



TARRYAN
WHEEL TECHNOLOGIES



Weather Profile for Dirk's 8/17 run...

Bottom line

Dirk had a minimal wind advantage during AW (one sample result)

A classic ride on essentially a CALM day!

Performance difference – AW ahead 48 secs!

- Wattage Average difference = AW = 7 watts LESS !

-Time difference – 48 secs in favor of AW wheel

EXCELLENT result for AW Concept !

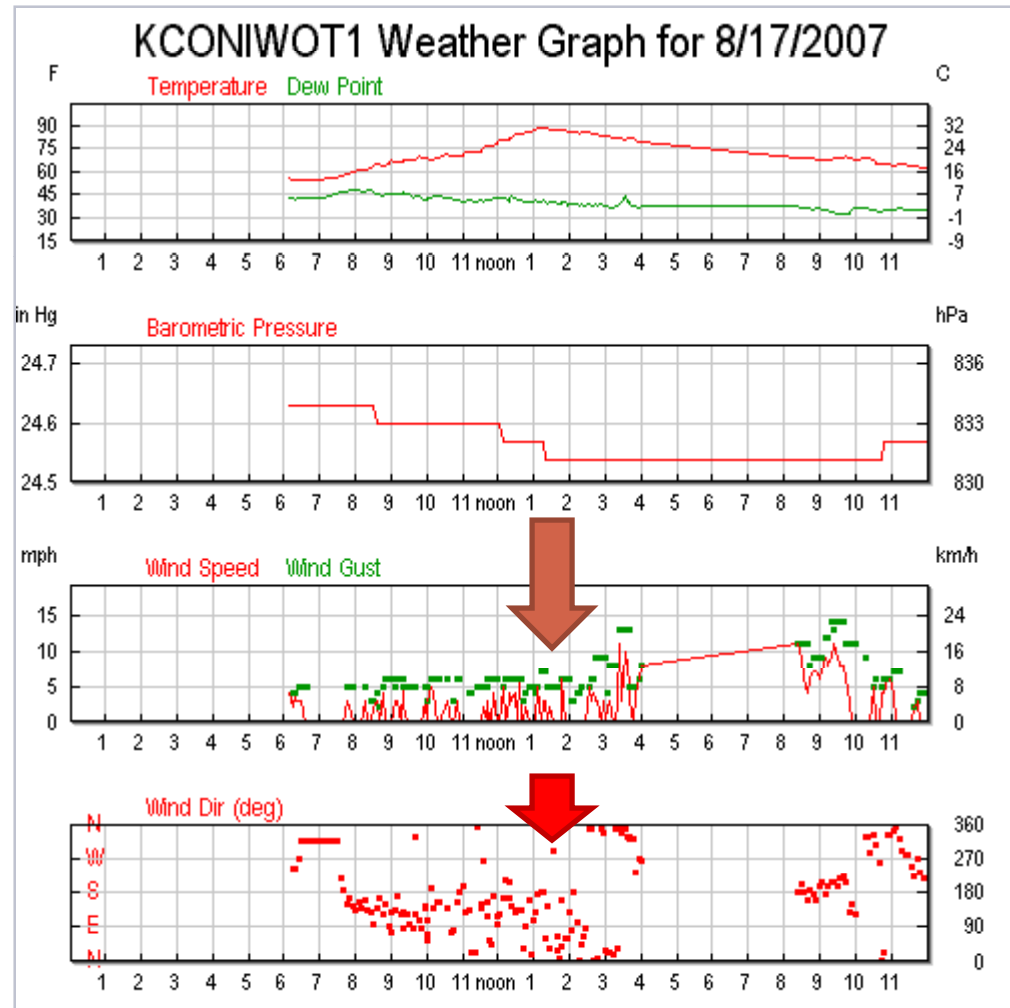
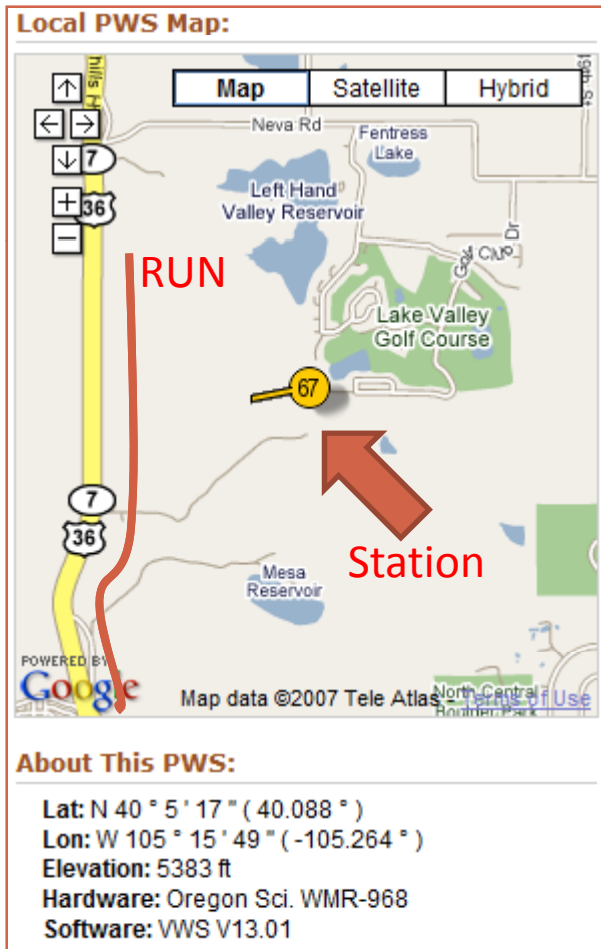


