Natural Hazards
and Earth System
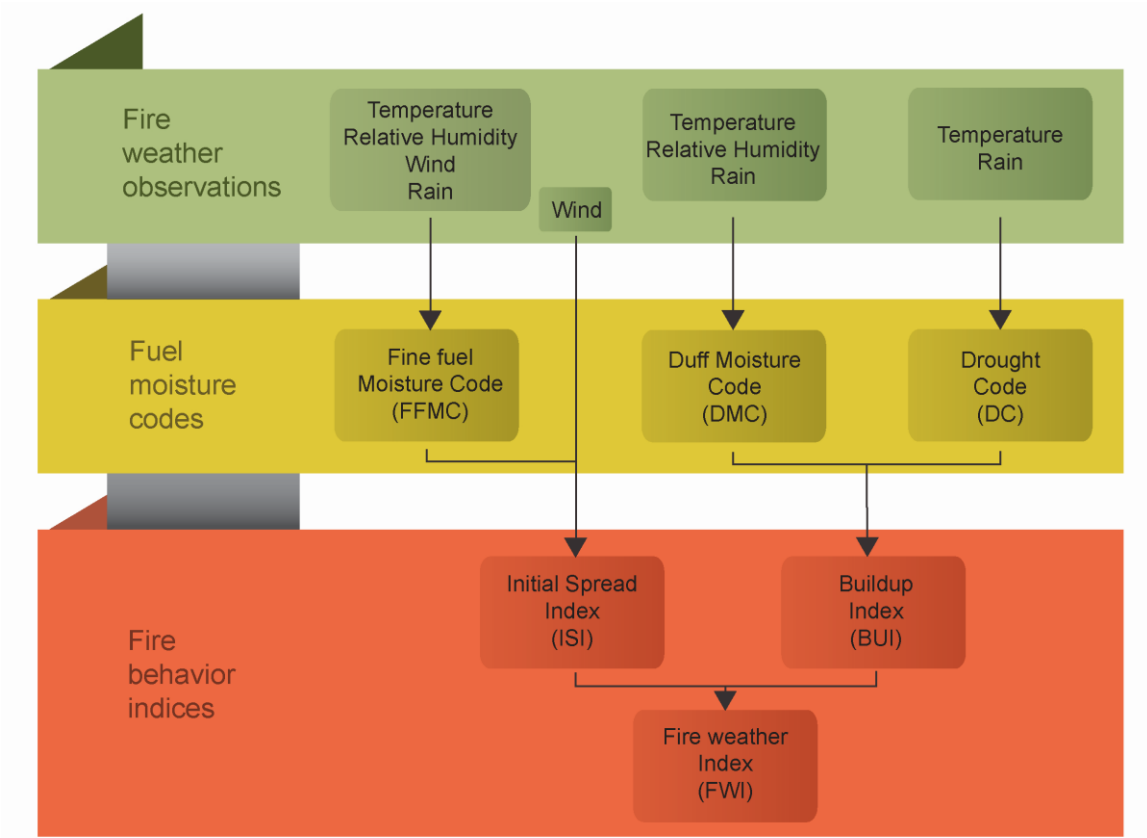Sciences

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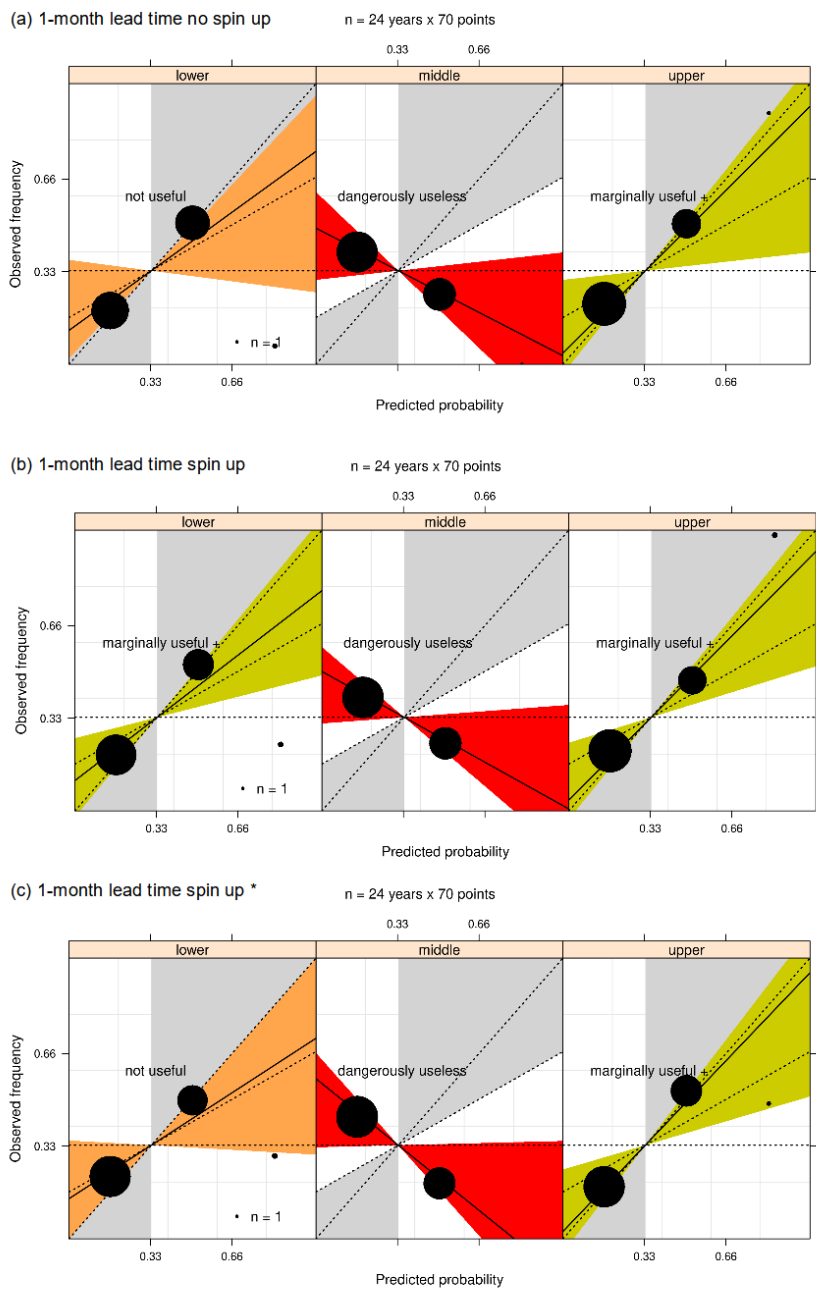
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Figure S1: Structure of the Fire Weather Index (FWI) System (adapted from Canadian Forestry Service, 1984).

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Figure S2: Reliability diagrams for each one of the FWI terciles (lower, middle, upper) for 1-month lead time predictions: (a) with no spin-up, (b) with spin-up using the SEAS5 model data and (c) with spin-up implanting the ERA5-Land data. The different colours correspond to the reliability categories proposed by Weisheimer and Palmer (2014) and further updated by Manzanas et al. (2018). The size of the points represents the number of forecasts falling in each bin. The perfect reliability (dashed diagonal line), no resolution (horizontal dashed line) and no skill (dashed line between the no-resolution line and the diagonal) lines and the skill region (in grey) are also indicated.

