WMO SPICE Teleconference

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| Date | **07.08.2014** | Time  | 13:00 – 15:00 (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~~ |
| 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/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 |
| 2 | **I** | Data protocol specifies that instrument providers shall be invited to comment on planned publications. |  |  |
| 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 |
| 4 | **I** | Have submitted paper of Norway result to one of the journal of the special issue, but that was before the special issue was “created”. | Mareile |  |
| 5 | **I** | Plan to publish SPICE-related related paper. Team recalled such papers could also be submitted to the special issue. | John |  |
| 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 |
| 8 | **I** | Presentation of the SPICE-DAT subgroups, related tasks and plans for future SPICE-DAT teleconferences. | Mareile |  |
| 9 | **I/D** | SPICE-DAT is now big and include most people from the SPICE Team. There are some duplications of discussions taking place in different forums.Team agreed that SPICE-DAT teleconference should be opened to the whole SPICE team and that teleconferences should be held weekly, as was done prior to the Sodankyla meeting. Other presentations could also be scheduled to ensure that everyone is aware of the analyses being carried out throughout SPICE. This will reduce duplications of discussions in various forums.Starting from September, teleconferences will be held every Thursday at 13:00 UTC. |  |  |
| 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 02, to inform the data analysis work. | All | Oct 2, 14 |
|  |  | **For next teleconference(s)**:* **4 September 2014:** Presentation by Audrey on google docs listing presentations and publications.
* **11 September 2014:** Progress report from each SPICE DAT subgroup.
* **18 September 2014:** Snow on Ground
* **25 September 2014:** detailed report & discussion: References
* **2 October 2014:** Proposal of Data Sheets Content, based on review of Data Sheets of instruments tested during RI Intercomparison (IOM 99)
* **9 October 2014**– Detailed report&discussion: QC & event selection
* **16 October 2014**: Data availability and reqadiness for season 14/15.
* **23 October 2014: TBD**
* **30 October 2014** – detailed report & discussion: Analysis
* **6 November 2014**– progress report from each group
* **13 November 2014:** review of results of Calibration comparison CARE, 2014
* **20 November 2014: TBD**
* **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 19 June 2014** |
| 2 | **A** | **Overall approach for the next 18 months:****Milestone:** rest of 2014: Apply methods developed to date to existing SPICE datasets on multiple sites, assess results including comparative; get sense of general utility, improve as needed.**Milestone:** 2014/early 2015: Identify any gaps, new methods required, both general and site-specific issues, related to SPICE objectives**Milestone:** mid 2015: advanced/broad methodologies for assessing the SPICE data for all instruments under test are developed and validated.**Milestone:** end 2015: data analysis addressing SPICE objectives, completed. |  | 2014/15 |
| 4 | **A** | All data from past seasons to be transferred to NCAR; for those sites that are facing challenges, support will be provided by other team members (Valday and Volga: John and Antti; Gochang: Rodica; Italy, Nepal: Mareile, Samuel M). | Site Managers | Sept |
| 5 | **A** | Conduct calibration of all gauges (reference, under test) over summer of 2014 | Site managers | Oct 2014 |
| 6 | **I/A** | **Repeatability study on calibration of gauges**: Emanuele and CARE team to conduct dynamic calibration of weighing gauges; comparison of calibration results with static approach. Results to be consolidated and presented to team and in a paper (potentially). | Emanuele/ CARE team | June 23-27, 2014 + 2015 |
| 7 | **A** | Provide instructions on using flagging system to all site managers | John | July 2014 |
| 8 | **A** | Test QC methods implemented on NCAR site; report back to group, identify issues to be addressed | Mike/Audrey/ John | Aug 2014 |
| 9 | **A** | Development and documentation of QC procedures for systems under test | Audrey | Oct 2014 |
| 10 | **A** | Report on aggregation of data from systems under test as implemented at NCAR, currently (accumulation during periods identified by event selection) | Audrey | Next telecon |
| 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 | Next telecon |
| 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 dataInvite 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 providersRecall 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 reportsCirculate a summary of the Data Protocol | Rodica | July |
| 31 | **A** | Review draft of Reference ReportAll 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.