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January 27, 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 December 30th through January 12th.

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.

Fourteen-day time series plots for all recorded meteorological (met) parameters are presented in the final table. A power surge at the meteorological site on December 26th disabled the data logger, resulting in an extended period of data loss. The data logger was reset on January 5th.

There was a single occurrence of data loss during this two week period, as well as those resulting from automated daily 1-point QC and weekly calibration checks. On January 1st the LAN connection was interrupted resulting in approximately 13 hours of data loss. Automated calibration checks were not performed on the 1st. 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.

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

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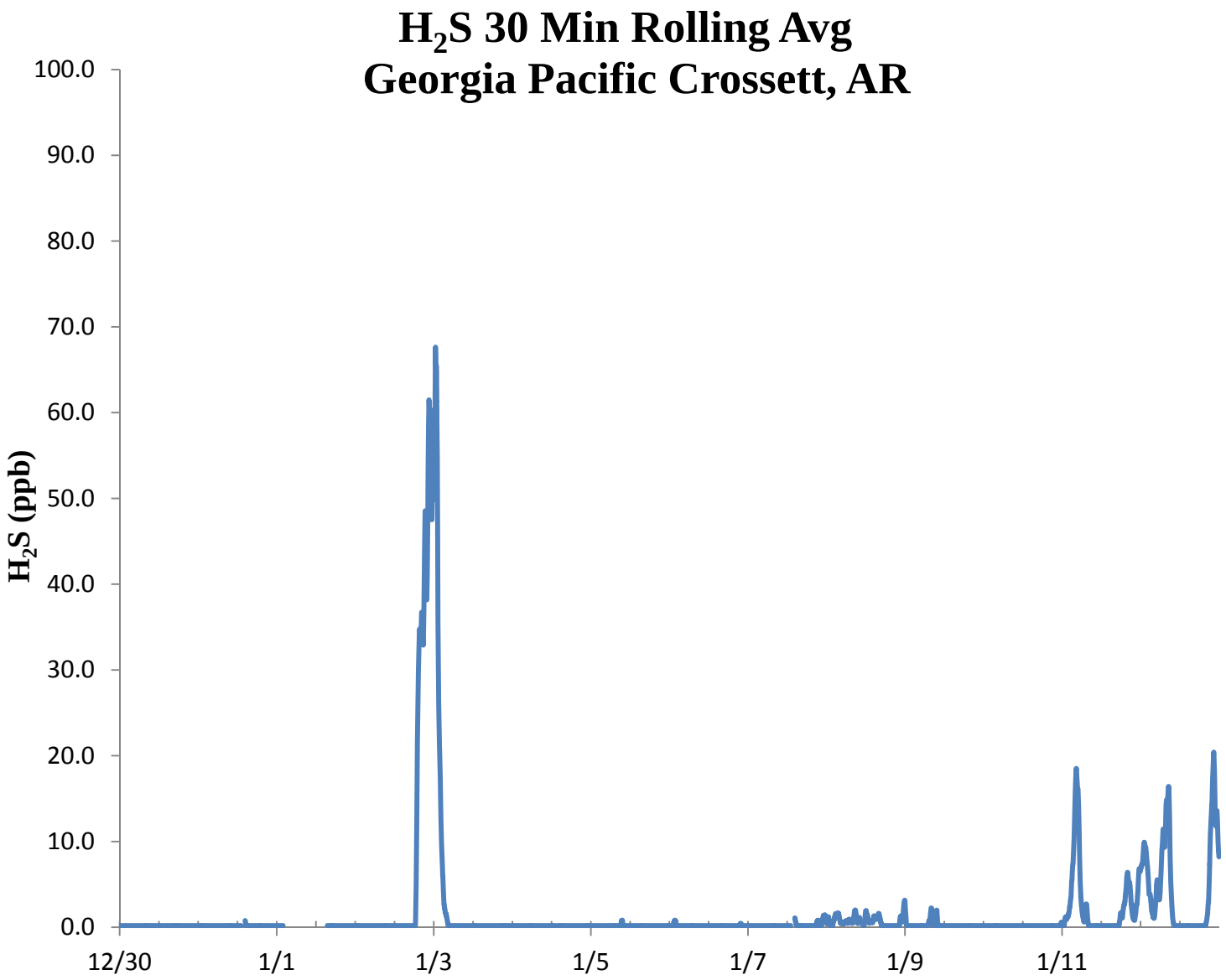
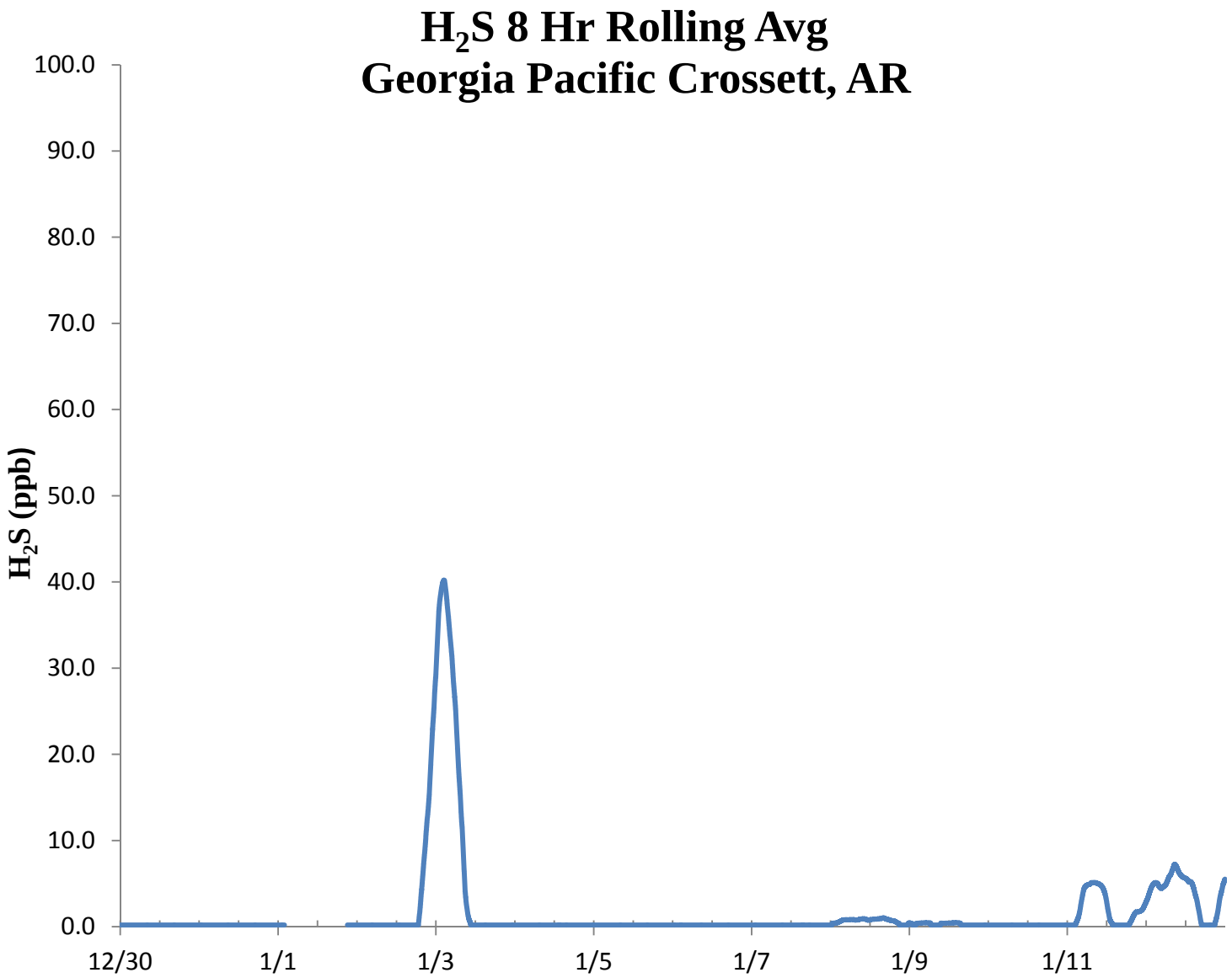
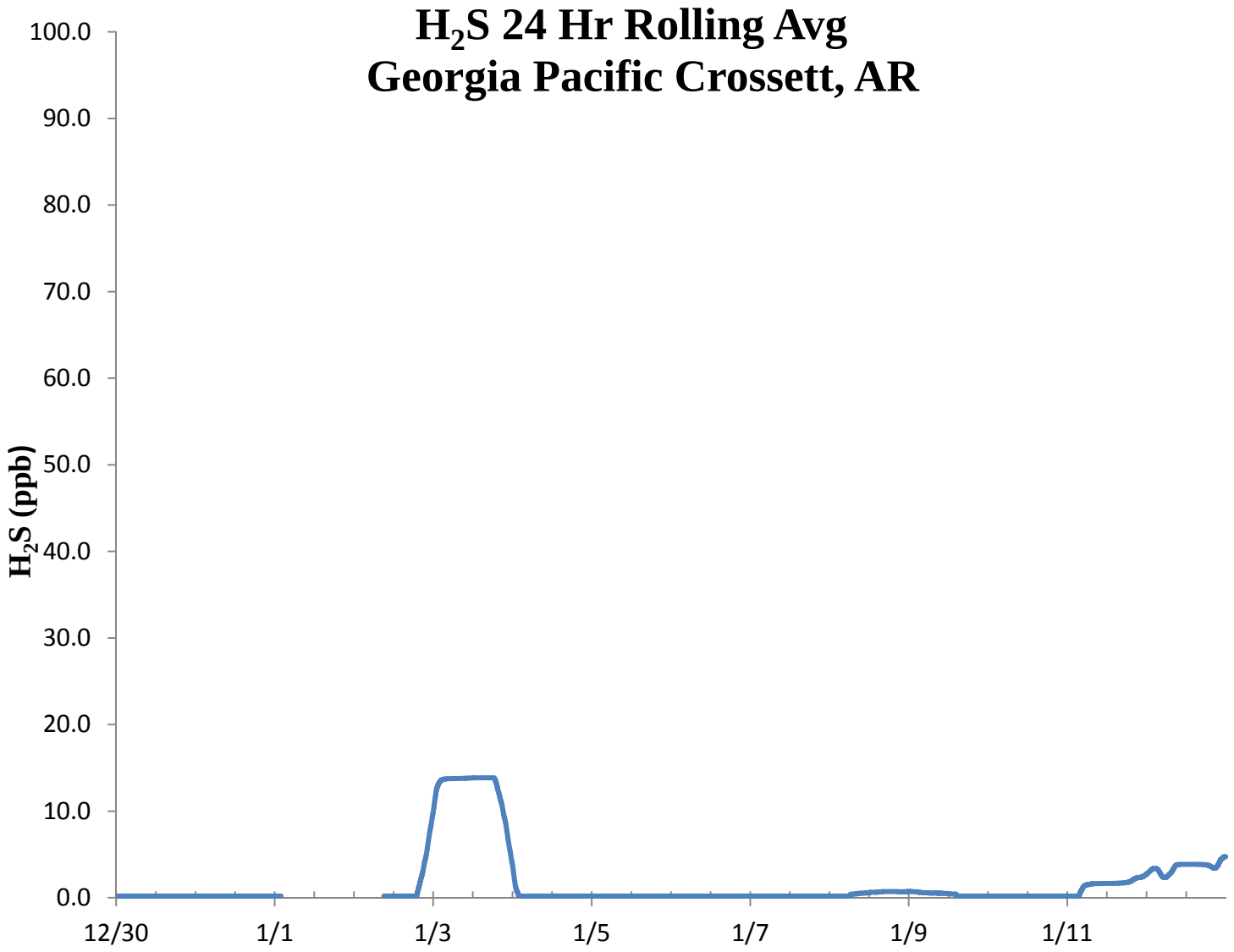
CC: Becky Keough, ADEQ Director via email: keogh@adeq.state.ar.us
Kara Allen, Environmental Engineer, USEPA Region 6 via email Allen.Kara@epa.gov