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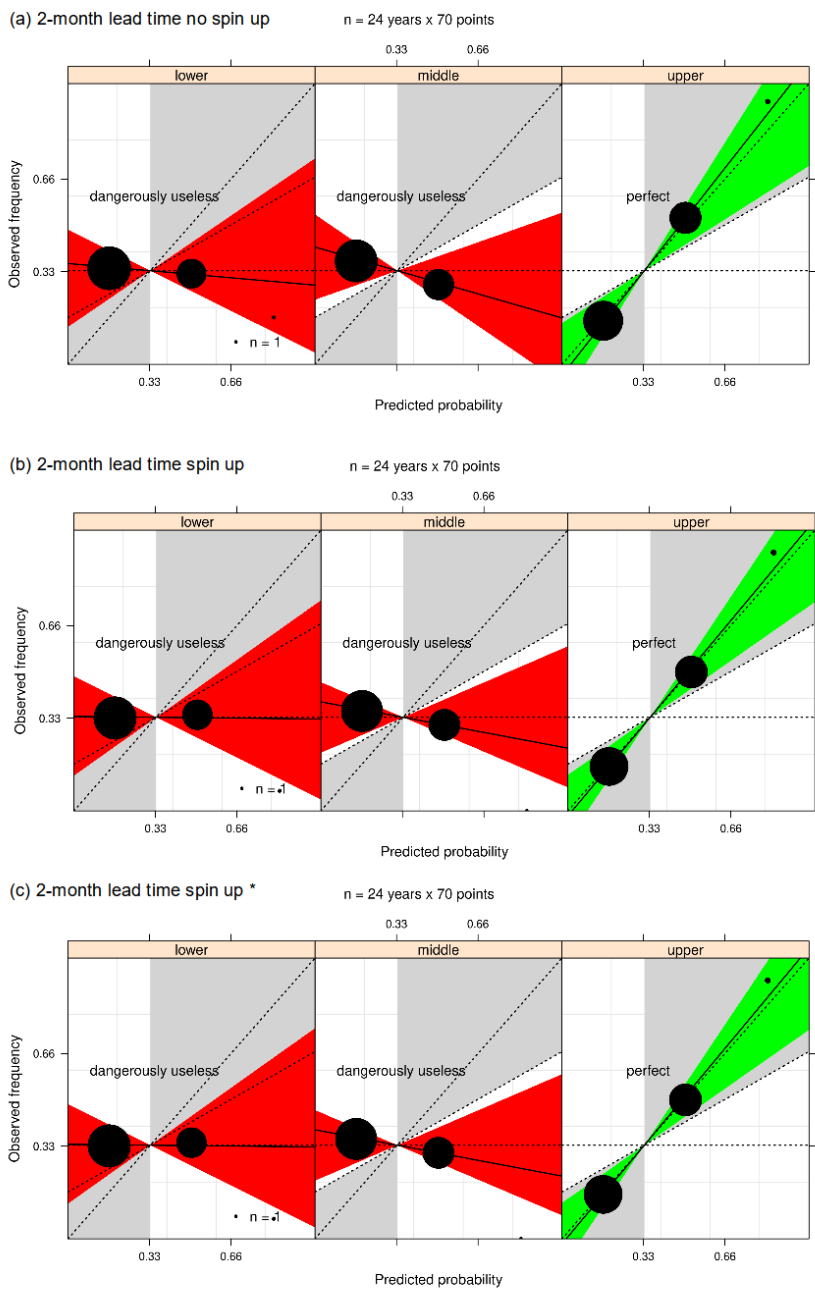
Figure S3: Same as Fig. S2 but for 2-month lead time FWI predictions.
