

1 **Additional file 1**

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3 **Ecology of West Nile virus across four European countries: empirical modelling of the *Culex pipiens* abundance dynamics as a function of weather**

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20 **Table S1:** AIC scores for the different models

	Linear model with Temperature	(S)ARIMA	(S)ARIMA + Temperature	(S)ARIMA + Precipitation	(S)ARIMA + Relative Humidity	(S)ARIMA + Temperature and Precipitation	(S)ARIMA + Temperature and Relative humidity	(S)ARIMA + Precipitation and Relative humidity	(S)ARIMA + Temperature, Precipitation and Relative humidity
Camargue	-299.4	-378.6	-369.7	-373.8	NA	367.7	NA	NA	NA
Evros	-137.3	-178.6	-178.7	-172.1	-166.0	-180.4	-178.7	-164.1	-176.7
Thessaloniki	-474.9	-670.5	-660.3	-638.5	-655.6	-661.4	-255.2	-640.2	-648.3
Emilia Romagna	-851.1	-1182.2	-1125.8	-1122.7	-1126.8	-1123.8	-1128.5	-1124.8	-1126.5
Po Delta	-1319.8	-1838.3	-1792.4	-1786.8	1786.7	-1790.7	-1790.5	-1785.2	-1788.8
Serbia	-1203.7	-1631.7	-1574.5	-1577.9	-1576.2	-1577.4	-1576.3	-1578.1	-1579.8

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23 **Table S2:** MAE scores for the different models

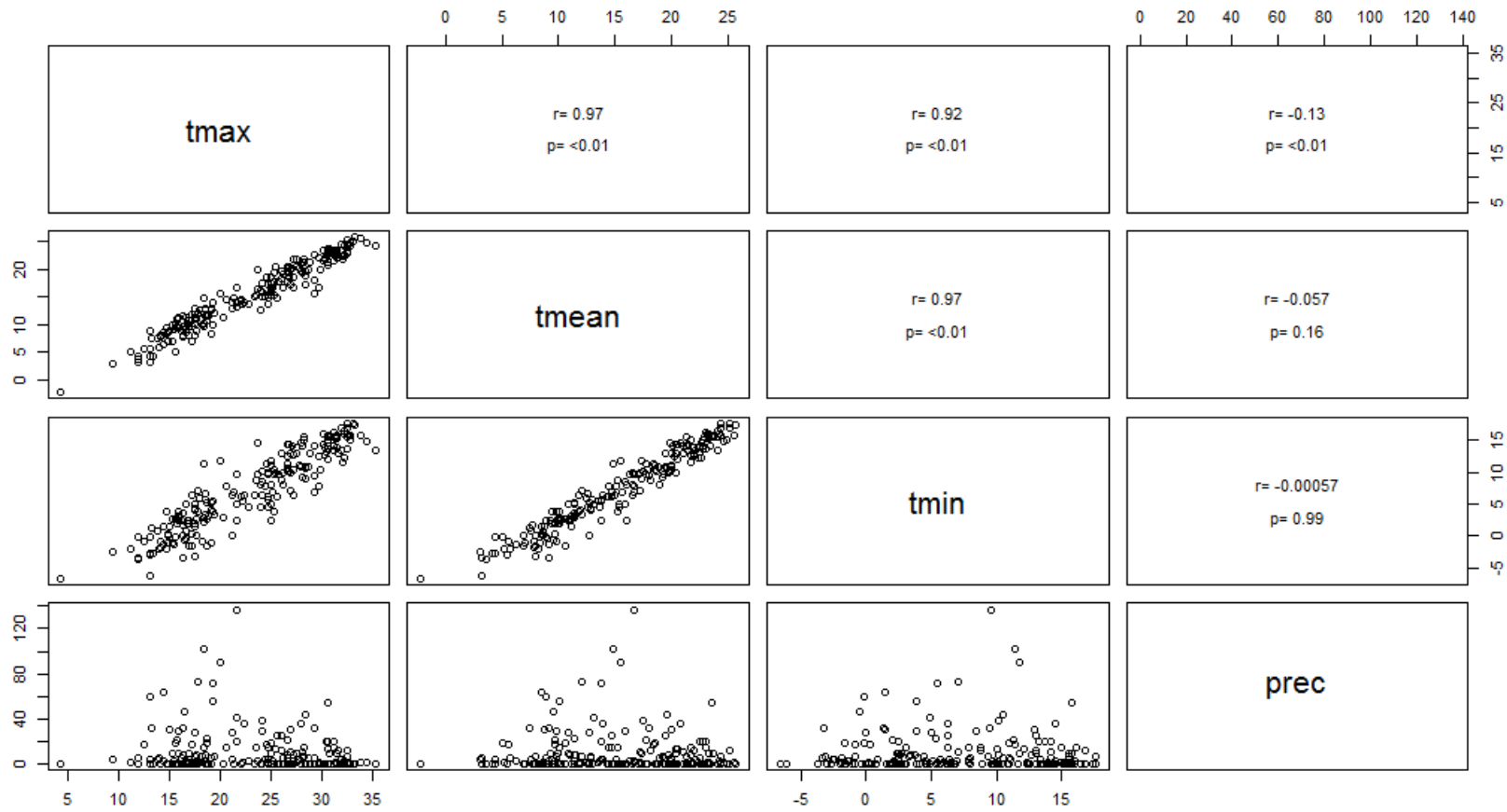
	Linear model with Temperature	(S)ARIMA (S)ARIMA	(S)ARIMA + Temperature	(S)ARIMA + Precipitation	(S)ARIMA + Relative Humidity	(S)ARIMA + Temperature and Precipitation	(S)ARIMA + Temperature and Relative humidity	(S)ARIMA + Precipitation and Relative humidity	(S)ARIMA + Temperature, Precipitation and Relative humidity
Camargue	0.076	0.086	0.086	0.086	NA	0.086	NA	NA	NA
Evros	0.068	0.086	0.088	0.086	0.091	0.087	0.088	0.091	0.088
Thessaloniki	0.048	0.050	0.049	0.050	0.048	0.050	0.053	0.050	0.052
Emilia Romagna	0.037	0.038	0.035	0.034	0.034	0.035	0.035	0.034	0.035
Po Delta	0.041	0.039	0.035	0.035	0.035	0.035	0.035	0.035	0.035
Serbia	0.038	0.029	0.029	0.028	0.029	0.029	0.029	0.028	0.029

