WMO SPICE Teleconference

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| Date | 25.09.2014 | Time | 13:00 – 14:45 (UTC) |
| Purpose | SPICE | | |
| IOC member attendees (strike though if not attending) | R. Nitu, B. Baker~~, J. Hendrikx, H. Liang,~~ Y.-A. Roulet, F. Sabatini, ~~V. Vuglinsky~~ | | |
| ~~IOC ex-officio member attendees (strike though if not attending)~~ | ~~S. Bilish (Australia)~~ C. Smith ~~– D. Yang~~ (Canada), ~~S. MacDonell (Chile)~~ O. Aulamo (Finland) K. Honda (Japan) ~~C. Zammit (New Zealand) M. Wolff (Norway) M. Karzynski (Poland)~~  ~~TBD (Russian Fed.)~~  R. Rasmussen (USA) ~~L. Lanza (Italy)~~  ~~S. Morin (France) A. Uriel -~~ S. Buisan (AEMET-Spain)  ~~G. Diolaiuti, Antonella - D. Bocchiola (Italy/Nepal)~~  Hyelim Kim (Rep. Korea) | | |
| Other Attendees  (optional) | I. Rüedi, M. Earle, ~~F. Boudala, Andy Gaydos, B. Goodison, J. Hoover,~~ P. Joe, J. Kochendorfer, T. Laine, ~~S. Landolt, A. Senese, E. Vuerich, A. Poikonen,~~ A. Reverdin, ~~Gyu-Won Lee,~~ Floor Heuvel, ~~Hee Jin,~~ Kai Wong | | |
| Distribution | All attendees, IOC (including IOC ex-officio members) | | |
| Moderator | Rodica Nitu | Recorder | **I. Rüedi** |

Meeting Records (A = Action / D = Decision / I = Information)

| **#** | **A / I / D** | **Item Description** | **Owner** | **Due Date** |
| --- | --- | --- | --- | --- |
| 1 | **I** | Presentation of the reference report, which was significantly updated and recently shared with the team, including a chapter on Snow on the Ground reference. | Rodica |  |
| 2 | **A** | Everyone to provide missing parts, updates and feedback on report | All | 15 Oct.2014 |
| 3 | **I** | Update on R0-R1 analysis. Some preliminary R0-R1 analysis was done for the data from Caribou Creek. That should be mentioned in the report. | Daqing |  |
| 4 | **I** | Update on R1-R2 analysis based on data from Joikonen (Finland) and Bratt’s Lake (Canada). Joikionen data showed good agreement between R1 and R2 (catch ratio 0.99). The catch ratio for Bratt's lake was smaller (R2 measured less than R1), but this different was found to be connected to blowing snow events (observer had mentioned blowing snow). | Craig |  |
| 5 | **I** | Update on R1-R2 analysis based on data from CARE (Canada). These data show a significant difference between R1 and R2 (7%), which could not be observed at data from Finland and Bratt's lake. | Kai |  |
| 6 | **A** | Provide R1 data from Marshall to Kai to conduct similar analysis with respect to both Geonor and Pluvio2 of Marshall in R2 configuration. | Roy | 9 Oct. 2014 |
| 7 | **A** | Perform R1/R2 analysis for Marshall with respect to both Geonor and Pluvio2 of Marshall in R2 configuration | Kai | Dec 2014 |
| 8 | **I/A** | Update on R2-R3 analysis. Comparison on catch efficiency experienced in Marshall and Haukeliseter, more specifically on the analysis of the R3 (catch efficiency of single alter gauge vs unshielded gauge).  Both measurements and model calculations suggest that the shape of the transfer curves are depending on site climatology. Typical particle sizes of the snow seems to be a possible explanation for these differences.  It was suggested to classify the data after different temperatures to see how that relates to the shape of the curves.  Even if sites have a typical “sort of snow”, not all events will be typical and transfer functions for single events might not follow the climatology of the station. If possible (enough data) these should be studied as well.  Roy to provide input for the Reference Report on use of R3 vs R2. | Roy | Oct 15, 2014 |
| 9 | **I** | Craig, Samuel Morin, Mike: working on SoG data analysis plan, Oct 6,7 |  |  |
| 10 | **A** | Rodica to contact site managers with requests for site descriptions for the Reference Report | Rodica | Oct 9, 2014 |
| 11 | **A** | Try to get data from the first WMO intercomparison from sites with a shielded/unshielded pair. If available, these data will be sent to Roy for further analysis | Daqing |  |
|  |  | **For next teleconference(s)**:   * **9 October 2014:** Proposal of Data Sheets Content, based on review of Data Sheets of instruments tested during RI Intercomparison (IOM 99) * **16 October 2014**– Detailed report&discussion: QC & event selection * **23 October 2014**: Data availability and readiness for season 14/15. * **30 October 2014:** Snow on the ground and event selection at Forni and Pyramid sites * **6 November 2014**– detailed report & discussion: Analysis * **13 November 2014**– progress report from each group * **20 November 2014:** review of results of Calibration comparison CARE, 2014 * **27 November 2014**– detailed report & discussion: Uncertainty\* * **4 December 2014**– report from each group, planning 2015 | Topic specific |  |