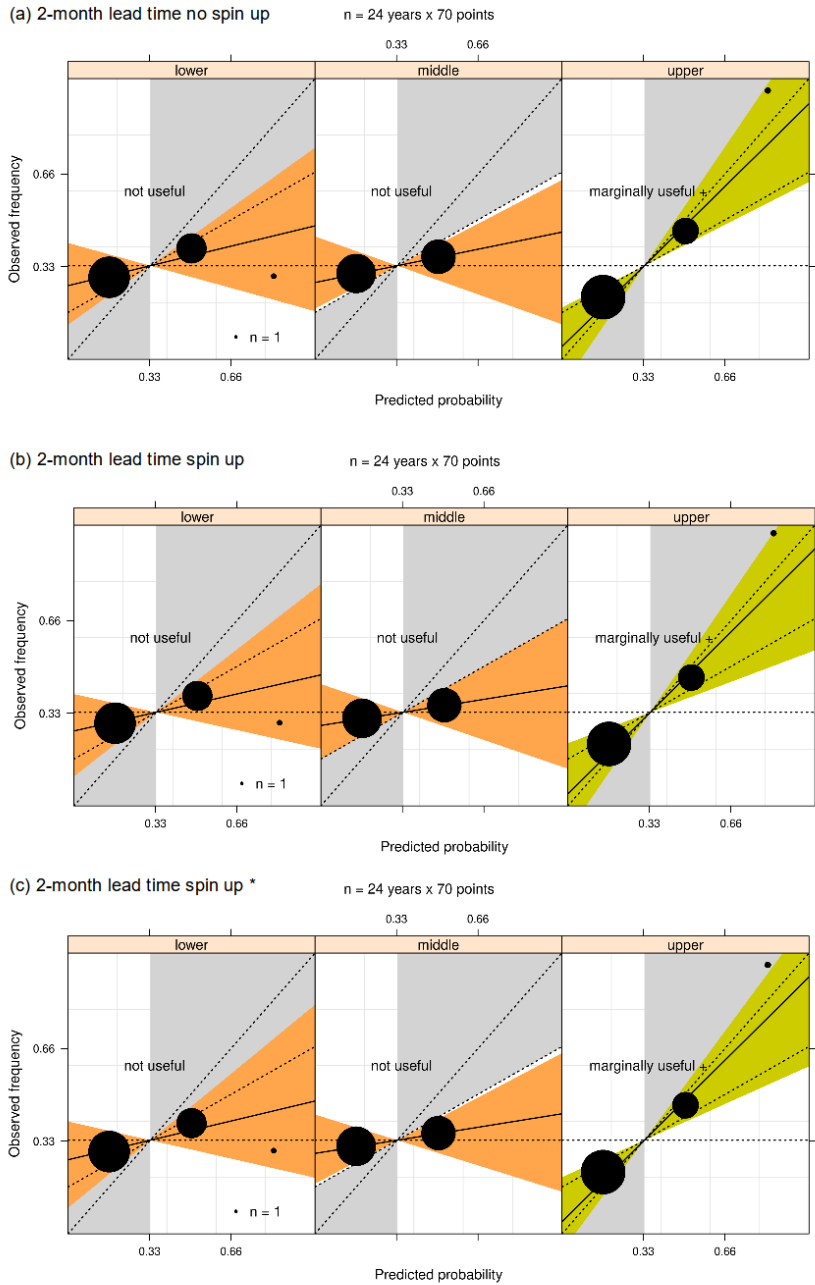
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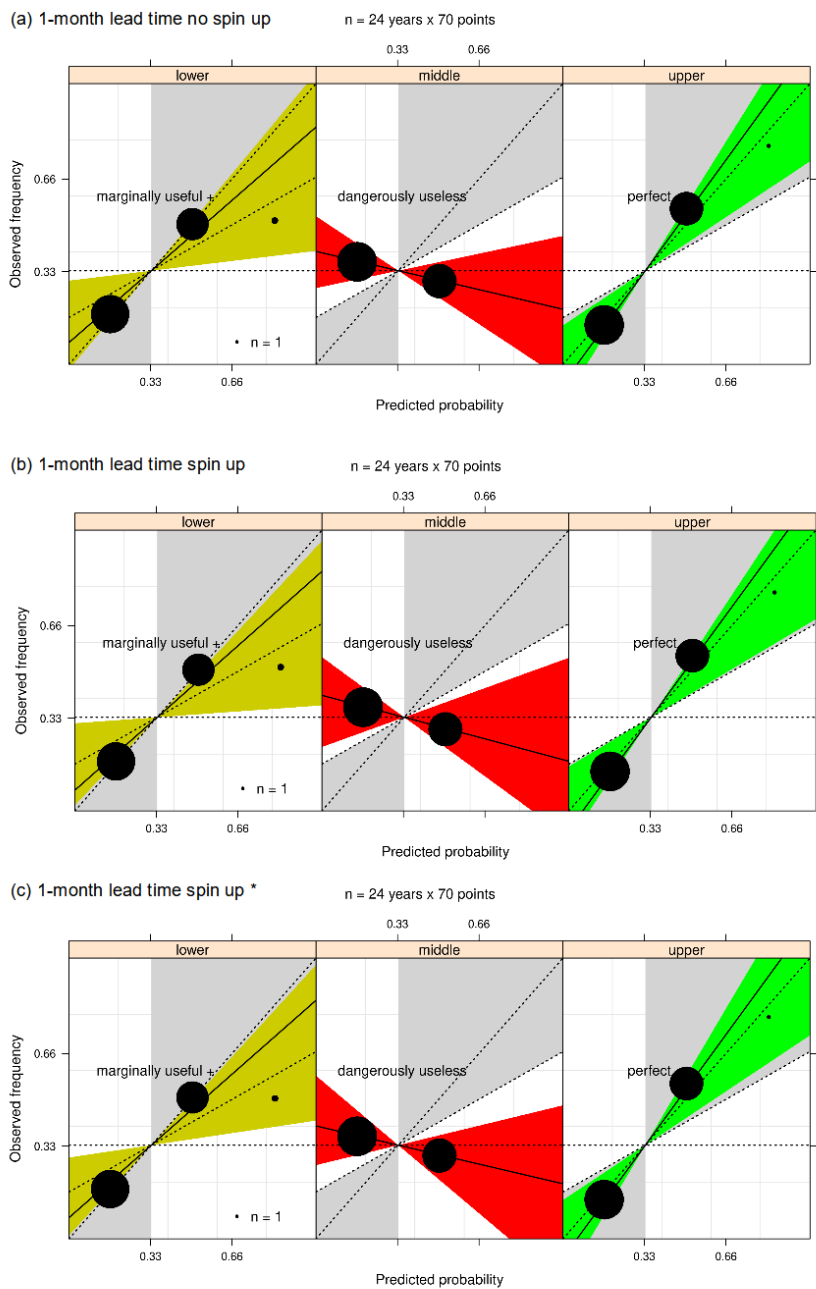
Figure S4: Reliability diagrams for each one of the ISI terciles (lower, middle, upper) for 1-month lead time predictions: (a) with no spin-up, (b) with spin-up using the SEAS5 model data and (c) with spin-up implanting the ERA5-Land data. The different colours correspond to the reliability categories proposed by Weisheimer and Palmer (2014) and further updated by Manzanas et al. (2018). The size of the points represents the number of forecasts falling in each bin. The perfect reliability (dashed diagonal line), no resolution (horizontal dashed line) and no skill (dashed line between the no-resolution line and the diagonal) lines and the skill region (in grey) are also indicated.

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(a) 2-month lead time no spin up   n = 24 years x 70 points

(b) 2-month lead time spin up   n = 24 years x 70 points

(c) 2-month lead time spin up *   n = 24 years x 70 points

Figure S5: Same as Fig. S4 but for 2-month lead time ISI predictions.
