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May 24, 2016

Ms. Lori Simmons
Arkansas Department of Health
4815 West Markham Street
Little Rock, Arkansas 72205
Via email Lori.Simmons@arkansas.gov

Re: Georgia-Pacific, Crossett Mill - Biweekly Air Monitoring Report for Hydrogen Sulfide

Dear Ms. Simmons,

Following is the biweekly data summary for the Georgia-Pacific (GP) hydrogen sulfide (H_2S) and meteorological monitoring program, at the GP Crossett mill, covering the calendar period of April 19th through May 2nd.

Summary of Results

Included in this report are three plots presenting H_2S concentrations calculated with varied rolling average periods (30-minute, 8-hour, and 24-hour).

Also included in this report is a summary of results from the daily 1-point QC checks performed during this biweekly period. The QAPP establishes goals for precision and bias as a coefficient of variation (CV) <10% and ± 10%, respectively. Precision and bias are calculated in accordance with 40 CFR Part 58 Appendix A, Section 4.1.

There were no occurrences of data loss during this two week period, other than those resulting from automated daily 1-point QC and weekly calibration checks. However, during the afternoon of April 28th, the scheduled automated QC check was interrupted due to PC maintenance. Results for all available automated daily 1-point QC checks fall within the acceptable range, indicating the H_2S monitor was operating in accordance with the QAPP.

Fourteen-day time series plots for all recorded meteorological (met) parameters are presented in the final table. All met parameters have 100% data capture for this report period.

Please feel free to contact me if you have any questions or need any additional data.