Open Actions (strike though actions that were complete since last teleconference, delete actions that were stroked through at time of previous teleconference)

| **#** | **A / I / D** | **Item Description** | **Owner** | | | **Due Date** |
| --- | --- | --- | --- | --- | --- | --- |
| **From teleconference of 18 September 2014** | | | | | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **I** | Site Updates: for Guthega Dam (noise issues addressed), Caribou Creek, Bratt’s Lake (major overhaul), Haukeliseter (winter preparation, hot plate communication, temp sensor on PWS100), CARE (planning 3rd DFIR), Weissfluhjoch (site maintenance in Sept, realign Pluvios, 2DVD in DFIR), Marshall (site maintenance in late Sept, Col de Porte (replace noisy transducer, data transfer to NCAR, use antifreeze mixture as recommended by Jeffery Hoover)  Forni: issues with the position of sensors and SR50. Will make presentation together with the SoG session. |  |  | |  | **A** | (resulting from Sept 18th teleconference): the Pluvio firmware version for SPICE remains 1.30.1;  All Pluvios in SPICE to be reoriented with the strain gauge towards north, to minimize the temperature variation due to the solar irradiance. | All Site Managers | Nov 2014 | |  | **A** | Establish instrument champions for all instruments under test in SPICE. A champion would be the focal point for the information regarding a particular sensor/system, and would ensure that the information is captured in the Final Report.  All are invited to indicate their preference for contributing to the assessment and tracking of performance of SPICE tested sensors.  Rodica to set Doodle poll for all to indicate preferences | All team members | Oct 15, 2014 | |  | **A** | Plan the organization of SPICE IOC-6.  Rodica will issue Doodle poll | Rodica | Sept 30 | | | | | | | |
| **From teleconference of 11 September 2014** | | | | | | |
| ~~1A~~ | **~~A~~** | ~~Floor will send out WMO login credentials and summary instructions after telecon~~ | ~~Floor~~ | ~~11.09.2014~~ | | |
| 1B | **A** | Floor to look into sharing access with private Gmail accounts | Floor | 18.09/2014 | | |
|  | **~~A~~** | ~~Yves-Alain to share instructions from OTT on how to solve issue (seem to be working well so far, but another winter required to make sure)~~ | ~~Yves-Alain~~ | ~~18.09.2014~~ | | |
|  | **~~A~~** | ~~Have to decide if we want to change firmware for reference gauges or not~~   * ~~Had decided previously not to change during experiment, but this will not impact Bucket RT, which we use for analysis~~ * ~~Confirmation from OTT that Bucket RT data will not be impacted by firmware update~~ * ~~Might be difficult to get list of changes to firmware… but we don’t really know what’s in the current firmware~~ | ~~Group discussion~~ | ~~18.09.2014~~ | | |
|  | **~~A~~** | ~~Discussion of SPICE IOC-6: Jun 22- 26, 2015 in Toronto~~ | ~~Group discussion~~ | ~~18.09.2014~~ | | |
| ~~4~~ | **~~A~~** | ~~News and updates of site managers: updates on current winter (SH), plans before winter (NH)~~ | ~~Site managers~~ | ~~18.09.2104~~ | | |
| **From teleconference of 4 September 2014** | | | | | | |
| ~~2.4~~ | **~~A~~** | ~~Samuel Buisan will resend his data-analysis of the Spanish site to Roy, which does not experience snow events below -4deg C~~ | ~~Samuel~~ | ~~4.9.2014~~  ~~done~~ | | |
| **From teleconference of 7 August 2014** | | | | | | |
| ~~1~~ | **~~I/A~~** | ~~Not all SPICE participants are well aware of the content of the data protocol that was agreed upon approx. 2 years ago. Important that everyone is well aware of it now that project is maturing. Everyone was invited to share concerns, if any, with Rodica, Mareile and Secretariat (Isabelle).~~ | ~~All~~ | ~~31 Aug. 2014~~ | | |
