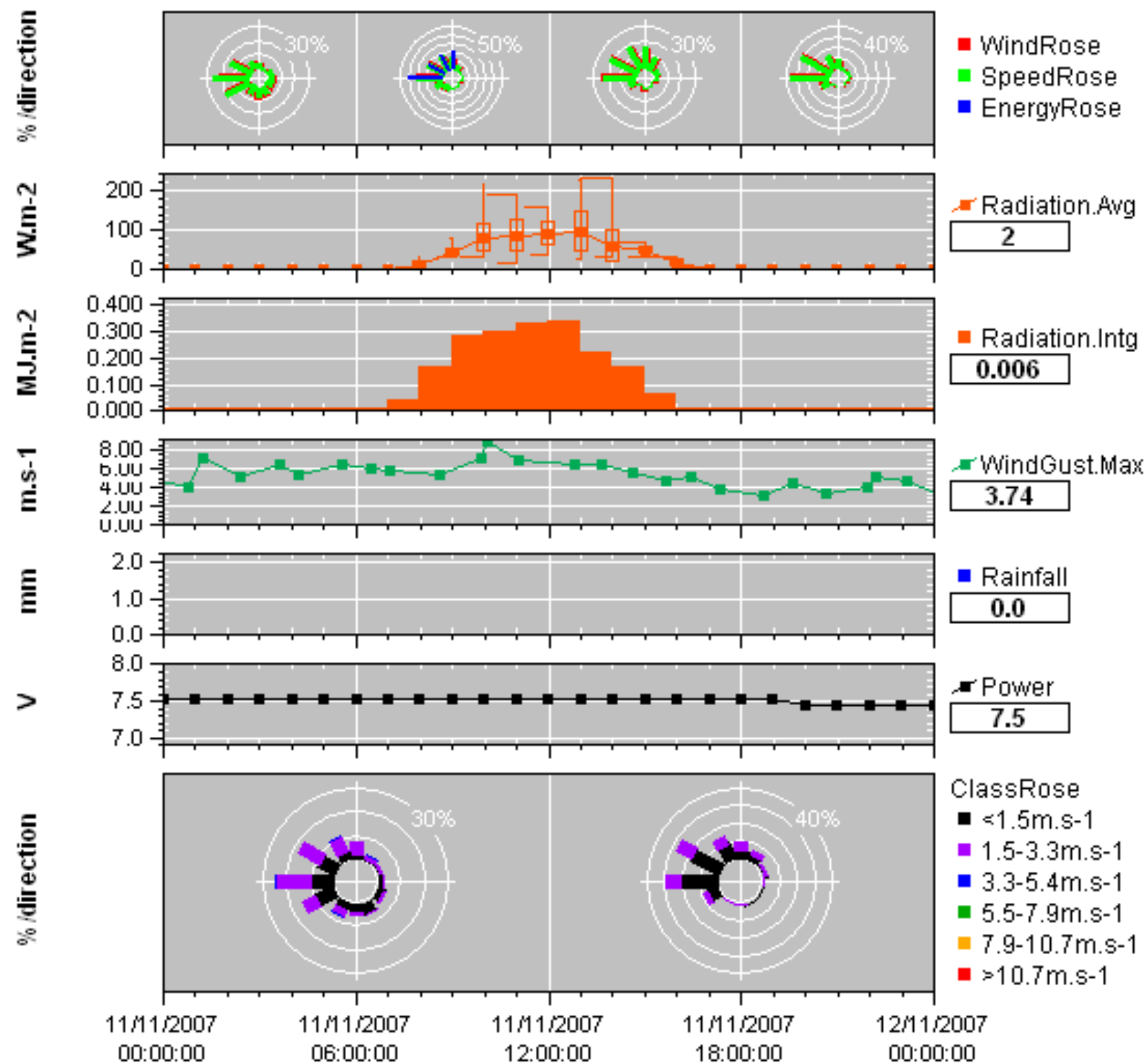
Collect and
save logged
data



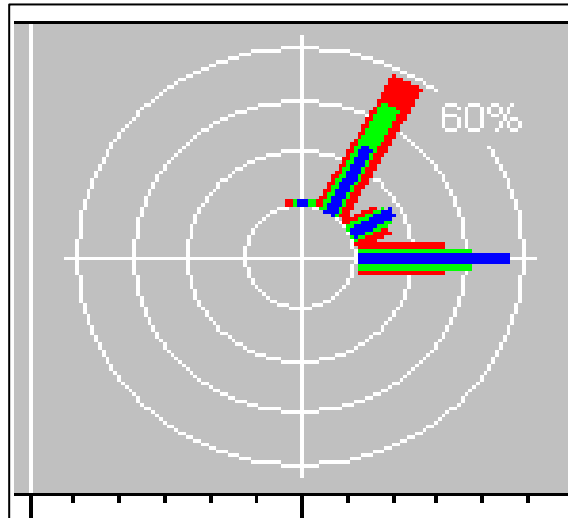
Typical data:



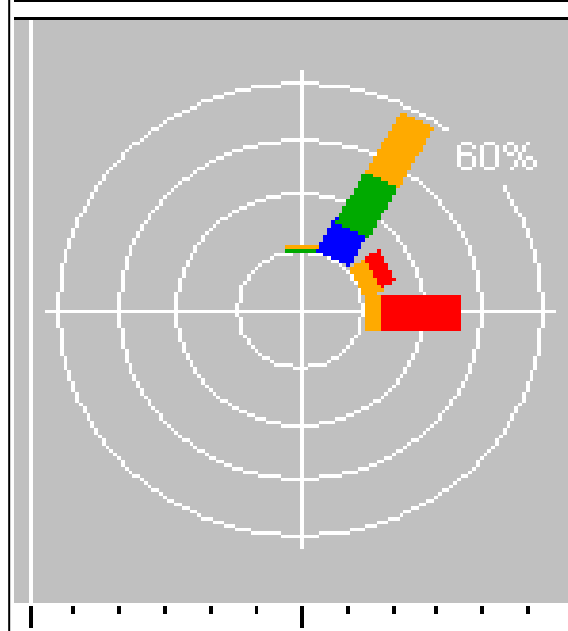
Typical
data:



Several wind roses are provided



- WindRose % of time wind was from each direction:
- SpeedRose % of windrun from each direction
- EnergyRose % of wind energy from each direction

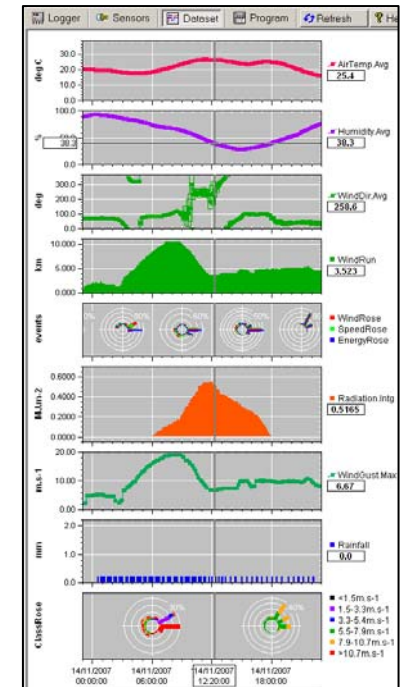


Class Rose: using Beaufort wind speed scale

- $\leq 1.5 \text{ m.s}^{-1}$ % of time speed $< 1.5 \text{ m.s}^{-1}$
- 1.5-3.3 m.s⁻¹
- 3.3-5.4 m.s⁻¹
- 5.5-7.9 m.s⁻¹
- 7.9-10.7 m.s⁻¹
- $> 10.7 \text{ m.s}^{-1}$

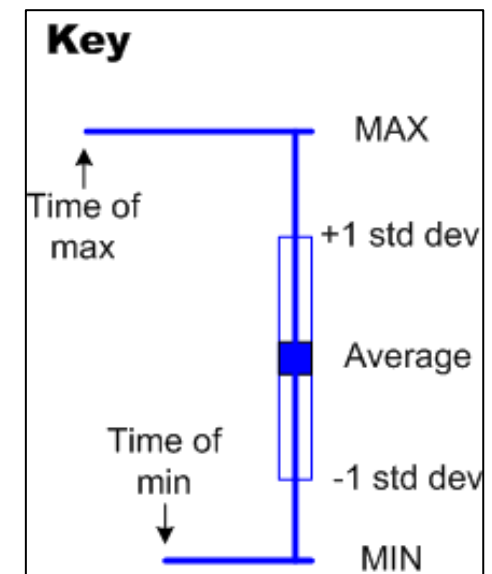
Right click to

- hide charts
- select 1,10 or 30 days or all data
- resize whole charts or part of them



You can toggle on/off the following:

- point markers
- min and max symbols
- standard deviation
- time of occurrence markers



Compact all-in one weather station

Easy to use:

- Highly portable
- Pre-wired for rapid set-up
- PDA and GSM modem download options

Complete package:

- Dependable, accurate sensors
- 2m tripod mast
- Pre-installed weather logging program



Further information



Delta-T Devices - Data Sheet

Weather Station type WS-GP1

Compact all-in-one weather station **NEW**

The WS-GP1 is an affordable weather station supplied as a ready-to-use package. Carefully matched, high grade sensors make the WS-GP1 a good choice for research and agricultural / environmental applications.

Easy to use:

- Highly portable
- Pre-wired for rapid set-up
- PDA and GSM modem download options

Complete package:

- Dependable, accurate sensors
- 2m tripod mast
- Pre-installed weather logging program

The WS-GP1 includes sensors to measure rain, solar radiation, wind speed, wind direction, relative humidity and air temperature.

Simple and convenient

A compact, battery-powered, compact solution for recording weather data. The WS-GP1 can be set up in minutes and requires minimal maintenance. The internal battery provides 6 months operation typical for alkaline, much longer with optional internal lithium battery.

Accurate

The sensors are carefully matched for reliability and accuracy. Being based on the powerful GP1 Data Logger, the system provides high quality weather data at moderate cost.

Easy data collection

Data can be collected with a notebook PC, or by using the GSM modem option. Alternatively, Pocket DataLink Software (optional) can be used to collect and view the data, or to reconfigure the logging set-up in the field.

Rugged

Despite their low cost, the sensors are operable and suitable for use in demanding environments. The galvanneal steel tripod and white painted stainless steel cross-arm ensure excellent physical strength.



APPLICATIONS

Agro-meteorology, Hydrology, Crop Trials, Environmental Science, Agriculture, Waste Management, Climatology, Agronomy, Environmental Impact Studies, Meteorology

Web site

<http://www.delta-t.co.uk/products.html?product2007050129328>



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