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Supplement of

Time series analysis of the long-term hydrologic impacts of afforestation in the Águeda watershed of north-central Portugal

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	Annual (Oct - Sep)						Wet Season (Oct - Jan)						Transitional Season (Feb - May)						Dry Season (Jun - Sep)																																																																																																																																																																																																																																																																													
	# Years	Test Period	Lower Bound	T.S. Trend	Upper Bound	M.K. Stg.	# Years	Test Period	Lower Bound	T.S. Trend	Upper Bound	M.K. Stg.	# Years	Test Period	Lower Bound	T.S. Trend	Upper Bound	M.K. Stg.	# Years	Test Period	Lower Bound	T.S. Trend	Upper Bound	M.K. Stg.																																																																																																																																																																																																																																																																								
	Precipitation (mm)	75	1936 to 2010	-11.4	-5.4	0.2	1,000	75	1936 to 2010	-5.3	-1.9	1.6	1,000	75	1936 to 2010	-8.0	-4.8	-1.5	0.234	75	1936 to 2010	-1.1	0.0	0.9	1,000	50	1936 to 1985	-9.7	2.2	12.9	1,000	50	1936 to 1985	-1.7	0.3	2.1	1,000	50	1961 to 2010	-24.4	-13.8	-3.5	0.078	50	1961 to 2010	-2.7	-0.8	1.2	1,000	35	1936 to 1970	-16.9	4.6	22.1	1,000	35	1936 to 1970	-11.2	2.6	19.3	1,000	35	1956 to 1990	-31.3	-13.1	7.2	1,000	35	1956 to 1990	-17.8	-6.4	1.3	0.565	35	1956 to 1990	-6.3	-2.4	1.1	1,000	35	1976 to 2010	-35.7	-16.6	3.1	0.280	35	1976 to 2010	-16.2	-3.5	9.5	1,000	35	1976 to 2010	-19.4	-11.3	-3.0	0.007	35	1976 to 2010	-3.1	0.5	3.8	1,000	25	1936 to 1960	-49.5	-11.7	21.9	1,000	25	1936 to 1960	-28.1	-10.3	14.3	1,000	25	1936 to 1960	-25.1	-1.3	27.3	1,000	25	1936 to 1960	-4.5	1.4	6.8	1,000	25	1946 to 1970	-13.7	18.7	50.9	1,000	25	1946 to 1970	-31.6	-14.4	6.8	1,000	25	1946 to 1970	-17.1	7.9	26.7	1,000	25	1946 to 1970	-2.2	2.6	7.2	1,000	25	1956 to 1980	-40.6	-6.8	29.5	1,000	25	1956 to 1980	-24.1	2.7	29.9	1,000	25	1956 to 1980	-20.3	-3.8	18.6	1,000	25	1956 to 1980	-10.2	-5.2	1.1	1,000	25	1966 to 1990	-53.1	-17.7	13.3	1,000	25	1966 to 1990	-25.6	6.7	35.9	1,000	25	1966 to 1990	-30.8	-11.2	7.5	1,000	25	1966 to 1990	-6.7	-1.9	2.9	1,000	25	1976 to 2000	-53.6	-20.9	20.0	1,000	25	1976 to 2000	-28.7	-1.5	16.2	1,000	25	1976 to 2000	-30.8	-14.3	0.8	0.039	25	1976 to 2000	-4.1	1.2	7.2	1,000	25	1986 to 2010	-34.9	-7.1	25.1	1,000	25	1986 to 2010	-22.5	-3.7	16.3	1,000	25	1986 to 2010	-15.5	-7.7	2.4	0.565	25	1986 to 2010	-6.9	-1.2	4.2	1,000																																									
