

Scientific report of STSM on Exchanging information and practices of snow measurement activities

Name of the Candidate and Institution

Dr Ali Nadir Arslan, PhD

Finnish Meteorological Institute

Helsinki-Finland

Name of the host institute(s)

- (1) Aynur Sensoy Sorman, Department of Civil Engineering, Anadolu University, Eskisehir – Turkey
- (2) Dimitar Nikolov, NIMH - BAS ,Bulgaria

BACKGROUND

A review and practical guide on snow measurements considering different user needs is very important and also one of the main focus of the COST ES1404. Assessing and harmonising measurements, spatial variability and sampling strategy, error specification of observations and reviewing of measurement protocols, practices, and standards are important to develop a rationale and long-term strategy for snow measurements, their dissemination and archiving in Europe. In order to do that it is important to exchange know-how via organizing workshops, field campaigns and STSMs.

PURPOSE

This STSM was aiming to exchange information on snow measurement activities between Finland and Turkey. There was also a visit to Bulgarian Met. Office in Sofia during this STSM.

PLANNED WORK

During this STSM there were meetings organized for exchanging and discussion snow measurement activities and facilities of each country in Bulgaria and Turkey. There were also visits to city of Erzurum in Turkey for possible snow measurement fields in the activities of the COST Action ES1404 in 2016.

MAIN OUTCOMES

Outcome from visit to Bulgaria

There were two different meetings organized at the Bulgarian Met Office in Sofia, Bulgaria. The first meeting was between Dr. Dimitar Nikolov and Dr. Ali Nadir Arslan. During this meeting there has been discussions on possible field campaign in Bulgaria in 2016. Dr.Arslan presented objectives of field campaign planned for 2016. Dr.Nikolov presented possible snow fields and measurement facilities of those fields. The field visit was planned but it was not possible due the bad weather conditions. The second meeting was organized with snow experts at the NIMH – BAS. Dr.Arslan gave presentations about the COST in general, the Action ES1404 and also snow activities in Finland. Out of this meetings 2nd MC member from Bulgaria was assigned and also a snow expert for Working Group activities. Final outcome was that Bulgaria can host a field campaign but may be in future better not in 2016.

Outcome from visit to Turkey

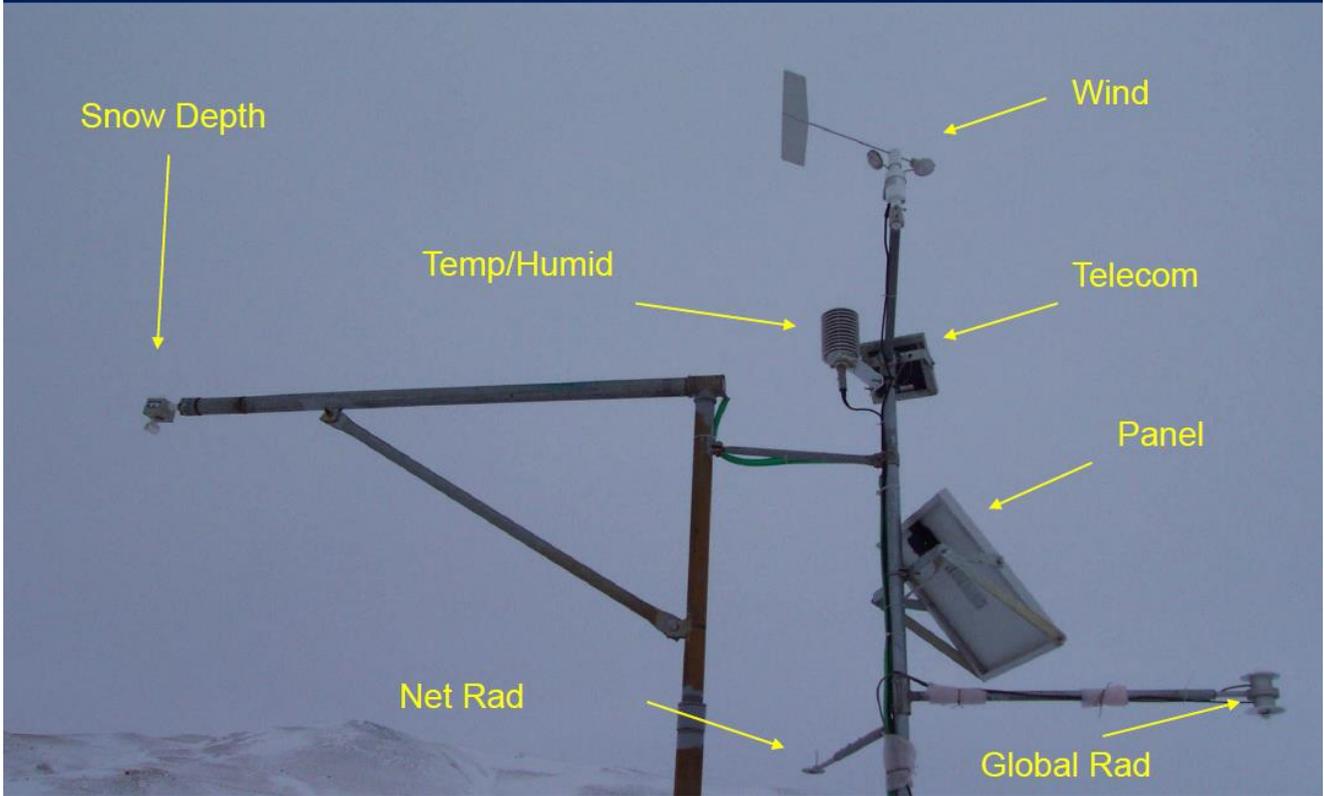
The meetings were held in the city of Erzurum, Turkey where field campaign can take place. There were many field visits during the STSM. There were two strong field candidates Guzelyali and Palandoken sites. More information and facilities about sites can be seen in photos at the end of report. There has been many meetings organized with local organizations including local municipalities, local state meteorological service, state hydraulic work (DSI), and possible hotel accommodation.

Final outcome from visit to Erzurum was that Turkey can hos a field campaign in Erzurum because there were many local interest and supports from government organizations.

Güzelyayla SnoTel (2065 m)



Sensors



Precipitation Gauge



30 cm dia. tipping bucket

Snow Pillow

~ 3 m diameter



Palandöken SnoTel (2610 m)



COST, Helsinki, 2015

Palandöken SnoTel (2610 m)



Erzurum (1850 m)