| 3 | **I/A** | Encouraged all the site teams to publish results, preferably in the ATM special issue on SPICE. Final report could refer to them. Rodica should be informed of plans for such publications. In the event that only few publications are available, most of the information would then have to be directly included in the final report | All | 31 Aug. 2014 | | |
| ~~6~~ | **~~I/A~~** | ~~Need to have a way of sharing plans for publications. Floor and Audrey prepared a google doc for following up which publications and presentations were made. That could be expanded to planned publications. Audrey to send access to google docs to all the SPICE Team and to present them during one of the next teleconference.~~ | ~~Audrey~~ | ~~20 Aug. 2014~~ | | |
| 7 | **A** | Finalization of Sodankyla meeting report is still underway. Some presentation summaries are still missing from Antonella, Leena, Niina, Arkady. | ~~Antonella, Leena, Niina,~~ Arkady, Isabelle | 31 Aug. 2014 | | |
| 10 | **A** | Data sheet that will be used for reporting on all the instrument performance in the final report should be discussed during one teleconference towards agreeing on their tentative content, which is likely to influence the data analysis.  A teleconference on results of review will be held on Oct 09, to inform the data analysis work. | All | Oct 9, 14 | | |
| 11 | **A** | Present a Summary of methods implemented at NCAR in support of SPICE; to be demonstrated during next telecon | Roy/Andy | Next telecon | | |
| 12 | **A** | Organize data analysis meetings in near future to assign duties; teams conducting parallel analysis an option | Mareile/Rodica | Sept | | |
| 13 | **A** | Provide a tutorial (demo and written) on how to use all features implemented at NCAR, that are expected to be used by Site Managers, and DAT members | Roy | August | | |
| 15 | **A** | Assess and discuss methods for tying together SoG with event selection; an NCAR or offline? | Craig | Next telecon | | |
| ~~16~~ | **~~A~~** | ~~Follow up with Roy re: availability of manual obs at NCAR~~ | ~~Mike/Rodica~~ |  | | |
| 17 | **A** | Retrieve data for R1-R2 assessment from FMI | Craig |  | | |
| 19 | **A** | Mike to report on uncertainty assessment of Geonors and Pluvios using John’s approach | Mike | Dec 2014 | | |
| ~~20~~ | **~~A~~** | ~~Overview of discussion with OTT~~ | ~~Yves-Alain~~ | ~~Next teleconference~~ | | |
| ~~22~~ | **~~A~~** | ~~Upload documents to Google Drive; lead group through site during next telecon, providing instructions to site managers for how to use.~~ | ~~Audrey~~ | ~~Next telecon~~ | | |
| ~~23~~ | **~~A~~** | ~~Audrey to coordinate with Andy to create webpages for all sites and provide access to site logs sections of NCAR site; info with instruction to be provided to all site managers~~ | ~~Audrey/Andy~~ | ~~Sept 2014~~ | | |
| ~~29~~ | **~~A~~** | ~~Send Letter informing them of :~~  ~~Prolongation of experiment~~  ~~Possibility to obtain precipitation data~~  ~~Invite them to liaise with sites (look at data, visit sites)~~  ~~Motivate them to liaise (in your interest as SPICE will report on your instruments)~~  ~~Report to Project Lead in case of problems.~~ | ~~Rodica/Isabelle~~ | ~~July~~ | | |
| ~~30~~ | **~~A~~** | ~~Letter to Site managers;~~  ~~Encourage to liaise with instrument providers~~  ~~Recall publication guidelines (inform provider in case of reporting results from instruments under test)~~  ~~Appropriate time for feedback: at least 3 weeks in case of “negative/problematic” results.~~  ~~Warn that information is scattered through various SPICE IOC meeting reports~~  ~~Circulate a summary of the Data Protocol~~ | ~~Rodica~~ | ~~July~~ | | |
