Quality Control –

*A New Spike and Step Detection Technique for Automated Surface Weather Observations on Ships*

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“A new technique is presented to identify and flag spikes, steps, and statistically suspect values in high-temporal resolution automated weather observations.”

“The new technique focuses on the detection of spikes and steps primarily because they tend to be systematic and their existence can be identified using a statistical approach. Once this technique is applied, the data quality evaluator (DQE) can focus their valuable man-hours on identifying conditions that caused these spikes and steps, as well as more subtle systematic errors.”