

Technical Training
Installation, Operation and Maintenance of
CAWa HyMet Hydrometeorological Monitoring Stations
Preliminary Programme and Schedule

1 Venue & Date

Venue: Helmholtz Centre Potsdam, German Research Centre for Geosciences GFZ, Germany

Date: 5th – 19th December 2011

Language: All lectures are given in English. The course materials will be provided in English.

Training Course Lecturers:

- Dr. Tilo Schöne, GFZ Section 1.2, Global Geomonitoring and Gravity Field
- Torsten Queisser, GFZ Section 1.2, Global Geomonitoring and Gravity Field
- Cornelia Zech, GFZ Section 1.2, Global Geomonitoring and Gravity Field
- Heiko Thoss, GFZ Section 5.4, Hydrology
- Dr. Valeri Rudenko, GFZ Centre for Geoinformation Technology - CeGIT

Organisers

Helmholtz Centre Potsdam
GFZ German Research Centre for Geosciences
Telegrafenberg
14473 Potsdam, Germany

in association with:

CAIAG Central Asian Institute for Applied
Geosciences
Timur Frunze rd. 32/2
720027 Bishkek, Kyrgyzstan



Information:

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2 Course Programme

Hydrometeorological Monitoring Network and Geodata Bases	
Monday, 5th December 2011	
09.00 – 09.30	Welcome by representatives of GFZ and the CAWA Project
09.30 – 10.30	Course programme presentation and introduction
10.30 – 12.00	HyMet station concept
12.00 – 13.30	<i>Lunch</i>
13.30 – 17.00	Technical components: Introduction <ul style="list-style-type: none"> • Working principle (sensors/system) • Mechanical installation (arrangement, required space) • Mechanical preparations
19.00	<i>Welcome Dinner</i>
Tuesday, 6th December 2011	
09.00 – 12.00	Technical components (Part II) <ul style="list-style-type: none"> • Technical installation (wiring, connection, datalogger)
12.00 – 13.30	<i>Lunch</i>
13.30 – 17.00	Technical components (Part III) <ul style="list-style-type: none"> • PC, configuration, system start-up • Technical tests, maintenance, troubleshooting
Wednesday, 7th December 2011	
09.00 – 12.00	Technical components (Part IV) <ul style="list-style-type: none"> • River discharge system • Installation (mechanical/technical)
12.00 – 13.30	<i>Lunch</i>
13.30 – 17.00	Data transfer/satellite communication (Part I) <ul style="list-style-type: none"> • System overview • Technical installation
Thursday, 8th December 2011	
09.00 – 12.00	Satellite communication (Part II) <ul style="list-style-type: none"> • Installation (iSite software tool) • Maintenance, troubleshoot
12.00 – 13.30	<i>Lunch</i>
13.30 – 17.00	System Operation, Processing and Archiving Facility (SOPAF)
Friday, 9th December 2011	
09.00 – 11.00	Summary and conclusions
11.00 – 13.00	Feedback & Farewell
~ 13.00	End

Course characteristics:

The technical training will be hold in full-day lessons for 4.5 days. The focus will be on the practical demonstration of systems, software and sensors by the lecturer and the application and implementation of the learned concepts by the participants. This course and hands-on trainings shall enable participants to install a hydrometeorological monitoring station.

3 Participants and Funding

Target group are technicians from the hydrometeorological services and universities in Afghanistan and Tajikistan. Participants are expected to have basic technical skills and preferably first experience with the installation of field stations, communication systems and/or data management.

The CAWA project provides funding for travel and accommodation expenses for up to two participants from each invited organization.

4 Application

Potential participants are expected to fill in the application form and submit it to the CAWA course coordination.

Deadlines

Submission of application form	15 th October 2011
Notification of acceptance	24 th October 2011
Issue of invitations for visa application	25 th October 2011

Technical Training

Installation, Operation and Maintenance of Hydrometeorological Monitoring Stations

Date: 5th – 9th December 2011

Venue: GFZ German Research Centre for Geosciences, Potsdam, Germany

Application Form

Title	
Surname	
Given Names	
Citizenship	
Organisation	
Position	
Address	
City	
ZIP Code/Postal Code	
Country	
Telephone/Fax	
Email:	
Do you need visa support for Germany?	Yes / No
If so, please fill in the data needed for the visa application:	
Passport number	
Passport valid until	
Passport issued (date and place)	
Day and place of birth	
Comments	

Please return this application form not later than 15th October 2011 to:

GFZ German Research Centre for Geosciences

CAWA course coordination

Fax +49 (331) 288-1570

Email: duckert@gfz-potsdam.de

Questionnaire on previous experiences

To support the training preparations, please provide details on your education and previous experiences in related fields:

What is your professional background?

(e.g., mechanic, electrician, engineer for construction, hydrologist, programmer, or else)

What is the focus of your daily tasks in your organisation?

(e.g., station operation, information technology and communication systems, data management, etc.)

Which previous experience do you have in the fields of the planned training?

a) Hydrometeorological monitoring

b) Communication services

c) Data management

d) Data processing

English skills

(if possible, refer to CEFR scale,

http://en.wikipedia.org/wiki/Common_European_Framework_of_Reference_for_Languages)

Listening:

Speaking:

Reading: