Wet-dry hydroclimatic pressure and thermal intensification in contrasting Peruvian basins

Ramirez, Jamil; Velarde, Luis; Berrocal, Becky
jamil_ramirez.m@hotmail.com

Supplementary Tables S1-S8

General notes. MK = Mann-Kendall; CDD = consecutive dry days; DTR = diurnal temperature range; R95pTOT = annual precipitation from very wet days; Rx1day = annual maximum 1-day precipitation; Rx5day = annual maximum consecutive 5-day precipitation; SDII = simple daily intensity index; SPI = Standardized Precipitation Index. Values are reported to four decimal places where appropriate; very small p-values are shown in scientific notation.

Table S1. Hydroclimatic trends by basin and data product over 1981-2025.

Identification				Trend magnitude			Corrected Mann-Kendall				Diagnostic
Basin	Product	Indicator	Record	Median	Slope / decade	Relative change / decade (%)	Kendall's τ	MK Z (corrected)	Adjusted p	Variance correction	Autocorr. changed significance?
AZA - Azángaro	CHIRPS	CDD (days)	45 y; 1981-2025	32	-1.5707	-4.9085	-0.1657	-1.5976	0.3304	1	No
AZA - Azángaro	CHIRPS	R95pTOT (mm/year)	45 y; 1981-2025	146.801	29.2931	19.9543	0.2788	1.5657	0.1761	2.9521	Yes
AZA - Azángaro	CHIRPS	Rx1day (mm)	45 y; 1981-2025	22.3988	1.3095	5.8464	0.2101	2.5556	0.0159	0.6278	No
AZA - Azángaro	CHIRPS	Rx5day (mm)	45 y; 1981-2025	51.3056	3.35	6.5294	0.2727	3.799	0.0004	0.4798	No
AZA - Azángaro	CHIRPS	SDII (mm/wet day)	45 y; 1981-2025	4.5986	0.1382	3.006	0.1758	1.0977	0.4085	2.377	No
AZA - Azángaro	CHIRPS	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.5066	0.2931	57.8543	0.2748	1.9768	0.0865	1.7562	No
AZA - Azángaro	CHIRPS	SPI-3 drought duration (months)	44 y; 1982-2025	1	0	0	-0.1987	-1.9674	0.1462	1	No
AZA - Azángaro	CHIRPS	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1.5	-0.2817	-18.7831	-0.2051	-2.0258	0.1284	1	Yes
AZA - Azángaro	CHIRPS	Annual precipitation (mm/year)	45 y; 1981-2025	805.1535	36.1661	4.4918	0.2283	1.7524	0.1195	1.5775	Yes
AZA - Azángaro	PISCO	CDD (days)	45 y; 1981-2025	86	0.2571	0.2989	0.0101	0.1129	0.9101	0.6092	No
AZA - Azángaro	PISCO	R95pTOT (mm/year)	45 y; 1981-2025	96.3604	2.1212	2.2013	0.0505	0.3849	0.7003	1.5507	No
AZA - Azángaro	PISCO	Rx1day (mm)	45 y; 1981-2025	15.5814	0.5832	3.743	0.2121	2.0445	0.0614	1	No
AZA - Azángaro	PISCO	Rx5day (mm)	45 y; 1981-2025	43.3591	-0.1222	-0.2819	-0.0202	-0.1859	0.8526	1	No
AZA - Azángaro	PISCO	SDII (mm/wet day)	45 y; 1981-2025	3.8927	0.0193	0.4964	0.0505	0.8931	0.3718	0.2881	No
AZA - Azángaro	PISCO	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.5388	0.0904	16.7734	0.0782	0.5866	0.5575	1.5844	No
AZA - Azángaro	PISCO	SPI-3 drought duration (months)	44 y; 1982-2025	1	0	0	-0.1512	-1.5108	0.1962	1	No
AZA - Azángaro	PISCO	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1	0	0	-0.1723	-1.7177	0.1288	1	No
AZA - Azángaro	PISCO	Annual precipitation (mm/year)	45 y; 1981-2025	673.1303	13.5024	2.0059	0.1091	1.0467	0.3796	1	No
AZA - Azángaro	ERA5-Land	CDD (days)	45 y; 1981-2025	19	2.4662	12.9801	0.296	2.8638	0.0188	1	No
AZA - Azángaro	ERA5-Land	DTR (°C)	45 y; 1981-2025	11.3245	0.1394	1.2307	0.3051	2.9445	0.0146	1	No
AZA - Azángaro	ERA5-Land	R95pTOT (mm/year)	45 y; 1981-2025	212.4604	-0.3348	-0.1576	-0.0061	-0.0489	0.961	1	No
AZA - Azángaro	ERA5-Land	Rx1day (mm)	45 y; 1981-2025	22.5022	0.0679	0.3019	0.0121	0.1416	0.8988	0.5773	No
AZA - Azángaro	ERA5-Land	Rx5day (mm)	45 y; 1981-2025	64.3123	0.1891	0.294	0.0222	0.2054	0.8372	1	No
AZA - Azángaro	ERA5-Land	SDII (mm/wet day)	45 y; 1981-2025	5.4952	0.0326	0.5938	0.0687	0.6891	0.631	0.9048	No
AZA - Azángaro	ERA5-Land	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.7054	-0.1934	-27.4145	-0.1628	-1.5475	0.47	1	No

AZA - Azángaro	ERA5-Land	SPI-3 drought duration (months)	44 y; 1982-2025	1	0	0	0.1131	1.1096	0.8015	1	No
AZA - Azángaro	ERA5-Land	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1	0	0	0.1268	1.2407	0.6441	1	No
AZA - Azángaro	ERA5-Land	Tmax (°C)	45 y; 1981-2025	10.5505	0.3333	3.1591	0.5232	5.0575	6.3732e-7	1	No
AZA - Azángaro	ERA5-Land	Tmean (°C)	45 y; 1981-2025	4.4354	0.2826	6.3718	0.5434	5.2531	1.9229e-7	1	No
AZA - Azángaro	ERA5-Land	Tmin (°C)	45 y; 1981-2025	-0.7731	0.1956	25.3035	0.5152	4.9792	8.2089e-7	1	No
AZA - Azángaro	ERA5-Land	Annual precipitation (mm/year)	45 y; 1981-2025	1400.1887	-33.1414	-2.3669	-0.2	-1.9271	0.2428	1	No
CHL - Chancay-Lambayeque	CHIRPS	CDD (days)	45 y; 1981-2025	28	-0.9091	-3.2468	-0.1131	-1.088	0.4382	1	No
CHL - Chancay-Lambayeque	CHIRPS	R95pTOT (mm/year)	45 y; 1981-2025	63.2999	3.8369	6.0614	0.0889	0.8511	0.4441	1	No
CHL - Chancay-Lambayeque	CHIRPS	Rx1day (mm)	45 y; 1981-2025	21.785	0.8218	3.7723	0.1051	1.0076	0.3137	1	No
CHL - Chancay-Lambayeque	CHIRPS	Rx5day (mm)	45 y; 1981-2025	43.8004	3.3316	7.6062	0.2545	2.4554	0.0202	1	No
CHL - Chancay-Lambayeque	CHIRPS	SDII (mm/wet day)	45 y; 1981-2025	4.4596	-0.0116	-0.2603	-0.0141	-0.1433	0.8861	0.7877	No
CHL - Chancay-Lambayeque	CHIRPS	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.7357	0.1656	22.5103	0.2072	1.5642	0.1514	1.5899	Yes
CHL - Chancay-Lambayeque	CHIRPS	SPI-3 drought duration (months)	44 y; 1982-2025	1	0	0	-0.0772	-0.7557	0.4498	1	No
CHL - Chancay-Lambayeque	CHIRPS	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1	0	0	-0.1163	-1.131	0.3027	1	No
CHL - Chancay-Lambayeque	CHIRPS	Annual precipitation (mm/year)	45 y; 1981-2025	423.5002	12.9521	3.0583	0.1455	1.3989	0.2081	1	No
CHL - Chancay-Lambayeque	PISCO	CDD (days)	45 y; 1981-2025	54	-0.8712	-1.6134	-0.0263	-0.2447	0.9101	1	No
CHL - Chancay-Lambayeque	PISCO	R95pTOT (mm/year)	45 y; 1981-2025	64.715	23.4387	36.2184	0.2576	2.4848	0.0328	1	No
CHL - Chancay-Lambayeque	PISCO	Rx1day (mm)	45 y; 1981-2025	20.1195	2.4274	12.0647	0.2444	3.7006	0.001	0.4059	No
CHL - Chancay-Lambayeque	PISCO	Rx5day (mm)	45 y; 1981-2025	56.2929	6.4444	11.448	0.2121	2.0445	0.1227	1	No
CHL - Chancay-Lambayeque	PISCO	SDII (mm/wet day)	45 y; 1981-2025	3.6734	0.3148	8.5709	0.3838	3.7075	0.0009	1	No
CHL - Chancay-Lambayeque	PISCO	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.7022	0.1369	19.493	0.1966	1.465	0.2135	1.6314	No
CHL - Chancay-Lambayeque	PISCO	SPI-3 drought duration (months)	44 y; 1982-2025	1	0	0	-0.0021	-0.0106	0.9916	1	No
CHL - Chancay-Lambayeque	PISCO	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1	0	0	-0.0211	-0.2857	0.7751	0.4856	No
CHL - Chancay-Lambayeque	PISCO	Annual precipitation (mm/year)	45 y; 1981-2025	575.2721	39.287	6.8293	0.202	1.9467	0.116	1	No
CHL - Chancay-Lambayeque	ERA5-Land	CDD (days)	45 y; 1981-2025	18	0	0	-0.002	-0.0098	0.9922	1	No
CHL - Chancay-Lambayeque	ERA5-Land	DTR (°C)	45 y; 1981-2025	7.7668	0.0334	0.4307	0.1192	1.3199	0.2403	0.752	No
CHL - Chancay-Lambayeque	ERA5-Land	R95pTOT (mm/year)	45 y; 1981-2025	215.45	-14.1065	-6.5474	-0.0949	-1.5415	0.4856	0.3483	No
CHL - Chancay-Lambayeque	ERA5-Land	Rx1day (mm)	45 y; 1981-2025	31.0033	-0.3135	-1.0111	-0.0141	-0.1272	0.8988	1	No
CHL - Chancay-Lambayeque	ERA5-Land	Rx5day (mm)	45 y; 1981-2025	81.6992	-1.8475	-2.2613	-0.0545	-0.5185	0.6797	1	No

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CHL - Chancay-Lambayeque	ERA5-Land	SDII (mm/wet day)	45 y; 1981-2025	4.8657	-0.0417	-0.8566	-0.0485	-0.4598	0.7264	1	No
CHL - Chancay-Lambayeque	ERA5-Land	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.7019	-0.0991	-14.1216	-0.1163	-1.2567	0.47	0.7696	No
CHL - Chancay-Lambayeque	ERA5-Land	SPI-3 drought duration (months)	44 y; 1982-2025	1	0	0	0.0359	0.7298	0.838	0.2255	No
CHL - Chancay-Lambayeque	ERA5-Land	SPI-3 drought frequency (months/year)	44 y; 1982-2025	2	0	0	0.0507	0.8303	0.7315	0.3488	No
CHL - Chancay-Lambayeque	ERA5-Land	Tmax (°C)	45 y; 1981-2025	21.9683	0.1751	0.7972	0.3212	4.478	8.4776e-6	0.4796	No
CHL - Chancay-Lambayeque	ERA5-Land	Tmean (°C)	45 y; 1981-2025	17.2687	0.1714	0.9928	0.3636	8.2662	3.1104e-16	0.1805	No
CHL - Chancay-Lambayeque	ERA5-Land	Tmin (°C)	45 y; 1981-2025	14.117	0.1582	1.121	0.3051	10.1038	2.3918e-23	0.0849	No
CHL - Chancay-Lambayeque	ERA5-Land	Annual precipitation (mm/year)	45 y; 1981-2025	1314.7644	-18.4353	-1.4022	-0.0424	-0.4756	0.7137	0.7112	No
GRA - Grande	CHIRPS	CDD (days)	45 y; 1981-2025	117	-2.8802	-2.4617	-0.0687	-0.5456	0.6585	1.4441	No
GRA - Grande	CHIRPS	R95pTOT (mm/year)	45 y; 1981-2025	52.9818	33.0874	62.4504	0.3424	1.8326	0.1204	3.2564	Yes
GRA - Grande	CHIRPS	Rx1day (mm)	45 y; 1981-2025	12.8987	2.4873	19.2837	0.3212	3.101	0.0058	1	No
GRA - Grande	CHIRPS	Rx5day (mm)	45 y; 1981-2025	35.6862	7.1527	20.0434	0.4263	4.1184	0.0002	1	No
GRA - Grande	CHIRPS	SDII (mm/wet day)	45 y; 1981-2025	3.3822	0.3778	11.1714	0.3657	2.7651	0.0128	1.6311	No
GRA - Grande	CHIRPS	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.3567	0.5842	163.7825	0.5433	5.1886	9.5338e-7	1	No
GRA - Grande	CHIRPS	SPI-3 drought duration (months)	44 y; 1982-2025	0	0		-0.3087	-1.6742	0.1693	3.6683	Yes
GRA - Grande	CHIRPS	SPI-3 drought frequency (months/year)	44 y; 1982-2025	0	0		-0.2939	-1.6537	0.1473	3.3864	Yes
GRA - Grande	CHIRPS	Annual precipitation (mm/year)	45 y; 1981-2025	293.0071	59.8531	20.4272	0.4182	3.1897	0.0064	1.6043	No
GRA - Grande	PISCO	CDD (days)	45 y; 1981-2025	242	-11	-4.5455	-0.2505	-2.4172	0.1408	1	No
GRA - Grande	PISCO	R95pTOT (mm/year)	45 y; 1981-2025	11.9066	3.0925	25.9735	0.2303	2.2276	0.0466	1	No
GRA - Grande	PISCO	Rx1day (mm)	45 y; 1981-2025	5.4002	0.6818	12.6248	0.3232	2.9287	0.0102	1.1353	No
GRA - Grande	PISCO	Rx5day (mm)	45 y; 1981-2025	17.8302	1.3249	7.4309	0.1818	1.751	0.1799	1	No
GRA - Grande	PISCO	SDII (mm/wet day)	44 y; 1981-2025	2.1094	0.0626	2.9659	0.1882	1.7902	0.1101	1	No
GRA - Grande	PISCO	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.4055	0.423	104.328	0.3531	3.368	0.0023	1	No
GRA - Grande	PISCO	SPI-3 drought duration (months)	44 y; 1982-2025	1	0	0	-0.1765	-1.7424	0.1541	1	No
GRA - Grande	PISCO	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1	-0.2857	-28.5714	-0.1998	-1.9604	0.0899	1	Yes
GRA - Grande	PISCO	Annual precipitation (mm/year)	45 y; 1981-2025	151.0778	11.1621	7.3883	0.2263	2.1815	0.0874	1	No
GRA - Grande	ERA5-Land	CDD (days)	45 y; 1981-2025	45	3.9697	8.8215	0.1667	1.6054	0.1394	1	No
GRA - Grande	ERA5-Land	DTR (°C)	45 y; 1981-2025	9.094	0.0215	0.2368	0.0687	0.6554	0.5762	1	No
GRA - Grande	ERA5-Land	R95pTOT (mm/year)	45 y; 1981-2025	110.8282	-2.249	-2.0293	-0.0263	-0.2446	0.9076	1	No
GRA - Grande	ERA5-Land	Rx1day (mm)	45 y; 1981-2025	16.5723	0.1143	0.6896	0.0283	0.2641	0.8988	1	No
GRA - Grande	ERA5-Land	Rx5day (mm)	45 y; 1981-2025	57.2335	0.6302	1.1012	0.0646	0.6163	0.6797	1	No
GRA - Grande	ERA5-Land	SDII (mm/wet day)	45 y; 1981-2025	4.4491	0.0467	1.0505	0.0727	0.6945	0.631	1	No
GRA - Grande	ERA5-Land	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.7321	-0.1034	-14.1178	-0.0782	-0.7383	0.6653	1	No
GRA - Grande	ERA5-Land	SPI-3 drought duration (months)	44 y; 1982-2025	1	0	0	0.1195	1.1919	0.8015	1	No

GRA - Grande	ERA5-Land	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1	0	0	0.1121	1.6966	0.404	0.4268	No
GRA - Grande	ERA5-Land	Tmax (°C)	45 y; 1981-2025	19.6898	0.2106	1.0696	0.3899	7.7421	2.9328e-14	0.2366	No
GRA - Grande	ERA5-Land	Tmean (°C)	45 y; 1981-2025	14.5386	0.2046	1.4074	0.4525	11.6609	1.8168e-30	0.1406	No
GRA - Grande	ERA5-Land	Tmin (°C)	45 y; 1981-2025	10.5163	0.1605	1.5262	0.4323	8.9307	9.5283e-19	0.2188	No
GRA - Grande	ERA5-Land	Annual precipitation (mm/year)	45 y; 1981-2025	853.4211	-16.3201	-1.9123	-0.101	-0.9684	0.6109	1	No
MAN - Mantaro	CHIRPS	CDD (days)	45 y; 1981-2025	24	-0.702	-2.9249	-0.0788	-0.7005	0.6218	1.1627	No
MAN - Mantaro	CHIRPS	R95pTOT (mm/year)	45 y; 1981-2025	149.4951	27.8524	18.6309	0.4162	3.9264	0.0004	1.0485	No
MAN - Mantaro	CHIRPS	Rx1day (mm)	45 y; 1981-2025	21.6744	1.768	8.1569	0.3253	2.7741	0.0108	1.2813	No
MAN - Mantaro	CHIRPS	Rx5day (mm)	45 y; 1981-2025	50.8288	4.5669	8.9849	0.3879	3.7466	0.0004	1	No
MAN - Mantaro	CHIRPS	SDII (mm/wet day)	45 y; 1981-2025	4.4692	0.143	3.1987	0.3616	3.9471	0.0002	0.7828	No
MAN - Mantaro	CHIRPS	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.407	0.4398	108.0652	0.4355	3.6903	0.0007	1.2689	No
MAN - Mantaro	CHIRPS	SPI-3 drought duration (months)	44 y; 1982-2025	1	-0.3923	-39.2308	-0.2822	-2.8127	0.0221	1	No
MAN - Mantaro	CHIRPS	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1	-0.5882	-58.8235	-0.3097	-4.037	0.0005	0.5812	No
MAN - Mantaro	CHIRPS	Annual precipitation (mm/year)	45 y; 1981-2025	838.0371	30.7929	3.6744	0.2404	2.3184	0.046	1	No
MAN - Mantaro	PISCO	CDD (days)	45 y; 1981-2025	44	0.3852	0.8754	0.0182	0.2312	0.9101	0.5179	No
MAN - Mantaro	PISCO	R95pTOT (mm/year)	45 y; 1981-2025	133.3525	16.0814	12.0593	0.2222	2.1423	0.0483	1	No
MAN - Mantaro	PISCO	Rx1day (mm)	45 y; 1981-2025	14.9039	0.78	5.2336	0.2545	2.4554	0.0294	1	No
MAN - Mantaro	PISCO	Rx5day (mm)	45 y; 1981-2025	49.7978	2.0539	4.1244	0.2384	2.2988	0.1203	1	No
MAN - Mantaro	PISCO	SDII (mm/wet day)	45 y; 1981-2025	4.1374	0.0891	2.1534	0.1677	1.6141	0.1369	1	No
MAN - Mantaro	PISCO	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.7315	0.2065	28.2262	0.1755	1.3849	0.2135	1.4521	No
MAN - Mantaro	PISCO	SPI-3 drought duration (months)	44 y; 1982-2025	1	0	0	-0.1216	-1.2613	0.2664	0.9093	No
MAN - Mantaro	PISCO	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1.5	0	0	-0.1385	-1.3646	0.2216	1	No
MAN - Mantaro	PISCO	Annual precipitation (mm/year)	45 y; 1981-2025	946.692	9.655	1.0199	0.0667	0.6359	0.5249	1	No
MAN - Mantaro	ERA5-Land	CDD (days)	45 y; 1981-2025	10	1.6667	16.6667	0.402	3.9046	0.0008	1	No
MAN - Mantaro	ERA5-Land	DTR (°C)	45 y; 1981-2025	8.8379	0.0077	0.0874	0.0263	0.3057	0.7599	0.6402	No
MAN - Mantaro	ERA5-Land	R95pTOT (mm/year)	45 y; 1981-2025	261.192	2.7595	1.0565	0.0303	0.3362	0.9076	0.7121	No
MAN - Mantaro	ERA5-Land	Rx1day (mm)	45 y; 1981-2025	18.0051	0.4461	2.4776	0.1859	2.7767	0.0494	0.4157	Yes
MAN - Mantaro	ERA5-Land	Rx5day (mm)	45 y; 1981-2025	63.9742	0.955	1.4927	0.204	1.9662	0.1478	1	No
MAN - Mantaro	ERA5-Land	SDII (mm/wet day)	45 y; 1981-2025	5.7156	0.0503	0.8797	0.1071	0.7068	0.631	2.1116	No
MAN - Mantaro	ERA5-Land	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.809	-0.021	-2.6012	-0.0211	-0.1441	0.9275	1.779	No
MAN - Mantaro	ERA5-Land	SPI-3 drought duration (months)	44 y; 1982-2025	1	0	0	0.0137	0.1255	1	1	No
MAN - Mantaro	ERA5-Land	SPI-3 drought frequency (months/year)	44 y; 1982-2025	2	0	0	0.0465	0.4479	0.8891	1	No
MAN - Mantaro	ERA5-Land	Tmax (°C)	45 y; 1981-2025	11.6709	0.2147	1.84	0.4404	6.2908	7.1044e-10	0.4576	No
MAN - Mantaro	ERA5-Land	Tmean (°C)	45 y; 1981-2025	6.6464	0.2128	3.2019	0.4828	7.3924	2.5962e-13	0.3984	No
MAN - Mantaro	ERA5-Land	Tmin (°C)	45 y; 1981-2025	2.7546	0.1971	7.155	0.4889	6.8294	1.5346e-11	0.4786	No
MAN - Mantaro	ERA5-Land	Annual precipitation (mm/year)	45 y; 1981-2025	1803.5854	-12.2205	-0.6776	-0.0929	-0.8902	0.6109	1	No

