

Technical Training
Operation and Maintenance of
CAWa HyMet Hydrometeorological Monitoring Stations
Dedicated to the International Mountain Day
under the United Nations
Preliminary Programme and Schedule

1 Venue & Date

Venue: CAIAG, Bishkek (Kyrgyzstan)

Conference –hall – 3rd floor

Date: 8th – 12th December 2014

Language: All lectures are given in Russian language or English with Russian translation. The course materials will be provided in Russian and English.

Trainers and Lecturers:

- Cornelia Zech, GFZ Section 1.2, Global Geomonitoring and Gravity Field
- Katy Unger-Shayesteh, GFZ Section 5.4, Hydrology
- Dr. A. Zubovich, CAIAG Department 3, Monitoring Systems and Data Management
- A. Sharshebaev, CAIAG Department 3, Monitoring Systems and Data Management
- D. Mandychev, CAIAG Department 3, Monitoring Systems and Data Management

Organisers

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in association with:

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2 Course Programme

Monday, 8th December 2014		
09.00 – 09.30	Welcome by representatives of CAIAG and the CAWa Project	Dr. Moldobekov – co-director CAIAG Cornelia Zech – GFZ Dr. Zubovich - CAIAG
09.30 – 10.00	General overview about the CAWa Project	Dr. Bolot Moldobekov – co-director CAIAG
10.00 – 10.10	Collective photo	Garden of CAIAG
10.10 – 10.30	<i>Coffee break</i>	<i>2nd floor(conference hall)</i>
10.30 – 12.00	HyMet Monitoring station concept <ul style="list-style-type: none"> HyMet Site selection and mechanical installation Requirements, arrangements, necessary place 	Lector - Cornelia Zech – GFZ
12.00 – 13.30	<i>Lunch</i>	<i>Kafe “Kazanok”</i>
13.30 – 15.00	HyMet Station Hydrological Components <ul style="list-style-type: none"> Working principle (sensors/system) 	Lector – Katy Unger-Shayesteh – GFZ
15.00 – 15.30	<i>Coffee break</i>	<i>2nd floor(conference hall)</i>
15.30 – 16.30	HyMet Station Hydrological Components <ul style="list-style-type: none"> Installation, Configuration 	Lector - Cornelia Zech – GFZ
18.00	<i>Welcome Dinner</i>	<i>Restaurant “Arzu”</i>
Tuesday, 9th December 2014		
09.00 – 10.00	HyMet Station Sensor System <ul style="list-style-type: none"> Working principle (sensors/system) 	Lector - Cornelia Zech – GFZ
10.00 – 10.30	<i>Coffee break</i>	<i>2nd floor(conference hall)</i>
10.30 – 12.00	HyMet Station Technical Components <ul style="list-style-type: none"> Datalogger, Power System 	Lector - Cornelia Zech – GFZ
12.00 – 13.30	<i>Lunch</i>	<i>Kafe “Kazanok”</i>
13.30 – 15.00	HyMet Station Computer System <ul style="list-style-type: none"> Basic operation, configuration, system start-up, data transmission 	Lector - Cornelia Zech – GFZ
15.00 – 15.30	<i>Coffee break</i>	<i>2nd floor(conference hall)</i>
15.30 – 16.30	Practical training: Computer System <ul style="list-style-type: none"> Maintenance, troubleshoot 	Lector - Cornelia Zech – GFZ
Wednesday, 10th December 2014		
09.00 – 13.00	Fieldtrip to Baytik (HM01) <ul style="list-style-type: none"> Practical training: Maintenance, troubleshoot 	Lectors - Dr. Zubovich - CAIAG - Cornelia Zech – GFZ
12.00 – 13.30	<i>Lunch</i>	<i>Kafe “Kazanok”</i>
13.30 – 15.00	HyMet Station Satellite Data Communication <ul style="list-style-type: none"> Installation and configuration of VSAT antenna 	Lector – A.Sharshebaev - CAIAG
15.00 – 15.30	<i>Coffee break</i>	<i>2nd floor(conference hall)</i>
15.30	<i>Free time</i>	
Thursday, 11th December 2014		
9:00 – 9:45	Greetings on the Occasion of the International Mountain Day	Dr. Moldobekov – co-director CAIAG, Mountain Partnership - Elbegzaya Batjargal F.A.O. - _____

		Acad.Prof. A.Aidaraliev – President MUK Dr. Talant Ryspaev – Dean, Kyrgyz Technical University
9:45 – 10:00	Coffee Break	2 nd floor(conference hall)
10:00 – 12:00	Sensor Data Storage System SDSS <ul style="list-style-type: none"> • Introduction • Basic operation, Data retriever 	Lectors - Dr. Zubovich - CAIAG D. Mandychev - CAIAG
12.00 – 13.30	Lunch	Kafe "Kazanok"
13.30 – 15.00	Sensor Data Storage System: Data evaluation, tests <ul style="list-style-type: none"> • Practical training 	Lectors - Dr. Zubovich - CAIAG D.Mandychev - CAIAG -
15:00 – 15:30	Coffee break	2 nd floor(conference hall)
15:30 – 16:30	Sensor Data Storage System: Data evaluation, tests <ul style="list-style-type: none"> • Practical training 	Lectors - Dr. Zubovich - CAIAG D.Mandychev - CAIAG
17:00	Certificate Ceremony, Photo	Dr. Moldobekov – co-director CAIAG and members of the Mountain Partnership
Friday, 12th December 2014		
09.00 – 11.00	Summary and conclusions	Dr. A. Zubovich, CAIAG
10:00-10:30	Coffee break	2 nd floor(conference hall)
11.00 – 12.30	Feedback & Farewell	Dr. A. Zubovich, CAIAG A.Sharshebaev, CAIAG D.Mandychev, CAIAG
12.30-13.00	Certificate Ceremony, Photo	Dr. Moldobekov – co-director CAIAG Dr. A. Zubovich, CAIAG (CAWa)
~ 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, operate and maintain a hydrometeorological monitoring station.

3 Participants and Funding

Target group are specialists and technicians as well as local operator from the hydrometeorological services in Central Asia who are responsible for the operation of hydrometeorological stations. 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 three participants from each invited organization.