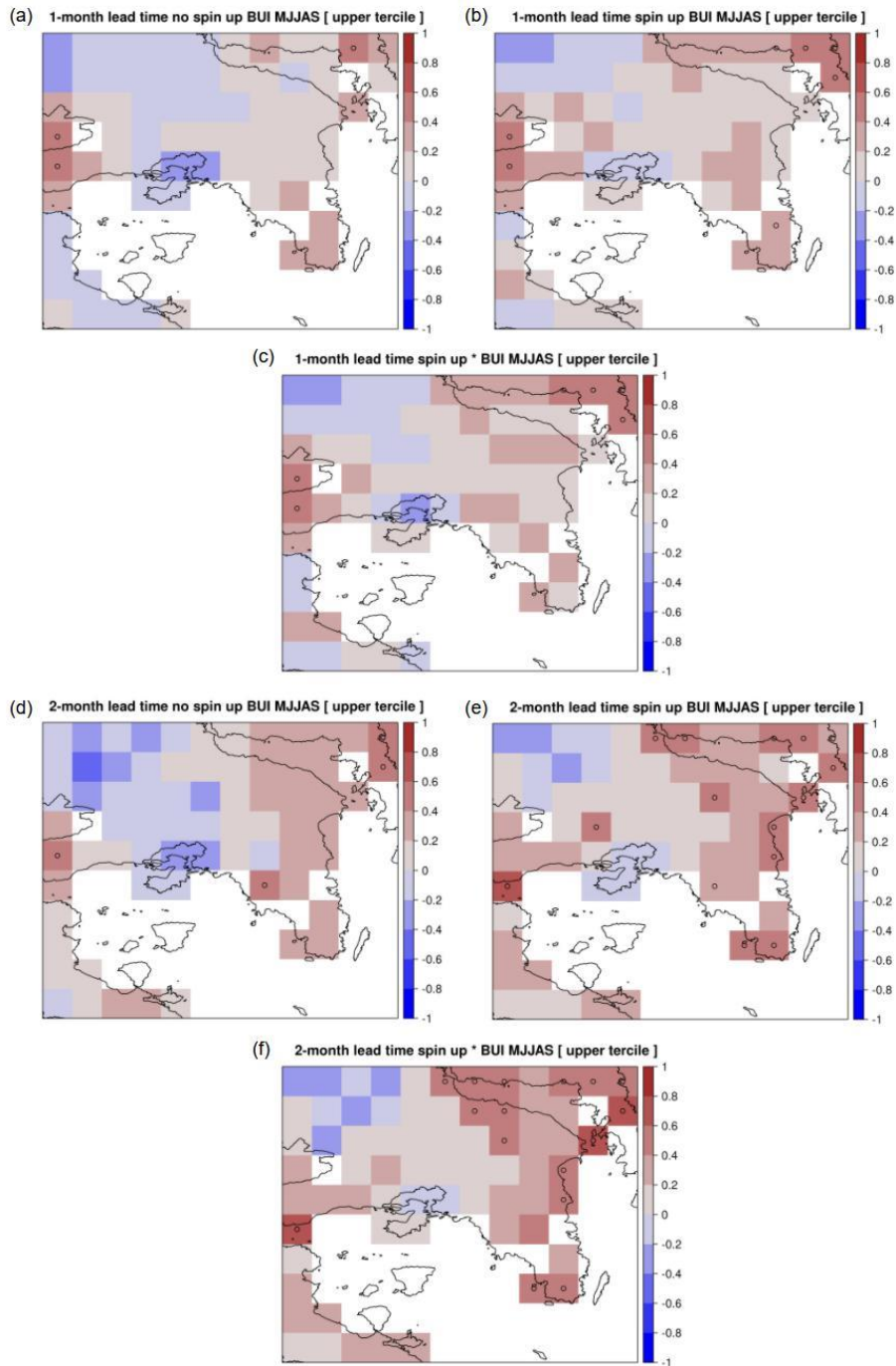
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Figure S6: ROC Skill Scores (ROCSSs) of the upper tercile SEAS5 BUI predictions for 1-month lead time: (a) with no spin up, b) with spin-up using the SEAS5 data, c) with spin-up implanting the ERA5-Land data and 2-month lead time: d) with no spin-up, e)

30   **with spin-up using the SEAS5 data and f) with spin-up implanting the ERA5-Land data. The grid points with significant ROCSS values are indicated by circles (α=0.05).**