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MAY - Mayo	CHIRPS	CDD (days)	45 y; 1981-2025	14	-0.5334	-3.8102	-0.1273	-1.2312	0.4382	1	No
MAY - Mayo	CHIRPS	R95pTOT (mm/year)	45 y; 1981-2025	278.6453	67.2613	24.1387	0.5152	6.1096	8.9914e-9	0.6642	No
MAY - Mayo	CHIRPS	Rx1day (mm)	45 y; 1981-2025	40.833	3.6437	8.9233	0.396	3.8249	0.0012	1	No
MAY - Mayo	CHIRPS	Rx5day (mm)	45 y; 1981-2025	69.7485	7.2285	10.3637	0.4808	4.2472	0.0002	1.1969	No
MAY - Mayo	CHIRPS	SDII (mm/wet day)	45 y; 1981-2025	7.1291	0.4957	6.9526	0.6141	5.9379	2.5988e-8	1	No
MAY - Mayo	CHIRPS	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.7038	0.4423	62.8414	0.5032	6.1514	6.9125e-9	0.61	No
MAY - Mayo	CHIRPS	SPI-3 drought duration (months)	44 y; 1982-2025	1	0	0	-0.1205	-1.1131	0.3129	1.1295	No
MAY - Mayo	CHIRPS	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1	0	0	-0.1808	-1.6755	0.1473	1.1172	No
MAY - Mayo	CHIRPS	Annual precipitation (mm/year)	45 y; 1981-2025	1253.2169	80.503	6.4237	0.5394	14.438	2.6871e-46	0.1304	No
MAY - Mayo	PISCO	CDD (days)	45 y; 1981-2025	9	-0.4654	-5.1708	-0.1343	-1.302	0.6015	1	No
MAY - Mayo	PISCO	R95pTOT (mm/year)	45 y; 1981-2025	344.3049	47.2942	13.7361	0.2909	2.8075	0.0328	1	No
MAY - Mayo	PISCO	Rx1day (mm)	45 y; 1981-2025	31.9796	2.2716	7.1032	0.2687	2.4014	0.0294	1.1654	No
MAY - Mayo	PISCO	Rx5day (mm)	45 y; 1981-2025	84.6421	0.9814	1.1595	0.0586	0.5576	0.6493	1	No
MAY - Mayo	PISCO	SDII (mm/wet day)	45 y; 1981-2025	5.8189	0.2541	4.366	0.3899	3.7662	0.0009	1	No
MAY - Mayo	PISCO	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.5435	0.4954	91.1414	0.4693	4.4806	6.6984e-5	1	No
MAY - Mayo	PISCO	SPI-3 drought duration (months)	44 y; 1982-2025	1	-0.5	-50	-0.3383	-3.392	0.0062	0.9776	No
MAY - Mayo	PISCO	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1	-0.6667	-66.6667	-0.3552	-3.6269	0.0026	0.9344	No
MAY - Mayo	PISCO	Annual precipitation (mm/year)	45 y; 1981-2025	1666.5006	80.7697	4.8467	0.3414	3.2966	0.0088	1	No
MAY - Mayo	ERA5-Land	CDD (days)	45 y; 1981-2025	5	0.4762	9.5238	0.2535	2.4949	0.0283	1	No
MAY - Mayo	ERA5-Land	DTR (°C)	45 y; 1981-2025	7.6519	0.0536	0.7002	0.2606	2.3391	0.055	1.1552	No
MAY - Mayo	ERA5-Land	R95pTOT (mm/year)	45 y; 1981-2025	419.7942	84.7829	20.1963	0.4	2.0511	0.3623	3.549	Yes
MAY - Mayo	ERA5-Land	Rx1day (mm)	45 y; 1981-2025	36.9717	3.6271	9.8105	0.2566	2.4749	0.06	1	Yes
MAY - Mayo	ERA5-Land	Rx5day (mm)	45 y; 1981-2025	88.5227	4.9993	5.6475	0.2747	2.651	0.0722	1	No
MAY - Mayo	ERA5-Land	SDII (mm/wet day)	45 y; 1981-2025	6.582	0.3086	4.6889	0.3677	1.9723	0.4372	3.2416	Yes
MAY - Mayo	ERA5-Land	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.5183	0.2667	51.4496	0.2283	1.2996	0.47	2.7997	No
MAY - Mayo	ERA5-Land	SPI-3 drought duration (months)	44 y; 1982-2025	1	0	0	-0.0825	-0.8207	0.838	1	No
MAY - Mayo	ERA5-Land	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1	0	0	-0.111	-0.991	0.7238	1.241	No
MAY - Mayo	ERA5-Land	Tmax (°C)	45 y; 1981-2025	23.4713	0.1458	0.6214	0.3798	5.2486	2.7587e-7	0.4885	No
MAY - Mayo	ERA5-Land	Tmean (°C)	45 y; 1981-2025	19.1553	0.1159	0.6052	0.3374	4.7776	1.9956e-6	0.4649	No
MAY - Mayo	ERA5-Land	Tmin (°C)	45 y; 1981-2025	15.7701	0.0927	0.5881	0.2949	2.8467	0.005	1	No
MAY - Mayo	ERA5-Land	Annual precipitation (mm/year)	45 y; 1981-2025	2274.7036	70.2562	3.0886	0.2626	1.5108	0.3925	2.8124	No
PAC - Pachitea	CHIRPS	CDD (days)	45 y; 1981-2025	12	-0.3923	-3.2692	-0.1091	-1.0535	0.4382	1	No
PAC - Pachitea	CHIRPS	R95pTOT (mm/year)	45 y; 1981-2025	427.2384	-16.6743	-3.9028	-0.0869	-0.6523	0.5142	1.6249	No
PAC - Pachitea	CHIRPS	Rx1day (mm)	45 y; 1981-2025	48.988	2.2164	4.5243	0.2081	2.3229	0.026	0.7453	No
PAC - Pachitea	CHIRPS	Rx5day (mm)	45 y; 1981-2025	107.172	3.6763	3.4303	0.1798	1.7315	0.0834	1	No
PAC - Pachitea	CHIRPS	SDII (mm/wet day)	45 y; 1981-2025	9.2044	-0.0755	-0.8205	-0.0667	-0.6359	0.6343	1	No
PAC - Pachitea	CHIRPS	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.5589	-0.2705	-48.3995	-0.2368	-1.682	0.1388	1.7981	Yes

PAC - Pachitea	CHIRPS	SPI-3 drought duration (months)	44 y; 1982-2025	1	0	0	0.1142	1.0846	0.3129	1.1341	No
PAC - Pachitea	CHIRPS	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1	0	0	0.1163	1.1053	0.3027	1.1341	No
PAC - Pachitea	CHIRPS	Annual precipitation (mm/year)	45 y; 1981-2025	2248.5497	-53.0279	-2.3583	-0.198	-1.9076	0.1016	1	Yes
PAC - Pachitea	PISCO	CDD (days)	45 y; 1981-2025	9	0	0	0.0758	0.7743	0.6581	0.8896	No
PAC - Pachitea	PISCO	R95pTOT (mm/year)	45 y; 1981-2025	548.7106	50.7296	9.2452	0.2242	1.763	0.1002	1.5038	Yes
PAC - Pachitea	PISCO	Rx1day (mm)	45 y; 1981-2025	53.3207	1.8705	3.508	0.1293	1.2424	0.2409	1	No
PAC - Pachitea	PISCO	Rx5day (mm)	45 y; 1981-2025	136.378	6.0159	4.4112	0.2061	2.2154	0.1203	0.8035	No
PAC - Pachitea	PISCO	SDII (mm/wet day)	45 y; 1981-2025	9.6442	0.1892	1.9616	0.1939	1.8684	0.1101	1	No
PAC - Pachitea	PISCO	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.5803	0.1674	28.8413	0.1586	1.7026	0.1595	0.7834	No
PAC - Pachitea	PISCO	SPI-3 drought duration (months)	44 y; 1982-2025	1	0	0	-0.1755	-1.7191	0.1541	1	No
PAC - Pachitea	PISCO	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1	-0.3125	-31.25	-0.1934	-2.352	0.042	0.6449	Yes
PAC - Pachitea	PISCO	Annual precipitation (mm/year)	45 y; 1981-2025	3000.3891	26.7624	0.892	0.0869	0.8315	0.4564	1	No
PAC - Pachitea	ERA5-Land	CDD (days)	45 y; 1981-2025	6	0.8	13.3333	0.2646	2.6906	0.0214	0.9215	No
PAC - Pachitea	ERA5-Land	DTR (°C)	45 y; 1981-2025	7.4663	0.1506	2.0166	0.5818	5.6248	1.6712e-7	1	No
PAC - Pachitea	ERA5-Land	R95pTOT (mm/year)	45 y; 1981-2025	540.4458	25.4849	4.7155	0.1455	1.3989	0.4856	1	No
PAC - Pachitea	ERA5-Land	Rx1day (mm)	45 y; 1981-2025	54.0091	0.7903	1.4632	0.0667	0.6359	0.8988	1	No
PAC - Pachitea	ERA5-Land	Rx5day (mm)	45 y; 1981-2025	129.0569	-4.1975	-3.2524	-0.2182	-2.1032	0.1478	1	No
PAC - Pachitea	ERA5-Land	SDII (mm/wet day)	45 y; 1981-2025	8.9701	0.0406	0.4526	0.0545	0.3349	0.7377	2.3963	No
PAC - Pachitea	ERA5-Land	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.6958	-0.3043	-43.7314	-0.3023	-3.1658	0.0139	0.8291	No
PAC - Pachitea	ERA5-Land	SPI-3 drought duration (months)	44 y; 1982-2025	1.5	0.4167	27.7778	0.2569	2.989	0.0252	0.7264	No
PAC - Pachitea	ERA5-Land	SPI-3 drought frequency (months/year)	44 y; 1982-2025	2	0.3571	17.8571	0.2199	2.5841	0.0879	0.7041	Yes
PAC - Pachitea	ERA5-Land	Tmax (°C)	45 y; 1981-2025	24.9159	0.3087	1.239	0.5717	10.5501	4.5648e-25	0.2745	No
PAC - Pachitea	ERA5-Land	Tmean (°C)	45 y; 1981-2025	20.5751	0.2453	1.1924	0.5636	11.3503	3.3245e-29	0.2304	No
PAC - Pachitea	ERA5-Land	Tmin (°C)	45 y; 1981-2025	17.4046	0.1767	1.0154	0.503	12.0991	9.6124e-33	0.1615	No
PAC - Pachitea	ERA5-Land	Annual precipitation (mm/year)	45 y; 1981-2025	3007.1363	-63.6872	-2.1179	-0.2242	-2.1619	0.2428	1	No
PIU - Piura	CHIRPS	CDD (days)	45 y; 1981-2025	114	0.6458	0.5665	0.0354	0.2988	0.7651	1.2395	No
PIU - Piura	CHIRPS	R95pTOT (mm/year)	45 y; 1981-2025	34.7273	3.5725	10.2872	0.1061	1.0899	0.3545	0.875	No
PIU - Piura	CHIRPS	Rx1day (mm)	45 y; 1981-2025	18.1634	1.5012	8.2649	0.1616	1.5554	0.1348	1	No
PIU - Piura	CHIRPS	Rx5day (mm)	45 y; 1981-2025	38.3919	4.155	10.8226	0.1879	1.935	0.0596	0.8747	No
PIU - Piura	CHIRPS	SDII (mm/wet day)	45 y; 1981-2025	3.9226	0.0404	1.0303	0.0606	0.5772	0.6343	1	No
PIU - Piura	CHIRPS	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.6068	0.0976	16.0849	0.1395	1.0046	0.3545	1.7395	No
PIU - Piura	CHIRPS	SPI-3 drought duration (months)	44 y; 1982-2025	1	0	0	-0.1416	-1.1058	0.3129	1.6712	No
PIU - Piura	CHIRPS	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1	0	0	-0.1353	-1.0221	0.3067	1.7671	No
PIU - Piura	CHIRPS	Annual precipitation (mm/year)	45 y; 1981-2025	191.0575	8.735	4.5719	0.1172	1.1824	0.2667	0.9052	No
PIU - Piura	PISCO	CDD (days)	45 y; 1981-2025	178	-4.4803	-2.517	-0.1051	-1.008	0.6015	1	No
PIU - Piura	PISCO	R95pTOT (mm/year)	45 y; 1981-2025	24.717	0	0	0.0596	0.6049	0.6134	1	No

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PIU - Piura	PISCO	Rx1day (mm)	45 y; 1981-2025	24.717	3.0489	12.3354	0.1697	1.6336	0.1316	1	No
PIU - Piura	PISCO	Rx5day (mm)	45 y; 1981-2025	56.6125	6.1185	10.8077	0.1576	1.5163	0.2017	1	No
PIU - Piura	PISCO	SDII (mm/wet day)	45 y; 1981-2025	4.0251	0.2591	6.4368	0.1313	1.2619	0.2329	1	No
PIU - Piura	PISCO	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.6004	0.0573	9.5494	0.0909	0.6456	0.5575	1.7735	No
PIU - Piura	PISCO	SPI-3 drought duration (months)	44 y; 1982-2025	0.5	0	0	-0.0285	-0.2892	0.869	1	No
PIU - Piura	PISCO	SPI-3 drought frequency (months/year)	44 y; 1982-2025	0.5	0	0	-0.0359	-0.3667	0.7751	1	No
PIU - Piura	PISCO	Annual precipitation (mm/year)	45 y; 1981-2025	287.4226	12.7489	4.4356	0.101	1.1228	0.3796	0.744	No
PIU - Piura	ERA5-Land	CDD (days)	45 y; 1981-2025	71	-3.7171	-5.2354	-0.1323	-1.7072	0.1317	0.5556	No
PIU - Piura	ERA5-Land	DTR (°C)	45 y; 1981-2025	9.8996	0.0858	0.8669	0.1293	1.4548	0.2186	0.7293	No
PIU - Piura	ERA5-Land	R95pTOT (mm/year)	45 y; 1981-2025	150.6952	-15.6827	-10.4069	-0.103	-1.0153	0.6974	0.9529	No
PIU - Piura	ERA5-Land	Rx1day (mm)	45 y; 1981-2025	38.3623	-1.3635	-3.5542	-0.0525	-0.5776	0.8988	0.7461	No
PIU - Piura	ERA5-Land	Rx5day (mm)	45 y; 1981-2025	96.9163	-4.5315	-4.6757	-0.0909	-0.892	0.5863	0.9527	No
PIU - Piura	ERA5-Land	SDII (mm/wet day)	45 y; 1981-2025	5.1142	-0.1387	-2.7127	-0.0949	-0.9098	0.631	1	No
PIU - Piura	ERA5-Land	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.671	-0.046	-6.8569	-0.0803	-0.6922	0.6653	1.2011	No
PIU - Piura	ERA5-Land	SPI-3 drought duration (months)	44 y; 1982-2025	0	0		0.0011	0	1	1	No
PIU - Piura	ERA5-Land	SPI-3 drought frequency (months/year)	44 y; 1982-2025	0	0		0.0106	0.0994	0.9208	1	No
PIU - Piura	ERA5-Land	Tmax (°C)	45 y; 1981-2025	27.6956	0.1053	0.3803	0.1717	1.6532	0.0983	1	No
PIU - Piura	ERA5-Land	Tmean (°C)	45 y; 1981-2025	21.8885	0.0915	0.4181	0.1313	1.4166	0.1566	0.7936	No
PIU - Piura	ERA5-Land	Tmin (°C)	45 y; 1981-2025	17.8984	0.0797	0.4454	0.1152	1.2716	0.2035	0.7557	No
PIU - Piura	ERA5-Land	Annual precipitation (mm/year)	45 y; 1981-2025	948.3733	-26.8793	-2.8342	-0.0747	-0.7392	0.6109	0.9333	No
RIM - Rímac	CHIRPS	CDD (days)	45 y; 1981-2025	65	-5.4356	-8.3625	-0.2222	-3.8686	0.001	0.3071	Yes
RIM - Rímac	CHIRPS	R95pTOT (mm/year)	45 y; 1981-2025	38.1119	-8.9575	-23.5031	-0.3323	-3.2088	0.004	1	No
RIM - Rímac	CHIRPS	Rx1day (mm)	45 y; 1981-2025	12.0374	-0.9457	-7.856	-0.2848	-2.7488	0.0108	1	No
RIM - Rímac	CHIRPS	Rx5day (mm)	45 y; 1981-2025	28.5419	-1.6391	-5.7427	-0.2505	-2.4162	0.0202	1	No
RIM - Rímac	CHIRPS	SDII (mm/wet day)	45 y; 1981-2025	3.0454	-0.1802	-5.9179	-0.4566	-4.4118	4.6126e-5	1	No
RIM - Rímac	CHIRPS	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.5595	0.028	5.006	0.0233	0.1646	0.8693	1.6654	No
RIM - Rímac	CHIRPS	SPI-3 drought duration (months)	44 y; 1982-2025	1	-0.3775	-37.7493	-0.3319	-4.833	1.2106e-5	0.4695	No
RIM - Rímac	CHIRPS	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1	-0.5882	-58.8235	-0.3488	-3.4691	0.0023	1	No
RIM - Rímac	CHIRPS	Annual precipitation (mm/year)	45 y; 1981-2025	335.3233	-3.9376	-1.1743	-0.0424	-0.4011	0.6884	1	No
RIM - Rímac	PISCO	CDD (days)	45 y; 1981-2025	134	-2.8571	-2.1322	-0.0879	-0.9658	0.6015	0.7593	No
RIM - Rímac	PISCO	R95pTOT (mm/year)	45 y; 1981-2025	51.557	11.063	21.4579	0.3303	2.6713	0.0328	1.4253	No
RIM - Rímac	PISCO	Rx1day (mm)	45 y; 1981-2025	9.153	0.8341	9.1128	0.3576	4.2922	0.0002	0.6473	No
RIM - Rímac	PISCO	Rx5day (mm)	45 y; 1981-2025	29.1595	0.8497	2.9139	0.1333	1.2815	0.2572	1	No
RIM - Rímac	PISCO	SDII (mm/wet day)	45 y; 1981-2025	2.7871	0.0978	3.5074	0.2707	2.6119	0.027	1	No
RIM - Rímac	PISCO	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.3997	0.3526	88.2084	0.3298	3.1455	0.0037	1	No
RIM - Rímac	PISCO	SPI-3 drought duration (months)	44 y; 1982-2025	1	-0.3704	-37.037	-0.2854	-2.8346	0.0206	1	No

RIM - Rímac	PISCO	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1	-0.4348	-43.4783	-0.2907	-2.8689	0.0185	1	No
RIM - Rímac	PISCO	Annual precipitation (mm/year)	45 y; 1981-2025	368.8035	20.3839	5.527	0.2545	2.4554	0.0633	1	No
RIM - Rímac	ERA5-Land	CDD (days)	45 y; 1981-2025	15	1.3246	8.8304	0.1586	1.5301	0.1417	1	No
RIM - Rímac	ERA5-Land	DTR (°C)	45 y; 1981-2025	7.5328	-0.0334	-0.4434	-0.1798	-2.1625	0.055	0.6411	Yes
RIM - Rímac	ERA5-Land	R95pTOT (mm/year)	45 y; 1981-2025	168.0008	-4.885	-2.9077	-0.0525	-0.4989	0.9076	1	No
RIM - Rímac	ERA5-Land	Rx1day (mm)	45 y; 1981-2025	16.1104	-0.0804	-0.4993	-0.0202	-0.1859	0.8988	1	No
RIM - Rímac	ERA5-Land	Rx5day (mm)	45 y; 1981-2025	55.9655	-0.5861	-1.0473	-0.0788	-0.8581	0.5863	0.7706	No
RIM - Rímac	ERA5-Land	SDII (mm/wet day)	45 y; 1981-2025	5.2	0.0287	0.5513	0.0808	0.7728	0.631	1	No
RIM - Rímac	ERA5-Land	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.3811	0.0917	24.0513	0.0761	0.6472	0.6653	1.231	No
RIM - Rímac	ERA5-Land	SPI-3 drought duration (months)	44 y; 1982-2025	1	0	0	-0.0285	-0.3177	1	0.7603	No
RIM - Rímac	ERA5-Land	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1	0	0	-0.0349	-0.3968	0.8891	0.7359	No
RIM - Rímac	ERA5-Land	Tmax (°C)	45 y; 1981-2025	14.6739	0.193	1.3151	0.3758	8.177	1.3098e-15	0.197	No
RIM - Rímac	ERA5-Land	Tmean (°C)	45 y; 1981-2025	10.3848	0.2073	1.9958	0.4323	10.0514	2.7185e-23	0.1727	No
RIM - Rímac	ERA5-Land	Tmin (°C)	45 y; 1981-2025	7.1145	0.2218	3.1183	0.4747	9.3016	4.1498e-20	0.2433	No
RIM - Rímac	ERA5-Land	Annual precipitation (mm/year)	45 y; 1981-2025	1429.1187	3.6604	0.2561	0.0182	0.2255	0.8216	0.544	No
AAP - Alto Apurímac	CHIRPS	CDD (days)	45 y; 1981-2025	41	-2.0345	-4.9622	-0.1707	-1.6452	0.3304	1	No
AAP - Alto Apurímac	CHIRPS	R95pTOT (mm/year)	45 y; 1981-2025	116.6436	19.4579	16.6815	0.3131	3.0227	0.0056	1	No
AAP - Alto Apurímac	CHIRPS	Rx1day (mm)	45 y; 1981-2025	16.6524	1.4127	8.4834	0.3616	3.4923	0.0022	1	No
AAP - Alto Apurímac	CHIRPS	Rx5day (mm)	45 y; 1981-2025	49.8821	3.4471	6.9105	0.3091	2.9836	0.0051	1	No
AAP - Alto Apurímac	CHIRPS	SDII (mm/wet day)	45 y; 1981-2025	4.4345	0.1189	2.6823	0.2465	2.3771	0.0314	1	No
AAP - Alto Apurímac	CHIRPS	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.4322	0.3848	89.0381	0.3552	2.6631	0.0174	1.6188	No
AAP - Alto Apurímac	CHIRPS	SPI-3 drought duration (months)	44 y; 1982-2025	1	0	0	-0.1839	-1.8455	0.1462	1	No
AAP - Alto Apurímac	CHIRPS	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1	0	0	-0.186	-1.8673	0.1392	1	No
AAP - Alto Apurímac	CHIRPS	Annual precipitation (mm/year)	45 y; 1981-2025	800.1702	35.8727	4.4831	0.2444	2.3575	0.046	1	No
AAP - Alto Apurímac	PISCO	CDD (days)	45 y; 1981-2025	86	-5.061	-5.8849	-0.1303	-1.2529	0.6015	1	No
AAP - Alto Apurímac	PISCO	R95pTOT (mm/year)	45 y; 1981-2025	100.921	12.0677	11.9575	0.204	2.4423	0.0328	0.6482	No
AAP - Alto Apurímac	PISCO	Rx1day (mm)	45 y; 1981-2025	13.4334	0.1857	1.3821	0.0808	0.7728	0.4396	1	No
AAP - Alto Apurímac	PISCO	Rx5day (mm)	45 y; 1981-2025	50.2251	1.5738	3.1334	0.1556	1.4967	0.2017	1	No
AAP - Alto Apurímac	PISCO	SDII (mm/wet day)	45 y; 1981-2025	4.2198	0.1076	2.551	0.2263	2.1815	0.0656	1	No
AAP - Alto Apurímac	PISCO	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.5173	0.294	56.8388	0.2896	3.426	0.0023	0.6496	No
AAP - Alto Apurímac	PISCO	SPI-3 drought duration (months)	44 y; 1982-2025	1	0	0	-0.2209	-2.2386	0.0755	1	No
AAP - Alto Apurímac	PISCO	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1	0	0	-0.24	-2.4171	0.042	1	No
AAP - Alto Apurímac	PISCO	Annual precipitation (mm/year)	45 y; 1981-2025	775.6658	23.3248	3.0071	0.1798	1.7315	0.1501	1	No
AAP - Alto Apurímac	ERA5-Land	CDD (days)	45 y; 1981-2025	26	3.1699	12.1918	0.2141	2.0666	0.0698	1	No
AAP - Alto Apurímac	ERA5-Land	DTR (°C)	45 y; 1981-2025	10.5491	0.1069	1.0131	0.2263	2.1815	0.055	1	No
AAP - Alto Apurímac	ERA5-Land	R95pTOT (mm/year)	45 y; 1981-2025	180.9935	8.7256	4.821	0.0848	0.8119	0.7503	1	No

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AAP - Alto Apurímac	ERA5-Land	Rx1day (mm)	45 y; 1981-2025	18.1028	0.1772	0.9787	0.0687	0.6554	0.8988	1	No
AAP - Alto Apurímac	ERA5-Land	Rx5day (mm)	45 y; 1981-2025	65.3259	0.7878	1.2059	0.1333	1.2815	0.4501	1	No
AAP - Alto Apurímac	ERA5-Land	SDII (mm/wet day)	45 y; 1981-2025	5.8264	0.0531	0.9106	0.103	0.988	0.631	1	No
AAP - Alto Apurímac	ERA5-Land	SPI-12 minimum (SPI units)	44 y; 1982-2025	-0.7337	0.0119	1.6214	0.0106	0.091	0.9275	1	No
AAP - Alto Apurímac	ERA5-Land	SPI-3 drought duration (months)	44 y; 1982-2025	1	0	0	0.0127	0.1165	1	1	No
AAP - Alto Apurímac	ERA5-Land	SPI-3 drought frequency (months/year)	44 y; 1982-2025	1	0	0	0.019	0.1792	0.9208	1	No
AAP - Alto Apurímac	ERA5-Land	Tmax (°C)	45 y; 1981-2025	12.0876	0.3905	3.2303	0.5152	4.9792	8.2089e-7	1	No
AAP - Alto Apurímac	ERA5-Land	Tmean (°C)	45 y; 1981-2025	6.2437	0.3315	5.3086	0.5616	5.4292	8.4917e-8	1	No
AAP - Alto Apurímac	ERA5-Land	Tmin (°C)	45 y; 1981-2025	1.4208	0.2589	18.2215	0.6121	5.9183	4.8792e-9	1	No
AAP - Alto Apurímac	ERA5-Land	Annual precipitation (mm/year)	45 y; 1981-2025	1524.8932	-18.6528	-1.2232	-0.0747	-0.7141	0.6109	1	No

Note. Record length is shown as number of years and analysis period. Corrected Mann-Kendall statistics account for autocorrelation; adjusted p-values are used for inferential interpretation. The final column flags cases in which autocorrelation correction changed the significance decision.

