TABLE OF CONTENTS

IMPRESSUM

ACKNOWLEDGEMENTS

WELCOME ADDRESS Peter Steinhauser, ZAMG, Austria

OPENING ADDRESS

THE ROLE OF AUTOMATIC OBSERVATION SYSTEMS IN FUTURE DEVELOPMENTS WITHIN WMO PROGRAMMES Peter Scholefield, WMO, Switzerland

STATUS REPORT

REQUIREMENTS OF DATA FROM AUTOMATIC WEATHER STATIONS
Ernest Rudel, Austria

SESSION 1

Experiences with Data of AWS in Comparison with Conventional Meteorological Stations

(in alphabetical order)

AUTOMATIC WEATHER STATIONS IN ICELAND Pordur Arason, Iceland

AWS DATA - NEW INPUT TO AIR QUALITY MODEL
Kathrin Baumann, Ulrike Pechinger, Matthias Langer, Erwin Polreich, Austria

COMPARISON OF DATA GENERATED BY AUTOMATIC VS. A TRADITIONAL WEATHER STATIONS Vilma Castro, Costa Rica

EXPERIENCES WITH AWS IN THE CZECH REPUBLIC
V. Chalupský, L. Coufal, Czech Republic

RADOME: THE MÉTÉO-FRANCE SURFACE OBSERVING NETWORK
Pierre Gregoire, France

PRELIMINARY ASSESSMENT OF THE SPECIFICATIONS FOR FUTURE AUTOMATIC WEATHER STATIONS L. De Leonibus, U. Vecchi, P. Pagano, Italy

CLIMATE CONTINUITY OF WIND SPEED WITH ASOS Thomas J. Lockhart, U.S.A.

AUTOMATION OF PRECIPITATION MEASUREMENT IN COLD CLIMATES
P. Y. T. Louie, J. R. Metcalfe, B. E. Goodison, and B. E. Sheppard, Canada

LONG-TERM COMPARISON OF AUTOMATIC WEATHER STATION (AWS) AND CLIMATOLOGICAL DATA B. Gajar, D. Kubjatková, M. Ondráš, I. Zahumenský, Slovakia

SET-UP AND REAL TIME QUALITY CONTROL OF DATA FROM THE AUTOMATIC HYDROMETEOROLOGICAL NETWORK IN THE BASQUE COUNTRY
M. Navazo, M. Maruri, J.A. Aranda, X. Gezuraga, J.A. García, G. Pérez, y L. Alonso, Spain

SESSION 1 (continued)

METEOROLOGICAL DATA FROM THE PORTUGUESE AUTOMATIC STATION NETWORK
Luis Filipe A. C. Nunes, Renato A. C. Carvalho, Portugal

AWS - DATA MANAGEMENT AND QUALITY CONTROL
M. Ondráš, I. Zahumenský, Slovakia

THE IMPLEMENTATION OF THE DCP NETWORK AT THE ITALIAN METEOROLOGICAL SERVICE P. Pagano, F. Avenali, L. De Leonibus, Italy

CORRECTING RADIATION BALANCE DATA OBSERVED BY A MOBILE WEATHER STATION Erwin Petz, Martin Piringer Austria

AUTOMATIC WEATHER STATIONS IN AUSTRALIA: A CLIMATE PERSPECTIVE
Neil Plummer, Australia

PORTUGUESE URBAN AUTOMATIC METEOROLOGICAL STATIONS NETWORK
V. Prior, R. Carvalho, Portugal

USE OF AWS DATA IN CLIMATOLOGY - EXPERIENCES AND PERSPECTIVES AT DWD
Reinhard Spengler, Germany

COMPARISON OF PRECIPITATION TOTALS MEASURED BY AWS AND CONVENTIONAL RAINGAUGE IN THE WARM HALF-YEAR P. Stastny, M. Tekusova, D. Bjel, Slovakia