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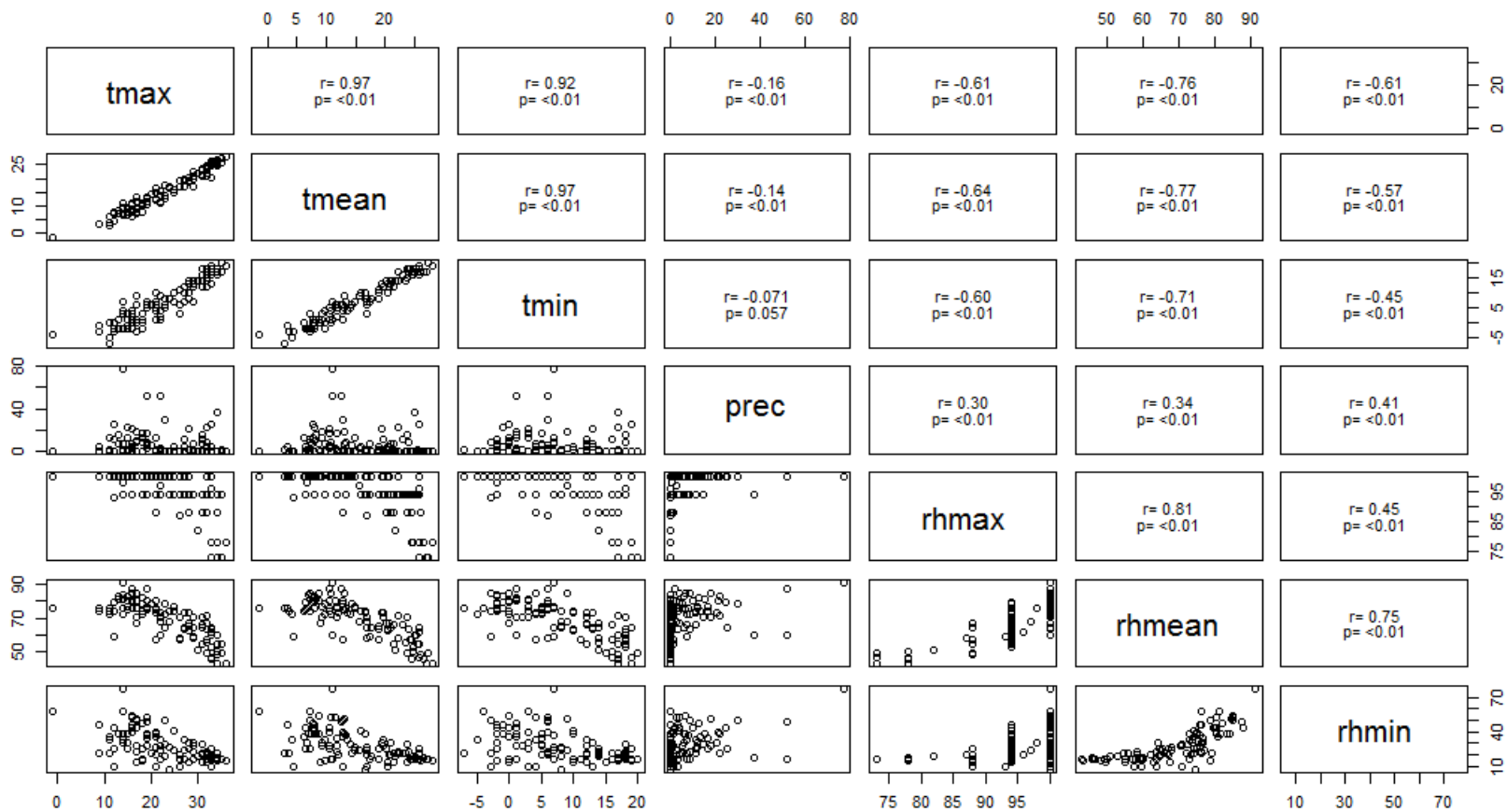
26 **Figure S1:** correlations between weather variables per functional unit (FU)

