

# FW: Info on met tower instruments

Rinker, Jennifer <Jennifer.Rinker@nrel.gov>

Sun 1/24/2016 12:57 PM

To: Jenni Rinker <jennifer.rinker@duke.edu>; jenni.m.rinker@gmail.com <jenni.m.rinker@gmail.com>;

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**From:** Zuo, Delong [mailto:delong.zuo@ttu.edu]  
**Sent:** Friday, December 18, 2015 11:19 AM  
**To:** Rinker, Jennifer  
**Subject:** RE: Info on met tower instruments

Jenni,

Here is the information you requested:

Sonic anemometer: Gill 3D Research Anemometer (<http://gillinstruments.com/products/anemometer/R3-50.htm> )  
UVW Anemometer: R M Young Company Model 27005 UVW ANEMOMETER  
(<http://www.ambientweather.com/rry27005.html> They don't make this model anymore.)  
Barometric Pressure: : R M Young Company Model 61002 Pressure Port  
(<http://www.youngusa.com/products/3/20.html> )  
RH-Temperature: R M Young Company Model 41382VC Relative Humidity & Temperature Probe  
(<http://www.youngusa.com/products/2/15.html> )

Let me know if you need more questions...

Delong Zuo  
Associate Professor  
National Wind Institute  
and  
Department of Civil, Environmental, and Construction Engineering  
Texas Tech University

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**From:** Rinker, Jennifer [mailto:Jennifer.Rinker@nrel.gov]  
**Sent:** Friday, December 18, 2015 11:11 AM  
**To:** Zuo, Delong <delong.zuo@ttu.edu>  
**Subject:** RE: Info on met tower instruments

Dear Dr. Zuo,

Thanks for the approximate GPS coordinates – that is perfect for me.

Is there any progress with getting the instrument list from the technician? I can also contact him directly if you would prefer (though I would need some contact information).

Cheers,

Jenni Rinker, Ph.D. candidate  
Mechanical Engineering & Materials Science  
Duke University, National Wind Technology Center  
<http://www.linkedin.com/in/jennirinker>

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**From:** Zuo, Delong [<mailto:delong.zuo@ttu.edu>]  
**Sent:** Monday, December 14, 2015 11:11 PM  
**To:** Rinker, Jennifer  
**Subject:** RE: Info on met tower instruments

Jenni,

I am glad that data processing is going well for you.

I don't know the exact coordinates for the tower. However, by navigating to the tower in Google Maps, I was able to obtain the approximate coordinates as "33.610601, -102.050568".

I don't know the exact models of the sensors that we have on the tower. I do know that the sonic anemometers are manufactured by Gill and the rest of the sensors are manufactured by RM Young. We used to use the RM Young 81000 sonic anemometers on the tower, we made the switch to the much better Gill sonic anemometers in late 2011. I will try to find this information for you from our technician.

Best regards

Delong Zuo  
Associate Professor  
National Wind Institute  
and  
Department of Civil, Environmental, and Construction Engineering  
Texas Tech University

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**From:** Rinker, Jennifer [<mailto:Jennifer.Rinker@nrel.gov>]  
**Sent:** Monday, December 14, 2015 5:21 PM  
**To:** Zuo, Delong <[delong.zuo@ttu.edu](mailto:delong.zuo@ttu.edu)>  
**Subject:** Info on met tower instruments

Dear Professor Zuo,

Things are going well with my custom processing of the met tower data! I have a few more questions:

- Do you know the GPS coordinates for the met tower?
- Are there a list of instruments that are on the tower? (I.e., manufacturer and model numbers)

I found some pictures of one of the tower booms in a paper, so I think I know the sonic and propeller anemometer instrument models (RM Young 8100 and RM Young 200-27005, respectively), but it would be great to have a list of all of the instruments.

If you know of any papers that have a detailed description of the tower instrumentation, please feel free to direct me to them instead of answering these questions yourself. I have tried to find documentation on the tower specs

1/25/2016

FW: Info on met tower instruments - Jenni Rinker

without luck.

Cheers,

Jenni Rinker, Ph.D. candidate  
Mechanical Engineering & Materials Science  
Duke University, National Wind Technology Center  
<http://www.linkedin.com/in/jennirinker>