WMO SPICE Teleconference

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| Date | **18.02.2014** | Time  | 14:00 – 15:30 (UTC) |
| Purpose | SPICE Snow-on-Ground DAT |
| IOC member attendees(strike though if not attending) | R. Nitu (Canada) |
| IOC ex-officio member attendees(strike though if not attending) | Craig Smith, Daqing Yang (Canada), Osmo Aulamo (Finland), ~~Samuel Morin (France)~~, ~~Danielle Bocchiola (Italy/Nepal), CHOI Eunjin (Rep. Korea), Maciej Karzynski (Poland)~~, Yves-Alain Roulet (Switzerland) |
| Other Attendees(optional) | Mike Earle, Barry Goodison, ~~Timo Laine~~, Henna-Reetta Hannula, Leena Leppänen, Niina Puttonen, ~~Yves Lejeune~~, Audrey Reverdin |
| Distribution | All attendees, IOC (including IOC ex-officio members) |
| Moderator | Craig Smith | Recorder | **Craig Smith** |

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

| **#**  | **A / I / D** | **Item Description** | **Owner** | **Due Date** |
| --- | --- | --- | --- | --- |
| 1 | **I** | Reviewed and discussed action items from previous telecon |  |  |
| 2 | **I** | Reviewed and discussed SoG Data Inventory and QC Parameter template. Provided some clarification as to what information goes into each column. Feedback was positive. Rodica suggested capturing the reference measurement information here as well |  |  |
| 3 | **A** | Craig to poll sites about manual SOG reference measurements | Craig | March 25 2014 |
| 4 | **I/A** | Discussed actions taken regarding SR50-ATH temperature related noise at Sodankyla. Craig informed the group that he opened dialogue with Campbell Scientific regarding the potential cause of the noise (dialogue has been continued between Osmo/Antti and CSC). Rodica had concerns that this was outside of the IOC protocols for engaging manufacturers but because only the specific instrument data and select ancillary (temperature) data was provided, the engagement is within the protocols. This should be discussed with the larger group to provide clarification. As per Barry’s suggestion at the last telecom and with Osmo’s permission, Craig will share this instrument graph with the larger group for discussion prior to the next group-all telecon | Craig | Feb 20 2014 |
| 5 | **I** | Barry suggested a field experiment to look at temperature profiles in comparison with the temperature measured for sonic corrections to determine the impact of increasing snow depths and nocturnal inversions on sonic corrections. This is likely too late for this year’s experiment but could be added for next winter. Craig suggested that preliminary analysis could be done on some hypothetical situations. |  |  |
| 6 | **I** | Reviewed V1 of the Snow-on-Ground Quality Control Plan that Craig circulated late last week. Some key points were:1)Barry like the idea of all instrument data collated in monthly files for each site to make intercomparison easier.2)Perhaps there should be a “Stage 0” which would be visual QA/QC done by the site managers (or others) and issues documents3)Daqing suggested bringing together the SoG data with the gauge data at some point to supplement to QC process and contribute to analysis products. Craig suggested that this should be added to Stage 4 or Stage 5 (or both).4)Rodica pointed out some redundancy in the wording for Stages 4 and 5 and suggested that “noise filtering” be removed from Stage 5 and be included in “rigourous statistical filtering” in Stage 4. Stage 5 should include a “noise evaluation”5)Rodica suggested that information regarding the manual SoG reference should be integrated into the Data Inventory template and Craig will think about how this can be done efficiently6)To contribute to Section 5, information regarding the bias in manual snow samplers is required. Barry pointed out a Western Snow Conference report that outlines how this should be done. Craig/Barry will try to find this report. Barry noted that the sampler bias could be +/- 1 to 10%7)Barry (and Samuel via email) suggested to keep in mind operational programs when designing a QC process…protocols developed and lessons learned could be applicable to real-time monitoring networks8)Mike made the point that perhaps “gap filling” should not occur in Stage 5 suggesting that filling gaps with statistical interpolation may not be in the best interests of the intercomparison. This was the consensus.9)Rodica recomends linking the IOC data definitions with the QC output products in this document. Craig will do this. |  |  |
| 7 | **A** | Craig will revise the QC document and re-circulate. He will also share this with the larger group leading up to discussions during the next telecon | Craig | Feb 20 2014 |
| 8 | **D** | We need to decide who will do the data QC and where this is to be done. Craig suggested that his group in EC may be able to do this using tools developed for other research projects. This needs to be discussed with the larger group.  |  |  |
| 9 | **A** | Craig to put together a “proof-of-concept” for the SoG data QC process for discussion at the next SoG telecom. The larger group should be informed of this process at the next general telecom (Thursday). | Craig | March 25 2014 |
| 10 | **I** | There was some discussion of the report required leading up to the IOC-5 meeting in Sodankyla. Rodica provided some guidance. Report should contain:1)Documentation of the SoG QC protocols2)SoG analysis objectives and the specific methodologies to achieve them3)Analysis leads and team members4)Preliminary results |  |  |
| 11 | **I** | Next telecon Tuesday March 25th, 14UTC |  |  |
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|  |  | **For next teleconference(s)**:* Overview of QC “proof-of-concept”
* Data analysis team matrix
* Preliminary analysis
* Report for Sodankyla
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Open Actions

| **#**  | **A / I / D** | **Item Description** | **Owner** | **Due Date** |
| --- | --- | --- | --- | --- |
| **From teleconference of: 2014-01-14**  |
| 3 | **A** | Craig to revise analysis plan and re-distributeUpdate: completed | Craig | Completed |
| 5 | **A** | Craig to look into the quality control procedures being implemented for the other non-SOG data and discuss these with RodicaUpdate: Discussed briefly with Rodica, course of action TBD | Craig | Completed |
| 6 | **A** | Craig to circulate via email the matrix of analysis tasks to determine who is interested in leading what. Note that this couldn’t be populated during the telecon due to the absence of key people.Update: Delayed, this will be one of the deliverables of IOC-5 | Craig  | March 25 2014 |
| 8 | **A** | Craig will confirm with Rodica what the report should containUpdate: Rodica provided some clarification as to what is expected | Craig | Completed |
| 9 | **I/A** | Barry suggested sharing some SOG data plots with the larger group to make them aware of some of the data issues related to SOG, requesting feedback. Craig to explore this and engage the site managers.Update: started with discussions with Sondankyla team and led to dialogue with Campbell Scientific | Craig | Feb 20 2014 |
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**Attachments:**

None.