H2S 30 Min Rolling Avg
Georgia Pacific Crossett, AR
H2S (ppb)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
12/30
1/1
1/3
1/5
1/7
1/9
1/11


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
12/30
1/1
1/3
1/5
1/7
1/9
1/11


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
12/30
1/1
1/3
1/5
1/7
1/9
1/11

H_2S Assessment

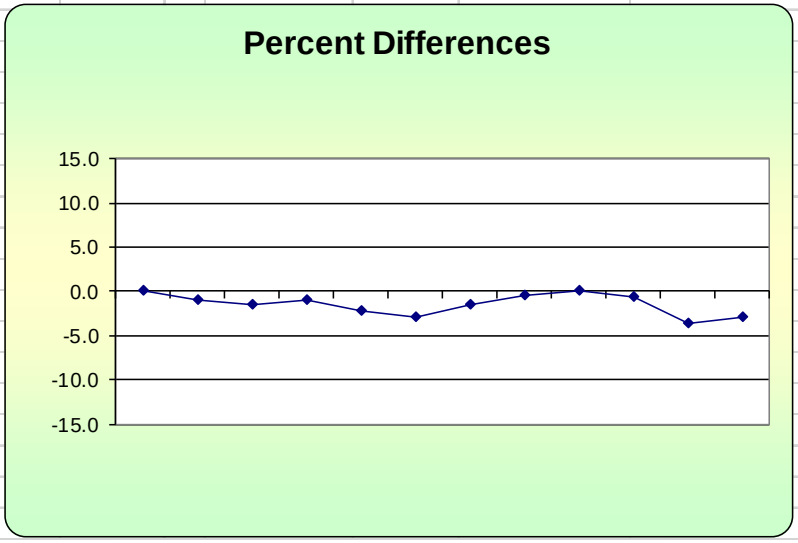
GP - Crossett, AR			Constituent type: H_2S					CV_{ub} (%)		Bias (%)	
Date	Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	25th Percentile	d^2	|d|	$\|d\|^2$				
12/30/2015 13:00	70.0	70.0	0.0	-2.676	0.000	0.000	0.000				
12/31/2015 13:00	69.3	70.0	-1.0	75th Percentile	1.000	1.000	1.000	n	S_d	S_{d2}	$\Sigma\|d\|$
1/2/2016 13:00	69.0	70.0	-1.4	-0.571	2.041	1.429	2.041	13	1.198	4.127	20.247
1/3/2016 13:00	69.3	70.0	-1.0		1.000	1.000	1.000	n-1	Σd	Σd^2	$\Sigma\|d\|^2$
1/4/2016 13:00	68.5	70.0	-2.1		4.592	2.143	4.592	12	-19.962	47.876	47.876
1/5/2016 13:00	68.0	70.0	-2.9		8.163	2.857	8.163				
1/6/2016 13:00	68.9	70.0	-1.6		2.469	1.571	2.469				
1/7/2016 13:00	69.7	70.0	-0.4		0.184	0.429	0.184				
1/8/2016 13:00	70.1	70.0	0.1		0.020	0.143	0.020				
1/9/2016 13:00	69.6	70.0	-0.6		0.327	0.571	0.327				
1/10/2016 13:00	67.5	70.0	-3.6		12.755	3.571	12.755				
1/11/2016 13:00	68.0	70.0	-2.9		8.163	2.857	8.163				
1/12/2016 13:00	69.1	71.0	-2.7		7.161	2.676	7.161				

"AB" (Eqn 4)
1.557
"AS" (Eqn 5)
1.167

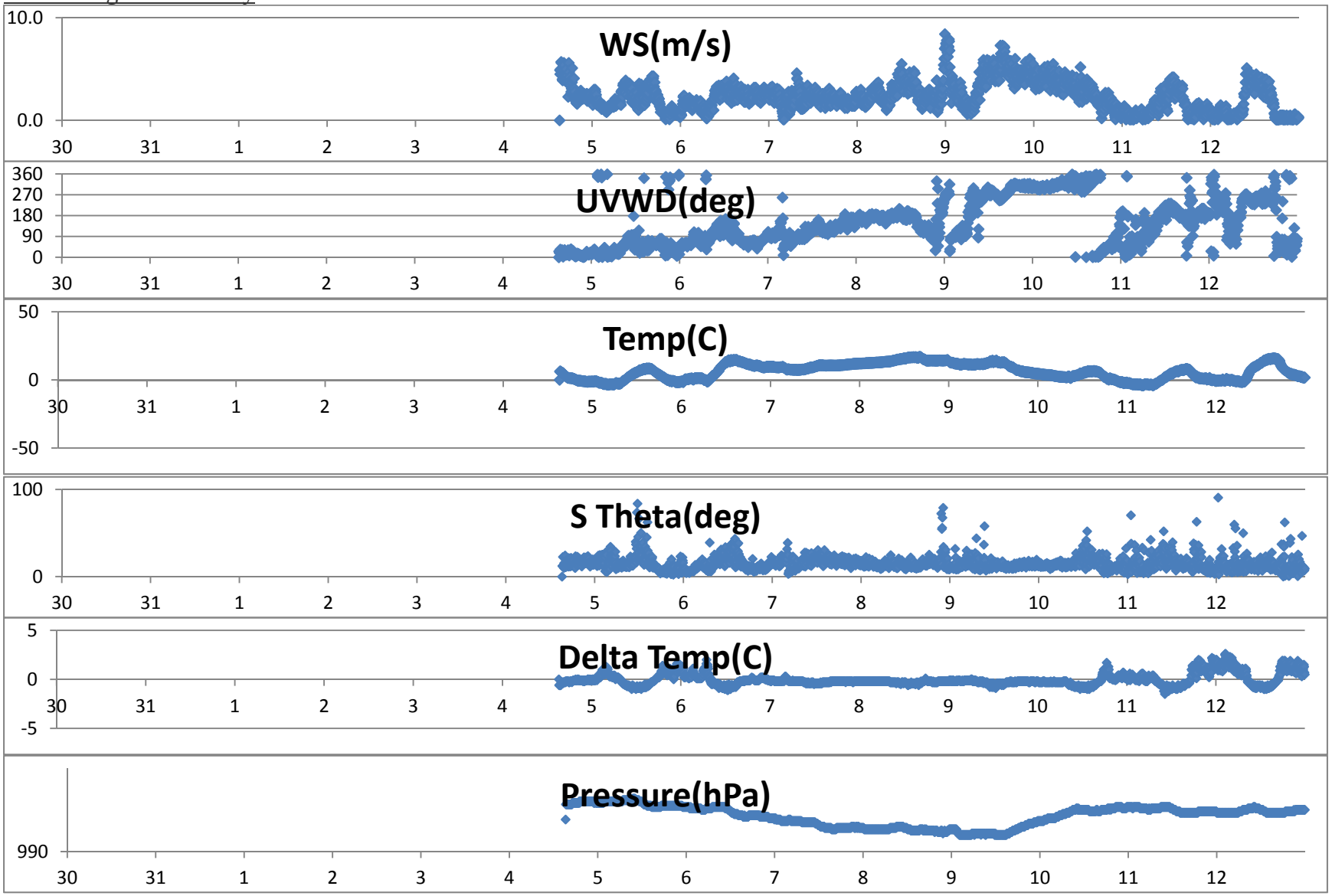
Bias (%) (Eqn 3)	
2.13	FALSE
Signed Bias (%)	Both Signs Negative
-2.13	TRUE