ICING OF SENSORS Bengt Tammelin, Finland

COMBINED AUTOMATIC MEASURING NETWORK FOR METEOROLOGY, HYDROLOGY AND ENVIRONMENTAL PROTECTION IN SLOVENIA
M. Tomazic Spiller, S. Zlebir, Slovenia

EXPERIENCE AND DATA PROCESSING OF FD12P AND CT25K AT SHMI
B. Gajar, M. Ondráš, I. Zahumenský, Slovakia

SESSION 2

Homogeneity in Time Series of Different Parameters when Changing the Meteorological Network to Autostations

(in alphabetical order)

DANGERS AND ADVANTAGES OF AUTOMATISATION CONCERNING HOMOGENEITY OF LONG-TERM TIME SERIES Reinhard Böhm, Austria

HOMOGENEITY OF AUSTRIAN SUNSHINE DURATION DATA SETS
W. Schöner, H. Mohnl, Austria

THE DATA INHOMOGENEITY PROBLEM AS ALTERNATIVE SEARCH TO RANDOMNESS
Raymond Sneyers, Belgium

SESSION 3

Present Weather Sensors and Manual Observations

(in alphabetical order)

EVALUATION OF SOLFEGE PRESENT WEATHER SYSTEM CAPABILITIES
J. L. Gaumet, F. Zanghi, France

ASOS BLOWING SNOW ALGORITHM Richard N. Parry, M. Douglas Gifford, U.S.A.

QUANTITATIVE ICE ACCRETION CAPABILITIES OF THE AUTOMATED SURFACE OBSERVING SYSTEM Allan C. Ramsay, U.S.A.

A MULTI-SENSOR FREEZING DRIZZLE ALGORITHM FOR THE AUTOMATED SURFACE OBSERVING SYSTEM Allan C. Ramsay, U.S.A.

CAPABILITIES OF THE ASOS IN DETERMINING PRESENT WEATHER AND VISUAL OBSERVATIONS M. Douglas Gifford, U.S.A.

FIELD EVALUATION OF A SINGLE-SITE LIGHTNING SENSOR ON THE AUTOMATED SURFACE OBSERVING SYSTEM Allan C. Ramsay and William Whisel, U.S.A.

SESSION 4

Criteria for the Quality Control and Management of Data of AWS

(in alphabetical order)

PHOTODIODE PYRANOMETERS IN CLIMATOLOGICAL MEASUREMENTS
Vilma Castro, Costa Rica

CLIMATOLOGICAL HUMIDITY MEASUREMENTS IN THE TROPICS USING LOW COST DRY-WET THERMISTORS Vilma Castro, Costa Rica

EFFORTS TO ESTABLISH STANDARDS FOR SURFACE MESONETS OBSERVATIONS IN SPAIN A. Ezcurra, A. Guerra, C Almarza, J. A. Aranda, A. Riuss, J. Cunillera, M. Donezar, E. Roca, Spain

QUALITY CONTROL ALGORITHMS USED IN THE AUTOMATED SURFACE OBSERVING SYSTEM M. Douglas Gifford, Richard N. Parry; U.S.A.

QUALITY OBJECTIVES FOR RADOME Michel Leroy, France

QUALITY CONTROL AND DATA MANAGEMENT AT THE AUSTRIAN DEPARTMENT FOR CLIMATOLOGY Wolfgang Lipa, Austria

AWS MEASUREMENT IN THE EXTREMAL CLIMATIC CONDITIONS OF THE HIGH SUDETES, POLAND Krzysztof Migala, Mariusz Szymanowski, Poland

VAISALA WIND SENSOR TESTING P. Nejedlik, S. Handzak, P. Stastny, Slovakia

APPLICATION OF TAWES DATA FOR EMERGENCY RESPONSE MODELLING
U. Pechinger, M. Langer, K. Baumann, Austria

DATA CONTROL AND VISUALISATION WITH A DESKTOP GIS Roland Potzmann, Austria