**Stream Temperature Modeling Questionnaire– common set of questions for modelers to address**

**Draft 2/20/15**

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| **Topic** | **Response** |
| **PURPOSE** |  |
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| What is the purpose of your model? |  |
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| **APPROACH** |  |
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| What approach did you use to develop this model? |  |
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| **FUNDING and COLLABORATION** |  |
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| What is the funding source for your effort? |  |
| What organizations have collaborated on this effort? |  |
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| **METHODS** |  |
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| What dependent variable are you predicting? |  |
| Spatial Extent of your predictions |  |
| Spatial Resolution at which you are predicting |  |
| Temporal Scale (Years) of predictions |  |
| Time-step (Frequency) of predictions |  |
| Season of predictions |  |
| Spatial Framework to which you have tied your predictions |  |
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| **DATA** |  |
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| Source of Water Temperature Data |  |
| Protocols used for Water Temperature Data Collection |  |
| Accuracy of Water Temperature Data Loggers |  |
| In what format did you acquire the source data (i.e. individual flat files, database, or web-based system, etc.)? |  |
|  What independent variables were used in your model? |  |
| Are the source data continuous time-series or instantaneous measurements? |  |
|  Source of landscape characteristics use in model |  |
| Source of other independent variables |  |
| Are there paired data available? Air-Water temperature |  |
| Are there paired data available? Biological-Water temperature |  |
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| **RESULTS** |  |
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| Model Accuracy |  |
| Model Uncertainty |  |
| Model Sensitivity |  |
| Plans for updating models |  |
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| **FUTURE CLIMATE PROJECTIONS** |  |
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| Are you projecting stream temperature under future climate scenarios? What is your approach? |  |
| What climate variables are you using? |  |
| What is your source and type of future climate data? |  |
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| **DATA MANAGEMENT** |  |
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| How do you manage your modeling data? Input? Results? |  |
| Do you plan to maintain and update your modeling data set? |  |
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| **ISSUES** |  |
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| What are some limitations of your model? |  |
| What are some factors that make it difficult to predict stream temperature in your area? |  |
| What are some other limiting factors that make it difficult to predict stream temperature? |  |
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| **APPLICATION** |  |
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| Who is your targeted user? |  |
| How might your results help inform the management community |  |
| How are your model results being used in applications and decision-making? |  |
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| **TECHNOLOGY TRANSFER** |  |
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| What methods of technology transfer have you used to deliver your results to the scientific and management communities? (i.e. reports, workshops, web pages, etc.) |  |
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| **DISCUSSION** |  |
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| What information from the fish modelers would be of greatest value for your stream temperature modeling effort? |  |
| What is the best way to communicate uncertainty in model results? |  |
| How might temperature model results be used to help protect brook trout? |  |
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