High level Assessment



Location of Weather Station
Ridge @ Lake Valley

STD run at 1:43PM - AW run at 2:22pm
Wind direction was mildly variable during this period





Tabular - detail



Tabular Data for August 17, 2007

STD

AW

Time	Temperature	Dew Point	Pressure	Wind	Wind Speed	Wind Gust	Humidity	Rainfall Rate (Hourly)
13:37	86.9 °F / 30.5 °C	39.8 °F / 4.3 °C	24.54in / 830.9hPa	Calm		5mph / 8.0km/h	19%	0.00in / 0.0mm
13:38	86.8 °F / 30.4 °C	39.6 °F / 4.2 °C	24.54in / 830.9hPa	Calm		5mph / 8.0km/h	19%	0.00in / 0.0mm
13:40	86.8 °F / 30.4 °C	39.6 °F / 4.2 °C	24.54in / 830.9hPa	Calm		5mph / 8.0km/h	19%	0.00in / 0.0mm
13:42	86.6 °F / 30.3 °C	39.5 °F / 4.2 °C	24.54in / 830.9hPa	Calm		0mph / 0.0km/h	19%	0.00in / 0.0mm
13:45	86.8 °F / 30.4 °C	39.6 °F / 4.2 °C	24.54in / 830.9hPa	Calm		0mph / 0.0km/h	19%	0.00in / 0.0mm
13:47	86.9 °F / 30.5 °C	39.8 °F / 4.3 °C	24.54in / 830.9hPa	SSE	6mph / 9.7km/h	6mph / 9.7km/h	19%	0.00in / 0.0mm
13:52	87.1 °F / 30.6 °C	39.9 °F / 4.4 °C	24.54in / 830.9hPa	Calm		6mph / 9.7km/h	19%	0.00in / 0.0mm
13:57	86.4 °F / 30.2 °C	37.9 °F / 3.3 °C	24.54in / 830.9hPa	Calm		6mph / 9.7km/h	18%	0.00in / 0.0mm
14:00	86.2 °F / 30.1 °C	39.2 °F / 4.0 °C	24.54in / 830.9hPa	Calm		6mph / 9.7km/h	19%	0.00in / 0.0mm
14:02	86.2 °F / 30.1 °C	39.2 °F / 4.0 °C	24.54in / 830.9hPa	Calm		3mph / 4.8km/h	19%	0.00in / 0.0mm
14:07	86.2 °F / 30.1 °C	39.2 °F / 4.0 °C	24.54in / 830.9hPa	Calm		3mph / 4.8km/h	19%	0.00in / 0.0mm
14:12	85.7 °F / 29.8 °C	38.7 °F / 3.7 °C	24.54in / 830.9hPa	Calm		4mph / 6.4km/h	19%	0.00in / 0.0mm
14:17	85.0 °F / 29.4 °C	38.1 °F / 3.4 °C	24.54in / 830.9hPa	Calm		4mph / 6.4km/h	19%	0.00in / 0.0mm
14:20	85.3 °F / 29.6 °C	38.4 °F / 3.6 °C	24.54in / 830.9hPa	Calm		5mph / 8.0km/h	19%	0.00in / 0.0mm
14:22	85.7 °F / 29.8 °C	37.3 °F / 2.9 °C	24.54in / 830.9hPa	Calm		0mph / 0.0km/h	18%	0.00in / 0.0mm
14:27	85.9 °F / 29.9 °C	37.5 °F / 3.1 °C	24.54in / 830.9hPa	Calm		0mph / 0.0km/h	18%	0.00in / 0.0mm
14:32	85.5 °F / 29.7 °C	38.6 °F / 3.7 °C	24.54in / 830.9hPa	North	5mph / 8.0km/h	5mph / 8.0km/h	19%	0.00in / 0.0mm
14:37	85.1 °F / 29.5 °C	38.3 °F / 3.5 °C	24.54in / 830.9hPa	North	3mph / 4.8km/h	6mph / 9.7km/h	19%	0.00in / 0.0mm
14:40	85.0 °F / 29.4 °C	38.1 °F / 3.4 °C	24.54in / 830.9hPa	North	4mph / 6.4km/h	6mph / 9.7km/h	19%	0.00in / 0.0mm