Table S2. Early-versus-recent changes in hydroclimatic indicators by basin and data product.

Identification					Period comparison			Bootstrap uncertainty		Context
Basin	Product	Indicator	Early n	Early median	Recent median	Absolute change	Relative change (%)	Bootstrap interval	Excludes zero?	Domain
AZA - Azángaro	CHIRPS	CDD (days)	22	32.5	32.5	0	0	[-10, 6]	No	Dry
AZA - Azángaro	CHIRPS	R95pTOT (mm/year)	22	119.4152	195.3293	75.9141	63.5715	[9.4265, 161.246]	Yes	Wet
AZA - Azángaro	CHIRPS	Rx1day (mm)	22	20.3706	22.5432	2.1726	10.6652	[-0.8654, 5.7254]	No	Wet
AZA - Azángaro	CHIRPS	Rx5day (mm)	22	46.0599	56.1653	10.1054	21.9397	[3.288, 14.8858]	Yes	Wet
AZA - Azángaro	CHIRPS	SDII (mm/wet day)	22	4.4381	4.7684	0.3303	7.443	[-0.1365, 0.7458]	No	Wet
AZA - Azángaro	CHIRPS	SPI-12 minimum (SPI units)	21	-0.8999	-0.3083	0.5916	65.7383	[-0.0309, 1.1495]	No	Dry
AZA - Azángaro	CHIRPS	SPI-3 drought duration (months)	21	1	1	0	0	[-2.5, 1]	No	Dry
AZA - Azángaro	CHIRPS	SPI-3 drought frequency (months/year)	21	2	1	-1	-50	[-3, 2]	No	Dry
AZA - Azángaro	CHIRPS	Annual precipitation (mm/year)	22	732.7736	848.421	115.6474	15.7821	[-35.038, 175.3234]	No	Wet context
AZA - Azángaro	PISCO	CDD (days)	22	84.5	91.5	7	8.284	[-24.5, 31]	No	Dry
AZA - Azángaro	PISCO	R95pTOT (mm/year)	22	91.123	99.2087	8.0857	8.8734	[-21.9556, 30.9284]	No	Wet
AZA - Azángaro	PISCO	Rx1day (mm)	22	14.7319	16.0644	1.3325	9.045	[-0.4172, 3.8427]	No	Wet
AZA - Azángaro	PISCO	Rx5day (mm)	22	43.8842	42.0165	-1.8677	-4.256	[-4.6953, 4.3217]	No	Wet
AZA - Azángaro	PISCO	SDII (mm/wet day)	22	3.8244	3.9094	0.085	2.2234	[-0.1928, 0.2874]	No	Wet
AZA - Azángaro	PISCO	SPI-12 minimum (SPI units)	21	-0.7936	-0.4255	0.3681	46.3804	[-0.4409, 1.1135]	No	Dry
AZA - Azángaro	PISCO	SPI-3 drought duration (months)	21	1	0.5	-0.5	-50	[-3, 1]	No	Dry
AZA - Azángaro	PISCO	SPI-3 drought frequency (months/year)	21	2	0.5	-1.5	-75	[-4, 1.5]	No	Dry
AZA - Azángaro	PISCO	Annual precipitation (mm/year)	22	658.1417	705.3451	47.2034	7.1722	[-52.0555, 102.8972]	No	Wet context
AZA - Azángaro	ERA5-Land	CDD (days)	22	15.5	21	5.5	35.4839	[2.5, 15]	Yes	Dry
AZA - Azángaro	ERA5-Land	DTR (°C)	22	11.0157	11.381	0.3653	3.3162	[0.0166, 0.5938]	Yes	Thermal context
AZA - Azángaro	ERA5-Land	R95pTOT (mm/year)	22	219.575	203.9246	-15.6504	-7.1276	[-34.8872, 32.8501]	No	Wet
AZA - Azángaro	ERA5-Land	Rx1day (mm)	22	22.3144	23.2787	0.9643	4.3212	[-2.1996, 3.0757]	No	Wet
AZA - Azángaro	ERA5-Land	Rx5day (mm)	22	64.4061	63.8404	-0.5657	-0.8783	[-7.1846, 5.0114]	No	Wet
AZA - Azángaro	ERA5-Land	SDII (mm/wet day)	22	5.3766	5.501	0.1244	2.3143	[-0.1978, 0.2996]	No	Wet
AZA - Azángaro	ERA5-Land	SPI-12 minimum (SPI units)	21	-0.6986	-0.7142	-0.0156	-2.2397	[-0.7183, 0.2954]	No	Dry
AZA - Azángaro	ERA5-Land	SPI-3 drought duration (months)	21	1	1	0	0	[-1, 2]	No	Dry
AZA - Azángaro	ERA5-Land	SPI-3 drought frequency (months/year)	21	1	1	0	0	[-1, 3]	No	Dry
AZA - Azángaro	ERA5-Land	Tmax (°C)	22	10.1213	10.771	0.6496	6.4185	[0.4011, 1.1411]	Yes	Thermal
AZA - Azángaro	ERA5-Land	Tmean (°C)	22	4.0917	4.6603	0.5686	13.896	[0.3103, 0.9815]	Yes	Thermal
AZA - Azángaro	ERA5-Land	Tmin (°C)	22	-1.023	-0.598	0.425	41.5438	[0.2314, 0.7279]	Yes	Thermal
AZA - Azángaro	ERA5-Land	Annual precipitation (mm/year)	22	1459.6706	1377.9746	-81.6959	-5.5969	[-196.3076, 36.7434]	No	Wet context
CHL - Chancay-Lambayeque	CHIRPS	CDD (days)	22	30.5	27.5	-3	-9.8361	[-9, 3]	No	Dry
CHL - Chancay-Lambayeque	CHIRPS	R95pTOT (mm/year)	22	57.41	69.0796	11.6696	20.3267	[-34.5468, 34.7003]	No	Wet
CHL - Chancay-Lambayeque	CHIRPS	Rx1day (mm)	22	20.4336	22.8236	2.39	11.6963	[-4.3212, 6.6226]	No	Wet
CHL - Chancay-Lambayeque	CHIRPS	Rx5day (mm)	22	39.1816	45.9664	6.7848	17.3164	[-4.1697, 18.2688]	No	Wet
CHL - Chancay-Lambayeque	CHIRPS	SDII (mm/wet day)	22	4.495	4.4196	-0.0754	-1.6774	[-0.6159, 0.1671]	No	Wet

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CHL - Chancay-Lambayeque	CHIRPS	SPI-12 minimum (SPI units)	21	-1.0589	-0.7094	0.3495	33.0068	[-0.3846, 0.9856]	No	Dry
CHL - Chancay-Lambayeque	CHIRPS	SPI-3 drought duration (months)	21	1	1	0	0	[-2, 1]	No	Dry
CHL - Chancay-Lambayeque	CHIRPS	SPI-3 drought frequency (months/year)	21	2	1	-1	-50	[-2, 1]	No	Dry
CHL - Chancay-Lambayeque	CHIRPS	Annual precipitation (mm/year)	22	415.7259	447.742	32.016	7.7012	[-76.1355, 97.5285]	No	Wet context
CHL - Chancay-Lambayeque	PISCO	CDD (days)	22	59.5	51	-8.5	-14.2857	[-28.0125, 21.5]	No	Dry
CHL - Chancay-Lambayeque	PISCO	R95pTOT (mm/year)	22	48.8872	136.906	88.0189	180.045	[5.1029, 108.7428]	Yes	Wet
CHL - Chancay-Lambayeque	PISCO	Rx1day (mm)	22	16.1497	23.7844	7.6347	47.2746	[-2.0145, 11.0273]	No	Wet
CHL - Chancay-Lambayeque	PISCO	Rx5day (mm)	22	49.4743	69.2976	19.8233	40.068	[-9.2536, 35.1472]	No	Wet
CHL - Chancay-Lambayeque	PISCO	SDII (mm/wet day)	22	3.2964	4.0058	0.7093	21.5184	[0.1418, 1.0591]	Yes	Wet
CHL - Chancay-Lambayeque	PISCO	SPI-12 minimum (SPI units)	21	-0.7393	-0.6603	0.079	10.6857	[-0.4626, 0.6804]	No	Dry
CHL - Chancay-Lambayeque	PISCO	SPI-3 drought duration (months)	21	1	1	0	0	[0, 1]	No	Dry
CHL - Chancay-Lambayeque	PISCO	SPI-3 drought frequency (months/year)	21	1	1	0	0	[-1, 1.5]	No	Dry
CHL - Chancay-Lambayeque	PISCO	Annual precipitation (mm/year)	22	558.5623	608.0028	49.4406	8.8514	[-57.5528, 151.4717]	No	Wet context
CHL - Chancay-Lambayeque	ERA5-Land	CDD (days)	22	18	17	-1	-5.5556	[-6, 6]	No	Dry
CHL - Chancay-Lambayeque	ERA5-Land	DTR (°C)	22	7.7378	7.8698	0.1321	1.7066	[-0.0287, 0.2625]	No	Thermal context
CHL - Chancay-Lambayeque	ERA5-Land	R95pTOT (mm/year)	22	245.3712	164.5655	-80.8057	-32.932	[-169.9619, 37.7369]	No	Wet
CHL - Chancay-Lambayeque	ERA5-Land	Rx1day (mm)	22	34.1076	30.6704	-3.4372	-10.0776	[-9.9498, 5.1647]	No	Wet
CHL - Chancay-Lambayeque	ERA5-Land	Rx5day (mm)	22	83.9807	74.7794	-9.2012	-10.9563	[-25.5194, 10.2566]	No	Wet
CHL - Chancay-Lambayeque	ERA5-Land	SDII (mm/wet day)	22	4.9583	4.6416	-0.3167	-6.3877	[-0.5452, 0.2837]	No	Wet
CHL - Chancay-Lambayeque	ERA5-Land	SPI-12 minimum (SPI units)	21	-0.3018	-1.0106	-0.7089	-234.9112	[-1.0878, -0.0231]	Yes	Dry
CHL - Chancay-Lambayeque	ERA5-Land	SPI-3 drought duration (months)	21	1	1.5	0.5	50	[-1, 2]	No	Dry
CHL - Chancay-Lambayeque	ERA5-Land	SPI-3 drought frequency (months/year)	21	1	2	1	100	[-1, 2]	No	Dry
CHL - Chancay-Lambayeque	ERA5-Land	Tmax (°C)	22	21.6615	22.0502	0.3887	1.7946	[0.0748, 0.6922]	Yes	Thermal
CHL - Chancay-Lambayeque	ERA5-Land	Tmean (°C)	22	16.9991	17.3408	0.3417	2.0104	[0.0581, 0.6313]	Yes	Thermal
CHL - Chancay-Lambayeque	ERA5-Land	Tmin (°C)	22	14.0425	14.2421	0.1996	1.4215	[-0.0073, 0.6316]	No	Thermal
CHL - Chancay-Lambayeque	ERA5-Land	Annual precipitation (mm/year)	22	1353.5394	1260.6576	-92.8818	-6.8621	[-255.0365, 108.8268]	No	Wet context
GRA - Grande	CHIRPS	CDD (days)	22	118	115.5	-2.5	-2.1186	[-24.5, 25]	No	Dry
GRA - Grande	CHIRPS	R95pTOT (mm/year)	22	27.3468	149.4972	122.1503	446.6707	[26.0336, 173.4993]	Yes	Wet
GRA - Grande	CHIRPS	Rx1day (mm)	22	11.4376	19.1354	7.6978	67.3023	[2.8675, 11.5724]	Yes	Wet
GRA - Grande	CHIRPS	Rx5day (mm)	22	31.2325	50.5922	19.3597	61.9858	[7.2354, 28.9967]	Yes	Wet

GRA - Grande	CHIRPS	SDII (mm/wet day)	22	3.0293	4.1955	1.1662	38.4972	[0.4364, 1.6085]	Yes	Wet
GRA - Grande	CHIRPS	SPI-12 minimum (SPI units)	21	-0.8892	0.7881	1.6773	188.6317	[0.6459, 2.0874]	Yes	Dry
GRA - Grande	CHIRPS	SPI-3 drought duration (months)	21	1	0	-1	-100	[-2, -1]	Yes	Dry
GRA - Grande	CHIRPS	SPI-3 drought frequency (months/year)	21	1	0	-1	-100	[-3, -1]	Yes	Dry
GRA - Grande	CHIRPS	Annual precipitation (mm/year)	22	269.5194	438.6833	169.1639	62.765	[28.2744, 226.0338]	Yes	Wet context
GRA - Grande	PISCO	CDD (days)	22	250	229.5	-20.5	-8.2	[-54, 0]	No	Dry
GRA - Grande	PISCO	R95pTOT (mm/year)	22	5.885	13.1831	7.2981	124.0117	[-3.3522, 18.3262]	No	Wet
GRA - Grande	PISCO	Rx1day (mm)	22	5.2336	6.7505	1.5169	28.9841	[-0.2865, 2.6694]	No	Wet
GRA - Grande	PISCO	Rx5day (mm)	22	16.9387	20.3295	3.3909	20.0184	[-3.1339, 7.9585]	No	Wet
GRA - Grande	PISCO	SDII (mm/wet day)	21	2.1122	2.168	0.0558	2.6424	[-0.1912, 0.3127]	No	Wet
GRA - Grande	PISCO	SPI-12 minimum (SPI units)	21	-0.9295	-0.2088	0.7207	77.5363	[-0.103, 1.4526]	No	Dry
GRA - Grande	PISCO	SPI-3 drought duration (months)	21	1	1	0	0	[-2, 0.5]	No	Dry
GRA - Grande	PISCO	SPI-3 drought frequency (months/year)	21	2	1	-1	-50	[-3, 0.5]	No	Dry
GRA - Grande	PISCO	Annual precipitation (mm/year)	22	142.2034	158.0404	15.837	11.1369	[-12.5606, 46.1806]	No	Wet context
GRA - Grande	ERA5-Land	CDD (days)	22	39.5	56.5	17	43.038	[0.5, 30.5125]	Yes	Dry
GRA - Grande	ERA5-Land	DTR (°C)	22	9.06	9.0879	0.0279	0.3077	[-0.1182, 0.2796]	No	Thermal context
GRA - Grande	ERA5-Land	R95pTOT (mm/year)	22	124.4073	99.4387	-24.9686	-20.07	[-112.2403, 79.4756]	No	Wet
GRA - Grande	ERA5-Land	Rx1day (mm)	22	16.688	16.213	-0.475	-2.8466	[-2.7303, 3.0546]	No	Wet
GRA - Grande	ERA5-Land	Rx5day (mm)	22	56.3062	60.5867	4.2805	7.6022	[-8.8484, 9.881]	No	Wet
GRA - Grande	ERA5-Land	SDII (mm/wet day)	22	4.4683	4.4628	-0.0054	-0.1216	[-0.6127, 0.4259]	No	Wet
GRA - Grande	ERA5-Land	SPI-12 minimum (SPI units)	21	-0.5693	-0.9877	-0.4185	-73.5103	[-1.3397, 0.2837]	No	Dry
GRA - Grande	ERA5-Land	SPI-3 drought duration (months)	21	1	1	0	0	[-1, 2]	No	Dry
GRA - Grande	ERA5-Land	SPI-3 drought frequency (months/year)	21	1	1	0	0	[-1, 2]	No	Dry
GRA - Grande	ERA5-Land	Tmax (°C)	22	19.4096	19.7687	0.3591	1.8503	[0.1154, 0.72]	Yes	Thermal
GRA - Grande	ERA5-Land	Tmean (°C)	22	14.3081	14.6692	0.3612	2.5243	[0.1646, 0.6199]	Yes	Thermal
GRA - Grande	ERA5-Land	Tmin (°C)	22	10.3305	10.6604	0.3299	3.1937	[0.1286, 0.5921]	Yes	Thermal
GRA - Grande	ERA5-Land	Annual precipitation (mm/year)	22	901.1817	834.2005	-66.9813	-7.4326	[-152.6386, 55.9234]	No	Wet context
MAN - Mantaro	CHIRPS	CDD (days)	22	24.5	23	-1.5	-6.1224	[-7, 6]	No	Dry
MAN - Mantaro	CHIRPS	R95pTOT (mm/year)	22	122.6399	178.8151	56.1751	45.8049	[17.7782, 98.467]	Yes	Wet
MAN - Mantaro	CHIRPS	Rx1day (mm)	22	18.5596	23.4109	4.8513	26.1388	[1.68, 7.6475]	Yes	Wet
MAN - Mantaro	CHIRPS	Rx5day (mm)	22	45.6136	53.6738	8.0602	17.6705	[-1.2338, 16.3471]	No	Wet
MAN - Mantaro	CHIRPS	SDII (mm/wet day)	22	4.2793	4.6526	0.3733	8.7229	[0.2424, 0.5695]	Yes	Wet
MAN - Mantaro	CHIRPS	SPI-12 minimum (SPI units)	21	-1.1848	-0.1717	1.0132	85.5121	[0.2443, 1.4563]	Yes	Dry
MAN - Mantaro	CHIRPS	SPI-3 drought duration (months)	21	2	0	-2	-100	[-4, 0]	No	Dry
MAN - Mantaro	CHIRPS	SPI-3 drought frequency (months/year)	21	2	0	-2	-100	[-5, 0]	No	Dry
MAN - Mantaro	CHIRPS	Annual precipitation (mm/year)	22	795.7144	881.3965	85.6822	10.768	[-0.8843, 141.8553]	No	Wet context
MAN - Mantaro	PISCO	CDD (days)	22	43.5	43.5	0	0	[-13.0125, 18]	No	Dry
MAN - Mantaro	PISCO	R95pTOT (mm/year)	22	109.4117	145.1863	35.7746	32.6972	[-24.1846, 71.2603]	No	Wet
MAN - Mantaro	PISCO	Rx1day (mm)	22	13.4185	15.4562	2.0376	15.1853	[0.6212, 3.1016]	Yes	Wet
MAN - Mantaro	PISCO	Rx5day (mm)	22	48.2396	52.1166	3.877	8.0369	[-3.8455, 10.1897]	No	Wet
MAN - Mantaro	PISCO	SDII (mm/wet day)	22	4.1001	4.1665	0.0664	1.6191	[-0.1649, 0.5475]	No	Wet