Potential Evapotranspiration (mm)	75	1936 to 2010	-0.5	-0.1	0.3	1,000	75	1936 to 2010	-0.1	0.1	0.2	1,000	75	1936 to 2010	-0.3	-0.1	0.1	1,000	75	1936 to 2010	-0.4	-0.2	0.1	0.771	50	1936 to 1985	-1.9	-1.1	-0.3	0.208	50	1936 to 1985	-0.4	-0.1	0.2	1,000	50	1936 to 1985	-1.1	-0.8	-0.4	0.096	50	1936 to 1985	-0.8	-0.4	0.0	0.554	50	1961 to 2010	-0.1	0.6	1.2	0.396	50	1961 to 2010	0.0	0.2	0.5	1,000	50	1961 to 2010	0.0	0.4	0.7	0.180	50	1961 to 2010	-0.4	0.0	0.4	1,000	35	1936 to 1970	-2.0	-0.6	0.6	1,000	35	1936 to 1970	-0.4	0.1	0.6	1,000	35	1936 to 1970	-1.2	-0.4	0.2	0.499	35	1936 to 1970	-1.1	-0.5	0.1	0.509	35	1936 to 1970	-1.1	-0.5	0.3	0.771	35	1956 to 1990	-1.0	0.3	1.4	1,000	35	1956 to 1990	-0.3	0.2	0.7	1,000	35	1956 to 1990	-2.0	-0.2	0.6	1.1	0.771	35	1976 to 2010	-0.4	0.9	2.0	1,000	35	1976 to 2010	-0.3	0.3	0.6	1,000	35	1976 to 2010	0.2	0.7	1.2	0.129	35	1976 to 2010	-0.8	-0.2	0.5	1,000	25	1936 to 1960	-3.2	-0.1	2.7	1,000	25	1936 to 1960	-0.5	0.5	1.3	1,000	25	1936 to 1960	-1.3	0.0	1.2	1,000	25	1936 to 1960	-1.8	-0.6	1.0	1,000	25	1946 to 1970	-4.2	-2.2	0.0	0.396	25	1946 to 1970	-1.7	-0.9	0.0	1,000	25	1946 to 1970	-1.8	-1.0	0.0	0.180	25	1946 to 1970	-1.8	-0.7	0.4	0.958	25	1956 to 1980	-3.8	-2.0	-0.3	0.505	25	1956 to 1980	-0.9	-0.1	0.6	1,000	25	1956 to 1980	-2.1	-1.3	-0.6	0.020	25	1956 to 1980	-1.8	-0.6	0.5	0.554	25	1966 to 1990	-0.1	2.1	4.2	0.208	25	1966 to 1990	-0.6	0.4	1.4	0.928	25	1966 to 1990	0.0	1.0	2.1	0.118	25	1976 to 2000	1.0	2.9	5.2	0.050	25	1976 to 2000	-0.1	0.7	1.6	1,000	25	1976 to 2000	0.9	1.7	2.7	0.002	25	1976 to 2000	-0.9	0.0	1.4	1,000	25	1986 to 2010	-3.3	-1.2	0.9	0.396	25	1986 to 2010	-1.0	-0.3	0.3	1,000	25	1986 to 2010	-1.0	0.0	0.9	1,000	25	1986 to 2010	-2.0	-0.9	0.4	0.771					
Streamflow (mm)	75	1936 to 2010	-5.2	-1.7	2.1	1,000	75	1936 to 2010	-2.1	-0.1	2.0	1,000	75	1936 to 2010	-4.2	-1.8	0.3	1,000	75	1936 to 2010	NA	NA	NA	NA	50	1936 to 1985	-3.3	3.6	9.5	1,000	50	1936 to 1985	-2.8	0.9	4.7	1,000	50	1936 to 1985	-2.7	1.7	5.4	1,000	50	1936 to 1985	NA	NA	NA	NA	50	1961 to 2010	-14.5	-8.0	-1.8	1,000	50	1961 to 2010	-7.4	-2.4	1.4	1,000	50	1961 to 2010	-7.7	-4.9	-1.6	0.533	50	1961 to 2010	NA	NA	NA	NA	35	1936 to 1970	-9.0	3.4	16.0	1,000	35	1936 to 1970	-7.6	0.3	8.1	1,000	35	1936 to 1970	-6.1	2.7	10.3	1,000	35	1936 to 1970	NA	NA	NA	NA	35	1956 to 1990	-16.6	-4.8	5.3	1,000	35	1956 to 1990	-9.6	-1.8	5.2	1,000	35	1956 to 1990	-8.3	-3.3	1.8	1,000	35	1956 to 1990	NA	NA	NA	NA	35	1976 to 2010	-24.2	-12.8	-0.3	1,000	35	1976 to 2010	-11.1	-2.2	3.6	1,000	35	1976 to 2010	-13.4	-6.7	-1.5	1,000	35	1976 to 2010	NA	NA	NA	NA	25	1936 to 1960	-28.4	-10.0	6.9	1,000	25	1936 to 1960	-18.0	-9.4	-0.5	1,000	25	1936 to 1960	-19.3	-0.8	13.0	1,000	25	1936 to 1960	NA	NA	NA	NA	25	1946 to 1970	-2.4	17.8	40.1	1,000	25	1946 to 1970	-2.0	10.6	22.2	1,000	25	1946 to 1970	-4.5	6.3	17.2	1,000	25	1946 to 1970	NA	NA	NA	NA	25	1956 to 1980	-13.8	6.5	24.7	1,000	25	1956 to 1980	-15.1	-0.3	12.1	1,000	25	1956 to 1980	-4.9	2.9	15.9	1,000	25	1956 to 1980	NA	NA	NA	NA	25	1966 to 1990	-30.6	-8.1	7.9	1,000	25	1966 to 1990	-17.8	-4.0	6.5	1,000	25	1966 to 1990	-19.2	-6.7	2.2	1,000	25	1966 to 1990	NA	NA	NA	NA	25	1976 to 2000	-41.0	-15.7	5.7	1,000	25	1976 to 2000	-14.8	-1.1	12.2	1,000	25	1976 to 2000	-25.0	-11.2	0.1	1,000	25	1976 to 2000	NA	NA	NA	NA	25	1986 to 2010	-16.0	0.0	15.2	1,000	25	1986 to 2010	-11.1	1.6	14.1	1,000	25	1986 to 2010	-9.3	-3.1	3.4	1,000	25	1986 to 2010	NA	NA	NA	NA