27 **France: Camargue**



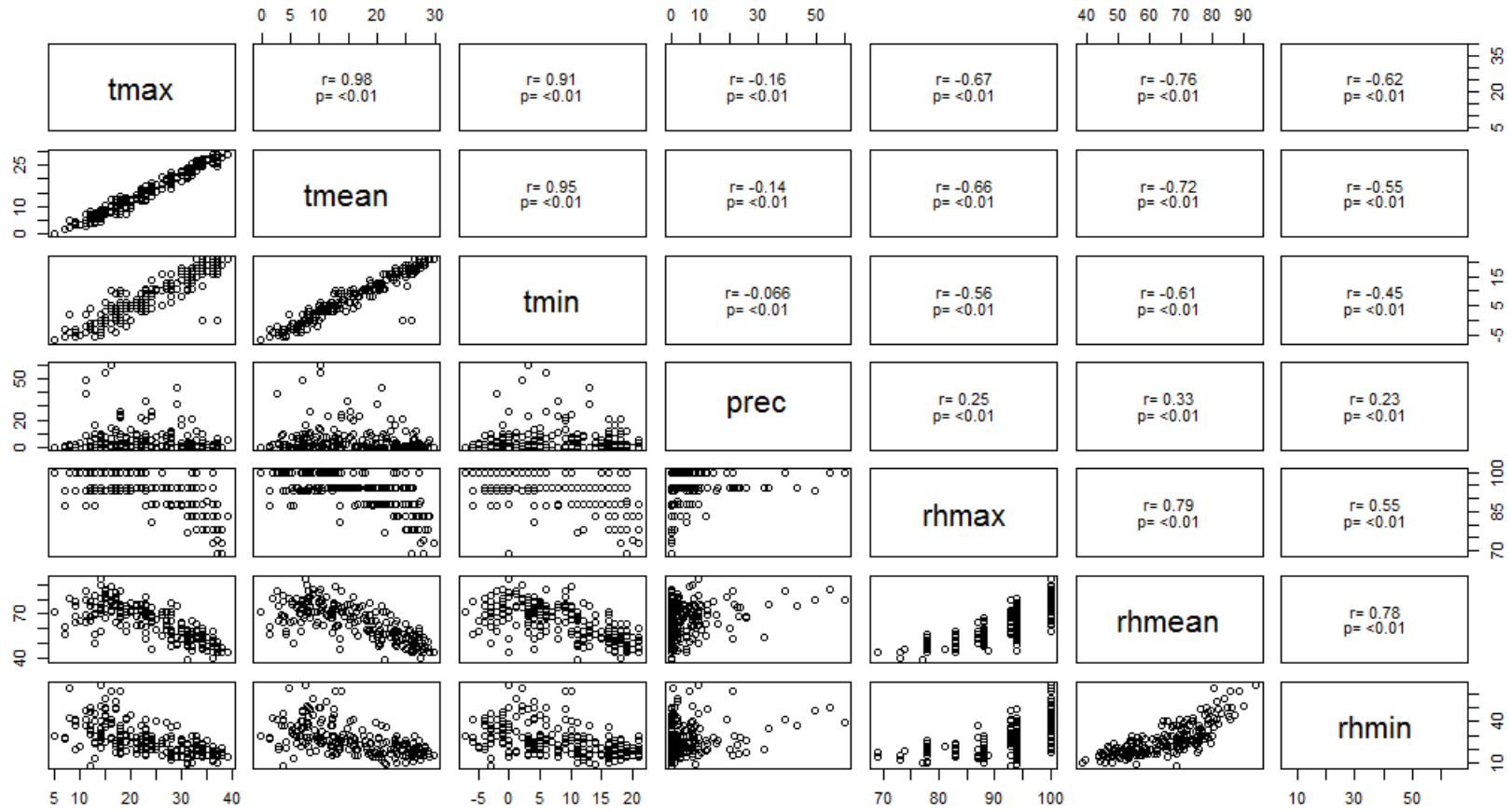
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29 Greece: Evros