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MAN - Mantaro	PISCO	SPI-12 minimum (SPI units)	21	-0.6978	-0.77	-0.0722	-10.3468	[-0.4417, 1.3322]	No	Dry
MAN - Mantaro	PISCO	SPI-3 drought duration (months)	21	2	1	-1	-50	[-2, 1]	No	Dry
MAN - Mantaro	PISCO	SPI-3 drought frequency (months/year)	21	2	1	-1	-50	[-3, 1.5]	No	Dry
MAN - Mantaro	PISCO	Annual precipitation (mm/year)	22	938.5681	974.7438	36.1757	3.8544	[-64.8723, 122.672]	No	Wet context
MAN - Mantaro	ERA5-Land	CDD (days)	22	9	13	4	44.4444	[1.5, 6.5]	Yes	Dry
MAN - Mantaro	ERA5-Land	DTR (°C)	22	8.7746	8.907	0.1324	1.5091	[-0.08, 0.1963]	No	Thermal context
MAN - Mantaro	ERA5-Land	R95pTOT (mm/year)	22	261.1863	263.5818	2.3955	0.9171	[-38.0423, 72.9395]	No	Wet
MAN - Mantaro	ERA5-Land	Rx1day (mm)	22	17.9286	19.2461	1.3175	7.3486	[-0.2837, 4.0795]	No	Wet
MAN - Mantaro	ERA5-Land	Rx5day (mm)	22	62.8213	64.3859	1.5646	2.4905	[-0.9782, 4.4255]	No	Wet
MAN - Mantaro	ERA5-Land	SDII (mm/wet day)	22	5.4778	5.7834	0.3056	5.5786	[-0.2532, 0.5423]	No	Wet
MAN - Mantaro	ERA5-Land	SPI-12 minimum (SPI units)	21	-0.7331	-0.8713	-0.1381	-18.8431	[-0.7607, 0.5812]	No	Dry
MAN - Mantaro	ERA5-Land	SPI-3 drought duration (months)	21	1	1	0	0	[-1.5, 1]	No	Dry
MAN - Mantaro	ERA5-Land	SPI-3 drought frequency (months/year)	21	2	1.5	-0.5	-25	[-2, 2]	No	Dry
MAN - Mantaro	ERA5-Land	Tmax (°C)	22	11.2878	11.7905	0.5027	4.4536	[0.1799, 0.7828]	Yes	Thermal
MAN - Mantaro	ERA5-Land	Tmean (°C)	22	6.4309	6.8282	0.3973	6.1781	[0.2036, 0.6687]	Yes	Thermal
MAN - Mantaro	ERA5-Land	Tmin (°C)	22	2.5657	2.9561	0.3904	15.2152	[0.0623, 0.7199]	Yes	Thermal
MAN - Mantaro	ERA5-Land	Annual precipitation (mm/year)	22	1831.7087	1792.7881	-38.9206	-2.1248	[-175.7632, 120.6577]	No	Wet context
MAY - Mayo	CHIRPS	CDD (days)	22	14.5	14	-0.5	-3.4483	[-4, 1]	No	Dry
MAY - Mayo	CHIRPS	R95pTOT (mm/year)	22	202.725	378.118	175.393	86.5177	[64.3882, 224.9363]	Yes	Wet
MAY - Mayo	CHIRPS	Rx1day (mm)	22	37.0407	45.8701	8.8293	23.8368	[2.6415, 13.0872]	Yes	Wet
MAY - Mayo	CHIRPS	Rx5day (mm)	22	61.6882	77.7287	16.0405	26.0025	[6.4848, 35.1843]	Yes	Wet
MAY - Mayo	CHIRPS	SDII (mm/wet day)	22	6.6421	7.5594	0.9173	13.8105	[0.6183, 1.4675]	Yes	Wet
MAY - Mayo	CHIRPS	SPI-12 minimum (SPI units)	21	-1.1467	0.1086	1.2553	109.472	[0.5542, 1.4849]	Yes	Dry
MAY - Mayo	CHIRPS	SPI-3 drought duration (months)	21	1	1	0	0	[-2, 1]	No	Dry
MAY - Mayo	CHIRPS	SPI-3 drought frequency (months/year)	21	2	1	-1	-50	[-2, 1]	No	Dry
MAY - Mayo	CHIRPS	Annual precipitation (mm/year)	22	1193.5818	1363.4021	169.8202	14.2278	[102.832, 264.828]	Yes	Wet context
MAY - Mayo	PISCO	CDD (days)	22	9.5	8	-1.5	-15.7895	[-3, 1]	No	Dry
MAY - Mayo	PISCO	R95pTOT (mm/year)	22	300.9405	424.3682	123.4277	41.014	[27.3096, 177.9333]	Yes	Wet
MAY - Mayo	PISCO	Rx1day (mm)	22	29.6607	35.8795	6.2188	20.9664	[1.8514, 12.5772]	Yes	Wet
MAY - Mayo	PISCO	Rx5day (mm)	22	83.4026	86.6721	3.2695	3.9201	[-8.9332, 12.4124]	No	Wet
MAY - Mayo	PISCO	SDII (mm/wet day)	22	5.5658	6.0151	0.4493	8.0723	[0.2754, 0.8958]	Yes	Wet
MAY - Mayo	PISCO	SPI-12 minimum (SPI units)	21	-1.193	-0.12	1.073	89.9382	[0.5283, 1.7737]	Yes	Dry
MAY - Mayo	PISCO	SPI-3 drought duration (months)	21	2	0.5	-1.5	-75	[-3, 0]	No	Dry
MAY - Mayo	PISCO	SPI-3 drought frequency (months/year)	21	2	0.5	-1.5	-75	[-4, 0]	No	Dry
MAY - Mayo	PISCO	Annual precipitation (mm/year)	22	1614.929	1780.7976	165.8685	10.2709	[59.4643, 282.5937]	Yes	Wet context
MAY - Mayo	ERA5-Land	CDD (days)	22	4	5	1	25	[0, 3]	No	Dry
MAY - Mayo	ERA5-Land	DTR (°C)	22	7.5456	7.7201	0.1745	2.3122	[0.0369, 0.2839]	Yes	Thermal context
MAY - Mayo	ERA5-Land	R95pTOT (mm/year)	22	324.0362	586.8917	262.8555	81.1192	[71.4515, 329.3219]	Yes	Wet
MAY - Mayo	ERA5-Land	Rx1day (mm)	22	33.6139	41.8421	8.2282	24.4786	[1.3866, 20.8644]	Yes	Wet
MAY - Mayo	ERA5-Land	Rx5day (mm)	22	81.8288	96.0632	14.2344	17.3953	[3.7509, 25.0347]	Yes	Wet
MAY - Mayo	ERA5-Land	SDII (mm/wet day)	22	6.3502	7.0907	0.7405	11.6605	[0.3326, 1.2577]	Yes	Wet

MAY - Mayo	ERA5-Land	SPI-12 minimum (SPI units)	21	-0.8734	0.0008	0.8743	100.0966	[0.4481, 1.3263]	Yes	Dry
MAY - Mayo	ERA5-Land	SPI-3 drought duration (months)	21	1	0	-1	-100	[-3, 1]	No	Dry
MAY - Mayo	ERA5-Land	SPI-3 drought frequency (months/year)	21	1	0	-1	-100	[-3, 1]	No	Dry
MAY - Mayo	ERA5-Land	Tmax (°C)	22	23.3252	23.6008	0.2756	1.1816	[0.1219, 0.5947]	Yes	Thermal
MAY - Mayo	ERA5-Land	Tmean (°C)	22	19.0286	19.2458	0.2172	1.1416	[0.0874, 0.4208]	Yes	Thermal
MAY - Mayo	ERA5-Land	Tmin (°C)	22	15.7202	15.9068	0.1865	1.1866	[-0.0519, 0.3972]	No	Thermal
MAY - Mayo	ERA5-Land	Annual precipitation (mm/year)	22	2219.94	2405.275	185.335	8.3486	[29.9127, 339.3576]	Yes	Wet context
PAC - Pachitea	CHIRPS	CDD (days)	22	13.5	11	-2.5	-18.5185	[-5, 1]	No	Dry
PAC - Pachitea	CHIRPS	R95pTOT (mm/year)	22	479.886	332.2363	-147.6497	-30.7677	[-209.9631, 13.8034]	No	Wet
PAC - Pachitea	CHIRPS	Rx1day (mm)	22	47.2565	49.6561	2.3996	5.0778	[-2.0754, 9.243]	No	Wet
PAC - Pachitea	CHIRPS	Rx5day (mm)	22	107.1312	108.3426	1.2114	1.1307	[-12.6762, 19.3821]	No	Wet
PAC - Pachitea	CHIRPS	SDII (mm/wet day)	22	9.2284	9.2013	-0.027	-0.293	[-0.7747, 0.3362]	No	Wet
PAC - Pachitea	CHIRPS	SPI-12 minimum (SPI units)	21	-0.0479	-0.9558	-0.9079	-1896.5929	[-1.3114, -0.2071]	Yes	Dry
PAC - Pachitea	CHIRPS	SPI-3 drought duration (months)	21	0	1	1		[0, 3]	No	Dry
PAC - Pachitea	CHIRPS	SPI-3 drought frequency (months/year)	21	0	2	2		[-0.5, 3]	No	Dry
PAC - Pachitea	CHIRPS	Annual precipitation (mm/year)	22	2306.2899	2206.8495	-99.4404	-4.3117	[-346.3316, 15.9929]	No	Wet context
PAC - Pachitea	PISCO	CDD (days)	22	8.5	9	0.5	5.8824	[-1, 3]	No	Dry
PAC - Pachitea	PISCO	R95pTOT (mm/year)	22	508.3727	630.043	121.6704	23.9333	[-46.509, 241.0389]	No	Wet
PAC - Pachitea	PISCO	Rx1day (mm)	22	51.1652	58.0733	6.9081	13.5015	[-7.0323, 12.5759]	No	Wet
PAC - Pachitea	PISCO	Rx5day (mm)	22	134.3157	141.3502	7.0345	5.2373	[-9.5748, 26.8827]	No	Wet
PAC - Pachitea	PISCO	SDII (mm/wet day)	22	9.4369	9.7201	0.2832	3.0009	[-0.0548, 1.194]	No	Wet
PAC - Pachitea	PISCO	SPI-12 minimum (SPI units)	21	-0.6567	-0.6226	0.0341	5.1916	[-0.7121, 1.2525]	No	Dry
PAC - Pachitea	PISCO	SPI-3 drought duration (months)	21	1	1	0	0	[-2, 1]	No	Dry
PAC - Pachitea	PISCO	SPI-3 drought frequency (months/year)	21	2	1	-1	-50	[-3, 1]	No	Dry
PAC - Pachitea	PISCO	Annual precipitation (mm/year)	22	2998.8953	3050.9388	52.0435	1.7354	[-193.7143, 289.4168]	No	Wet context
PAC - Pachitea	ERA5-Land	CDD (days)	22	5.5	7	1.5	27.2727	[0, 3]	No	Dry
PAC - Pachitea	ERA5-Land	DTR (°C)	22	7.2724	7.6071	0.3348	4.6031	[0.2211, 0.5144]	Yes	Thermal context
PAC - Pachitea	ERA5-Land	R95pTOT (mm/year)	22	529.3768	577.4584	48.0815	9.0827	[-70.8289, 161.6563]	No	Wet
PAC - Pachitea	ERA5-Land	Rx1day (mm)	22	53.6804	54.9842	1.3037	2.4287	[-5.3565, 8.0365]	No	Wet
PAC - Pachitea	ERA5-Land	Rx5day (mm)	22	130.9706	122.2857	-8.6849	-6.6312	[-21.2517, 2.2569]	No	Wet
PAC - Pachitea	ERA5-Land	SDII (mm/wet day)	22	8.7891	9.0508	0.2617	2.9776	[-0.3033, 0.7376]	No	Wet
PAC - Pachitea	ERA5-Land	SPI-12 minimum (SPI units)	21	-0.5794	-1.1653	-0.586	-101.1382	[-1.1605, 0.066]	No	Dry
PAC - Pachitea	ERA5-Land	SPI-3 drought duration (months)	21	1	2	1	100	[0, 3]	No	Dry
PAC - Pachitea	ERA5-Land	SPI-3 drought frequency (months/year)	21	1	2	1	100	[0, 3]	No	Dry
PAC - Pachitea	ERA5-Land	Tmax (°C)	22	24.4993	25.1801	0.6807	2.7786	[0.3847, 0.9815]	Yes	Thermal
PAC - Pachitea	ERA5-Land	Tmean (°C)	22	20.2678	20.7725	0.5047	2.4901	[0.3073, 0.763]	Yes	Thermal
PAC - Pachitea	ERA5-Land	Tmin (°C)	22	17.1829	17.5588	0.3759	2.1877	[0.1536, 0.5519]	Yes	Thermal
PAC - Pachitea	ERA5-Land	Annual precipitation (mm/year)	22	3034.5781	2934.342	-100.2361	-3.3031	[-277.9207, 94.8905]	No	Wet context
PIU - Piura	CHIRPS	CDD (days)	22	111.5	116.5	5	4.4843	[-9, 20]	No	Dry
PIU - Piura	CHIRPS	R95pTOT (mm/year)	22	32.8054	36.4067	3.6013	10.9777	[-15.9989, 35.8459]	No	Wet
PIU - Piura	CHIRPS	Rx1day (mm)	22	16.8428	23.1685	6.3257	37.5575	[-0.716, 10.5624]	No	Wet

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PIU - Piura	CHIRPS	Rx5day (mm)	22	35.8488	42.8649	7.0161	19.5714	[-3.4346, 28.4023]	No	Wet
PIU - Piura	CHIRPS	SDII (mm/wet day)	22	4.0567	3.895	-0.1617	-3.986	[-0.8035, 0.6533]	No	Wet
PIU - Piura	CHIRPS	SPI-12 minimum (SPI units)	21	-0.6828	-0.5186	0.1643	24.0573	[-0.516, 0.55]	No	Dry
PIU - Piura	CHIRPS	SPI-3 drought duration (months)	21	1	0	-1	-100	[-2, 1]	No	Dry
PIU - Piura	CHIRPS	SPI-3 drought frequency (months/year)	21	1	0	-1	-100	[-3, 1]	No	Dry
PIU - Piura	CHIRPS	Annual precipitation (mm/year)	22	192.8779	195.1488	2.2709	1.1774	[-56.7008, 54.9117]	No	Wet context
PIU - Piura	PISCO	CDD (days)	22	179.5	175	-4.5	-2.507	[-39, 21.0125]	No	Dry
PIU - Piura	PISCO	R95pTOT (mm/year)	22	12.3585	32.8684	20.5099	165.9583	[-64.3651, 53.6835]	No	Wet
PIU - Piura	PISCO	Rx1day (mm)	22	21.4554	27.0971	5.6416	26.2948	[-9.7056, 18.1174]	No	Wet
PIU - Piura	PISCO	Rx5day (mm)	22	49.3252	63.7469	14.4217	29.238	[-38.1137, 45.974]	No	Wet
PIU - Piura	PISCO	SDII (mm/wet day)	22	3.7809	4.3674	0.5865	15.513	[-1.1358, 1.7085]	No	Wet
PIU - Piura	PISCO	SPI-12 minimum (SPI units)	21	-0.4464	-0.6004	-0.154	-34.4986	[-0.6441, 0.4387]	No	Dry
PIU - Piura	PISCO	SPI-3 drought duration (months)	21	0	0.5	0.5		[-1, 1]	No	Dry
PIU - Piura	PISCO	SPI-3 drought frequency (months/year)	21	0	0.5	0.5		[-1, 1]	No	Dry
PIU - Piura	PISCO	Annual precipitation (mm/year)	22	290.3332	305.1286	14.7954	5.096	[-159.4062, 139.4328]	No	Wet context
PIU - Piura	ERA5-Land	CDD (days)	22	73	54.5	-18.5	-25.3425	[-31.5, 15.0125]	No	Dry
PIU - Piura	ERA5-Land	DTR (°C)	22	9.4782	10.075	0.5969	6.2971	[-0.058, 0.8226]	No	Thermal context
PIU - Piura	ERA5-Land	R95pTOT (mm/year)	22	176.3554	95.1068	-81.2486	-46.0709	[-299.0275, 75.3293]	No	Wet
PIU - Piura	ERA5-Land	Rx1day (mm)	22	42.586	35.2757	-7.3103	-17.1659	[-31.9466, 13.8537]	No	Wet
PIU - Piura	ERA5-Land	Rx5day (mm)	22	111.315	90.9325	-20.3825	-18.3107	[-90.746, 14.7092]	No	Wet
PIU - Piura	ERA5-Land	SDII (mm/wet day)	22	5.4468	4.5541	-0.8927	-16.3887	[-2.52, 0.4757]	No	Wet
PIU - Piura	ERA5-Land	SPI-12 minimum (SPI units)	21	-0.3511	-0.8157	-0.4646	-132.338	[-0.8635, 0.0456]	No	Dry
PIU - Piura	ERA5-Land	SPI-3 drought duration (months)	21	0	1	1		[-1, 1]	No	Dry
PIU - Piura	ERA5-Land	SPI-3 drought frequency (months/year)	21	0	1	1		[-1, 2]	No	Dry
PIU - Piura	ERA5-Land	Tmax (°C)	22	27.5501	27.7823	0.2323	0.843	[0.038, 0.7352]	Yes	Thermal
PIU - Piura	ERA5-Land	Tmean (°C)	22	21.795	22.055	0.2601	1.1933	[-0.2324, 0.5678]	No	Thermal
PIU - Piura	ERA5-Land	Tmin (°C)	22	17.8041	17.9111	0.1071	0.6014	[-0.3889, 0.6652]	No	Thermal
PIU - Piura	ERA5-Land	Annual precipitation (mm/year)	22	1080.1453	865.2252	-214.9201	-19.8973	[-503.1417, 72.7343]	No	Wet context
RIM - Rímac	CHIRPS	CDD (days)	22	72.5	59	-13.5	-18.6207	[-25.5, 5]	No	Dry
RIM - Rímac	CHIRPS	R95pTOT (mm/year)	22	49.9557	28.4331	-21.5226	-43.0834	[-40.2992, -3.0302]	Yes	Wet
RIM - Rímac	CHIRPS	Rx1day (mm)	22	12.1054	10.8872	-1.2182	-10.063	[-3.2967, 0.6633]	No	Wet
RIM - Rímac	CHIRPS	Rx5day (mm)	22	29.5007	26.8359	-2.6648	-9.0329	[-7.8342, 1.4269]	No	Wet
RIM - Rímac	CHIRPS	SDII (mm/wet day)	22	3.276	2.9232	-0.3528	-10.7689	[-0.5829, -0.1911]	Yes	Wet
RIM - Rímac	CHIRPS	SPI-12 minimum (SPI units)	21	-0.6306	-0.5595	0.0711	11.2687	[-0.6464, 0.9951]	No	Dry
RIM - Rímac	CHIRPS	SPI-3 drought duration (months)	21	2	0	-2	-100	[-3, 0]	No	Dry
RIM - Rímac	CHIRPS	SPI-3 drought frequency (months/year)	21	3	0	-3	-100	[-5, -0.5]	Yes	Dry
RIM - Rímac	CHIRPS	Annual precipitation (mm/year)	22	341.1836	333.8315	-7.3521	-2.1549	[-65.1371, 47.7609]	No	Wet context
RIM - Rímac	PISCO	CDD (days)	22	140	129	-11	-7.8571	[-22.5, 10.5125]	No	Dry
RIM - Rímac	PISCO	R95pTOT (mm/year)	22	39.4386	67.4448	28.0062	71.0121	[3.5178, 47.6554]	Yes	Wet
RIM - Rímac	PISCO	Rx1day (mm)	22	8.2327	9.6041	1.3714	16.6575	[0.3847, 3.7089]	Yes	Wet
RIM - Rímac	PISCO	Rx5day (mm)	22	28.5808	29.9172	1.3364	4.676	[-1.6072, 4.4558]	No	Wet

RIM - Rímac	PISCO	SDII (mm/wet day)	22	2.6667	2.9079	0.2412	9.0446	[0.0784, 0.4595]	Yes	Wet
RIM - Rímac	PISCO	SPI-12 minimum (SPI units)	21	-0.983	-0.0919	0.8911	90.6494	[0.0281, 1.6574]	Yes	Dry
RIM - Rímac	PISCO	SPI-3 drought duration (months)	21	2	1	-1	-50	[-3, 0]	No	Dry
RIM - Rímac	PISCO	SPI-3 drought frequency (months/year)	21	3	1	-2	-66.6667	[-3, 0]	No	Dry
RIM - Rímac	PISCO	Annual precipitation (mm/year)	22	342.8769	386.3508	43.4739	12.6791	[-21.6319, 104.4644]	No	Wet context
RIM - Rímac	ERA5-Land	CDD (days)	22	15	18	3	20	[-3.5, 10]	No	Dry
RIM - Rímac	ERA5-Land	DTR (°C)	22	7.5647	7.5087	-0.056	-0.7403	[-0.1873, 0.1058]	No	Thermal context
RIM - Rímac	ERA5-Land	R95pTOT (mm/year)	22	171.9149	166.4258	-5.4892	-3.193	[-65.8317, 43.9751]	No	Wet
RIM - Rímac	ERA5-Land	Rx1day (mm)	22	16.4618	16.1561	-0.3057	-1.8571	[-2.5046, 2.257]	No	Wet
RIM - Rímac	ERA5-Land	Rx5day (mm)	22	57.353	55.941	-1.412	-2.462	[-6.8746, 4.3703]	No	Wet
RIM - Rímac	ERA5-Land	SDII (mm/wet day)	22	5.2069	5.1474	-0.0594	-1.1415	[-0.2593, 0.268]	No	Wet
RIM - Rímac	ERA5-Land	SPI-12 minimum (SPI units)	21	-0.368	-0.5001	-0.1321	-35.9064	[-0.9621, 0.8034]	No	Dry
RIM - Rímac	ERA5-Land	SPI-3 drought duration (months)	21	1	1	0	0	[-2, 1]	No	Dry
RIM - Rímac	ERA5-Land	SPI-3 drought frequency (months/year)	21	1	1	0	0	[-2, 1]	No	Dry
RIM - Rímac	ERA5-Land	Tmax (°C)	22	14.4207	14.8147	0.394	2.7323	[0.0683, 0.6681]	Yes	Thermal
RIM - Rímac	ERA5-Land	Tmean (°C)	22	10.1319	10.5352	0.4033	3.9806	[0.1942, 0.6519]	Yes	Thermal
RIM - Rímac	ERA5-Land	Tmin (°C)	22	6.8811	7.3454	0.4643	6.7479	[0.1603, 0.6888]	Yes	Thermal
RIM - Rímac	ERA5-Land	Annual precipitation (mm/year)	22	1452.3307	1414.0131	-38.3176	-2.6384	[-110.6309, 77.3553]	No	Wet context
AAP - Alto Apurímac	CHIRPS	CDD (days)	22	43.5	37.5	-6	-13.7931	[-13, 8.5]	No	Dry
AAP - Alto Apurímac	CHIRPS	R95pTOT (mm/year)	22	95.7253	129.3121	33.5869	35.0867	[-5.9788, 80.4929]	No	Wet
AAP - Alto Apurímac	CHIRPS	Rx1day (mm)	22	15.3848	18.1607	2.7759	18.0433	[-0.483, 5.9835]	No	Wet
AAP - Alto Apurímac	CHIRPS	Rx5day (mm)	22	46.9525	53.2092	6.2567	13.3256	[-0.5173, 13.3886]	No	Wet
AAP - Alto Apurímac	CHIRPS	SDII (mm/wet day)	22	4.2775	4.4932	0.2156	5.0413	[-0.1058, 0.5136]	No	Wet
AAP - Alto Apurímac	CHIRPS	SPI-12 minimum (SPI units)	21	-0.8299	-0.1996	0.6303	75.948	[0.1286, 1.5727]	Yes	Dry
AAP - Alto Apurímac	CHIRPS	SPI-3 drought duration (months)	21	1	1	0	0	[-3, 1]	No	Dry
AAP - Alto Apurímac	CHIRPS	SPI-3 drought frequency (months/year)	21	1	1	0	0	[-4, 1]	No	Dry
AAP - Alto Apurímac	CHIRPS	Annual precipitation (mm/year)	22	771.4675	810.2078	38.7403	5.0216	[-41.846, 163.5592]	No	Wet context
AAP - Alto Apurímac	PISCO	CDD (days)	22	88.5	79	-9.5	-10.7345	[-35.5125, 26]	No	Dry
AAP - Alto Apurímac	PISCO	R95pTOT (mm/year)	22	100.5645	106.9289	6.3644	6.3287	[-17.3321, 59.3546]	No	Wet
AAP - Alto Apurímac	PISCO	Rx1day (mm)	22	13.49	13.543	0.053	0.3927	[-1.0851, 2.2319]	No	Wet
AAP - Alto Apurímac	PISCO	Rx5day (mm)	22	50.1298	50.4085	0.2787	0.556	[-4.9282, 6.9244]	No	Wet
AAP - Alto Apurímac	PISCO	SDII (mm/wet day)	22	4.1383	4.353	0.2146	5.1868	[-0.101, 0.4581]	No	Wet
AAP - Alto Apurímac	PISCO	SPI-12 minimum (SPI units)	21	-0.8714	-0.4397	0.4316	49.5372	[-0.3187, 1.3426]	No	Dry
AAP - Alto Apurímac	PISCO	SPI-3 drought duration (months)	21	1	0	-1	-100	[-2, 0]	No	Dry
AAP - Alto Apurímac	PISCO	SPI-3 drought frequency (months/year)	21	2	0	-2	-100	[-4, 0.5]	No	Dry
AAP - Alto Apurímac	PISCO	Annual precipitation (mm/year)	22	751.5304	782.6608	31.1304	4.1423	[-65.7776, 113.8893]	No	Wet context
AAP - Alto Apurímac	ERA5-Land	CDD (days)	22	19	30.5	11.5	60.5263	[3.5, 20.5]	Yes	Dry
AAP - Alto Apurímac	ERA5-Land	DTR (°C)	22	10.4045	10.7529	0.3485	3.3492	[0.0174, 0.5533]	Yes	Thermal context
AAP - Alto Apurímac	ERA5-Land	R95pTOT (mm/year)	22	201.5879	190.8755	-10.7124	-5.314	[-90.5982, 101.1485]	No	Wet
AAP - Alto Apurímac	ERA5-Land	Rx1day (mm)	22	18.1755	18.3646	0.1891	1.0407	[-1.098, 2.2381]	No	Wet
AAP - Alto Apurímac	ERA5-Land	Rx5day (mm)	22	64.8533	65.3636	0.5103	0.7869	[-3.7419, 4.3712]	No	Wet