Streamflow Yield (%)	75	1936 to 2010	-5.2	-1.7	2.1	1,000	75	1936 to 2010	-2.1	-0.1	2.0	1,000	75	1936 to 2010	-4.2	-1.8	0.3	1,000	75	1936 to 2010	NA	NA	NA	NA	50	1936 to 1985	-3.3	3.6	9.5	1,000	50	1936 to 1985	-2.8	0.9	4.7	1,000	50	1936 to 1985	-2.7	1.7	5.4	1,000	50	1936 to 1985	NA	NA	NA	NA	50	1961 to 2010	-14.5	-8.0	-1.8	1,000	50	1961 to 2010	-7.4	-2.4	1.4	1,000	50	1961 to 2010	-7.7	-4.9	-1.6	0.533	50	1961 to 2010	NA	NA	NA	NA	35	1936 to 1970	-9.0	3.4	16.0	1,000	35	1936 to 1970	-7.6	0.3	8.1	1,000	35	1936 to 1970	-6.1	2.7	10.3	1,000	35	1936 to 1970	NA	NA	NA	NA	35	1956 to 1990	-16.6	-4.8	5.3	1,000	35	1956 to 1990	-9.6	-1.8	5.2	1,000	35	1956 to 1990	-8.3	-3.3	1.8	1,000	35	1956 to 1990	NA	NA	NA	NA	35	1976 to 2010	-24.2	-12.8	-0.3	1,000	35	1976 to 2010	-11.1	-2.2	3.6	1,000	35	1976 to 2010	-13.4	-6.7	-1.5	1,000	35	1976 to 2010	NA	NA	NA	NA	25	1936 to 1960	-28.4	-10.0	6.9	1,000	25	1936 to 1960	-18.0	-9.4	-0.5	1,000	25	1936 to 1960	-19.3	-0.8	13.0	1,000	25	1936 to 1960	NA	NA	NA	NA	25	1946 to 1970	-2.4	17.8	40.1	0.570	25	1946 to 1970	-2.0	10.6	22.2	0.179	25	1946 to 1970	-4.5	6.3	17.2	0.784	25	1946 to 1970	NA	NA	NA	NA	25	1956 to 1980	-13.8	6.5	24.7	1,000	25	1956 to 1980	-15.1	-0.3	12.1	1,000	25	1956 to 1980	-4.9	2.9	15.9	1,000	25	1956 to 1980	NA	NA	NA	NA	25	1966 to 1990	-30.6	-8.1	7.9	1,000	25	1966 to 1990	-17.8	-4.0	6.5	1,000	25	1966 to 1990	-19.2	-6.7	2.2	1,000	25	1966 to 1990	NA	NA	NA	NA	25	1976 to 2000	-41.0	-15.7	5.7	1,000	25	1976 to 2000	-14.8	-1.1	12.2	1,000	25	1976 to 2000	-25.0	-11.2	0.1	1,000	25	1976 to 2000	NA	NA	NA	NA	25	1986 to 2010	-16.0	0.0	15.2	1,000	25	1986 to 2010	-11.1	1.6	14.1	1,000	25	1986 to 2010	-9.3	-3.1	3.4	1,000	25	1986 to 2010	NA	NA	NA	NA
Baseflow (mm)	75	1936 to 2010	-3.4	-1.4	0.8	1,000	75	1936 to 2010	-1.2	-0.1	1.0	1,000	75	1936 to 2010	-2.7	-1.2	0.1	1,000	75	1936 to 2010	NA	NA	NA	NA	50	1936 to 1985	-2.1	2.3	5.5	1,000	50	1936 to 1985	-1.3	0.7	2.8	1,000	50	1936 to 1985	-1.5	0.9	3.3	1,000	50	1936 to 1985	NA	NA	NA	NA	50	1961 to 2010	-8.4	-6.1	-2.7	0.472	50	1961 to 2010	-4.8	-1.7	0.1	1,000	50	1961 to 2010	-5.1	-3.3	-1.3	0.472	50	1961 to 2010	NA	NA	NA	NA	35	1936 to 1970	-4.5	2.7	10.2	1,000	35	1936 to 1970	-3.3	0.8	5.0	1,000	35	1936 to 1970	-3.1	1.8	6.1	1,000	35	1936 to 1970	NA	NA	NA	NA	35	1956 to 1990	-11.8	-4.9	1.3	1,000	35	1956 to 1990	-6.2	-1.9	1.9	1,000	35	1956 to 1990	-5.5	-2.4	0.6	1,000	35	1956 to 1990	NA	NA	NA	NA	35	1976 to 2010	-13.5	-8.3	-1.0	1,000	35	1976 to 2010	-6.3	-1.4	1.8	1,000	35	1976 to 2010	-8.9	-4.0	-0.7	1,000	35	1976 to 2010	NA	NA	NA	NA	25	1936 to 1960	-17.4	-5.6	5.6	1,000	25	1936 to 1960	-8.4	-4.1	0.6	1,000	25	1936 to 1960	-12.0	0.0	7.1	1,000	25	1936 to 1960	NA	NA	NA	NA	25	1946 to 1970	-0.2	12.0	23.3	1,00																																																																																																																		