Sincerely,

Jonathan Bowser
Manager, Air Quality and Meteorological Monitoring

Air Measurements – Gainesville Office
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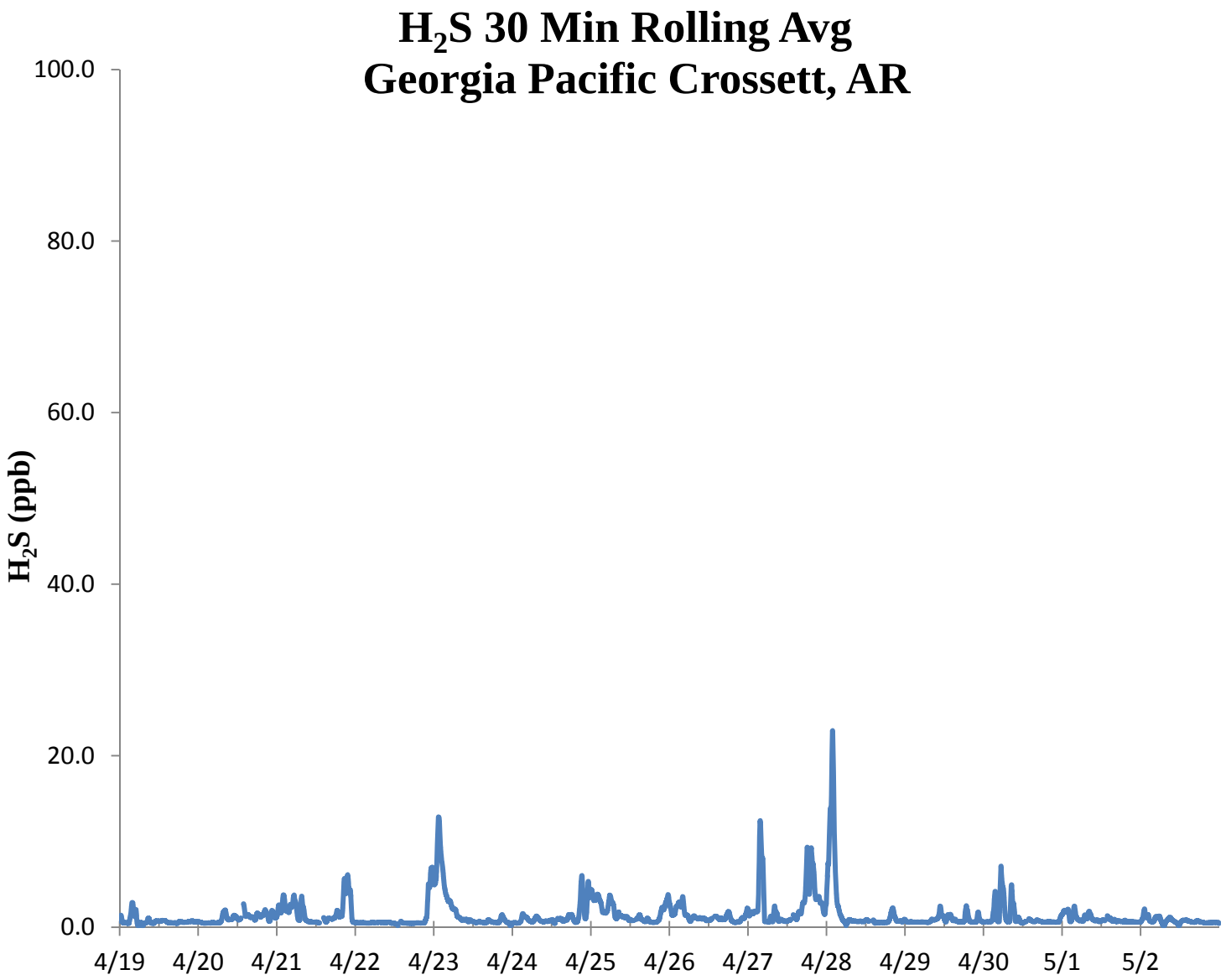
