

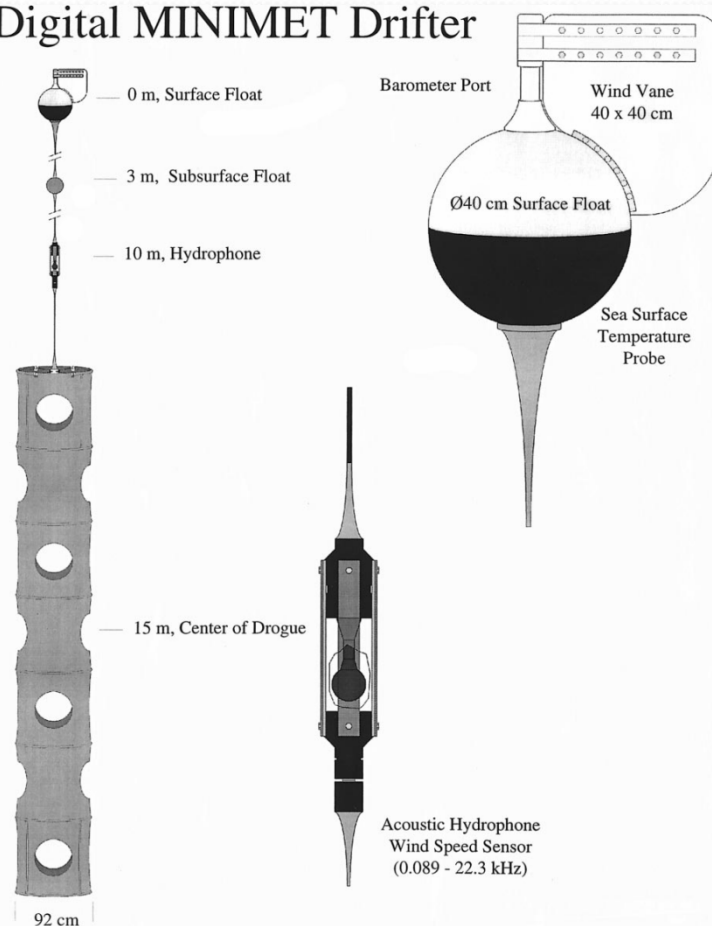
Prototype Sonic Minimet Drifter

Andy Sybrandy, Pacific Gyre Inc., Oceanside CA

Digital Minimet Drifter



Digital MINIMET Drifter





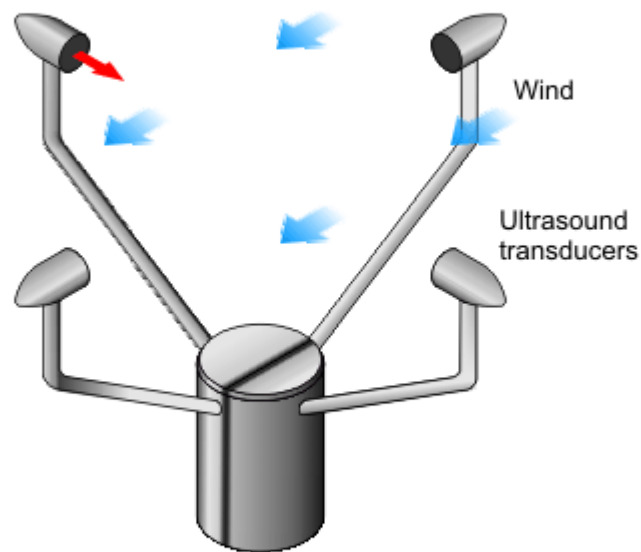
History

- Built and deployed since 1995 in Labrador Sea
- Minimets deployed every year since, except 2006
- 20/year
 - 12 Minimet
 - 8 Minimet w/ T-chain
- Wind direction is accurate
- Wind speed is accurate **except during high winds**

What??

Sonic Anemometer

In no wind, or cross wind, the ultrasonic pulse moves at the same speed in each direction



Sonic Anemometer



- Higher wind speed measurements
- New technology
- Newer designs
- Price
- No moving parts





Possible Problems

- Drifter submergence
- Mounting the sensor on the float
- Sensors rugged?