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AAP - Alto Apurímac	ERA5-Land	SDII (mm/wet day)	22	5.7897	5.9182	0.1285	2.2187	[-0.2944, 0.5846]	No	Wet
AAP - Alto Apurímac	ERA5-Land	SPI-12 minimum (SPI units)	21	-0.8562	-0.7337	0.1226	14.3139	[-0.5245, 0.6235]	No	Dry
AAP - Alto Apurímac	ERA5-Land	SPI-3 drought duration (months)	21	1	1	0	0	[-2, 1.5125]	No	Dry
AAP - Alto Apurímac	ERA5-Land	SPI-3 drought frequency (months/year)	21	1	1	0	0	[-2, 2]	No	Dry
AAP - Alto Apurímac	ERA5-Land	Tmax (°C)	22	11.5258	12.4553	0.9295	8.0642	[0.4477, 1.4182]	Yes	Thermal
AAP - Alto Apurímac	ERA5-Land	Tmean (°C)	22	5.856	6.577	0.721	12.313	[0.4006, 1.1371]	Yes	Thermal
AAP - Alto Apurímac	ERA5-Land	Tmin (°C)	22	1.1546	1.7009	0.5463	47.3182	[0.2854, 0.8702]	Yes	Thermal
AAP - Alto Apurímac	ERA5-Land	Annual precipitation (mm/year)	22	1514.8022	1533.0835	18.2813	1.2068	[-203.8246, 84.4506]	No	Wet context

Note. Early and recent periods are 1981-2002 and 2004-2025, respectively; SPI records begin in 1982 and therefore contain one fewer early-period year. Bootstrap intervals summarize uncertainty in the early-to-recent change.

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Table S3. Product-level classification of hydroclimatic trend signals by basin.

Identification				Classification evidence						Outcome	
Basin	Product	Indicator	Domain	Intensification-oriented effect	Magnitude threshold	Adjusted p	Signal direction	Statistical support	Magnitude met?	Signal classification	Profile input?
AZA - Azángaro	CHIRPS	CDD (days)	Dry	-1.5707	Absolute >= 2	0.3304	De-intensification	No	No	Weak de-intensification	Yes
AZA - Azángaro	CHIRPS	R95pTOT (mm/year)	Wet	19.9543%	Relative >= 5%	0.1761	Intensification	No	Yes	Weak intensification	Yes
AZA - Azángaro	CHIRPS	Rx1day (mm)	Wet	5.8464%	Relative >= 5%	0.0159	Intensification	Yes	Yes	Criteria-supported intensification	Yes
AZA - Azángaro	CHIRPS	Rx5day (mm)	Wet	6.5294%	Relative >= 5%	0.0004	Intensification	Yes	Yes	Criteria-supported intensification	Yes
AZA - Azángaro	CHIRPS	SDII (mm/wet day)	Wet	3.006%	Relative >= 3%	0.4085	Intensification	No	Yes	Weak intensification	Yes
AZA - Azángaro	CHIRPS	SPI-12 minimum (SPI units)	Dry	-0.2931	Absolute >= 0.1	0.0865	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
AZA - Azángaro	CHIRPS	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	0.1462	No direction	No	No	No clear change	Yes
AZA - Azángaro	CHIRPS	SPI-3 drought frequency (months/year)	Dry	-0.2817	Absolute >= 0.5	0.1284	De-intensification	No	No	Weak de-intensification	Yes
AZA - Azángaro	CHIRPS	Annual precipitation (mm/year)	Wet context	4.4918%	Relative >= 5%	0.1195	Intensification	No	No	Weak intensification	No
AZA - Azángaro	PISCO	CDD (days)	Dry	0.2571	Absolute >= 2	0.9101	Intensification	No	No	Weak intensification	Yes
AZA - Azángaro	PISCO	R95pTOT (mm/year)	Wet	2.2013%	Relative >= 5%	0.7003	Intensification	No	No	Weak intensification	Yes
AZA - Azángaro	PISCO	Rx1day (mm)	Wet	3.743%	Relative >= 5%	0.0614	Intensification	Yes	No	Weak intensification	Yes
AZA - Azángaro	PISCO	Rx5day (mm)	Wet	-0.2819%	Relative >= 5%	0.8526	De-intensification	No	No	Weak de-intensification	Yes
AZA - Azángaro	PISCO	SDII (mm/wet day)	Wet	0.4964%	Relative >= 3%	0.3718	Intensification	No	No	Weak intensification	Yes
AZA - Azángaro	PISCO	SPI-12 minimum (SPI units)	Dry	-0.0904	Absolute >= 0.1	0.5575	De-intensification	No	No	Weak de-intensification	Yes
AZA - Azángaro	PISCO	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	0.1962	No direction	No	No	No clear change	Yes
AZA - Azángaro	PISCO	SPI-3 drought frequency (months/year)	Dry	0	Absolute >= 0.5	0.1288	No direction	No	No	No clear change	Yes
AZA - Azángaro	PISCO	Annual precipitation (mm/year)	Wet context	2.0059%	Relative >= 5%	0.3796	Intensification	No	No	Weak intensification	No
AZA - Azángaro	ERA5-Land	CDD (days)	Dry	2.4662	Absolute >= 2	0.0188	Intensification	Yes	Yes	Criteria-supported intensification	Yes
AZA - Azángaro	ERA5-Land	DTR (°C)	Thermal context			0.0146	Unavailable	Yes	No	Direction not assigned	No
AZA - Azángaro	ERA5-Land	R95pTOT (mm/year)	Wet	-0.1576%	Relative >= 5%	0.961	De-intensification	No	No	Weak de-intensification	Yes
AZA - Azángaro	ERA5-Land	Rx1day (mm)	Wet	0.3019%	Relative >= 5%	0.8988	Intensification	No	No	Weak intensification	Yes
AZA - Azángaro	ERA5-Land	Rx5day (mm)	Wet	0.294%	Relative >= 5%	0.8372	Intensification	No	No	Weak intensification	Yes
AZA - Azángaro	ERA5-Land	SDII (mm/wet day)	Wet	0.5938%	Relative >= 3%	0.631	Intensification	No	No	Weak intensification	Yes
AZA - Azángaro	ERA5-Land	SPI-12 minimum (SPI units)	Dry	0.1934	Absolute >= 0.1	0.47	Intensification	No	Yes	Weak intensification	Yes
AZA - Azángaro	ERA5-Land	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	0.8015	No direction	No	No	No clear change	Yes
AZA - Azángaro	ERA5-Land	SPI-3 drought frequency (months/year)	Dry	0	Absolute >= 0.5	0.6441	No direction	No	No	No clear change	Yes
AZA - Azángaro	ERA5-Land	Tmax (°C)	Thermal	0.3333	Absolute >= 0.1	6.3732e-7	Intensification	Yes	Yes	Criteria-supported intensification	No
AZA - Azángaro	ERA5-Land	Tmean (°C)	Thermal	0.2826	Absolute >= 0.1	1.9229e-7	Intensification	Yes	Yes	Criteria-supported intensification	No

AZA - Azángaro	ERA5-Land	Tmin (°C)	Thermal	0.1956	Absolute >= 0.1	8.2089e-7	Intensification	Yes	Yes	Criteria-supported intensification	No
AZA - Azángaro	ERA5-Land	Annual precipitation (mm/year)	Wet context	-2.3669%	Relative >= 5%	0.2428	De-intensification	No	No	Weak de-intensification	No
CHL - Chancay-Lambayeque	CHIRPS	CDD (days)	Dry	-0.9091	Absolute >= 2	0.4382	De-intensification	No	No	Weak de-intensification	Yes
CHL - Chancay-Lambayeque	CHIRPS	R95pTOT (mm/year)	Wet	6.0614%	Relative >= 5%	0.4441	Intensification	No	Yes	Weak intensification	Yes
CHL - Chancay-Lambayeque	CHIRPS	Rx1day (mm)	Wet	3.7723%	Relative >= 5%	0.3137	Intensification	No	No	Weak intensification	Yes
CHL - Chancay-Lambayeque	CHIRPS	Rx5day (mm)	Wet	7.6062%	Relative >= 5%	0.0202	Intensification	Yes	Yes	Criteria-supported intensification	Yes
CHL - Chancay-Lambayeque	CHIRPS	SDII (mm/wet day)	Wet	-0.2603%	Relative >= 3%	0.8861	De-intensification	No	No	Weak de-intensification	Yes
CHL - Chancay-Lambayeque	CHIRPS	SPI-12 minimum (SPI units)	Dry	-0.1656	Absolute >= 0.1	0.1514	De-intensification	No	Yes	Weak de-intensification	Yes
CHL - Chancay-Lambayeque	CHIRPS	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	0.4498	No direction	No	No	No clear change	Yes
CHL - Chancay-Lambayeque	CHIRPS	SPI-3 drought frequency (months/year)	Dry	0	Absolute >= 0.5	0.3027	No direction	No	No	No clear change	Yes
CHL - Chancay-Lambayeque	CHIRPS	Annual precipitation (mm/year)	Wet context	3.0583%	Relative >= 5%	0.2081	Intensification	No	No	Weak intensification	No
CHL - Chancay-Lambayeque	PISCO	CDD (days)	Dry	-0.8712	Absolute >= 2	0.9101	De-intensification	No	No	Weak de-intensification	Yes
CHL - Chancay-Lambayeque	PISCO	R95pTOT (mm/year)	Wet	36.2184%	Relative >= 5%	0.0328	Intensification	Yes	Yes	Criteria-supported intensification	Yes
CHL - Chancay-Lambayeque	PISCO	Rx1day (mm)	Wet	12.0647%	Relative >= 5%	0.001	Intensification	Yes	Yes	Criteria-supported intensification	Yes
CHL - Chancay-Lambayeque	PISCO	Rx5day (mm)	Wet	11.448%	Relative >= 5%	0.1227	Intensification	No	Yes	Weak intensification	Yes
CHL - Chancay-Lambayeque	PISCO	SDII (mm/wet day)	Wet	8.5709%	Relative >= 3%	0.0009	Intensification	Yes	Yes	Criteria-supported intensification	Yes
CHL - Chancay-Lambayeque	PISCO	SPI-12 minimum (SPI units)	Dry	-0.1369	Absolute >= 0.1	0.2135	De-intensification	No	Yes	Weak de-intensification	Yes
CHL - Chancay-Lambayeque	PISCO	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	0.9916	No direction	No	No	No clear change	Yes
CHL - Chancay-Lambayeque	PISCO	SPI-3 drought frequency (months/year)	Dry	0	Absolute >= 0.5	0.7751	No direction	No	No	No clear change	Yes
CHL - Chancay-Lambayeque	PISCO	Annual precipitation (mm/year)	Wet context	6.8293%	Relative >= 5%	0.116	Intensification	No	Yes	Weak intensification	No
CHL - Chancay-Lambayeque	ERA5-Land	CDD (days)	Dry	0	Absolute >= 2	0.9922	No direction	No	No	No clear change	Yes
CHL - Chancay-Lambayeque	ERA5-Land	DTR (°C)	Thermal context			0.2403	Unavailable	No	No	Direction not assigned	No
CHL - Chancay-Lambayeque	ERA5-Land	R95pTOT (mm/year)	Wet	-6.5474%	Relative >= 5%	0.4856	De-intensification	No	Yes	Weak de-intensification	Yes
CHL - Chancay-Lambayeque	ERA5-Land	Rx1day (mm)	Wet	-1.0111%	Relative >= 5%	0.8988	De-intensification	No	No	Weak de-intensification	Yes
CHL - Chancay-Lambayeque	ERA5-Land	Rx5day (mm)	Wet	-2.2613%	Relative >= 5%	0.6797	De-intensification	No	No	Weak de-intensification	Yes
CHL - Chancay-Lambayeque	ERA5-Land	SDII (mm/wet day)	Wet	-0.8566%	Relative >= 3%	0.7264	De-intensification	No	No	Weak de-intensification	Yes
CHL - Chancay-Lambayeque	ERA5-Land	SPI-12 minimum (SPI units)	Dry	0.0991	Absolute >= 0.1	0.47	Intensification	No	No	Weak intensification	Yes
CHL - Chancay-Lambayeque	ERA5-Land	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	0.838	No direction	No	No	No clear change	Yes
CHL - Chancay-Lambayeque	ERA5-Land	SPI-3 drought frequency (months/year)	Dry	0	Absolute >= 0.5	0.7315	No direction	No	No	No clear change	Yes
CHL - Chancay-Lambayeque	ERA5-Land	Tmax (°C)	Thermal	0.1751	Absolute >= 0.1	8.4776e-6	Intensification	Yes	Yes	Criteria-supported intensification	No
CHL - Chancay-Lambayeque	ERA5-Land	Tmean (°C)	Thermal	0.1714	Absolute >= 0.1	3.1104e-16	Intensification	Yes	Yes	Criteria-supported intensification	No
CHL - Chancay-Lambayeque	ERA5-Land	Tmin (°C)	Thermal	0.1582	Absolute >= 0.1	2.3918e-23	Intensification	Yes	Yes	Criteria-supported intensification	No
CHL - Chancay-Lambayeque	ERA5-Land	Annual precipitation (mm/year)	Wet context	-1.4022%	Relative >= 5%	0.7137	De-intensification	No	No	Weak de-intensification	No

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GRA - Grande	CHIRPS	CDD (days)	Dry	-2.8802	Absolute >= 2	0.6585	De-intensification	No	Yes	Weak de-intensification	Yes
GRA - Grande	CHIRPS	R95pTOT (mm/year)	Wet	62.4504%	Relative >= 5%	0.1204	Intensification	No	Yes	Weak intensification	Yes
GRA - Grande	CHIRPS	Rx1day (mm)	Wet	19.2837%	Relative >= 5%	0.0058	Intensification	Yes	Yes	Criteria-supported intensification	Yes
GRA - Grande	CHIRPS	Rx5day (mm)	Wet	20.0434%	Relative >= 5%	0.0002	Intensification	Yes	Yes	Criteria-supported intensification	Yes
GRA - Grande	CHIRPS	SDII (mm/wet day)	Wet	11.1714%	Relative >= 3%	0.0128	Intensification	Yes	Yes	Criteria-supported intensification	Yes
GRA - Grande	CHIRPS	SPI-12 minimum (SPI units)	Dry	-0.5842	Absolute >= 0.1	9.5338e-7	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
GRA - Grande	CHIRPS	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	0.1693	No direction	No	No	No clear change	Yes
GRA - Grande	CHIRPS	SPI-3 drought frequency (months/year)	Dry	0	Absolute >= 0.5	0.1473	No direction	No	No	No clear change	Yes
GRA - Grande	CHIRPS	Annual precipitation (mm/year)	Wet context	20.4272%	Relative >= 5%	0.0064	Intensification	Yes	Yes	Criteria-supported intensification	No
GRA - Grande	PISCO	CDD (days)	Dry	-11	Absolute >= 2	0.1408	De-intensification	No	Yes	Weak de-intensification	Yes
GRA - Grande	PISCO	R95pTOT (mm/year)	Wet	25.9735%	Relative >= 5%	0.0466	Intensification	Yes	Yes	Criteria-supported intensification	Yes
GRA - Grande	PISCO	Rx1day (mm)	Wet	12.6248%	Relative >= 5%	0.0102	Intensification	Yes	Yes	Criteria-supported intensification	Yes
GRA - Grande	PISCO	Rx5day (mm)	Wet	7.4309%	Relative >= 5%	0.1799	Intensification	No	Yes	Weak intensification	Yes
GRA - Grande	PISCO	SDII (mm/wet day)	Wet	2.9659%	Relative >= 3%	0.1101	Intensification	No	No	Weak intensification	Yes
GRA - Grande	PISCO	SPI-12 minimum (SPI units)	Dry	-0.423	Absolute >= 0.1	0.0023	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
GRA - Grande	PISCO	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	0.1541	No direction	No	No	No clear change	Yes
GRA - Grande	PISCO	SPI-3 drought frequency (months/year)	Dry	-0.2857	Absolute >= 0.5	0.0899	De-intensification	Yes	No	Weak de-intensification	Yes
GRA - Grande	PISCO	Annual precipitation (mm/year)	Wet context	7.3883%	Relative >= 5%	0.0874	Intensification	Yes	Yes	Criteria-supported intensification	No
GRA - Grande	ERA5-Land	CDD (days)	Dry	3.9697	Absolute >= 2	0.1394	Intensification	No	Yes	Weak intensification	Yes
GRA - Grande	ERA5-Land	DTR (°C)	Thermal context			0.5762	Unavailable	No	No	Direction not assigned	No
GRA - Grande	ERA5-Land	R95pTOT (mm/year)	Wet	-2.0293%	Relative >= 5%	0.9076	De-intensification	No	No	Weak de-intensification	Yes
GRA - Grande	ERA5-Land	Rx1day (mm)	Wet	0.6896%	Relative >= 5%	0.8988	Intensification	No	No	Weak intensification	Yes
GRA - Grande	ERA5-Land	Rx5day (mm)	Wet	1.1012%	Relative >= 5%	0.6797	Intensification	No	No	Weak intensification	Yes
GRA - Grande	ERA5-Land	SDII (mm/wet day)	Wet	1.0505%	Relative >= 3%	0.631	Intensification	No	No	Weak intensification	Yes
GRA - Grande	ERA5-Land	SPI-12 minimum (SPI units)	Dry	0.1034	Absolute >= 0.1	0.6653	Intensification	No	Yes	Weak intensification	Yes
GRA - Grande	ERA5-Land	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	0.8015	No direction	No	No	No clear change	Yes
GRA - Grande	ERA5-Land	SPI-3 drought frequency (months/year)	Dry	0	Absolute >= 0.5	0.404	No direction	No	No	No clear change	Yes
GRA - Grande	ERA5-Land	Tmax (°C)	Thermal	0.2106	Absolute >= 0.1	2.9328e-14	Intensification	Yes	Yes	Criteria-supported intensification	No
GRA - Grande	ERA5-Land	Tmean (°C)	Thermal	0.2046	Absolute >= 0.1	1.8168e-30	Intensification	Yes	Yes	Criteria-supported intensification	No
GRA - Grande	ERA5-Land	Tmin (°C)	Thermal	0.1605	Absolute >= 0.1	9.5283e-19	Intensification	Yes	Yes	Criteria-supported intensification	No
GRA - Grande	ERA5-Land	Annual precipitation (mm/year)	Wet context	-1.9123%	Relative >= 5%	0.6109	De-intensification	No	No	Weak de-intensification	No
MAN - Mantaro	CHIRPS	CDD (days)	Dry	-0.702	Absolute >= 2	0.6218	De-intensification	No	No	Weak de-intensification	Yes
MAN - Mantaro	CHIRPS	R95pTOT (mm/year)	Wet	18.6309%	Relative >= 5%	0.0004	Intensification	Yes	Yes	Criteria-supported intensification	Yes