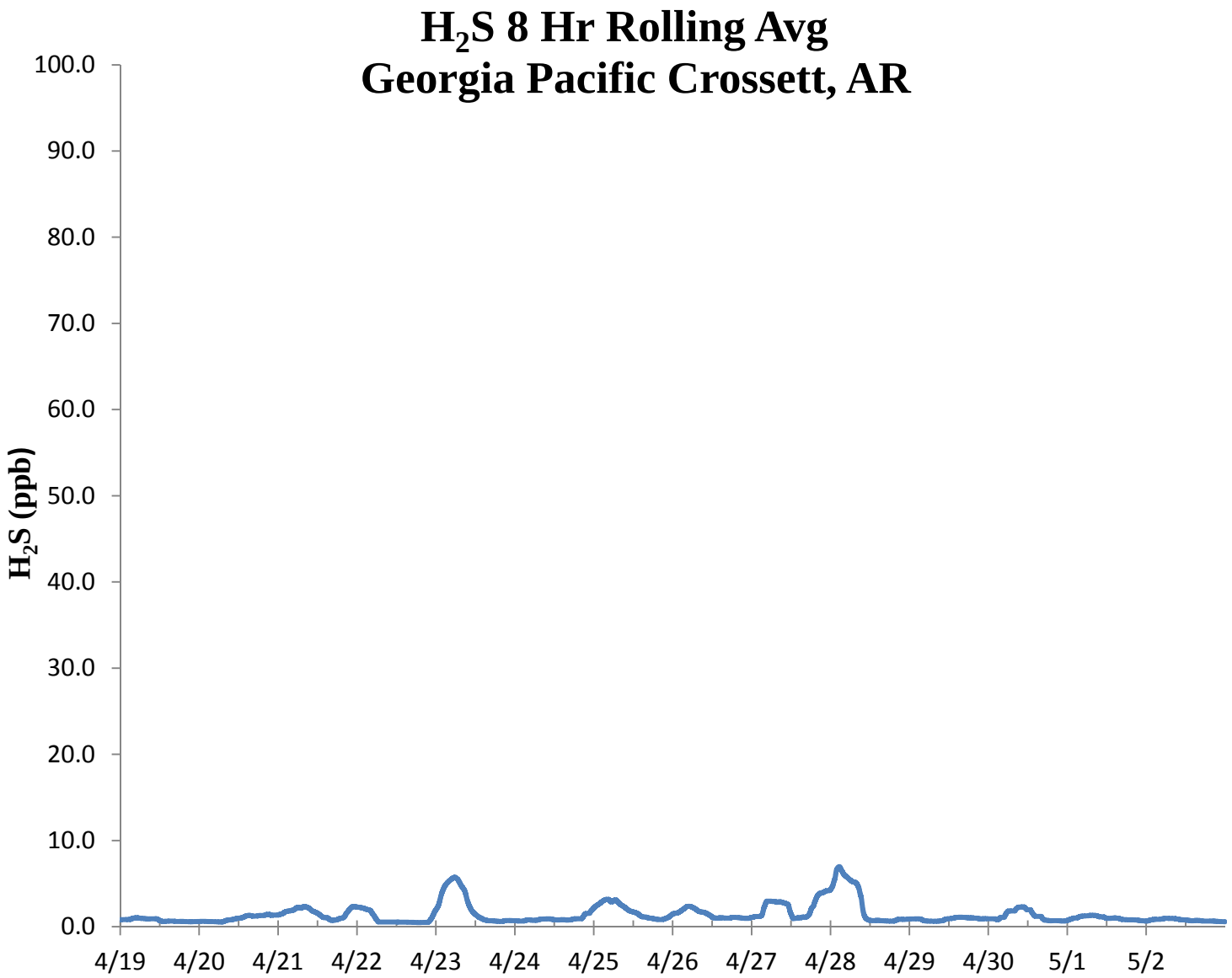
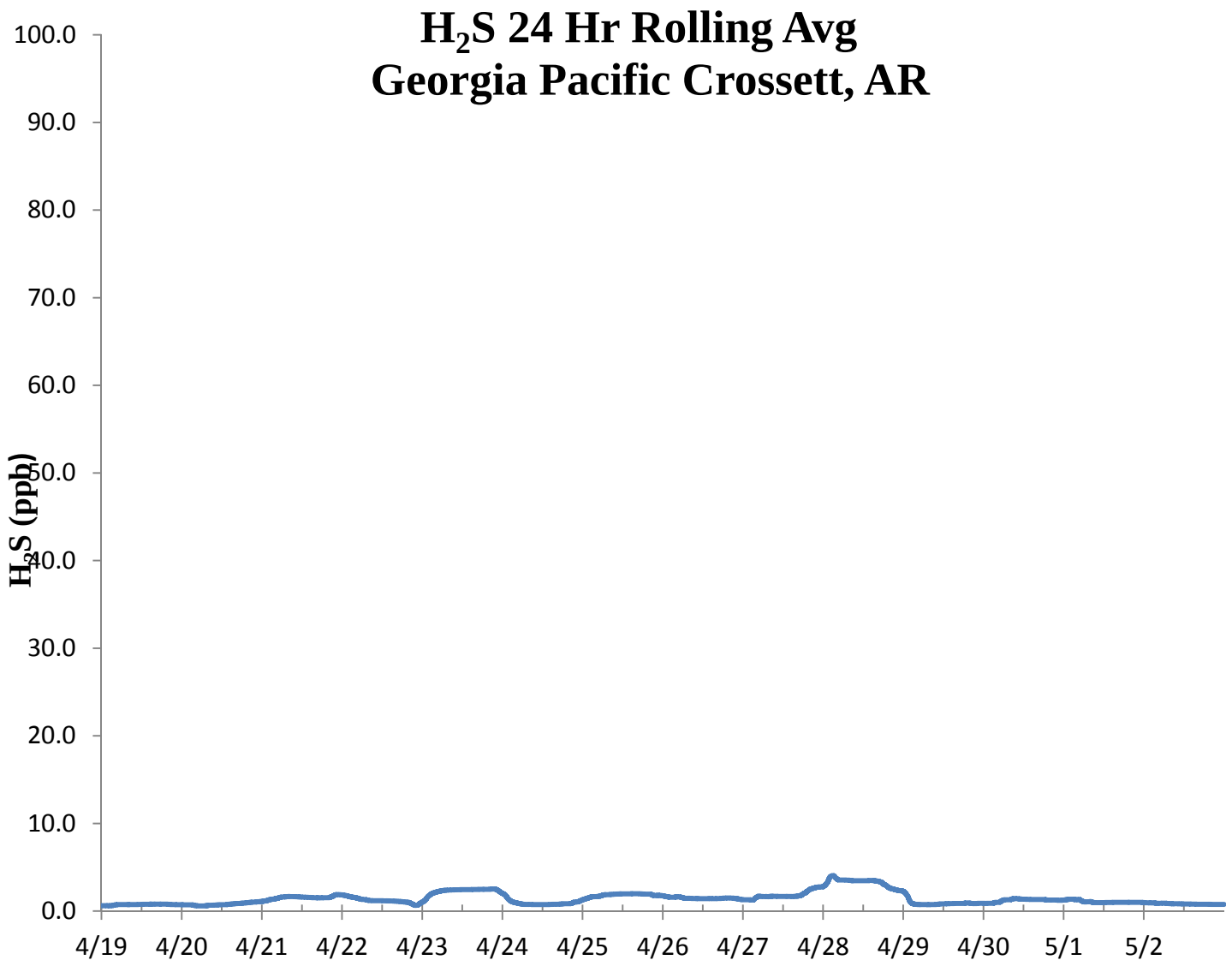
CC: Becky Keough, ADEQ Director via email: keogh@adeq.state.ar.us
Kara Allen, Environmental Engineer, USEPA Region 6 via email Allen.Kara@epa.gov