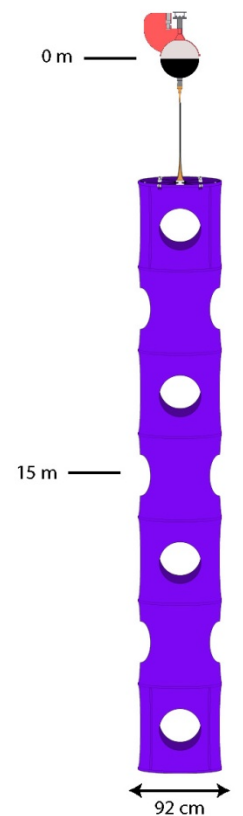
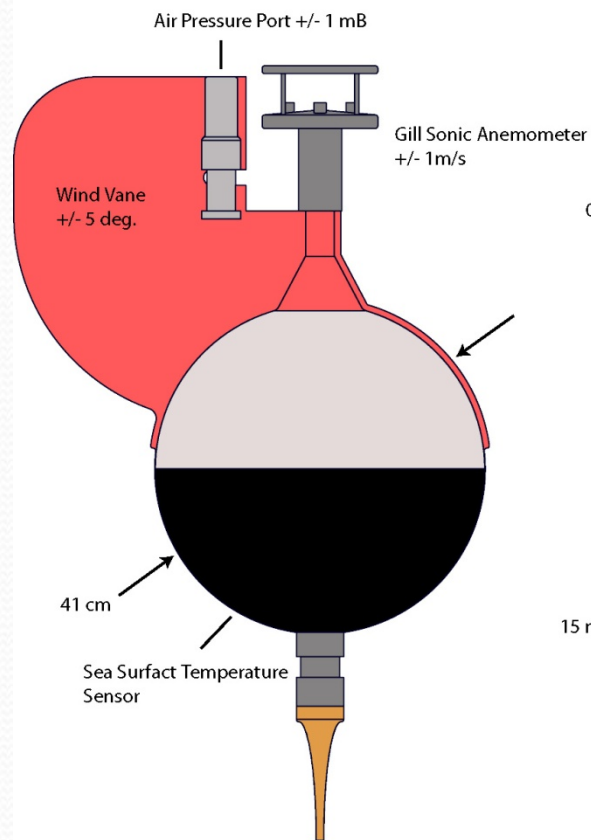
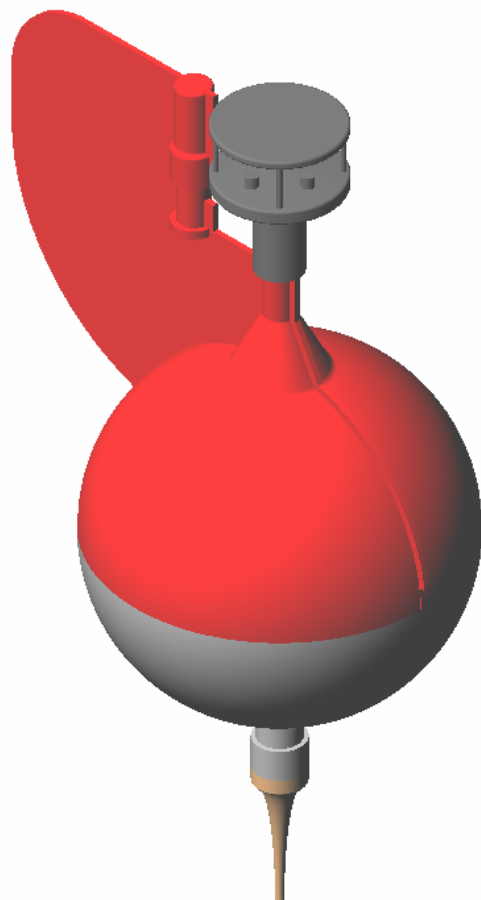
Gill Windsonic Anemometer



