

POLAR WINDS DAWN DATA PRODUCTS

Level 1 Raw Data

Name Example: grip_dawn_20150515_160710_allbin_dir5_01755_100_000000002.dat
grip_dawn_20150515_160710_allgps_dir5_01755_100_000000002.dat

GPS and Binary data for all look angles. Contact Steven Greco at Simpson Weather Associates (434-979-3571)

Level 2 LOS Data

Name Example: 20150515_160443_160710_2_DAWN_los_final.dat
20150515 (yyyymmdd)
160443 (hhmmss in LST) – Beginning time of processing folder
160710(hhmmss in LST) – Time of Scan
2 – Number of Scan in processed folder

Line 1 Example 160710 5 172
 160710 start time (LST) of scan
 5 Number of Look Angles
 172 Number of Range gates AND lines to follow

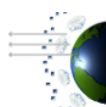
Line 2-172 – Look angle time,
 Look angle,
 Range gate number,
 aircraft heading (deg),
 latitude (deg N),
 longitude (deg W),
 range gate height (m amsl),
 SNR (dB),
 Los velocity (m/s)

Repeated for Number of Look Angles (i.e., for Look Angles 2, 3, 4 and 5)

Level 2 Profile Data

Both .csv and .xls versions provided. Only difference is that line 1 of the .xls file contains the header labels

Name Example: 20150515_160443_160710_2_DAWN_prof_final.xls
20150515_160443_160710_2_DAWN_prof_final.csv
20150515 (yyyymmdd)



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1600443 (hhmmss in LST) – Beginning time of processing folder
160710(hhmmss in LST) – Time of Scan
2 – Number of Scan in processed folder

Each line of the .csv and .xls files will contain the following variables in order (Except Line 1 of the .xls file which will contain the header labels as described below

Lines 1 – x for .csv(2 – x+1 for .xls) - Height (m amsl),
Wind Direction (deg),
Wind Speed (m/s),
u-component (m/s),
v-component (m/s),
w-component (m/s),
SNR (db),
Goodness of Fit (GOF),
Number of Look Angles,
Latitude (deg N),
Longitude (deg W),
Aircraft Heading)deg),
Aircraft Altitude (m amsl)

Level 3 Profile Figure

Name Example: 20150515_160443_160710_2_DAWN_prof_final.png
20150515 (yyyymmdd)
1600443 (hhmmss in LST) – Beginning time of processing folder
160710(hhmmss in LST) – Time of Scan
2 – Number of Scan in processed folder

A .png image of the corresponding .csv or .xls profile