MAN - Mantaro	CHIRPS	Rx1day (mm)	Wet	8.1569%	Relative >= 5%	0.0108	Intensification	Yes	Yes	Criteria-supported intensification	Yes
MAN - Mantaro	CHIRPS	Rx5day (mm)	Wet	8.9849%	Relative >= 5%	0.0004	Intensification	Yes	Yes	Criteria-supported intensification	Yes
MAN - Mantaro	CHIRPS	SDII (mm/wet day)	Wet	3.1987%	Relative >= 3%	0.0002	Intensification	Yes	Yes	Criteria-supported intensification	Yes
MAN - Mantaro	CHIRPS	SPI-12 minimum (SPI units)	Dry	-0.4398	Absolute >= 0.1	0.0007	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
MAN - Mantaro	CHIRPS	SPI-3 drought duration (months)	Dry	-0.3923	Absolute >= 0.25	0.0221	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
MAN - Mantaro	CHIRPS	SPI-3 drought frequency (months/year)	Dry	-0.5882	Absolute >= 0.5	0.0005	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
MAN - Mantaro	CHIRPS	Annual precipitation (mm/year)	Wet context	3.6744%	Relative >= 5%	0.046	Intensification	Yes	No	Weak intensification	No
MAN - Mantaro	PISCO	CDD (days)	Dry	0.3852	Absolute >= 2	0.9101	Intensification	No	No	Weak intensification	Yes
MAN - Mantaro	PISCO	R95pTOT (mm/year)	Wet	12.0593%	Relative >= 5%	0.0483	Intensification	Yes	Yes	Criteria-supported intensification	Yes
MAN - Mantaro	PISCO	Rx1day (mm)	Wet	5.2336%	Relative >= 5%	0.0294	Intensification	Yes	Yes	Criteria-supported intensification	Yes
MAN - Mantaro	PISCO	Rx5day (mm)	Wet	4.1244%	Relative >= 5%	0.1203	Intensification	No	No	Weak intensification	Yes
MAN - Mantaro	PISCO	SDII (mm/wet day)	Wet	2.1534%	Relative >= 3%	0.1369	Intensification	No	No	Weak intensification	Yes
MAN - Mantaro	PISCO	SPI-12 minimum (SPI units)	Dry	-0.2065	Absolute >= 0.1	0.2135	De-intensification	No	Yes	Weak de-intensification	Yes
MAN - Mantaro	PISCO	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	0.2664	No direction	No	No	No clear change	Yes
MAN - Mantaro	PISCO	SPI-3 drought frequency (months/year)	Dry	0	Absolute >= 0.5	0.2216	No direction	No	No	No clear change	Yes
MAN - Mantaro	PISCO	Annual precipitation (mm/year)	Wet context	1.0199%	Relative >= 5%	0.5249	Intensification	No	No	Weak intensification	No
MAN - Mantaro	ERA5-Land	CDD (days)	Dry	1.6667	Absolute >= 2	0.0008	Intensification	Yes	No	Weak intensification	Yes
MAN - Mantaro	ERA5-Land	DTR (°C)	Thermal context			0.7599	Unavailable	No	No	Direction not assigned	No
MAN - Mantaro	ERA5-Land	R95pTOT (mm/year)	Wet	1.0565%	Relative >= 5%	0.9076	Intensification	No	No	Weak intensification	Yes
MAN - Mantaro	ERA5-Land	Rx1day (mm)	Wet	2.4776%	Relative >= 5%	0.0494	Intensification	Yes	No	Weak intensification	Yes
MAN - Mantaro	ERA5-Land	Rx5day (mm)	Wet	1.4927%	Relative >= 5%	0.1478	Intensification	No	No	Weak intensification	Yes
MAN - Mantaro	ERA5-Land	SDII (mm/wet day)	Wet	0.8797%	Relative >= 3%	0.631	Intensification	No	No	Weak intensification	Yes
MAN - Mantaro	ERA5-Land	SPI-12 minimum (SPI units)	Dry	0.021	Absolute >= 0.1	0.9275	Intensification	No	No	Weak intensification	Yes
MAN - Mantaro	ERA5-Land	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	1	No direction	No	No	No clear change	Yes
MAN - Mantaro	ERA5-Land	SPI-3 drought frequency (months/year)	Dry	0	Absolute >= 0.5	0.8891	No direction	No	No	No clear change	Yes
MAN - Mantaro	ERA5-Land	Tmax (°C)	Thermal	0.2147	Absolute >= 0.1	7.1044e-10	Intensification	Yes	Yes	Criteria-supported intensification	No
MAN - Mantaro	ERA5-Land	Tmean (°C)	Thermal	0.2128	Absolute >= 0.1	2.5962e-13	Intensification	Yes	Yes	Criteria-supported intensification	No
MAN - Mantaro	ERA5-Land	Tmin (°C)	Thermal	0.1971	Absolute >= 0.1	1.5346e-11	Intensification	Yes	Yes	Criteria-supported intensification	No
MAN - Mantaro	ERA5-Land	Annual precipitation (mm/year)	Wet context	-0.6776%	Relative >= 5%	0.6109	De-intensification	No	No	Weak de-intensification	No
MAY - Mayo	CHIRPS	CDD (days)	Dry	-0.5334	Absolute >= 2	0.4382	De-intensification	No	No	Weak de-intensification	Yes
MAY - Mayo	CHIRPS	R95pTOT (mm/year)	Wet	24.1387%	Relative >= 5%	8.9914e-9	Intensification	Yes	Yes	Criteria-supported intensification	Yes
MAY - Mayo	CHIRPS	Rx1day (mm)	Wet	8.9233%	Relative >= 5%	0.0012	Intensification	Yes	Yes	Criteria-supported intensification	Yes
MAY - Mayo	CHIRPS	Rx5day (mm)	Wet	10.3637%	Relative >= 5%	0.0002	Intensification	Yes	Yes	Criteria-supported intensification	Yes

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MAY - Mayo	CHIRPS	SDII (mm/wet day)	Wet	6.9526%	Relative >= 3%	2.5988e-8	Intensification	Yes	Yes	Criteria-supported intensification	Yes
MAY - Mayo	CHIRPS	SPI-12 minimum (SPI units)	Dry	-0.4423	Absolute >= 0.1	6.9125e-9	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
MAY - Mayo	CHIRPS	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	0.3129	No direction	No	No	No clear change	Yes
MAY - Mayo	CHIRPS	SPI-3 drought frequency (months/year)	Dry	0	Absolute >= 0.5	0.1473	No direction	No	No	No clear change	Yes
MAY - Mayo	CHIRPS	Annual precipitation (mm/year)	Wet context	6.4237%	Relative >= 5%	2.6871e-46	Intensification	Yes	Yes	Criteria-supported intensification	No
MAY - Mayo	PISCO	CDD (days)	Dry	-0.4654	Absolute >= 2	0.6015	De-intensification	No	No	Weak de-intensification	Yes
MAY - Mayo	PISCO	R95pTOT (mm/year)	Wet	13.7361%	Relative >= 5%	0.0328	Intensification	Yes	Yes	Criteria-supported intensification	Yes
MAY - Mayo	PISCO	Rx1day (mm)	Wet	7.1032%	Relative >= 5%	0.0294	Intensification	Yes	Yes	Criteria-supported intensification	Yes
MAY - Mayo	PISCO	Rx5day (mm)	Wet	1.1595%	Relative >= 5%	0.6493	Intensification	No	No	Weak intensification	Yes
MAY - Mayo	PISCO	SDII (mm/wet day)	Wet	4.366%	Relative >= 3%	0.0009	Intensification	Yes	Yes	Criteria-supported intensification	Yes
MAY - Mayo	PISCO	SPI-12 minimum (SPI units)	Dry	-0.4954	Absolute >= 0.1	6.6984e-5	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
MAY - Mayo	PISCO	SPI-3 drought duration (months)	Dry	-0.5	Absolute >= 0.25	0.0062	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
MAY - Mayo	PISCO	SPI-3 drought frequency (months/year)	Dry	-0.6667	Absolute >= 0.5	0.0026	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
MAY - Mayo	PISCO	Annual precipitation (mm/year)	Wet context	4.8467%	Relative >= 5%	0.0088	Intensification	Yes	No	Weak intensification	No
MAY - Mayo	ERA5-Land	CDD (days)	Dry	0.4762	Absolute >= 2	0.0283	Intensification	Yes	No	Weak intensification	Yes
MAY - Mayo	ERA5-Land	DTR (°C)	Thermal context			0.055	Unavailable	Yes	No	Direction not assigned	No
MAY - Mayo	ERA5-Land	R95pTOT (mm/year)	Wet	20.1963%	Relative >= 5%	0.3623	Intensification	No	Yes	Weak intensification	Yes
MAY - Mayo	ERA5-Land	Rx1day (mm)	Wet	9.8105%	Relative >= 5%	0.06	Intensification	Yes	Yes	Criteria-supported intensification	Yes
MAY - Mayo	ERA5-Land	Rx5day (mm)	Wet	5.6475%	Relative >= 5%	0.0722	Intensification	Yes	Yes	Criteria-supported intensification	Yes
MAY - Mayo	ERA5-Land	SDII (mm/wet day)	Wet	4.6889%	Relative >= 3%	0.4372	Intensification	No	Yes	Weak intensification	Yes
MAY - Mayo	ERA5-Land	SPI-12 minimum (SPI units)	Dry	-0.2667	Absolute >= 0.1	0.47	De-intensification	No	Yes	Weak de-intensification	Yes
MAY - Mayo	ERA5-Land	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	0.838	No direction	No	No	No clear change	Yes
MAY - Mayo	ERA5-Land	SPI-3 drought frequency (months/year)	Dry	0	Absolute >= 0.5	0.7238	No direction	No	No	No clear change	Yes
MAY - Mayo	ERA5-Land	Tmax (°C)	Thermal	0.1458	Absolute >= 0.1	2.7587e-7	Intensification	Yes	Yes	Criteria-supported intensification	No
MAY - Mayo	ERA5-Land	Tmean (°C)	Thermal	0.1159	Absolute >= 0.1	1.9956e-6	Intensification	Yes	Yes	Criteria-supported intensification	No
MAY - Mayo	ERA5-Land	Tmin (°C)	Thermal	0.0927	Absolute >= 0.1	0.005	Intensification	Yes	No	Weak intensification	No
MAY - Mayo	ERA5-Land	Annual precipitation (mm/year)	Wet context	3.0886%	Relative >= 5%	0.3925	Intensification	No	No	Weak intensification	No
PAC - Pachitea	CHIRPS	CDD (days)	Dry	-0.3923	Absolute >= 2	0.4382	De-intensification	No	No	Weak de-intensification	Yes
PAC - Pachitea	CHIRPS	R95pTOT (mm/year)	Wet	-3.9028%	Relative >= 5%	0.5142	De-intensification	No	No	Weak de-intensification	Yes
PAC - Pachitea	CHIRPS	Rx1day (mm)	Wet	4.5243%	Relative >= 5%	0.026	Intensification	Yes	No	Weak intensification	Yes
PAC - Pachitea	CHIRPS	Rx5day (mm)	Wet	3.4303%	Relative >= 5%	0.0834	Intensification	Yes	No	Weak intensification	Yes
PAC - Pachitea	CHIRPS	SDII (mm/wet day)	Wet	-0.8205%	Relative >= 3%	0.6343	De-intensification	No	No	Weak de-intensification	Yes
PAC - Pachitea	CHIRPS	SPI-12 minimum (SPI units)	Dry	0.2705	Absolute >= 0.1	0.1388	Intensification	No	Yes	Weak intensification	Yes

PAC - Pachitea	CHIRPS	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	0.3129	No direction	No	No	No clear change	Yes
PAC - Pachitea	CHIRPS	SPI-3 drought frequency (months/year)	Dry	0	Absolute >= 0.5	0.3027	No direction	No	No	No clear change	Yes
PAC - Pachitea	CHIRPS	Annual precipitation (mm/year)	Wet context	-2.3583%	Relative >= 5%	0.1016	De-intensification	No	No	Weak de-intensification	No
PAC - Pachitea	PISCO	CDD (days)	Dry	0	Absolute >= 2	0.6581	No direction	No	No	No clear change	Yes
PAC - Pachitea	PISCO	R95pTOT (mm/year)	Wet	9.2452%	Relative >= 5%	0.1002	Intensification	No	Yes	Weak intensification	Yes
PAC - Pachitea	PISCO	Rx1day (mm)	Wet	3.508%	Relative >= 5%	0.2409	Intensification	No	No	Weak intensification	Yes
PAC - Pachitea	PISCO	Rx5day (mm)	Wet	4.4112%	Relative >= 5%	0.1203	Intensification	No	No	Weak intensification	Yes
PAC - Pachitea	PISCO	SDII (mm/wet day)	Wet	1.9616%	Relative >= 3%	0.1101	Intensification	No	No	Weak intensification	Yes
PAC - Pachitea	PISCO	SPI-12 minimum (SPI units)	Dry	-0.1674	Absolute >= 0.1	0.1595	De-intensification	No	Yes	Weak de-intensification	Yes
PAC - Pachitea	PISCO	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	0.1541	No direction	No	No	No clear change	Yes
PAC - Pachitea	PISCO	SPI-3 drought frequency (months/year)	Dry	-0.3125	Absolute >= 0.5	0.042	De-intensification	Yes	No	Weak de-intensification	Yes
PAC - Pachitea	PISCO	Annual precipitation (mm/year)	Wet context	0.892%	Relative >= 5%	0.4564	Intensification	No	No	Weak intensification	No
PAC - Pachitea	ERA5-Land	CDD (days)	Dry	0.8	Absolute >= 2	0.0214	Intensification	Yes	No	Weak intensification	Yes
PAC - Pachitea	ERA5-Land	DTR (°C)	Thermal context			1.6712e-7	Unavailable	Yes	No	Direction not assigned	No
PAC - Pachitea	ERA5-Land	R95pTOT (mm/year)	Wet	4.7155%	Relative >= 5%	0.4856	Intensification	No	No	Weak intensification	Yes
PAC - Pachitea	ERA5-Land	Rx1day (mm)	Wet	1.4632%	Relative >= 5%	0.8988	Intensification	No	No	Weak intensification	Yes
PAC - Pachitea	ERA5-Land	Rx5day (mm)	Wet	-3.2524%	Relative >= 5%	0.1478	De-intensification	No	No	Weak de-intensification	Yes
PAC - Pachitea	ERA5-Land	SDII (mm/wet day)	Wet	0.4526%	Relative >= 3%	0.7377	Intensification	No	No	Weak intensification	Yes
PAC - Pachitea	ERA5-Land	SPI-12 minimum (SPI units)	Dry	0.3043	Absolute >= 0.1	0.0139	Intensification	Yes	Yes	Criteria-supported intensification	Yes
PAC - Pachitea	ERA5-Land	SPI-3 drought duration (months)	Dry	0.4167	Absolute >= 0.25	0.0252	Intensification	Yes	Yes	Criteria-supported intensification	Yes
PAC - Pachitea	ERA5-Land	SPI-3 drought frequency (months/year)	Dry	0.3571	Absolute >= 0.5	0.0879	Intensification	Yes	No	Weak intensification	Yes
PAC - Pachitea	ERA5-Land	Tmax (°C)	Thermal	0.3087	Absolute >= 0.1	4.5648e-25	Intensification	Yes	Yes	Criteria-supported intensification	No
PAC - Pachitea	ERA5-Land	Tmean (°C)	Thermal	0.2453	Absolute >= 0.1	3.3245e-29	Intensification	Yes	Yes	Criteria-supported intensification	No
PAC - Pachitea	ERA5-Land	Tmin (°C)	Thermal	0.1767	Absolute >= 0.1	9.6124e-33	Intensification	Yes	Yes	Criteria-supported intensification	No
PAC - Pachitea	ERA5-Land	Annual precipitation (mm/year)	Wet context	-2.1179%	Relative >= 5%	0.2428	De-intensification	No	No	Weak de-intensification	No
PIU - Piura	CHIRPS	CDD (days)	Dry	0.6458	Absolute >= 2	0.7651	Intensification	No	No	Weak intensification	Yes
PIU - Piura	CHIRPS	R95pTOT (mm/year)	Wet	10.2872%	Relative >= 5%	0.3545	Intensification	No	Yes	Weak intensification	Yes
PIU - Piura	CHIRPS	Rx1day (mm)	Wet	8.2649%	Relative >= 5%	0.1348	Intensification	No	Yes	Weak intensification	Yes
PIU - Piura	CHIRPS	Rx5day (mm)	Wet	10.8226%	Relative >= 5%	0.0596	Intensification	Yes	Yes	Criteria-supported intensification	Yes
PIU - Piura	CHIRPS	SDII (mm/wet day)	Wet	1.0303%	Relative >= 3%	0.6343	Intensification	No	No	Weak intensification	Yes
PIU - Piura	CHIRPS	SPI-12 minimum (SPI units)	Dry	-0.0976	Absolute >= 0.1	0.3545	De-intensification	No	No	Weak de-intensification	Yes
PIU - Piura	CHIRPS	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	0.3129	No direction	No	No	No clear change	Yes
PIU - Piura	CHIRPS	SPI-3 drought frequency (months/year)	Dry	0	Absolute >= 0.5	0.3067	No direction	No	No	No clear change	Yes

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PIU - Piura	CHIRPS	Annual precipitation (mm/year)	Wet context	4.5719%	Relative >= 5%	0.2667	Intensification	No	No	Weak intensification	No
PIU - Piura	PISCO	CDD (days)	Dry	-4.4803	Absolute >= 2	0.6015	De-intensification	No	Yes	Weak de-intensification	Yes
PIU - Piura	PISCO	R95pTOT (mm/year)	Wet	0%	Relative >= 5%	0.6134	No direction	No	No	No clear change	Yes
PIU - Piura	PISCO	Rx1day (mm)	Wet	12.3354%	Relative >= 5%	0.1316	Intensification	No	Yes	Weak intensification	Yes
PIU - Piura	PISCO	Rx5day (mm)	Wet	10.8077%	Relative >= 5%	0.2017	Intensification	No	Yes	Weak intensification	Yes
PIU - Piura	PISCO	SDII (mm/wet day)	Wet	6.4368%	Relative >= 3%	0.2329	Intensification	No	Yes	Weak intensification	Yes
PIU - Piura	PISCO	SPI-12 minimum (SPI units)	Dry	-0.0573	Absolute >= 0.1	0.5575	De-intensification	No	No	Weak de-intensification	Yes
PIU - Piura	PISCO	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	0.869	No direction	No	No	No clear change	Yes
PIU - Piura	PISCO	SPI-3 drought frequency (months/year)	Dry	0	Absolute >= 0.5	0.7751	No direction	No	No	No clear change	Yes
PIU - Piura	PISCO	Annual precipitation (mm/year)	Wet context	4.4356%	Relative >= 5%	0.3796	Intensification	No	No	Weak intensification	No
PIU - Piura	ERA5-Land	CDD (days)	Dry	-3.7171	Absolute >= 2	0.1317	De-intensification	No	Yes	Weak de-intensification	Yes
PIU - Piura	ERA5-Land	DTR (°C)	Thermal context			0.2186	Unavailable	No	No	Direction not assigned	No
PIU - Piura	ERA5-Land	R95pTOT (mm/year)	Wet	-10.4069%	Relative >= 5%	0.6974	De-intensification	No	Yes	Weak de-intensification	Yes
PIU - Piura	ERA5-Land	Rx1day (mm)	Wet	-3.5542%	Relative >= 5%	0.8988	De-intensification	No	No	Weak de-intensification	Yes
PIU - Piura	ERA5-Land	Rx5day (mm)	Wet	-4.6757%	Relative >= 5%	0.5863	De-intensification	No	No	Weak de-intensification	Yes
PIU - Piura	ERA5-Land	SDII (mm/wet day)	Wet	-2.7127%	Relative >= 3%	0.631	De-intensification	No	No	Weak de-intensification	Yes
PIU - Piura	ERA5-Land	SPI-12 minimum (SPI units)	Dry	0.046	Absolute >= 0.1	0.6653	Intensification	No	No	Weak intensification	Yes
PIU - Piura	ERA5-Land	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	1	No direction	No	No	No clear change	Yes
PIU - Piura	ERA5-Land	SPI-3 drought frequency (months/year)	Dry	0	Absolute >= 0.5	0.9208	No direction	No	No	No clear change	Yes
PIU - Piura	ERA5-Land	Tmax (°C)	Thermal	0.1053	Absolute >= 0.1	0.0983	Intensification	Yes	Yes	Criteria-supported intensification	No
PIU - Piura	ERA5-Land	Tmean (°C)	Thermal	0.0915	Absolute >= 0.1	0.1566	Intensification	No	No	Weak intensification	No
PIU - Piura	ERA5-Land	Tmin (°C)	Thermal	0.0797	Absolute >= 0.1	0.2035	Intensification	No	No	Weak intensification	No
PIU - Piura	ERA5-Land	Annual precipitation (mm/year)	Wet context	-2.8342%	Relative >= 5%	0.6109	De-intensification	No	No	Weak de-intensification	No
RIM - Rímac	CHIRPS	CDD (days)	Dry	-5.4356	Absolute >= 2	0.001	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
RIM - Rímac	CHIRPS	R95pTOT (mm/year)	Wet	-23.5031%	Relative >= 5%	0.004	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
RIM - Rímac	CHIRPS	Rx1day (mm)	Wet	-7.856%	Relative >= 5%	0.0108	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
RIM - Rímac	CHIRPS	Rx5day (mm)	Wet	-5.7427%	Relative >= 5%	0.0202	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
RIM - Rímac	CHIRPS	SDII (mm/wet day)	Wet	-5.9179%	Relative >= 3%	4.6126e-5	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
RIM - Rímac	CHIRPS	SPI-12 minimum (SPI units)	Dry	-0.028	Absolute >= 0.1	0.8693	De-intensification	No	No	Weak de-intensification	Yes
RIM - Rímac	CHIRPS	SPI-3 drought duration (months)	Dry	-0.3775	Absolute >= 0.25	1.2106e-5	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
RIM - Rímac	CHIRPS	SPI-3 drought frequency (months/year)	Dry	-0.5882	Absolute >= 0.5	0.0023	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
RIM - Rímac	CHIRPS	Annual precipitation (mm/year)	Wet context	-1.1743%	Relative >= 5%	0.6884	De-intensification	No	No	Weak de-intensification	No
RIM - Rímac	PISCO	CDD (days)	Dry	-2.8571	Absolute >= 2	0.6015	De-intensification	No	Yes	Weak de-intensification	Yes