- Range 0 – 60 m/s
- Accuracy +/- 2%
- Resolution 0.01 m/s

SVP Sonic Minimet Drifter

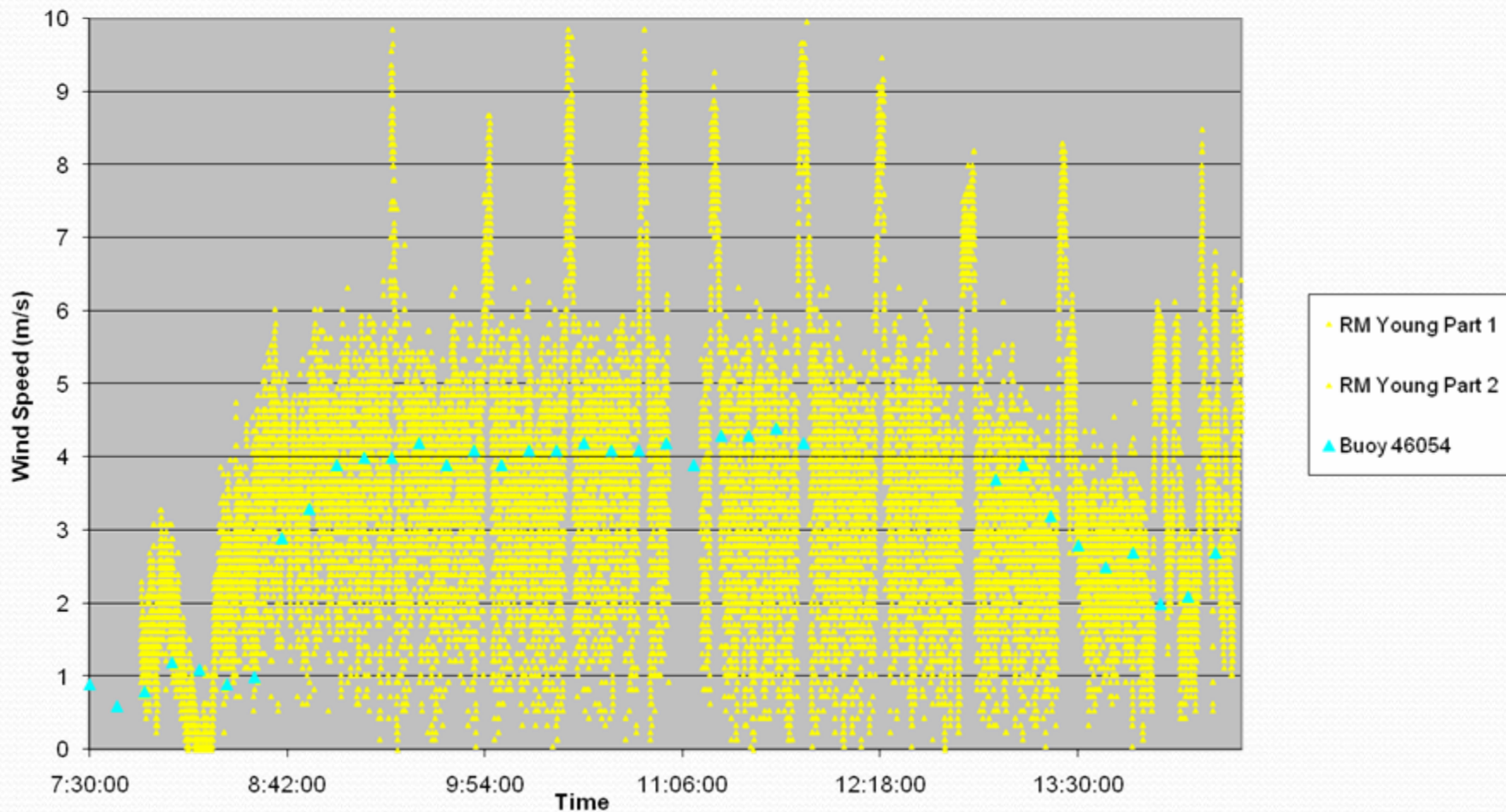
Sonic Minimet Drifter



WindSonic Minimet Test West Santa Barbara Channel Mooring 20080813

Wind Speed

Note 2: Spikes in RM Young data occur when ship moved

