

# **Data Protocol**

## **for the**

### **Aqua Validation and Instrument Tests (AquaVIT)**

AquaVIT is a multi-instrument intercomparison of water-vapor measurements at the AIDA chamber at Forschungszentrum-Karlsruhe, in which scientists from the U.S. and Europe participate on a voluntary basis.

This data protocol regulates data delivery, data exchange, publication of the results and the interaction between participants, and addresses issues such as rights for internal and external use of data, guidelines for standard data formats and the settlement of disputes. The aims of the AquaVIT protocol are:

1. to encourage rapid assessment and use of the results from AquaVIT
2. to uphold the rights of the individual scientists; and
3. to have all involved researchers treated equitably.

To meet these aims, all AquaVIT scientists (Principal Investigators and co-investigators) must sign the data protocol indicating that they will abide by the following conditions. The main AquaVIT database will be held at Jülich.

#### **General**

1. A registry of the AquaVIT scientists will be kept on the AquaVIT Wiki web site <https://aquavit.icg.kfa-juelich.de/AquaVit/>. AquaVIT scientists will formally get access to data from the AquaVIT project when they have signed the AquaVIT data protocol.
2. All scientists involved in AquaVIT are to have equal and complete access to measurement results produced within AquaVIT after data are submitted and any blind intercomparisons have been completed.
3. Users of AquaVIT datasets must not redistribute these data to groups or investigators who have not signed the data protocol.
4. Data users who find irregular features in the data or suspect errors must inform the data provider immediately. The data provider has the responsibility of informing the AquaVIT investigator group of any problems.

#### **Measurements**

1. Preliminary data obtained within AquaVIT must be made available to the referees as soon as possible, and no later than agreed upon by the organisers, referees and investigator group.
2. Any corrections/amendments to the preliminary data should be made as soon as possible by the Principal Investigator.
3. It is the Principal Investigator's responsibility to ensure that the data used in publications are the best available at that time.

#### **Documentation of Data Sets**

All data sets should be documented and formatted according to the standard NASA-Ames data format.

#### **Publication**

1. Publication of results in the scientific literature is encouraged at any time after AquaVIT, as long as conditions 2–4 below are met.

2. If results from other research groups within AquaVIT are used in a publication, joint authorship must be offered. This implies that the lead author should inform the data provider about planned publications in due time before submission.
3. Each Principal Investigator has the right to refuse to allow his/her results to be used in another publication prior to his/her publication of that work.
4. It is the responsibility of the lead author on all publication to have the explicit agreement of all co-authors and other data contributors prior to submission.

## Public Release

Presentations in public meetings and press releases are subject to approval by the co-authors.

## Associate scientists and collaborations

1. Individual scientists wishing to collaborate with AquaVIT investigators will provide a short written description of what they wish to do. These requests will be considered by the organisers, referees and participant group.
2. Collaborations between AquaVIT investigators and other projects are strongly encouraged so long as the protocol provisions are followed.

## Settlement of Internal Disputes

Any disputes about the use of other groups' data, particularly with respect to publications, will be resolved by the AquaVIT referees and organisers.

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The undersigned agrees to the conditions of this data protocol.

Signature:.....

Date: .....

Name:.....

Position (PI, Post-doc, student, etc.): .....

Address:.....

.....

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E-mail: .....

*Please sign and return to:* Rita Roselieb, [rita.roselieb@imk.fzk.de](mailto:rita.roselieb@imk.fzk.de), fax: +49-7247-824332

*Send copy to:* Reimar Bauer, [r.bauer@fz-juelich.de](mailto:r.bauer@fz-juelich.de), fax: +49-2461-615346

## **Appendix**

### **Participating Institutes (PIs)**

Central Aerological Observatory, Dolgoprudny, Russia (Sergey Khaykin)  
ETH Zürich, Switzerland (Frank Wienhold)  
Forschungszentrum Jülich, Germany (Theo Brauers, Martina Krämer, Cornelius Schiller)  
Forschungszentrum Karlsruhe, Germany (Harald Saathoff, Andreas Zahn)  
Harvard University, Cambridge, USA (Elliot Weinstock)  
Jet Propulsion Laboratory, Pasadena, USA (Bob Herman)  
NCAR Boulder, USA (Teresa Campos)  
Southwest Science, Inc., USA (Marc Zondlo)  
UK Met Office, UK (Debbie O’Sullivan)  
University of Colorado, USA (Linnea Avallone, Holger Vömel)  
University of Frankfurt, Germany (Ulrich Bundke)  
University of Heidelberg, Germany (Volker Ebert)  
University of Reims, France (George Durry)  
University of Szeged, Hilase Ltd., Hungary (Attila Varga)

### **Referees**

David Fahey, NOAA Boulder, USA  
Rushan Gao, NOAA Boulder, USA  
Ottmar Möhler, Forschungszentrum Karlsruhe, Germany

### **Organisers**

Harald Saathoff, Forschungszentrum Karlsruhe, Germany  
Cornelius Schiller, Forschungszentrum Jülich, Germany  
Volker Ebert, University Heidelberg, Germany  
(Thomas Peter, ETH Zürich, Switzerland)  
(Martina Krämer, Forschungszentrum Jülich, Germany)