RIM - Rímac	PISCO	R95pTOT (mm/year)	Wet	21.4579%	Relative >= 5%	0.0328	Intensification	Yes	Yes	Criteria-supported intensification	Yes
RIM - Rímac	PISCO	Rx1day (mm)	Wet	9.1128%	Relative >= 5%	0.0002	Intensification	Yes	Yes	Criteria-supported intensification	Yes
RIM - Rímac	PISCO	Rx5day (mm)	Wet	2.9139%	Relative >= 5%	0.2572	Intensification	No	No	Weak intensification	Yes
RIM - Rímac	PISCO	SDII (mm/wet day)	Wet	3.5074%	Relative >= 3%	0.027	Intensification	Yes	Yes	Criteria-supported intensification	Yes
RIM - Rímac	PISCO	SPI-12 minimum (SPI units)	Dry	-0.3526	Absolute >= 0.1	0.0037	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
RIM - Rímac	PISCO	SPI-3 drought duration (months)	Dry	-0.3704	Absolute >= 0.25	0.0206	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
RIM - Rímac	PISCO	SPI-3 drought frequency (months/year)	Dry	-0.4348	Absolute >= 0.5	0.0185	De-intensification	Yes	No	Weak de-intensification	Yes
RIM - Rímac	PISCO	Annual precipitation (mm/year)	Wet context	5.527%	Relative >= 5%	0.0633	Intensification	Yes	Yes	Criteria-supported intensification	No
RIM - Rímac	ERA5-Land	CDD (days)	Dry	1.3246	Absolute >= 2	0.1417	Intensification	No	No	Weak intensification	Yes
RIM - Rímac	ERA5-Land	DTR (°C)	Thermal context			0.055	Unavailable	Yes	No	Direction not assigned	No
RIM - Rímac	ERA5-Land	R95pTOT (mm/year)	Wet	-2.9077%	Relative >= 5%	0.9076	De-intensification	No	No	Weak de-intensification	Yes
RIM - Rímac	ERA5-Land	Rx1day (mm)	Wet	-0.4993%	Relative >= 5%	0.8988	De-intensification	No	No	Weak de-intensification	Yes
RIM - Rímac	ERA5-Land	Rx5day (mm)	Wet	-1.0473%	Relative >= 5%	0.5863	De-intensification	No	No	Weak de-intensification	Yes
RIM - Rímac	ERA5-Land	SDII (mm/wet day)	Wet	0.5513%	Relative >= 3%	0.631	Intensification	No	No	Weak intensification	Yes
RIM - Rímac	ERA5-Land	SPI-12 minimum (SPI units)	Dry	-0.0917	Absolute >= 0.1	0.6653	De-intensification	No	No	Weak de-intensification	Yes
RIM - Rímac	ERA5-Land	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	1	No direction	No	No	No clear change	Yes
RIM - Rímac	ERA5-Land	SPI-3 drought frequency (months/year)	Dry	0	Absolute >= 0.5	0.8891	No direction	No	No	No clear change	Yes
RIM - Rímac	ERA5-Land	Tmax (°C)	Thermal	0.193	Absolute >= 0.1	1.3098e-15	Intensification	Yes	Yes	Criteria-supported intensification	No
RIM - Rímac	ERA5-Land	Tmean (°C)	Thermal	0.2073	Absolute >= 0.1	2.7185e-23	Intensification	Yes	Yes	Criteria-supported intensification	No
RIM - Rímac	ERA5-Land	Tmin (°C)	Thermal	0.2218	Absolute >= 0.1	4.1498e-20	Intensification	Yes	Yes	Criteria-supported intensification	No
RIM - Rímac	ERA5-Land	Annual precipitation (mm/year)	Wet context	0.2561%	Relative >= 5%	0.8216	Intensification	No	No	Weak intensification	No
AAP - Alto Apurímac	CHIRPS	CDD (days)	Dry	-2.0345	Absolute >= 2	0.3304	De-intensification	No	Yes	Weak de-intensification	Yes
AAP - Alto Apurímac	CHIRPS	R95pTOT (mm/year)	Wet	16.6815%	Relative >= 5%	0.0056	Intensification	Yes	Yes	Criteria-supported intensification	Yes
AAP - Alto Apurímac	CHIRPS	Rx1day (mm)	Wet	8.4834%	Relative >= 5%	0.0022	Intensification	Yes	Yes	Criteria-supported intensification	Yes
AAP - Alto Apurímac	CHIRPS	Rx5day (mm)	Wet	6.9105%	Relative >= 5%	0.0051	Intensification	Yes	Yes	Criteria-supported intensification	Yes
AAP - Alto Apurímac	CHIRPS	SDII (mm/wet day)	Wet	2.6823%	Relative >= 3%	0.0314	Intensification	Yes	No	Weak intensification	Yes
AAP - Alto Apurímac	CHIRPS	SPI-12 minimum (SPI units)	Dry	-0.3848	Absolute >= 0.1	0.0174	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
AAP - Alto Apurímac	CHIRPS	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	0.1462	No direction	No	No	No clear change	Yes
AAP - Alto Apurímac	CHIRPS	SPI-3 drought frequency (months/year)	Dry	0	Absolute >= 0.5	0.1392	No direction	No	No	No clear change	Yes
AAP - Alto Apurímac	CHIRPS	Annual precipitation (mm/year)	Wet context	4.4831%	Relative >= 5%	0.046	Intensification	Yes	No	Weak intensification	No
AAP - Alto Apurímac	PISCO	CDD (days)	Dry	-5.061	Absolute >= 2	0.6015	De-intensification	No	Yes	Weak de-intensification	Yes
AAP - Alto Apurímac	PISCO	R95pTOT (mm/year)	Wet	11.9575%	Relative >= 5%	0.0328	Intensification	Yes	Yes	Criteria-supported intensification	Yes

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AAP - Alto Apurímac	PISCO	Rx1day (mm)	Wet	1.3821%	Relative >= 5%	0.4396	Intensification	No	No	Weak intensification	Yes
AAP - Alto Apurímac	PISCO	Rx5day (mm)	Wet	3.1334%	Relative >= 5%	0.2017	Intensification	No	No	Weak intensification	Yes
AAP - Alto Apurímac	PISCO	SDII (mm/wet day)	Wet	2.551%	Relative >= 3%	0.0656	Intensification	Yes	No	Weak intensification	Yes
AAP - Alto Apurímac	PISCO	SPI-12 minimum (SPI units)	Dry	-0.294	Absolute >= 0.1	0.0023	De-intensification	Yes	Yes	Criteria-supported de-intensification	Yes
AAP - Alto Apurímac	PISCO	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	0.0755	No direction	Yes	No	No clear change	Yes
AAP - Alto Apurímac	PISCO	SPI-3 drought frequency (months/year)	Dry	0	Absolute >= 0.5	0.042	No direction	Yes	No	No clear change	Yes
AAP - Alto Apurímac	PISCO	Annual precipitation (mm/year)	Wet context	3.0071%	Relative >= 5%	0.1501	Intensification	No	No	Weak intensification	No
AAP - Alto Apurímac	ERA5-Land	CDD (days)	Dry	3.1699	Absolute >= 2	0.0698	Intensification	Yes	Yes	Criteria-supported intensification	Yes
AAP - Alto Apurímac	ERA5-Land	DTR (°C)	Thermal context			0.055	Unavailable	Yes	No	Direction not assigned	No
AAP - Alto Apurímac	ERA5-Land	R95pTOT (mm/year)	Wet	4.821%	Relative >= 5%	0.7503	Intensification	No	No	Weak intensification	Yes
AAP - Alto Apurímac	ERA5-Land	Rx1day (mm)	Wet	0.9787%	Relative >= 5%	0.8988	Intensification	No	No	Weak intensification	Yes
AAP - Alto Apurímac	ERA5-Land	Rx5day (mm)	Wet	1.2059%	Relative >= 5%	0.4501	Intensification	No	No	Weak intensification	Yes
AAP - Alto Apurímac	ERA5-Land	SDII (mm/wet day)	Wet	0.9106%	Relative >= 3%	0.631	Intensification	No	No	Weak intensification	Yes
AAP - Alto Apurímac	ERA5-Land	SPI-12 minimum (SPI units)	Dry	-0.0119	Absolute >= 0.1	0.9275	De-intensification	No	No	Weak de-intensification	Yes
AAP - Alto Apurímac	ERA5-Land	SPI-3 drought duration (months)	Dry	0	Absolute >= 0.25	1	No direction	No	No	No clear change	Yes
AAP - Alto Apurímac	ERA5-Land	SPI-3 drought frequency (months/year)	Dry	0	Absolute >= 0.5	0.9208	No direction	No	No	No clear change	Yes
AAP - Alto Apurímac	ERA5-Land	Tmax (°C)	Thermal	0.3905	Absolute >= 0.1	8.2089e-7	Intensification	Yes	Yes	Criteria-supported intensification	No
AAP - Alto Apurímac	ERA5-Land	Tmean (°C)	Thermal	0.3315	Absolute >= 0.1	8.4917e-8	Intensification	Yes	Yes	Criteria-supported intensification	No
AAP - Alto Apurímac	ERA5-Land	Tmin (°C)	Thermal	0.2589	Absolute >= 0.1	4.8792e-9	Intensification	Yes	Yes	Criteria-supported intensification	No
AAP - Alto Apurímac	ERA5-Land	Annual precipitation (mm/year)	Wet context	-1.2232%	Relative >= 5%	0.6109	De-intensification	No	No	Weak de-intensification	No

Note. The intensification-oriented effect is signed so that positive values indicate change toward hydroclimatic intensification and negative values indicate the opposite direction. Statistical support is based on adjusted p-values (α = 0.10), while magnitude support uses the indicator-specific threshold. Only rows marked as profile inputs contribute to hydroclimatic profile classification.

Table S4. Cross-product agreement in hydroclimatic signal direction and support by basin and indicator.

Identification			Product evidence		Effect		Cross-product agreement		
Basin	Domain	Indicator	Supported I / D	Directional I / D	Median oriented effect	Magnitude threshold	Agreement fraction	Agreement classification	Cross-product support
AZA - Azángaro	Dry	CDD	1 / 0	2 / 1	0.2571	Absolute >= 2	0.6667	Directional intensification	No
AZA - Azángaro	Dry	SPI-12 minimum	0 / 1	1 / 2	-0.0904	Absolute >= 0.1	0.6667	Directional de-intensification	No
AZA - Azángaro	Dry	SPI-3 drought duration	0 / 0	0 / 0	0	Absolute >= 0.25	0	Mixed or unclear	No
AZA - Azángaro	Dry	SPI-3 drought frequency	0 / 0	0 / 1	0	Absolute >= 0.5	0.3333	Mixed or unclear	No
AZA - Azángaro	Wet	R95pTOT	0 / 0	2 / 1	2.2013%	Relative >= 5%	0.6667	Directional intensification	No
AZA - Azángaro	Wet	Rx1day	1 / 0	3 / 0	3.743%	Relative >= 5%	1	Directional intensification	No
AZA - Azángaro	Wet	Rx5day	1 / 0	2 / 1	0.294%	Relative >= 5%	0.6667	Directional intensification	No
AZA - Azángaro	Wet	SDII	0 / 0	3 / 0	0.5938%	Relative >= 3%	1	Directional intensification	No
CHL - Chancay-Lambayeque	Dry	CDD	0 / 0	0 / 2	-0.8712	Absolute >= 2	0.6667	Directional de-intensification	No
CHL - Chancay-Lambayeque	Dry	SPI-12 minimum	0 / 0	1 / 2	-0.1369	Absolute >= 0.1	0.6667	Directional de-intensification	No
CHL - Chancay-Lambayeque	Dry	SPI-3 drought duration	0 / 0	0 / 0	0	Absolute >= 0.25	0	Mixed or unclear	No
CHL - Chancay-Lambayeque	Dry	SPI-3 drought frequency	0 / 0	0 / 0	0	Absolute >= 0.5	0	Mixed or unclear	No
CHL - Chancay-Lambayeque	Wet	R95pTOT	1 / 0	2 / 1	6.0614%	Relative >= 5%	0.6667	Directional intensification	No
CHL - Chancay-Lambayeque	Wet	Rx1day	1 / 0	2 / 1	3.7723%	Relative >= 5%	0.6667	Directional intensification	No
CHL - Chancay-Lambayeque	Wet	Rx5day	1 / 0	2 / 1	7.6062%	Relative >= 5%	0.6667	Directional intensification	No
CHL - Chancay-Lambayeque	Wet	SDII	1 / 0	1 / 2	-0.2603%	Relative >= 3%	0.6667	Directional de-intensification	No
GRA - Grande	Dry	CDD	0 / 0	1 / 2	-2.8802	Absolute >= 2	0.6667	Directional de-intensification	No
GRA - Grande	Dry	SPI-12 minimum	0 / 2	1 / 2	-0.423	Absolute >= 0.1	0.6667	Cross-product-supported de-intensification	No
GRA - Grande	Dry	SPI-3 drought duration	0 / 0	0 / 0	0	Absolute >= 0.25	0	Mixed or unclear	No
GRA - Grande	Dry	SPI-3 drought frequency	0 / 0	0 / 1	0	Absolute >= 0.5	0.3333	Mixed or unclear	No
GRA - Grande	Wet	R95pTOT	1 / 0	2 / 1	25.9735%	Relative >= 5%	0.6667	Directional intensification	No
GRA - Grande	Wet	Rx1day	2 / 0	3 / 0	12.6248%	Relative >= 5%	1	Cross-product-supported intensification	Yes
GRA - Grande	Wet	Rx5day	1 / 0	3 / 0	7.4309%	Relative >= 5%	1	Directional intensification	No
GRA - Grande	Wet	SDII	1 / 0	3 / 0	2.9659%	Relative >= 3%	1	Directional intensification	No
MAN - Mantaro	Dry	CDD	0 / 0	2 / 1	0.3852	Absolute >= 2	0.6667	Directional intensification	No
MAN - Mantaro	Dry	SPI-12 minimum	0 / 1	1 / 2	-0.2065	Absolute >= 0.1	0.6667	Directional de-intensification	No
MAN - Mantaro	Dry	SPI-3 drought duration	0 / 1	0 / 1	0	Absolute >= 0.25	0.3333	Mixed or unclear	No
MAN - Mantaro	Dry	SPI-3 drought frequency	0 / 1	0 / 1	0	Absolute >= 0.5	0.3333	Mixed or unclear	No
MAN - Mantaro	Wet	R95pTOT	2 / 0	3 / 0	12.0593%	Relative >= 5%	1	Cross-product-supported intensification	Yes
MAN - Mantaro	Wet	Rx1day	2 / 0	3 / 0	5.2336%	Relative >= 5%	1	Cross-product-supported intensification	Yes
MAN - Mantaro	Wet	Rx5day	1 / 0	3 / 0	4.1244%	Relative >= 5%	1	Directional intensification	No
MAN - Mantaro	Wet	SDII	1 / 0	3 / 0	2.1534%	Relative >= 3%	1	Directional intensification	No
MAY - Mayo	Dry	CDD	0 / 0	1 / 2	-0.4654	Absolute >= 2	0.6667	Directional de-intensification	No
MAY - Mayo	Dry	SPI-12 minimum	0 / 2	0 / 3	-0.4423	Absolute >= 0.1	1	Cross-product-supported de-intensification	No
MAY - Mayo	Dry	SPI-3 drought duration	0 / 1	0 / 1	0	Absolute >= 0.25	0.3333	Mixed or unclear	No
MAY - Mayo	Dry	SPI-3 drought frequency	0 / 1	0 / 1	0	Absolute >= 0.5	0.3333	Mixed or unclear	No
MAY - Mayo	Wet	R95pTOT	2 / 0	3 / 0	20.1963%	Relative >= 5%	1	Cross-product-supported intensification	Yes

MAY - Mayo	Wet	Rx1day	3 / 0	3 / 0	8.9233%	Relative >= 5%	1	Cross-product-supported intensification	Yes
MAY - Mayo	Wet	Rx5day	2 / 0	3 / 0	5.6475%	Relative >= 5%	1	Cross-product-supported intensification	Yes
MAY - Mayo	Wet	SDII	2 / 0	3 / 0	4.6889%	Relative >= 3%	1	Cross-product-supported intensification	Yes
PAC - Pachitea	Dry	CDD	0 / 0	1 / 1	0	Absolute >= 2	0.3333	Mixed or unclear	No
PAC - Pachitea	Dry	SPI-12 minimum	1 / 0	2 / 1	0.2705	Absolute >= 0.1	0.6667	Directional intensification	No
PAC - Pachitea	Dry	SPI-3 drought duration	1 / 0	1 / 0	0	Absolute >= 0.25	0.3333	Mixed or unclear	No
PAC - Pachitea	Dry	SPI-3 drought frequency	0 / 0	1 / 1	0	Absolute >= 0.5	0.3333	Mixed or unclear	No
PAC - Pachitea	Wet	R95pTOT	0 / 0	2 / 1	4.7155%	Relative >= 5%	0.6667	Directional intensification	No
PAC - Pachitea	Wet	Rx1day	0 / 0	3 / 0	3.508%	Relative >= 5%	1	Directional intensification	No
PAC - Pachitea	Wet	Rx5day	0 / 0	2 / 1	3.4303%	Relative >= 5%	0.6667	Directional intensification	No
PAC - Pachitea	Wet	SDII	0 / 0	2 / 1	0.4526%	Relative >= 3%	0.6667	Directional intensification	No
PIU - Piura	Dry	CDD	0 / 0	1 / 2	-3.7171	Absolute >= 2	0.6667	Directional de-intensification	No
PIU - Piura	Dry	SPI-12 minimum	0 / 0	1 / 2	-0.0573	Absolute >= 0.1	0.6667	Directional de-intensification	No
PIU - Piura	Dry	SPI-3 drought duration	0 / 0	0 / 0	0	Absolute >= 0.25	0	Mixed or unclear	No
PIU - Piura	Dry	SPI-3 drought frequency	0 / 0	0 / 0	0	Absolute >= 0.5	0	Mixed or unclear	No
PIU - Piura	Wet	R95pTOT	0 / 0	1 / 1	0%	Relative >= 5%	0.3333	Mixed or unclear	No
PIU - Piura	Wet	Rx1day	0 / 0	2 / 1	8.2649%	Relative >= 5%	0.6667	Directional intensification	No
PIU - Piura	Wet	Rx5day	1 / 0	2 / 1	10.8077%	Relative >= 5%	0.6667	Directional intensification	No
PIU - Piura	Wet	SDII	0 / 0	2 / 1	1.0303%	Relative >= 3%	0.6667	Directional intensification	No
RIM - Rímac	Dry	CDD	0 / 1	1 / 2	-2.8571	Absolute >= 2	0.6667	Directional de-intensification	No
RIM - Rímac	Dry	SPI-12 minimum	0 / 1	0 / 3	-0.0917	Absolute >= 0.1	1	Directional de-intensification	No
RIM - Rímac	Dry	SPI-3 drought duration	0 / 2	0 / 2	-0.3704	Absolute >= 0.25	0.6667	Cross-product-supported de-intensification	No
RIM - Rímac	Dry	SPI-3 drought frequency	0 / 1	0 / 2	-0.4348	Absolute >= 0.5	0.6667	Directional de-intensification	No
RIM - Rímac	Wet	R95pTOT	1 / 1	1 / 2	-2.9077%	Relative >= 5%	0.6667	Product dependent	No
RIM - Rímac	Wet	Rx1day	1 / 1	1 / 2	-0.4993%	Relative >= 5%	0.6667	Product dependent	No
RIM - Rímac	Wet	Rx5day	0 / 1	1 / 2	-1.0473%	Relative >= 5%	0.6667	Directional de-intensification	No
RIM - Rímac	Wet	SDII	1 / 1	2 / 1	0.5513%	Relative >= 3%	0.6667	Product dependent	No
AAP - Alto Apurímac	Dry	CDD	1 / 0	1 / 2	-2.0345	Absolute >= 2	0.6667	Directional de-intensification	No
AAP - Alto Apurímac	Dry	SPI-12 minimum	0 / 2	0 / 3	-0.294	Absolute >= 0.1	1	Cross-product-supported de-intensification	No
AAP - Alto Apurímac	Dry	SPI-3 drought duration	0 / 0	0 / 0	0	Absolute >= 0.25	0	Mixed or unclear	No
AAP - Alto Apurímac	Dry	SPI-3 drought frequency	0 / 0	0 / 0	0	Absolute >= 0.5	0	Mixed or unclear	No
AAP - Alto Apurímac	Wet	R95pTOT	2 / 0	3 / 0	11.9575%	Relative >= 5%	1	Cross-product-supported intensification	Yes
AAP - Alto Apurímac	Wet	Rx1day	1 / 0	3 / 0	1.3821%	Relative >= 5%	1	Directional intensification	No
AAP - Alto Apurímac	Wet	Rx5day	1 / 0	3 / 0	3.1334%	Relative >= 5%	1	Directional intensification	No
AAP - Alto Apurímac	Wet	SDII	0 / 0	3 / 0	2.551%	Relative >= 3%	1	Directional intensification	No

Note. I / D denotes intensification / de-intensification. Supported I / D counts products meeting both statistical and magnitude criteria, whereas Directional I / D counts products according to effect direction. Agreement is evaluated across the three precipitation products.

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Table S5. Sensitivity of basin hydroclimatic profiles to alternative classification settings.