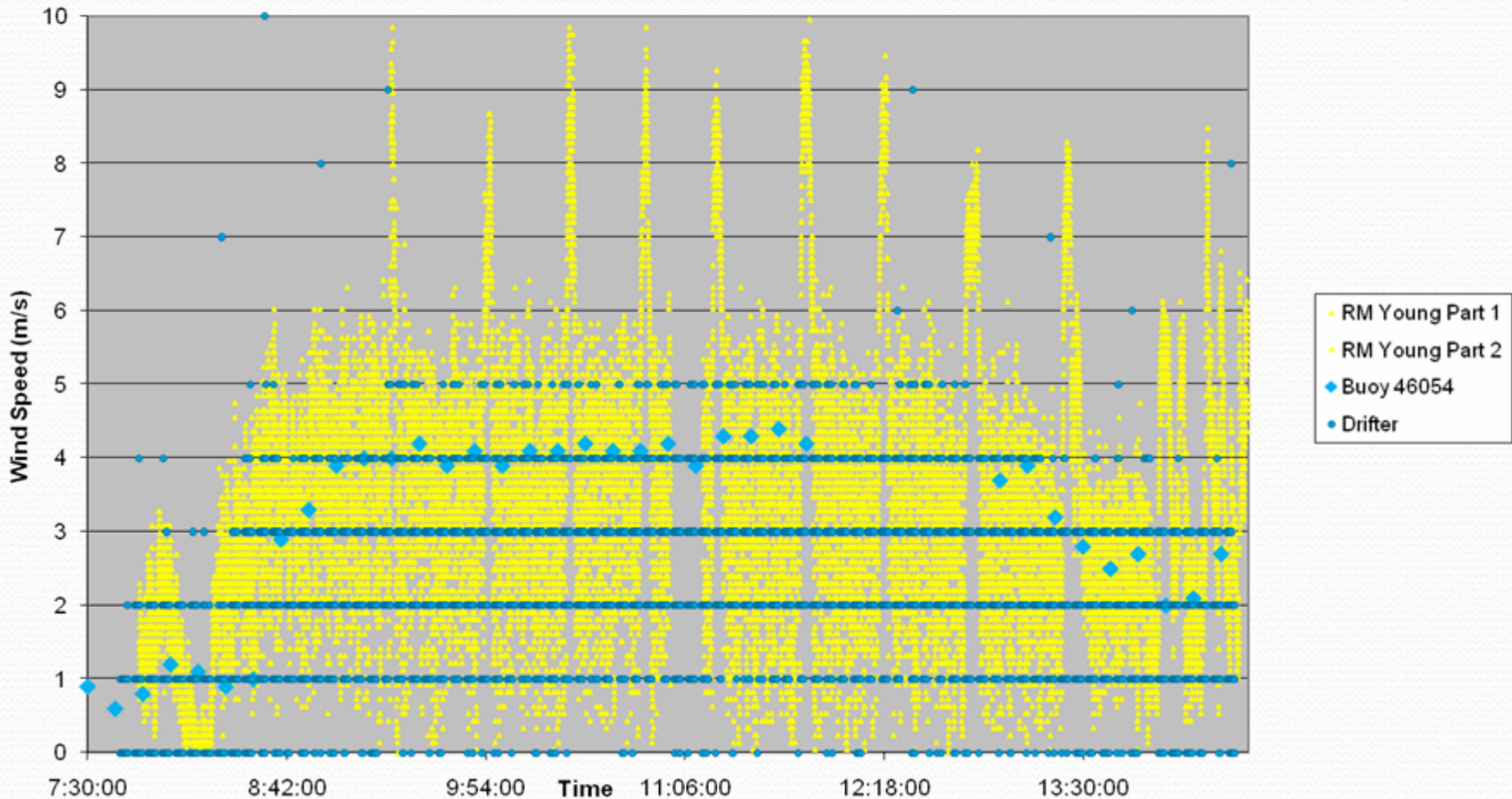


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Wind Speed

Note 1: Drifters tilted significantly causing low readings

Note 2: Spikes in RM Young data occur when ship moved



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