| ~~31~~ | **~~A~~** | ~~Review draft of Reference Report~~  ~~All contributors invited to review their portion. Rodica to review the first few chapters to remove redundancy.~~ | ~~Rodica/ Others~~ | ~~July 2014~~ | | |
| ~~32~~ | **~~A~~** | ~~Audrey to undertake the task of reviewing the sensors under test performance and data quality for the sensors at Marshall, generate flags.~~  ~~Roy to provide guidance.~~ | ~~Audrey/Roy/ Rodica~~ | ~~On-going~~ | | |
| ~~33~~ | **~~A~~** | ~~Explore alternative contacts with the Tapado SPICE site~~ | ~~Rodica/Isabelle / Samuel M~~ | ~~Sept 2014~~ | | |
| **From teleconference of 20 February 2014** | | | | | | |
| 3 | **A** | Sites to clearly document issues on heating, as well as on all interactions with manufacturers. | All | On-going | | |
| 4 | **I/A** | Commissioning reports have only one entry for Data sampling frequency and data acquisition frequency. It is recommended that all sites provide both values.  Site tracking form should be updated if needed to capture this information. | Audrey / Craig | 24 Feb. | | |
| 8 | **A** | Help raise resources for the CIMO Trust Fund to enable hiring someone for that. | All | On going | | |
| **From teleconference of 23 Jan. 2014** | | | | | | |
| 2 | **A** | Follow up with sites which have not provided the Commissioning Reports and obtain status and commitment for completion | Francesco | | August 2014 | |
| 12 | **A** | Site Managers to send to Rodica picture that are representative of their sites, which would be used for presentations/posters on SPICE | Site Managers | | on-going | |
| ~~15~~ | **~~D/A~~** | ~~Based on support expressed by IOC members, proposal to share some precipitation data (from precip detector or national gauges) with manufacturers was confirmed. Data shared must not contain any data from the reference gauges! Amount of data that can be shared needs to be specified (tentatively: 1 week at the beginning of the season. Request from manufacturers for subsequent data would have to be examined on a case by case basis).~~  ~~Inform site managers and instrument providers accordingly.~~ | ~~Rodica~~ | | ~~Feb 03,~~ | |
| 20 | **A** | Develop specific recommendation for QC procedure of SoG data. | Craig (with SoG team) | | 28 Feb. 2014 | |
| **From teleconference of 19 Dec. 2013** | | | | | | |
| 9 | **A** | Follow-up on gauge heights (non-DFIR) | Rodica | | Jan 16th | |
| 14 | **A** | Contact Niina Puttonen to help with analysis of reference uncertainty using Sodankyla data, focussing on low-wind conditions | Mareile | | Jan 16th | |
| 16 | **A** | Send Audrey proposals for any terms to be defined | all | | ongoing | |
| **From teleconference of 21 Nov. 2013** | | | | | | |
| ~~6~~ | **~~D/A~~** | ~~Consider putting word versions of MS-Word version of site commissioning reports on an ftp or other appropriate place to enable extraction of relevant parts if needed, f.ex by DAT team.~~ | ~~Rodica~~ | | ~~22 Nov.~~ | |
| **From teleconference of 24 Oct. 2013** | | | | | | |
| 2 | **A** | The SPICE report will need to provide feedback on calibration procedures as stated in Geonor manual to inform those using these gauges.  Key points:   * Gauge levelling * Compare 3-wire average (requires algorithm from DAT) or individual transducers with calibration load * Comparison impacts procedure in manual: if errors more than 0.5%, Geonor recommends correction of *A*, *f0* coefficients * Covering of gauge orifice during calibration | Rodica | | In the Final report | |
| 8 | **A** | Status of data transfer to NCAR to be monitored and documented regularly, shared; specifics of procedures TBD | Rodica/ Audrey | | On going updates | |
| **From teleconference of 20 Sept. 2012** | | | | | | |
| 1 | **A** | Look at vertical wind profile: compare measurements with observations at different heights | John | | | Aug 2013 |

**Attachments:**

None.