	Basin response			Sensitivity scenario
Basin	Wet score	Dry score	Hydroclimatic profile	Classification settings
AZA - Azángaro	0	0.25	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x0.75; α=0.05
AZA - Azángaro	0	0.25	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x0.75; α=0.05
AZA - Azángaro	0	0.25	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x0.75; α=0.05
AZA - Azángaro	0	0.25	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x0.75; α=0.1
AZA - Azángaro	0	0.25	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x0.75; α=0.1
AZA - Azángaro	0	0.25	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x0.75; α=0.1
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1; α=0.05
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1; α=0.05
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1; α=0.05
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1; α=0.1
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1; α=0.1
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1; α=0.1
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1.25; α=0.05
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1.25; α=0.05
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1.25; α=0.05
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1.25; α=0.1
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1.25; α=0.1
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1.25; α=0.1
AZA - Azángaro	0	0.25	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x0.75; α=0.05
AZA - Azángaro	0	0.25	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x0.75; α=0.05
AZA - Azángaro	0	0.25	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x0.75; α=0.05
AZA - Azángaro	0	0.25	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x0.75; α=0.1
AZA - Azángaro	0	0.25	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x0.75; α=0.1
AZA - Azángaro	0	0.25	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x0.75; α=0.1
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1; α=0.05
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1; α=0.05
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1; α=0.05
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1; α=0.1
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1; α=0.1
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1; α=0.1
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1.25; α=0.05
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1.25; α=0.05
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1.25; α=0.05
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1.25; α=0.1
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1.25; α=0.1
AZA - Azángaro	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1.25; α=0.1
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x0.75; α=0.05
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x0.75; α=0.05
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x0.75; α=0.05
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x0.75; α=0.1
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x0.75; α=0.1

CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x0.75; α=0.1
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1; α=0.05
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1; α=0.05
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1; α=0.05
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1; α=0.1
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1; α=0.1
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1; α=0.1
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1.25; α=0.05
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1.25; α=0.05
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1.25; α=0.05
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1.25; α=0.1
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1.25; α=0.1
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1.25; α=0.1
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x0.75; α=0.05
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x0.75; α=0.05
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x0.75; α=0.05
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x0.75; α=0.1
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x0.75; α=0.1
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x0.75; α=0.1
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1; α=0.05
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1; α=0.05
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1; α=0.05
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1; α=0.1
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1; α=0.1
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1; α=0.1
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1.25; α=0.05
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1.25; α=0.05
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1.25; α=0.05
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1.25; α=0.1
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1.25; α=0.1
CHL - Chancay-Lambayeque	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1.25; α=0.1
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x0.75; α=0.05
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x0.75; α=0.05
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x0.75; α=0.05
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x0.75; α=0.1
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x0.75; α=0.1
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x0.75; α=0.1
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1; α=0.05
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1; α=0.05
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1; α=0.05
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1; α=0.1
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1; α=0.1
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1; α=0.1
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1.25; α=0.05

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GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1.25; α=0.05
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1.25; α=0.05
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1.25; α=0.1
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1.25; α=0.1
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1.25; α=0.1
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x0.75; α=0.05
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x0.75; α=0.05
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x0.75; α=0.05
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x0.75; α=0.1
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x0.75; α=0.1
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x0.75; α=0.1
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1; α=0.05
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1; α=0.05
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1; α=0.05
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1; α=0.1
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1; α=0.1
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1; α=0.1
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1.25; α=0.05
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1.25; α=0.05
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1.25; α=0.05
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1.25; α=0.1
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1.25; α=0.1
GRA - Grande	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1.25; α=0.1
MAN - Mantaro	0.5	0	Wet-dominant	Profile threshold=0.4; dry-day=0.5 mm; effect x0.75; α=0.05
MAN - Mantaro	0.5	0	Wet-dominant	Profile threshold=0.5; dry-day=0.5 mm; effect x0.75; α=0.05
MAN - Mantaro	0.5	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x0.75; α=0.05
MAN - Mantaro	0.5	0	Wet-dominant	Profile threshold=0.4; dry-day=0.5 mm; effect x0.75; α=0.1
MAN - Mantaro	0.5	0	Wet-dominant	Profile threshold=0.5; dry-day=0.5 mm; effect x0.75; α=0.1
MAN - Mantaro	0.5	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x0.75; α=0.1
MAN - Mantaro	0.5	0	Wet-dominant	Profile threshold=0.4; dry-day=0.5 mm; effect x1; α=0.05
MAN - Mantaro	0.5	0	Wet-dominant	Profile threshold=0.5; dry-day=0.5 mm; effect x1; α=0.05
MAN - Mantaro	0.5	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1; α=0.05
MAN - Mantaro	0.5	0	Wet-dominant	Profile threshold=0.4; dry-day=0.5 mm; effect x1; α=0.1
MAN - Mantaro	0.5	0	Wet-dominant	Profile threshold=0.5; dry-day=0.5 mm; effect x1; α=0.1
MAN - Mantaro	0.5	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1; α=0.1
MAN - Mantaro	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1.25; α=0.05
MAN - Mantaro	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1.25; α=0.05
MAN - Mantaro	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1.25; α=0.05
MAN - Mantaro	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1.25; α=0.1
MAN - Mantaro	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1.25; α=0.1
MAN - Mantaro	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1.25; α=0.1
MAN - Mantaro	0.5	0	Wet-dominant	Profile threshold=0.4; dry-day=1 mm; effect x0.75; α=0.05
MAN - Mantaro	0.5	0	Wet-dominant	Profile threshold=0.5; dry-day=1 mm; effect x0.75; α=0.05
MAN - Mantaro	0.5	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x0.75; α=0.05

MAN - Mantaro	0.5	0	Wet-dominant	Profile threshold=0.4; dry-day=1 mm; effect x0.75; α=0.1
MAN - Mantaro	0.5	0	Wet-dominant	Profile threshold=0.5; dry-day=1 mm; effect x0.75; α=0.1
MAN - Mantaro	0.5	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x0.75; α=0.1
MAN - Mantaro	0.5	0	Wet-dominant	Profile threshold=0.4; dry-day=1 mm; effect x1; α=0.05
MAN - Mantaro	0.5	0	Wet-dominant	Profile threshold=0.5; dry-day=1 mm; effect x1; α=0.05
MAN - Mantaro	0.5	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1; α=0.05
MAN - Mantaro	0.5	0	Wet-dominant	Profile threshold=0.4; dry-day=1 mm; effect x1; α=0.1
MAN - Mantaro	0.5	0	Wet-dominant	Profile threshold=0.5; dry-day=1 mm; effect x1; α=0.1
MAN - Mantaro	0.5	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1; α=0.1
MAN - Mantaro	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1.25; α=0.05
MAN - Mantaro	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1.25; α=0.05
MAN - Mantaro	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1.25; α=0.05
MAN - Mantaro	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1.25; α=0.1
MAN - Mantaro	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1.25; α=0.1
MAN - Mantaro	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1.25; α=0.1
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.4; dry-day=0.5 mm; effect x0.75; α=0.05
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.5; dry-day=0.5 mm; effect x0.75; α=0.05
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.6; dry-day=0.5 mm; effect x0.75; α=0.05
MAY - Mayo	1	0	Wet-dominant	Profile threshold=0.4; dry-day=0.5 mm; effect x0.75; α=0.1
MAY - Mayo	1	0	Wet-dominant	Profile threshold=0.5; dry-day=0.5 mm; effect x0.75; α=0.1
MAY - Mayo	1	0	Wet-dominant	Profile threshold=0.6; dry-day=0.5 mm; effect x0.75; α=0.1
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.4; dry-day=0.5 mm; effect x1; α=0.05
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.5; dry-day=0.5 mm; effect x1; α=0.05
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.6; dry-day=0.5 mm; effect x1; α=0.05
MAY - Mayo	1	0	Wet-dominant	Profile threshold=0.4; dry-day=0.5 mm; effect x1; α=0.1
MAY - Mayo	1	0	Wet-dominant	Profile threshold=0.5; dry-day=0.5 mm; effect x1; α=0.1
MAY - Mayo	1	0	Wet-dominant	Profile threshold=0.6; dry-day=0.5 mm; effect x1; α=0.1
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.4; dry-day=0.5 mm; effect x1.25; α=0.05
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.5; dry-day=0.5 mm; effect x1.25; α=0.05
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.6; dry-day=0.5 mm; effect x1.25; α=0.05
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.4; dry-day=0.5 mm; effect x1.25; α=0.1
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.5; dry-day=0.5 mm; effect x1.25; α=0.1
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.6; dry-day=0.5 mm; effect x1.25; α=0.1
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.4; dry-day=1 mm; effect x0.75; α=0.05
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.5; dry-day=1 mm; effect x0.75; α=0.05
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.6; dry-day=1 mm; effect x0.75; α=0.05
MAY - Mayo	1	0	Wet-dominant	Profile threshold=0.4; dry-day=1 mm; effect x0.75; α=0.1
MAY - Mayo	1	0	Wet-dominant	Profile threshold=0.5; dry-day=1 mm; effect x0.75; α=0.1
MAY - Mayo	1	0	Wet-dominant	Profile threshold=0.6; dry-day=1 mm; effect x0.75; α=0.1
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.4; dry-day=1 mm; effect x1; α=0.05
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.5; dry-day=1 mm; effect x1; α=0.05
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.6; dry-day=1 mm; effect x1; α=0.05
MAY - Mayo	1	0	Wet-dominant	Profile threshold=0.4; dry-day=1 mm; effect x1; α=0.1
MAY - Mayo	1	0	Wet-dominant	Profile threshold=0.5; dry-day=1 mm; effect x1; α=0.1

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MAY - Mayo	1	0	Wet-dominant	Profile threshold=0.6; dry-day=1 mm; effect x1; α=0.1
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.4; dry-day=1 mm; effect x1.25; α=0.05
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.5; dry-day=1 mm; effect x1.25; α=0.05
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.6; dry-day=1 mm; effect x1.25; α=0.05
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.4; dry-day=1 mm; effect x1.25; α=0.1
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.5; dry-day=1 mm; effect x1.25; α=0.1
MAY - Mayo	0.75	0	Wet-dominant	Profile threshold=0.6; dry-day=1 mm; effect x1.25; α=0.1
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x0.75; α=0.05
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x0.75; α=0.05
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x0.75; α=0.05
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x0.75; α=0.1
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x0.75; α=0.1
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x0.75; α=0.1
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1; α=0.05
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1; α=0.05
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1; α=0.05
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1; α=0.1
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1; α=0.1
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1; α=0.1
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1.25; α=0.05
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1.25; α=0.05
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1.25; α=0.05
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1.25; α=0.1
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1.25; α=0.1
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1.25; α=0.1
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x0.75; α=0.05
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x0.75; α=0.05
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x0.75; α=0.05
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x0.75; α=0.1
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x0.75; α=0.1
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x0.75; α=0.1
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1; α=0.05
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1; α=0.05
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1; α=0.05
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1; α=0.1
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1; α=0.1
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1; α=0.1
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1.25; α=0.05
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1.25; α=0.05
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1.25; α=0.05
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1.25; α=0.1
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1.25; α=0.1
PAC - Pachitea	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1.25; α=0.1
PIU - Piura	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x0.75; α=0.05

PIU - Piura	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x0.75; α=0.05
PIU - Piura	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x0.75; α=0.05
PIU - Piura	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x0.75; α=0.1
PIU - Piura	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x0.75; α=0.1
PIU - Piura	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x0.75; α=0.1
PIU - Piura	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1; α=0.05
PIU - Piura	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1; α=0.05
PIU - Piura	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1; α=0.05
PIU - Piura	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1; α=0.1
PIU - Piura	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1; α=0.1
PIU - Piura	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1; α=0.1
PIU - Piura	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1.25; α=0.05
PIU - Piura	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1.25; α=0.05
PIU - Piura	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1.25; α=0.05
PIU - Piura	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1.25; α=0.1
PIU - Piura	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1.25; α=0.1
PIU - Piura	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1.25; α=0.1
PIU - Piura	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x0.75; α=0.05
PIU - Piura	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x0.75; α=0.05
PIU - Piura	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x0.75; α=0.05
PIU - Piura	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x0.75; α=0.1
PIU - Piura	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x0.75; α=0.1
PIU - Piura	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x0.75; α=0.1
PIU - Piura	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1; α=0.05
PIU - Piura	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1; α=0.05
PIU - Piura	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1; α=0.05
PIU - Piura	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1; α=0.1
PIU - Piura	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1; α=0.1
PIU - Piura	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1; α=0.1
PIU - Piura	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1.25; α=0.05
PIU - Piura	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1.25; α=0.05
PIU - Piura	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1.25; α=0.05
PIU - Piura	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1.25; α=0.1
PIU - Piura	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1.25; α=0.1
PIU - Piura	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1.25; α=0.1
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x0.75; α=0.05
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x0.75; α=0.05
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x0.75; α=0.05
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x0.75; α=0.1
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x0.75; α=0.1
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x0.75; α=0.1
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1; α=0.05
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1; α=0.05
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1; α=0.05

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RIM - Rímac	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1; α=0.1
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1; α=0.1
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1; α=0.1
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1.25; α=0.05
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1.25; α=0.05
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1.25; α=0.05
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1.25; α=0.1
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1.25; α=0.1
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1.25; α=0.1
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x0.75; α=0.05
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x0.75; α=0.05
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x0.75; α=0.05
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x0.75; α=0.1
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x0.75; α=0.1
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x0.75; α=0.1
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1; α=0.05
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1; α=0.05
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1; α=0.05
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1; α=0.1
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1; α=0.1
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1; α=0.1
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1.25; α=0.05
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1.25; α=0.05
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1.25; α=0.05
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1.25; α=0.1
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1.25; α=0.1
RIM - Rímac	0	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1.25; α=0.1
AAP - Alto Apurímac	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x0.75; α=0.05
AAP - Alto Apurímac	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x0.75; α=0.05
AAP - Alto Apurímac	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x0.75; α=0.05
AAP - Alto Apurímac	0.5	0.25	Wet-dominant	Profile threshold=0.4; dry-day=0.5 mm; effect x0.75; α=0.1
AAP - Alto Apurímac	0.5	0.25	Wet-dominant	Profile threshold=0.5; dry-day=0.5 mm; effect x0.75; α=0.1
AAP - Alto Apurímac	0.5	0.25	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x0.75; α=0.1
AAP - Alto Apurímac	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1; α=0.05
AAP - Alto Apurímac	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1; α=0.05
AAP - Alto Apurímac	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1; α=0.05
AAP - Alto Apurímac	0.25	0.25	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1; α=0.1
AAP - Alto Apurímac	0.25	0.25	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1; α=0.1
AAP - Alto Apurímac	0.25	0.25	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1; α=0.1
AAP - Alto Apurímac	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1.25; α=0.05
AAP - Alto Apurímac	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1.25; α=0.05
AAP - Alto Apurímac	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1.25; α=0.05
AAP - Alto Apurímac	0.25	0.25	Inconclusive	Profile threshold=0.4; dry-day=0.5 mm; effect x1.25; α=0.1
AAP - Alto Apurímac	0.25	0.25	Inconclusive	Profile threshold=0.5; dry-day=0.5 mm; effect x1.25; α=0.1

AAP - Alto Apurímac	0.25	0.25	Inconclusive	Profile threshold=0.6; dry-day=0.5 mm; effect x1.25; α=0.1
AAP - Alto Apurímac	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x0.75; α=0.05
AAP - Alto Apurímac	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x0.75; α=0.05
AAP - Alto Apurímac	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x0.75; α=0.05
AAP - Alto Apurímac	0.5	0.25	Wet-dominant	Profile threshold=0.4; dry-day=1 mm; effect x0.75; α=0.1
AAP - Alto Apurímac	0.5	0.25	Wet-dominant	Profile threshold=0.5; dry-day=1 mm; effect x0.75; α=0.1
AAP - Alto Apurímac	0.5	0.25	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x0.75; α=0.1
AAP - Alto Apurímac	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1; α=0.05
AAP - Alto Apurímac	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1; α=0.05
AAP - Alto Apurímac	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1; α=0.05
AAP - Alto Apurímac	0.25	0.25	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1; α=0.1
AAP - Alto Apurímac	0.25	0.25	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1; α=0.1
AAP - Alto Apurímac	0.25	0.25	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1; α=0.1
AAP - Alto Apurímac	0.25	0	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1.25; α=0.05
AAP - Alto Apurímac	0.25	0	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1.25; α=0.05
AAP - Alto Apurímac	0.25	0	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1.25; α=0.05
AAP - Alto Apurímac	0.25	0.25	Inconclusive	Profile threshold=0.4; dry-day=1 mm; effect x1.25; α=0.1
AAP - Alto Apurímac	0.25	0.25	Inconclusive	Profile threshold=0.5; dry-day=1 mm; effect x1.25; α=0.1
AAP - Alto Apurímac	0.25	0.25	Inconclusive	Profile threshold=0.6; dry-day=1 mm; effect x1.25; α=0.1

Note. Each row represents one sensitivity scenario defined by the profile threshold, dry-day threshold, effect-threshold multiplier, and significance level. Wet and dry scores are the domain-level evidence counts used to assign the hydroclimatic profile.

Table S6. Stability of basin hydroclimatic profiles across sensitivity scenarios.

Basin	Sensitivity outcome			
	Modal hydroclimatic profile	Profile stability	Stability classification	Distinct profiles (n)
AZA - Azángaro	Inconclusive	1	High	1
CHL - Chancay-Lambayeque	Inconclusive	1	High	1
GRA - Grande	Inconclusive	1	High	1
MAN - Mantaro	Inconclusive	0.5556	Low	2
MAY - Mayo	Wet-dominant	1	High	1
PAC - Pachitea	Inconclusive	1	High	1
PIU - Piura	Inconclusive	1	High	1
RIM - Rímac	Inconclusive	1	High	1
AAP - Alto Apurímac	Inconclusive	0.8889	High	2

Note. Profile stability is the fraction of 36 sensitivity scenarios that reproduce the modal hydroclimatic profile; the number of distinct profiles summarizes classification variability across scenarios.

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Table S7. ERA5-Land temperature trends and thermal signal classifications by basin over 1981-2025.

Identification		Thermal trend						Classification		
Basin	Temperature indicator	Median	Trend (°C decade^{-1})	Kendall's τ	MK Z (corrected)	Adjusted p	Signal direction	Statistical support	Magnitude met?	Signal classification
AZA - Azángaro	Tmax (°C)	10.5505	0.3333	0.5232	5.0575	6.3732e-7	Intensification	Yes	Yes	Criteria-supported intensification
AZA - Azángaro	Tmean (°C)	4.4354	0.2826	0.5434	5.2531	1.9229e-7	Intensification	Yes	Yes	Criteria-supported intensification
AZA - Azángaro	Tmin (°C)	-0.7731	0.1956	0.5152	4.9792	8.2089e-7	Intensification	Yes	Yes	Criteria-supported intensification
AZA - Azángaro	DTR (°C)	11.3245	0.1394	0.3051	2.9445	0.0146	Unavailable	Yes	No	Direction not assigned
CHL - Chancay-Lambayeque	Tmax (°C)	21.9683	0.1751	0.3212	4.478	8.4776e-6	Intensification	Yes	Yes	Criteria-supported intensification
CHL - Chancay-Lambayeque	Tmean (°C)	17.2687	0.1714	0.3636	8.2662	3.1104e-16	Intensification	Yes	Yes	Criteria-supported intensification
CHL - Chancay-Lambayeque	Tmin (°C)	14.117	0.1582	0.3051	10.1038	2.3918e-23	Intensification	Yes	Yes	Criteria-supported intensification
CHL - Chancay-Lambayeque	DTR (°C)	7.7668	0.0334	0.1192	1.3199	0.2403	Unavailable	No	No	Direction not assigned
GRA - Grande	Tmax (°C)	19.6898	0.2106	0.3899	7.7421	2.9328e-14	Intensification	Yes	Yes	Criteria-supported intensification
GRA - Grande	Tmean (°C)	14.5386	0.2046	0.4525	11.6609	1.8168e-30	Intensification	Yes	Yes	Criteria-supported intensification
GRA - Grande	Tmin (°C)	10.5163	0.1605	0.4323	8.9307	9.5283e-19	Intensification	Yes	Yes	Criteria-supported intensification
GRA - Grande	DTR (°C)	9.094	0.0215	0.0687	0.6554	0.5762	Unavailable	No	No	Direction not assigned
MAN - Mantaro	Tmax (°C)	11.6709	0.2147	0.4404	6.2908	7.1044e-10	Intensification	Yes	Yes	Criteria-supported intensification
MAN - Mantaro	Tmean (°C)	6.6464	0.2128	0.4828	7.3924	2.5962e-13	Intensification	Yes	Yes	Criteria-supported intensification
MAN - Mantaro	Tmin (°C)	2.7546	0.1971	0.4889	6.8294	1.5346e-11	Intensification	Yes	Yes	Criteria-supported intensification
MAN - Mantaro	DTR (°C)	8.8379	0.0077	0.0263	0.3057	0.7599	Unavailable	No	No	Direction not assigned
MAY - Mayo	Tmax (°C)	23.4713	0.1458	0.3798	5.2486	2.7587e-7	Intensification	Yes	Yes	Criteria-supported intensification
MAY - Mayo	Tmean (°C)	19.1553	0.1159	0.3374	4.7776	1.9956e-6	Intensification	Yes	Yes	Criteria-supported intensification
MAY - Mayo	Tmin (°C)	15.7701	0.0927	0.2949	2.8467	0.005	Intensification	Yes	No	Weak intensification
MAY - Mayo	DTR (°C)	7.6519	0.0536	0.2606	2.3391	0.055	Unavailable	Yes	No	Direction not assigned
PAC - Pachitea	Tmax (°C)	24.9159	0.3087	0.5717	10.5501	4.5648e-25	Intensification	Yes	Yes	Criteria-supported intensification
PAC - Pachitea	Tmean (°C)	20.5751	0.2453	0.5636	11.3503	3.3245e-29	Intensification	Yes	Yes	Criteria-supported intensification
PAC - Pachitea	Tmin (°C)	17.4046	0.1767	0.503	12.0991	9.6124e-33	Intensification	Yes	Yes	Criteria-supported intensification
PAC - Pachitea	DTR (°C)	7.4663	0.1506	0.5818	5.6248	1.6712e-7	Unavailable	Yes	No	Direction not assigned
PIU - Piura	Tmax (°C)	27.6956	0.1053	0.1717	1.6532	0.0983	Intensification	Yes	Yes	Criteria-supported intensification
PIU - Piura	Tmean (°C)	21.8885	0.0915	0.1313	1.4166	0.1566	Intensification	No	No	Weak intensification
PIU - Piura	Tmin (°C)	17.8984	0.0797	0.1152	1.2716	0.2035	Intensification	No	No	Weak intensification
PIU - Piura	DTR (°C)	9.8996	0.0858	0.1293	1.4548	0.2186	Unavailable	No	No	Direction not assigned
RIM - Rímac	Tmax (°C)	14.6739	0.193	0.3758	8.177	1.3098e-15	Intensification	Yes	Yes	Criteria-supported intensification

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RIM - Rímac	Tmean (°C)	10.3848	0.2073	0.4323	10.0514	2.7185e-23	Intensification	Yes	Yes	Criteria-supported intensification
RIM - Rímac	Tmin (°C)	7.1145	0.2218	0.4747	9.3016	4.1498e-20	Intensification	Yes	Yes	Criteria-supported intensification
RIM - Rímac	DTR (°C)	7.5328	-0.0334	-0.1798	-2.1625	0.055	Unavailable	Yes	No	Direction not assigned
AAP - Alto Apurímac	Tmax (°C)	12.0876	0.3905	0.5152	4.9792	8.2089e-7	Intensification	Yes	Yes	Criteria-supported intensification
AAP - Alto Apurímac	Tmean (°C)	6.2437	0.3315	0.5616	5.4292	8.4917e-8	Intensification	Yes	Yes	Criteria-supported intensification
AAP - Alto Apurímac	Tmin (°C)	1.4208	0.2589	0.6121	5.9183	4.8792e-9	Intensification	Yes	Yes	Criteria-supported intensification
AAP - Alto Apurímac	DTR (°C)	10.5491	0.1069	0.2263	2.1815	0.055	Unavailable	Yes	No	Direction not assigned

Note. Trends are expressed in °C decade^{-1}. Thermal classifications use adjusted p-values with $\alpha = 0.10$ and a minimum trend magnitude of 0.1 °C decade^{-1}. DTR is retained as thermal context and is not assigned an intensification direction.

Table S8. Basin-level thermal intensification criteria derived from ERA5-Land temperature trends.

Basin	ERA5-Land trend (°C decade^{-1})			Statistical support	Thermal classification		
	Tmin trend	Tmean trend	Tmax trend	Tmean adjusted p	Tmin classification	Tmean classification	Thermal criteria met (n)
AZA - Azángaro	0.1956	0.2826	0.3333	1.9229e-7	Criteria-supported intensification	Criteria-supported intensification	2
CHL - Chancay-Lambayeque	0.1582	0.1714	0.1751	3.1104e-16	Criteria-supported intensification	Criteria-supported intensification	2
GRA - Grande	0.1605	0.2046	0.2106	1.8168e-30	Criteria-supported intensification	Criteria-supported intensification	2
MAN - Mantaro	0.1971	0.2128	0.2147	2.5962e-13	Criteria-supported intensification	Criteria-supported intensification	2
MAY - Mayo	0.0927	0.1159	0.1458	1.9956e-6	Weak intensification	Criteria-supported intensification	1
PAC - Pachitea	0.1767	0.2453	0.3087	3.3245e-29	Criteria-supported intensification	Criteria-supported intensification	2
PIU - Piura	0.0797	0.0915	0.1053	0.1566	Weak intensification	Weak intensification	1
RIM - Rímac	0.2218	0.2073	0.193	2.7185e-23	Criteria-supported intensification	Criteria-supported intensification	2
AAP - Alto Apurímac	0.2589	0.3315	0.3905	8.4917e-8	Criteria-supported intensification	Criteria-supported intensification	2

Note. Trends are expressed in °C decade^{-1}. The thermal-criteria count summarizes the temperature-based evidence used in the basin-level thermal intensification modifier.