**Workplan of the Task Team on Radiation References (2014-2018)**

(Version: as approved by CIMO-MG-13 in Dec. 2014)

| **No.** | **Task description** | **Person responsible** | **Action** | **Deliverable** | **Deadline for deliv.** | **Status****[%]** | **Comments** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1. | **Traceability of solar radiation measurements - WRR-SI Relationship** | **1. Finsterle, Fox, Monte2. Finsterle , Fox, Monte3. Groebner & Tsvetkov** | 1. a.Review and evaluate recent development of reference instruments for solar radiationb. PMOD investigations on Cryogenic radiometer in relation to WRR.
2. a. Assess difference to reference in present use (WRR)

b. Develop recommendations on requirements and timeliness for a modification of the current references (if required develop an implementation plan for the change)1. Provide advice on the method by which current data bases (WRDC & BSRN) and future IPCs and RPCs can modify support the solar irradiance traceable hierarchy
 | 1. a. Presentation IPC 2015;.b. Report to CIMO MG 2016
2. a. Progress report.b. Draft recommendation for adoption by CIMO-17 (2018)

3. a. Interim report on potential impact of a small percentage change in the solar reference on solar data bases and users.b.Recommendation on modification of present WRDC and BSRN DB and future submission to reflect WMO solar reference changes. | 1. MG 20162. a. MG 16.b. MG 20173. a.MG 2016b.MG 2017 |  | CIMO-16, §4.15Note 1: Indicate whether a WMO endorsed multiplier with an associated uncertainty that relates the WRR to the SI should be introduced.Note 2: Provide a recommendation on what reference should be used for future solar radiation measurements by WMO Members (if not the WRR, when it should be introduced) Note 3: Liaise with respective Euramet project(s)CIMO-16, §8.6 |
| 2. | **Traceability of terrestrial (infrared) radiation measurements**  | **1. Groebner2. Groebner3. Groebner4. Groebner****5.ab Ohkkawa5cd Forgan** | 1. Review and evaluate recent development of reference instruments for terrestrial radiation
2. Assess difference to reference in present use (WISG)
3. Develop recommendations on requirements and timeliness for a modification of the BSRN data bases
4. Provide advice on the potential impacts of the change to stakeholders including changes to be traceability requirements

5. Conduct inter-comparisons at high total column water vapour to examine the impact on infrared measurement traceability | 1. Progress report to CIMO MG
2. A. Progress reportb. Report to BSRN communityc. Draft recommendation for adoption by CIMO-17 (2018) on future WIR
3. a. Progress report MG 2015b. Progress report MG 2016c. Report tto BSRN communityd. IOM on infrared traceability framework

4.a. Progress report MG 2015b. Progress report MG 2016c. Report to BSRN communityd. If required updated CIMO Guide section on infrared measurements5 a. Inter-compariosn Japan 2015b. report on Japanese compariosnc. Inter-comparison Australia 2015d. report on inter-comparison | 1. MG 20162. a MG 2016b. BSRN 2017c. MG 20173. a MG 2015b. BSRN 2016c. MG 2017d. 20184. a MG 2015b. BSRN 2016c. MG 2017d. 20185a. report to MG 2016b. IOM report 2017c. report to MG 2016d. IOM report 2017. |  | CIMO-16, §4.15CIMO-16, §8.6Note: Liaise with ET-A3 |
| 3. | **Spectral Irradiance standards**  | **ForganGroebner** | 1. Seek community guidance on the need for WMO to provide a spectral irradiance standards.
2. If desired examine potential focus areas for spectral irradiance standards.
3. If needed a recommendation on the potential spectral irradiance references for operational use by the WMO community.
 | 1. Hold a session at IPC 2015 to examine the need for spectral irradiance standards.
2. a. Report on progressb. Report on progressc. IOM report
3. Draft recommendation for adoption by CIMO-17 (2018)
 | 1. MG 2016
2. a. MG 2016b.. MG 2017c. 2018
3. 3. MG 2017
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| 4. | **Future responsibility for solar and longwave radiation references**  | **ForganFinsterleGroebnerFox****Monte** | 1. Examine the effectiveness of the inter-comparisons at IPCs to support and sustain the global traceability hierarchy of the WRR and WISG, and the outputs of WMO radiation centres.
2. Advise WMO if it should still define and be accountable for the solar and longwave references embodied in the WRR and WISG, and if not recommend options.
 | 1. Report on the effectiveness of the comparisons at the IPCs.
2. a. Report on the continuation of responsibility and accountability of solar and longwave reference;

b. If required, a draft transition plan, and a draft recommendation for adoption by CIMO-17 (2018)  | 1. MG 2016
2. a. MG 2016b.. MG 2017
3.
4.
 |  | CIMO Guide Part I, Annexe 7.C. |

Note 1: All CIMO MG reports to be coordinated by the Chair of the task team.
Note 2: All recommendations for endorsement of CIMO 2018 must be with the CIMO MG by the CIMO 2017 meeting.
Note 3: Unless otherwise specified the person listed in the ‘Person responsible’ column is the lead for the activity but other members of the TT can assist.

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