H2S 30 Min Rolling Avg
Georgia Pacific Crossett, AR
H2S (ppb)
100.0
80.0
60.0
40.0
20.0
0.0
4/19
4/20
4/21
4/22
4/23
4/24
4/25
4/26
4/27
4/28
4/29
4/30
5/1
5/2


H2S 8 Hr Rolling Avg
Georgia Pacific Crossett, AR
H2S (ppb)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
4/19
4/20
4/21
4/22
4/23
4/24
4/25
4/26
4/27
4/28
4/29
4/30
5/1
5/2


H2S 24 Hr Rolling Avg
Georgia Pacific Crossett, AR
H2S (ppb)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
4/19
4/20
4/21
4/22
4/23
4/24
4/25
4/26
4/27
4/28
4/29
4/30
5/1
5/2

H_2S Assessment

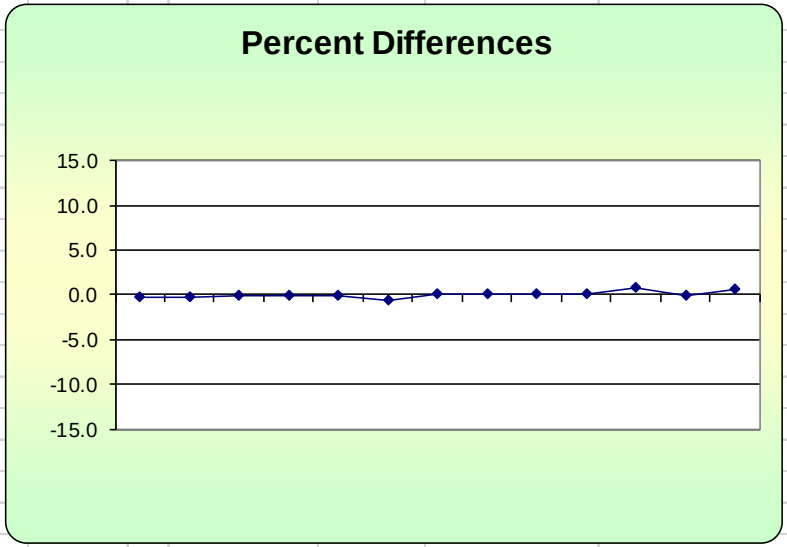
GP - Crossett, AR			Constituent type: H_2S					CV_{ub} (%)		Bias (%)	
Date	Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	25th Percentile	d^2	|d|	$\|d\|^2$				
4/19/2016 13:00	69.8	70.0	-0.3	-0.143	0.082	0.286	0.082				
4/20/2016 13:00	69.8	70.0	-0.3	75th Percentile	0.082	0.286	0.082	n	S_d	S_{d2}	$\sum\|d\|$
4/21/2016 13:00	69.9	70.0	-0.1	0.000	0.020	0.143	0.020	13	0.344	0.166	3.143
4/22/2016 13:00	69.9	70.0	-0.1		0.020	0.143	0.020	n-1	$\sum d$	$\sum d^2$	$\sum\|d\|^2$
4/23/2016 13:00	69.9	70.0	-0.1		0.020	0.143	0.020	12	-0.286	1.429	1.429
4/24/2016 13:00	69.6	70.0	-0.6		0.327	0.571	0.327				
4/25/2016 13:00	70.0	70.0	0.0		0.000	0.000	0.000				
4/26/2016 13:00	70.0	70.0	0.0		0.000	0.000	0.000				
4/27/2016 13:00	70.0	70.0	0.0		0.000	0.000	0.000				
4/29/2016 13:00	70.1	70.0	0.1		0.020	0.143	0.020				
4/30/2016 13:00	70.5	70.0	0.7		0.510	0.714	0.510				
5/1/2016 13:00	69.9	70.0	-0.1		0.020	0.143	0.020				
5/2/2016 13:00	70.4	70.0	0.6		0.327	0.571	0.327				

