GETSI Water Resources summative assessment rubric for WMW

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| Component | Exemplary | Basic | Nonperformance |
| Drawing of annual water calendar for western mountain watershed [5 points] | 5 points:  Snowpack and streamflow plots populated for typical western mountain watershed and higher annual average temperature scenarios AND Yearly variability of snowpack is accurate for WMW and warmer world. AND Yearly variability of streamflow is accurate for WMW and warmer world. AND Relationships between snowpack and streamflow are accurately depicted on time-series (for example, maximum streamflow follows melting snowpack) | 2-4 points: 5 points answer with minor conceptual errors OR Yearly variability of snowpack is accurate, but yearly variability of streamflow is not. OR  Yearly variability of streamflow is accurate, but yearly variability of snowmelt is not. OR Relationships between snowpack and streamflow are not accurately depicted. | 0-1 point(s): No response provided  OR Major conceptual errors for both snowpack and streamflow plots |

(a)

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| Component | Exemplary | Basic | Nonperformance |
| (a) How the typical plot varies from the warmer world plot [2 points] | 2 points: Accurate, detailed description that references plots of how the typical plot varies from the warmer world plot. | 1 point: Minor conceptual errors OR Insufficient detail about the differences between plots. | 0-1 point(s): No response provided  OR Major conceptual errors |
| (b) Specific hydrosphere processes that cause plots to differ [2 points] | 2 points: Hydrosphere processes mentioned are those that impact snowpack and streamflow and their annual variability. AND Accurate explanation of how the processes mentioned impact snowpack and streamflow and their annual variability. | 1 point: 2 point answer with minor conceptual errors OR Hydrosphere processes mentioned are those that impact snowpack but not streamflow. OR Hydrosphere processes mentioned are those that impact streamflow but not snowpack. | 0 points: No response provided OR Major conceptual errors |
| (c) 3 specific examples of how warmer world changes could impact society [3points] | 3 points:  3 specific examples provided. AND No conceptual errors. | 1-2 points: 1-2 specific examples provided. AND/OR Minor conceptual errors | 0 points: No response given OR Major conceptual errors. |