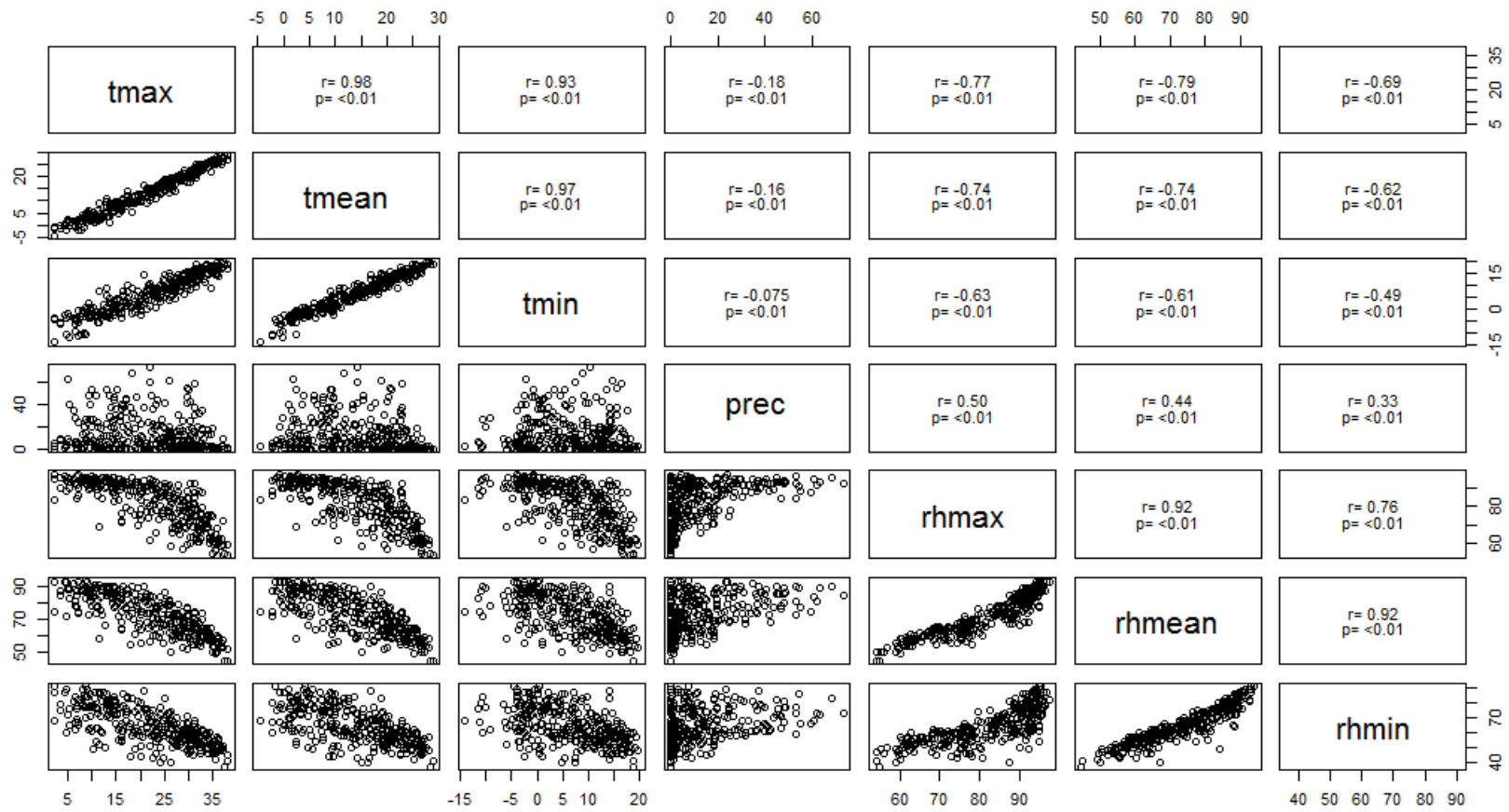
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31 Greece: Thessaloniki

