SPATIAL SCALING CHALLENGE

DESCRIPTION OF THE METHODS

This document provides the participant with a structured template to report the methods used to estimate each of the biophysical or physiological variables required by the Spatial Scaling Challenge. After completing your analysis, fill out this form briefly and concisely.

Then copy/move the completed document to the folder /3\_SCC\_results/ without modifying its name and execute the last part of any of the scripts provided (SSC\_script.py/m/R) to generate the compressed file to be sent to the Spatial Scaling Challenge organizers.

# DISCUSSION

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| **Vegetation status diagnosis** |
| \*From the data analyzed, what can you conclude about the observed vegetation’s health/stress/physiological status? (max. 250 words recommended)  *Answer here* |

# METHODS

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| **Leaf area index (*LAI*, [m2 m-2])** |
| \*Provide the name of the approach/method/algorithm used (add literature reference if applicable)  *Answer here* |
| \*Which type of method do you use? (Remove those that do not apply)  1: Statistical 2: Empirical 3: Semi-empirical/Hybrid 4: Physically-based 5: Other (*describe*) |
| \*Which are the input parameters or predictors of the algorithm?  *Answer here* |
| \*Briefly and concisely describe the method you used to predict this variable (and uncertainties if you did) with a formal style. This section might be included in the joint manuscript (max. 250 words recommended; add literature reference if applicable)  *Answer here* |

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| **Leaf chlorophyll content (*C*ab, [µg cm-2])** |
| \*Provide the name of the approach/method/algorithm used (add literature reference if applicable)  *Answer here* |
| \*Which type of method do you use? (Remove those that do not apply)  1: Statistical 2: Empirical 3: Semi-empirical/Hybrid 4: Physically-based 5: Other (*describe*) |
| \*Which are the input parameters or predictors of the algorithm?  *Answer here* |
| \*Briefly and concisely describe the method you used to predict this variable (and uncertainties if you did) with a formal style. This section might be included in the joint manuscript (max. 250 words recommended; add literature reference if applicable)  *Answer here* |

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| **Leaf maximum carboxylation rate at 25 ºC (*V*cmax,25, [µmol CO2 cm-2 s-1])** |
| \*Provide the name of the approach/method/algorithm used (add literature reference if applicable)  *Answer here* |
| \*Which type of method do you use? (Remove those that do not apply)  1: Statistical 2: Empirical 3: Semi-empirical/Hybrid 4: Physically-based 5: Other (*describe*) |
| \*Which are the input parameters or predictors of the algorithm?  *Answer here* |
| \*Briefly and concisely describe the method you used to predict this variable (and uncertainties if you did) with a formal style. This section might be included in the joint manuscript (max. 250 words recommended; add literature reference if applicable)  *Answer here* |

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| **Leaf non-photochemical quenching (*NPQ*, [-])** |
| \*Provide the name of the approach/method/algorithm used (add literature reference if applicable)  *Answer here* |
| \*Which type of method do you use? (Remove those that do not apply)  1: Statistical 2: Empirical 3: Semi-empirical/Hybrid 4: Physically-based 5: Other (*describe*) |
| \*Which are the input parameters or predictors of the algorithm?  *Answer here* |
| \*Briefly and concisely describe the method you used to predict this variable (and uncertainties if you did) with a formal style. This section might be included in the joint manuscript (max. 250 words recommended; add literature reference if applicable)  *Answer here* |