**GAIA-CLIM: Gap Identification Template (External Input) *September 2015***

*Guidance*

*For gap reporting please adhere to this template and keep the input concise. Provide any longer explanatory remarks not in the table but in a separate document with reference to the Gap Identifier (G6.<gapprovider>.<gap number>)*

*Example: G6.yyyy.xx is a hypothetical gap which serves as an example. All gaps externally provided to GAOA-CLIM start with ‘G6.’. For a gap reported by the institute KNMI, the gap identifiers would read G6.knmi.01, G6.knmi.02, etc]*

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| **Gap Identifier**G6.<no> | **Gap Type 1)** | **Keywords 2)**[Up to 10 (max)] | **ECV(s) 3)** | **Gap Description**(<100 characters) | **Trace 4)**(papers, project reports, etc) | **Gap Impacts**(Bulleted summary) | **Envisaged Remedy** **(**including timescale and cost estimate if possible) |
| ***G6.yyyy.xx*** | ***Coverage (spatial)*** | ***In-situ, GAW;******TCCON;******Representativity*** | ***CO2, CH4 and other long-lived GHGs*** | ***Missing regional Asian network of GAW stations measuring greenhouse gases*** | [***https://www.wmo.int/pages/prog/gcos/apocXVII/7.1\_GAW.pdf***](https://www.wmo.int/pages/prog/gcos/apocXVII/7.1_GAW.pdf) | * ***No observational verification of present-day regional GHG inventories in Asia***
* ***Insufficiently constrained regional GHG emission inversions***
 | ***Remedy: Through the WMO/GAW SAG-GHG******Timescale: ?******Cost estimate: ?*** |
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**Notes**

1. **Gap Types**: Seven gap types can be distinguished: gaps in coverage(spatiotemporal), in vertical resolution; in overall uncertainty (uncertainty budget of a measurement incl. calibration uncertainty); in comparator uncertainty (uncertainty relating two measurements) and further pure technical gaps, gaps in governance, and parameter gaps (missing parameters and/or auxiliary information).
2. **Keywords**. These could include e.g. instrument techniques, networks, projects, etc.
3. **ECVs:** For the list of Essential Climate Variables defined by GCOS, see <http://www.wmo.int/pages/prog/gcos/index.php?name=EssentialClimateVariables>
4. **Trace**: Each reported gaps is assumed to be supported by a (set of) references. These could include scientific papers, reports, publically available specific project deliverables, etc.

**It is recommended to limit full texts to <1-2 pages per identified gap**