

Monitoring Atmospheric Water Vapour

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Atmospheric water plays a key role in climate. Water vapour is the most important greenhouse gas and its condensed forms exert a profound influence on both incoming solar and outgoing infrared radiation. Unfortunately, accurate, height-resolved global-scale measurements of atmospheric humidity are difficult to obtain. The change in concentration of five orders of magnitude from the ground to the stratosphere means there is no standard instrument that will measure everywhere. This has led to different measuring techniques, all with strengths and weaknesses. This book assesses all presently available techniques that are used in monitoring networks. Special weight is given to presenting the different technical concepts, the accuracy of different sensor types, addresses calibration issues and retrieval aspects. EAN/ISBN : 9781461439097 Publisher(s): Springer, Berlin, Springer, New York Discussed keywords: Klimatologie, Klimawandel, Wasserdampf Format: ePub/PDF Author(s): Kmpfer, Niklaus

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