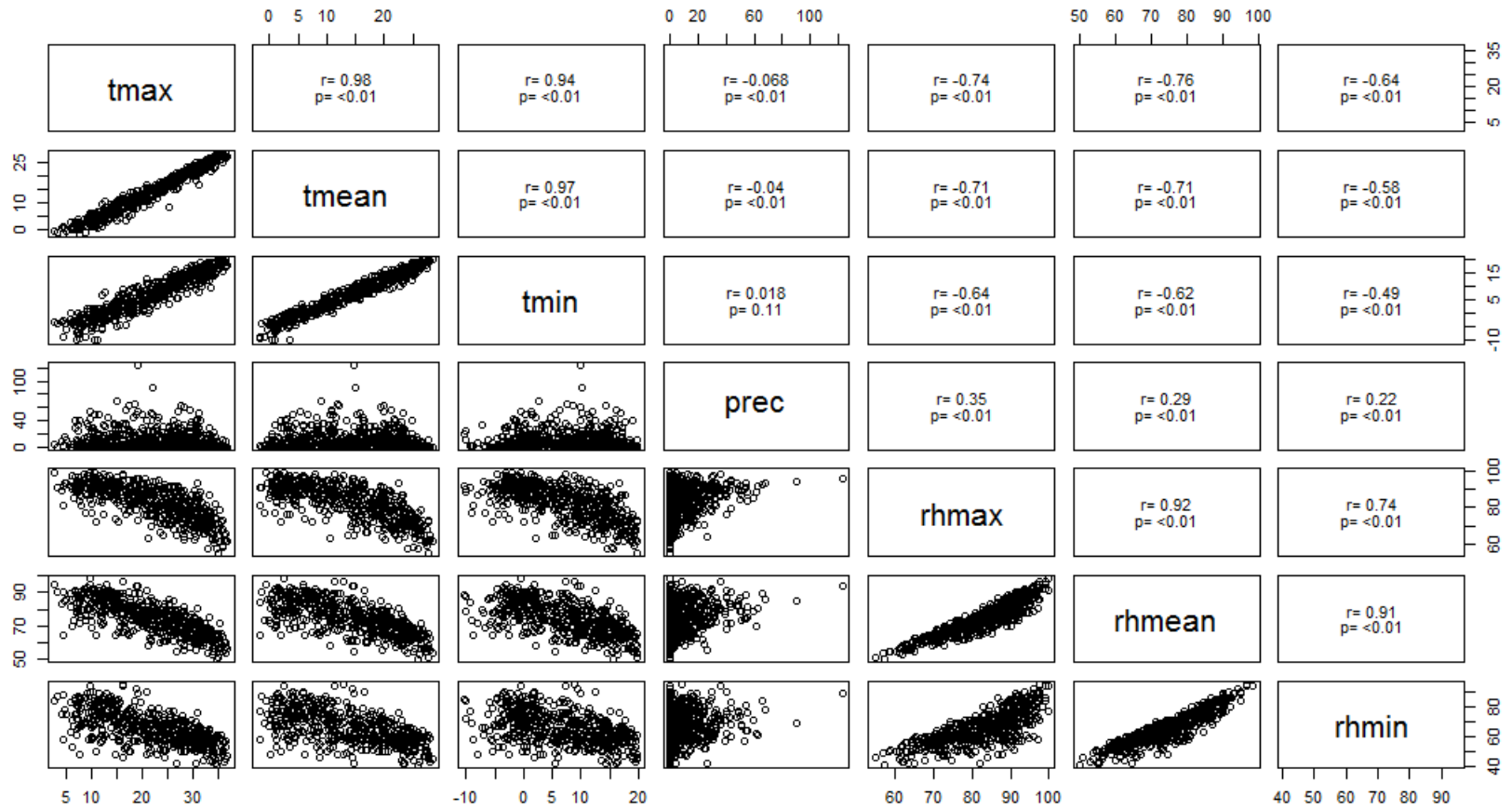


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33 Italy: Emilia Romagna



35 Italy: Po Delta

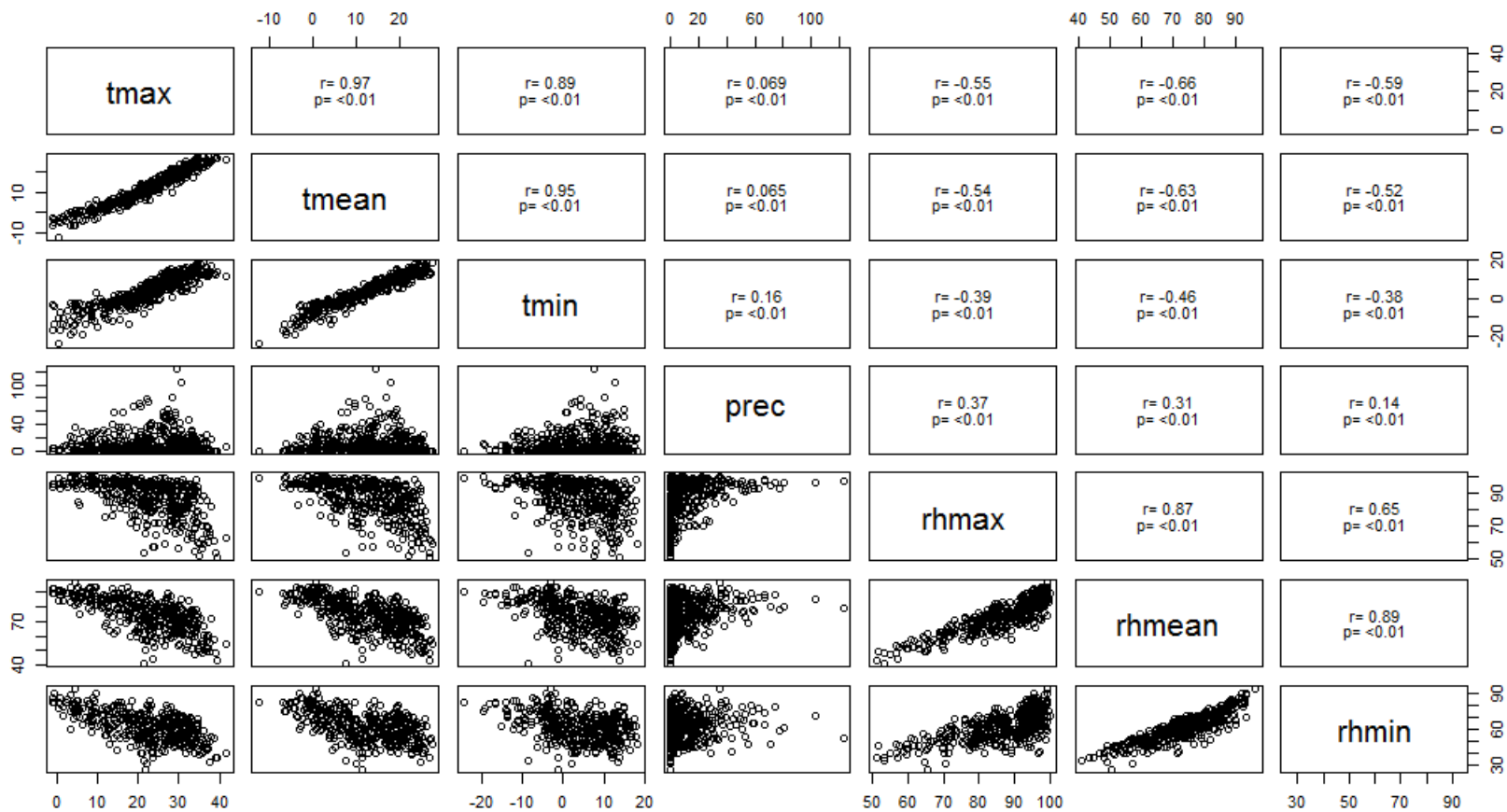


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38 Serbia: Novi Sad and surroundings



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