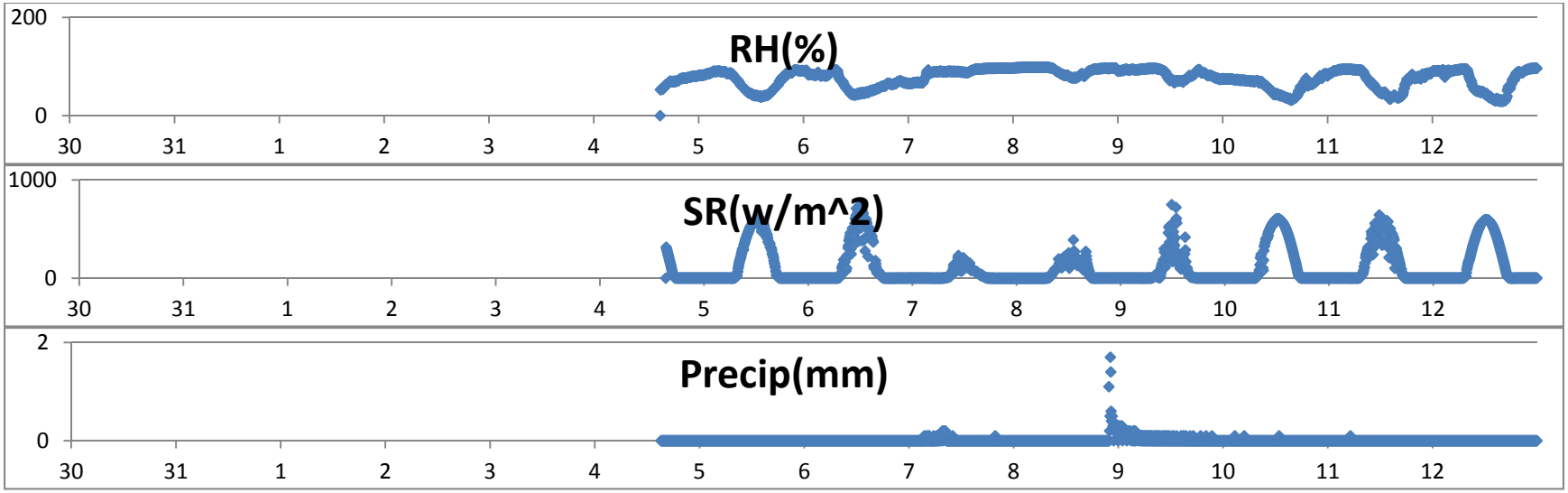
CV (%) (Eqn 2)
1.65

Upper Probability Limit	Lower Probability Limit
0.81	-3.88



Meteorological Summary




200
0
RH(%)
30 31 1 2 3 4 5 6 7 8 9 10 11 12
1000
0
SR(w/m^2)
30 31 1 2 3 4 5 6 7 8 9 10 11 12
2
0
Precip(mm)
30 31 1 2 3 4 5 6 7 8 9 10 11 12