"AB" (Eqn 4)	"AS" (Eqn 5)
0.242	0.236

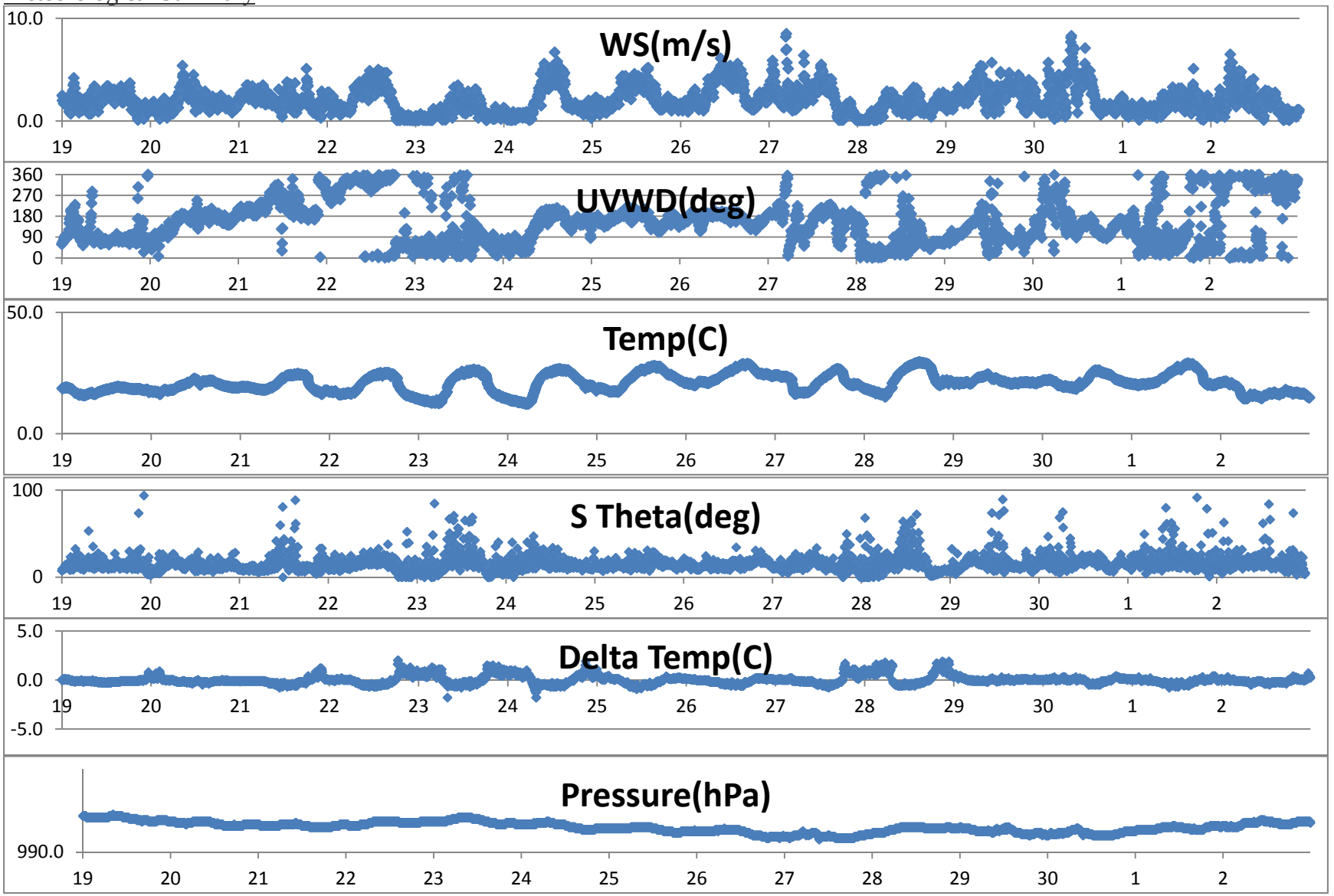
Bias (%) (Eqn 3)	Both Signs Positive
0.36	FALSE
Signed Bias (%)	Both Signs Negative
-0.36	TRUE