> Ride began at 1:18 pm – STD run began 25mins later @ 1:43 pm – winds were calm
 Except for one sample (few mins?) from ~South i.e. head wind of ~ 7km/h with gusts of ~7km/h

>AW run began 1:04 mins after 1:18pm – thus 2nd run began at 2:22pm – winds were calm
 Except for one sample coming from North i.e. tail wind of ~6km/h with gusts of 6km/h

WKO+ Information from Dirk

Workout Settings	
Athlete name	Friel, Dirk
Workout date	Fri 8/17/2007
Workout time	1:17:59 PM
Sport type	Bike
Workout code	
Athlete weight	166 lb
Max heart rate	198 bpm
Threshold heart rate	175 bpm
Threshold power	360 watts

Notes	Options
89°F SRM Powercontrol V time of day 13:30 wow AW really had an effect today. i felt it right away. I even averaged 6w lower on the AW run and went 48 seconds faster. felt good today (8). sm pre-ride setting 315 sm post ride- 325 weather was neutral with clouds and a few sprinkles.	

SRM #4																												
SRM #5																												
Entire workout (220 watts)																												
Duration: 9:35.40 (10:05.80) Work: 192 kJ TSS: 13.7 (0.927) Norm Power: 334 VI: 1 Distance: 4.404 mi																												
<table border="1"> <thead> <tr> <th></th> <th>Min</th> <th>Max</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Power:</td> <td>0</td> <td>570</td> <td>334 watts</td> </tr> <tr> <td>Heart rate:</td> <td>0</td> <td>206</td> <td>66 bpm</td> </tr> <tr> <td>Cadence:</td> <td>33</td> <td>111</td> <td>97 rpm</td> </tr> <tr> <td>Speed:</td> <td>3.6</td> <td>41.6</td> <td>27.6 mph</td> </tr> <tr> <td>Pace:</td> <td>1:26</td> <td>16:39</td> <td>2:11 min/mi</td> </tr> <tr> <td>Crank Torque:</td> <td>0</td> <td>852</td> <td>291 lb-in</td> </tr> </tbody> </table>		Min	Max	Avg	Power:	0	570	334 watts	Heart rate:	0	206	66 bpm	Cadence:	33	111	97 rpm	Speed:	3.6	41.6	27.6 mph	Pace:	1:26	16:39	2:11 min/mi	Crank Torque:	0	852	291 lb-in
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Duration: 8:47.40 (9:16.80) Work: 173 kJ TSS: 12.1 (0.91) Norm Power: 328 VI: 1 Distance: 4.381 mi																												
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Performance difference – AW ahead 48 secs!

- Wattage Average difference = AW = 7 watts LESS !
- Time difference – 48 secs in favor of AW wheel