

WORLD METEOROLOGICAL ORGANIZATION

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**COMMISSION FOR INSTRUMENTS AND
METHODS OF OBSERVATION**

ITEM: 3

**INTERNATIONAL ORGANIZING COMMITTEE (IOC) FOR THE
WMO SOLID PRECIPITATION INTERCOMPARISON
EXPERIMENT (SPICE)
Fourth Session**

Original: ENGLISH

Davos, Switzerland
17 – 21 June 2013

SITE REPORT FOR VALDAI (RUSSIAN FEDERATION)

(Submitted by Anton Timofeev)

Summary and purpose of document

This document provides site report of Valdai (Russian Federation) for the 2012/2013 winter.

ACTION PROPOSED

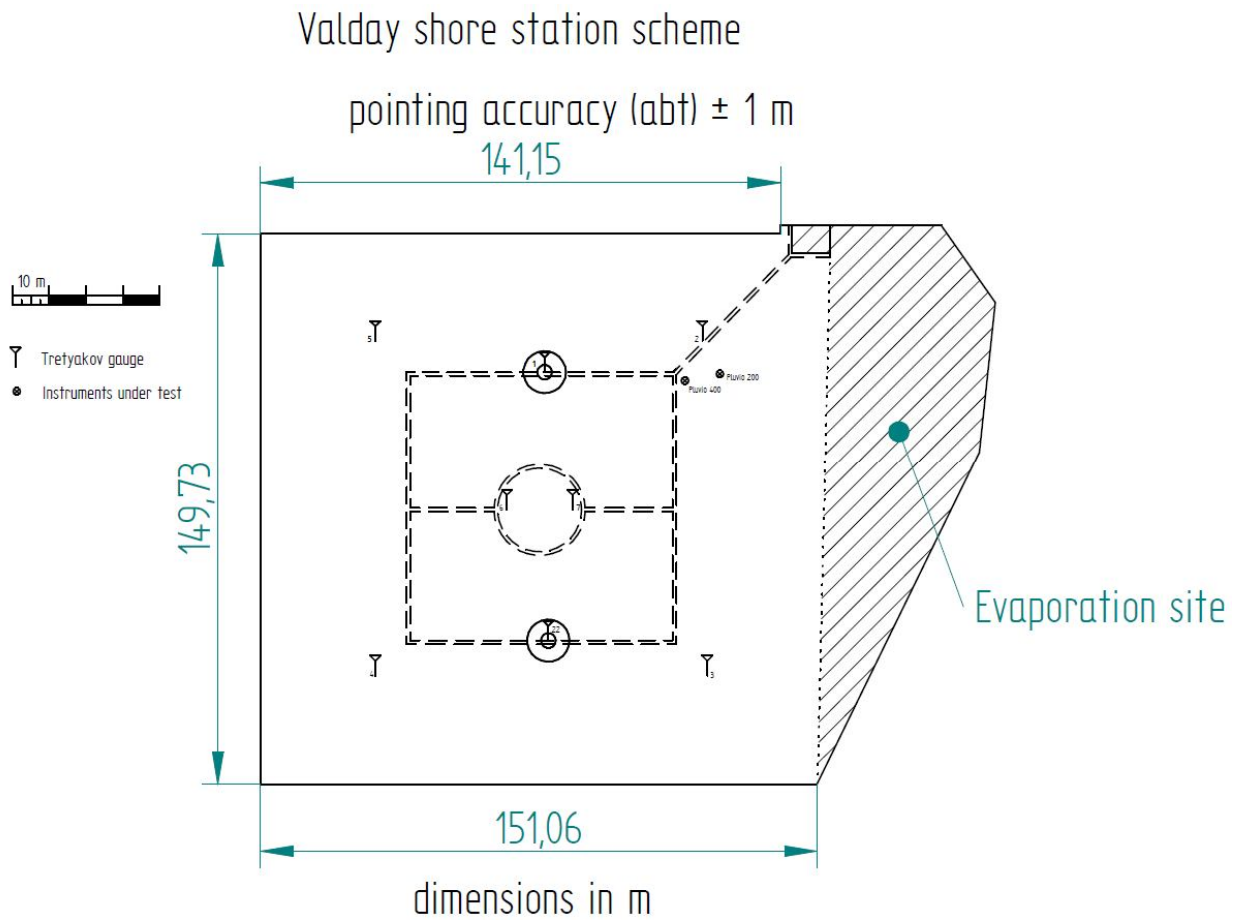
The Meeting is invited to take this information into consideration when deciding on necessary modifications and clarifications on the overall set-up of the experiment and procedures to be followed to ensure best quality observations are collected on all sites and appropriate coordination and data transfer mechanisms are implemented.

Valday site report

Site: Valday

Date: May 15, 2013

1. Site layout



2. Configuration of references:

Covering: gauge used, heating (hardware, algorithm), sampling strategy, physical configuration (height, shields, etc):

Reference type	Gauge	heating	shield	Data sampling interval	Sampling strategy	Output interval	Height of the rim
R0	3 Tretykov gauges	n/a	Tretyakov wind shield/4 m fence	1/24 hrs	Manual, volume	1/24 hrs	2 m
R1	Tretykov gauge	n/a	DFIR+Tretykov wind shield	1/24 hrs	Manual, volume	1/24 hrs	3 m
R2	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R3	n/a	n/a	n/a	n/a	n/a	n/a	n/a

3. Changes made during the season 12/13, if any.

No changes performed with R1 and R0. R2 and R3 are not installed.

4. Issues: heating, data quality, vibrations, capping;

5. Heating report:

Heating was not used for instruments under test. Used reference instruments are not supports heating.

6. What has worked well;

No problems with manual and ancillary instruments.

7. What has not worked that well: lessons learned;

Some malfunction occurred with «Pluvio² 200» and «Pluvio² 400»:

- powering problems: snow covered solar panels;
- some instrument/server problems;

Powering problem was solved. Instrument/server problems are not clarified. Both problems caused reduction in samples amount over couple days.

8. Data available:

Data available for period from 15 NOV 2012 to 1 APR 2013. Same data volume sent to NCAR.

9. Instruments under test: list, issues

OTT Pluvio² 200 and 400:

Several malfunctions during November 2012 and January 2013. As soon as Valday is not getting raw results from this instruments and «AdCon» server seems to perform some QC, we only can say that this period we get lesser data amount.

10. Information on the Precipitation Detector(s) used;

Not available for experiment.

11. Commissioning:

Proof of performance document is prepared for 2012-2013 winter period. Installation of additional instruments is planned on this summer to cover 2013-2014 period with R2 and R3 data.

12. Results to date:

13. Interaction Site manager and the IOC and Project team

14. Small things, big impacts?
