



# Meteorological Measurements and Instrumentation (Advancing Weather and Climate Science)

*By Giles Harrison*

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This book describes the fundamental scientific principles underlying high quality instrumentation used for environmental measurements. It discusses a wide range of in situ sensors employed in practical environmental monitoring and, in particular, those used in surface based measurement systems. It also considers the use of weather balloons to provide a wealth of upper atmosphere data. To illustrate the technologies in use it includes many examples of real atmospheric measurements in typical and unusual circumstances, with a discussion of the electronic signal conditioning, data acquisition considerations and data processing principles necessary for reliable measurements. This also allows the long history of atmospheric measurements to be placed in the context of the requirements of modern climate science, by building the physical science appreciation of the instrumental record and looking forward to new and emerging sensor and recording technologies.

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### **Editorial Review**

#### Review

"“Thorough” is an apt description for the content of this book. A specialist book on Meteorological Measurements is long overdue, and this book is welcome. If a book was destined for sensor system designers it would need to be a thick volume, but for meteorologists needing to have a less detailed description of instruments it is ideal....all scientists/engineers need to be conversant with sensor systems, albeit at a high level (ie. to know how a system works, not necessarily to design it!). So, this book is “pitched” at just the right level." *Weather*, Royal Meteorological Society, April 2015

#### From the Back Cover

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#### About the Author

**Giles Harrison** is Professor of Atmospheric Physics at the Department of Meteorology at the University of Reading, UK. His research focusses on one of the oldest experimental topics in meteorology, atmospheric electricity, and the development of new surface and balloon-carried instruments for environmental measurements.

### **Users Review**

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#### **Kevin Buckley:**

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