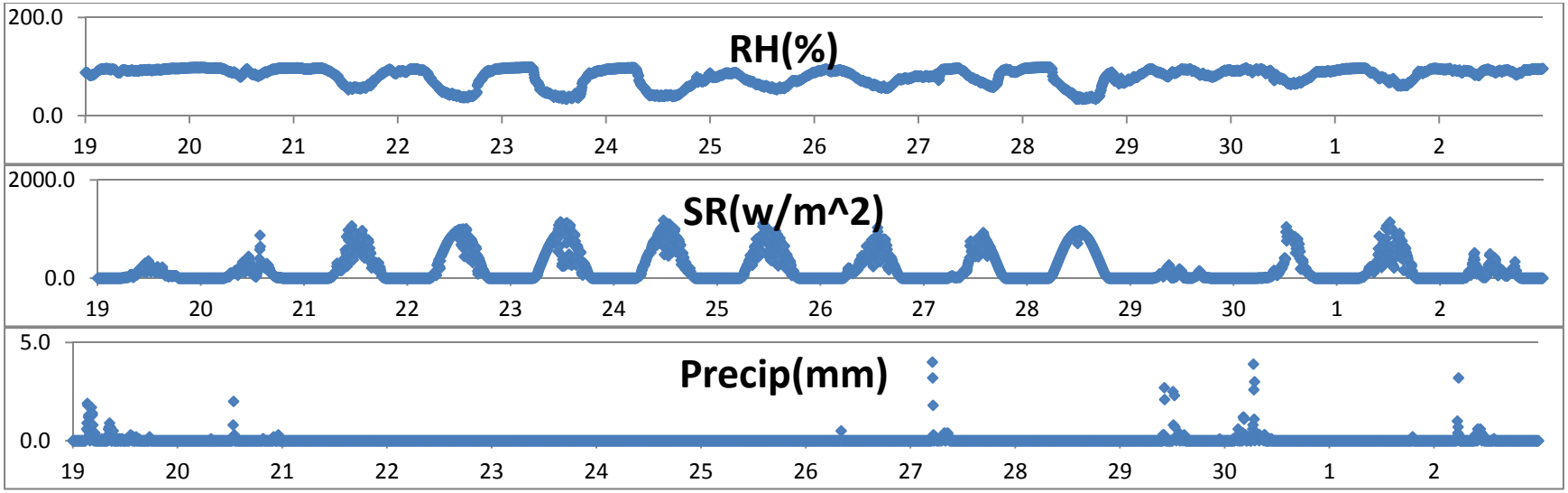
CV (%) (Eqn 2)
0.47

Upper Probability Limit	Lower Probability Limit
0.65	-0.7



Meteorological Summary




200.0
RH(%)
0.0
19 20 21 22 23 24 25 26 27 28 29 30 1 2
2000.0
SR(w/m^2)
0.0
19 20 21 22 23 24 25 26 27 28 29 30 1 2
5.0
Precip(mm)
0.0
19 20 21 22 23 24 25 26 27 28 29 30 1 2