WMO SPICE Teleconference

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| Date | 16.10.2014 | Time  | 13:00 – 14:25 (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, ~~L. Leppänen,~~ H.-R. Hannula |
| 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** | Overview of data availability at NCAR and whether data has been sent to NCAR by sites or not were presented. Tables summarizing this information were developed by Audrey and will be kept up-to-date.A lot of manual Snow-on-the-ground data is missing.At present, 9 sites have no data at NCAR yet. | Audrey |  |
| 2 | **A** | Commissioning report of Joetsu was apparently sent to JMA in August 2014, but hasn’t been received by SPICE Team. Ask JMA to forward Joetsu’s Commissioning report. | Rodica/Isabelle | 20 Oct. 2014 |
| 3 | **I** | Various options to do an overall QC on the data is being investigated by the DAT to ensure that anyone working with the data will be using QC-ed data. | Mareile |  |
| 4 | **I** | For snow-on-the-ground, the present (interim?) preference is to have the QC done off-line. | Craig |  |
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|  |  | **For next teleconference(s)**:* **23 October 2014**: Snow on the ground: overview of data availability, quality control, and analysis; and event selection at Forni and Pyramid sites n
* **30 October 2014:** Detailed report & discussion: QC & event selection
* **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** |
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| **From teleconference of 9 October 2014** |
| ~~3~~ | **~~A~~** | ~~Extract definitions of selected terms mentioned in the project objectives, reflecting expectations for inclusion in the data sheet from the VIM and provide them to Roy.~~ | ~~Rodica~~ | ~~23 Oct. 2014~~ |
| 4 | **A** | Provide a first draft of the interpretation of terminology used in the project objectives, relative to SPICE specifics, to be used as a starting point for the identification of graphs and analyses to be conducted for the preparation of Data Sheets.  | Roy | Oct 30, 2014 |
| 5 | **A** | Review concept of data sheet taken into account above interpretations during teleconference | All | Early Nov. 2014 |
| 6 | **A** | Use the opportunity of the review of data availability for assessing the type of plots and analysis that needs to be conducted for meeting project objectives. E.g. developing plots to assess whetehre there are similarities between climates on different sites, assessment of results on a site by site basis, followed by the corroboration of results, etc | all | End of October |
| 7 | **I/A** | All project members are encouraged to publish results, from their sites, or on proposed methodologies, in the SPICE special issue and to inform the team about their plans. | All | On-going |
| **From teleconference of 25 September 2014** |
| 2 | **A** | Everyone to provide missing parts, updates and feedback on report | All | 15 Oct.2014 |
| 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 |
| 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 |  |
| **From teleconference of 18 September 2014** |
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|  | **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 |

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| **From teleconference of 11 September 2014** |
| 1B | **A** | Floor to look into sharing access with private Gmail accounts | Floor | 18.09/2014 |
| **From teleconference of 7 August 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 |
| 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 |
| 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 |
| **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 |
| 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 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.