

## Has the climate been changing in Turkey? Regional climate change signals based on a comparative statistical analysis of two consecutive time periods, 1950-1980 and 1981-2010

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**Table S1.** Observation periods as and proportion of missing observations of all stations used in the study.

Station number	Station name	Establishment date (dd.mm.yy)	Closing dates	Proportion missing for precipitation data	Proportion missing for temperature data
17020	Bartın	01.01.1952		19.13	27.05
17022	Zonguldak	01.01.1931		0.14	3.42
17024	İnebolu	10.02.1931	1933 - 1942	1.37	4.78
17026	Sinop	01.01.1929	1929 - 1931	0.41	3.42
17030	Samsun	01.01.1929		0.55	0.27
17033	Ordu	01.01.1929	1948 - 1950	16.39	21.99
17034	Giresun	01.01.1929		0.00	0.00
17038	Trabzon	01.01.1949		0.00	0.00
17040	Rize	01.01.1929		0.14	0.41
17042	Hopa	01.01.1938	1954 -1961	19.67	19.67
17045	Artvin	01.01.1929	1932 -1946	0.00	0.00
17046	Ardahan	01.01.1938		13.66	18.03
17050	Edirne	01.01.1929		3.42	6.69
17052	Kirklareli	01.01.1929		16.26	25.00
17054	corlu	01.01.1937		8.61	12.70
17056	Tekirdag	01.01.1929		2.05	3.42
17059	Kumkoy	01.01.1951		3.28	5.19
17061	Sariyer	01.01.1930	1931 - 1937	1.09	4.10
17062	Istanbul	01.01.1929		5.33	3.55
17066	Kocaeli	01.09.1960	1934 - 1937	12.84	15.57
17069	Sakarya	01.01.1965	1952 - 1954	6.42	9.43
17070	Bolu	01.01.1929		0.68	3.42
17072	Duzce	01.04.1944		15.71	23.63
17074	Kastamonu	01.01.1930		0.27	3.42
17078	Karabuk	09.12.1950	1983 - 1993	49.04	52.19
17080	cankiri	01.01.1929	1942 - 1947	1.37	3.42
17083	Merzifon	01.01.1929		1.09	0.00
17084	corum	01.01.1929		1.37	3.42
17085	Amasya	01.01.1929	1930 - 1936	20.22	18.03
17086	Tokat	01.01.1929	1930 - 1933	10.79	10.25
17088	Gumushane	01.01.1929	1956 -1958	19.26	24.32
17089	Bayburt	01.01.1929		15.71	17.08
17090	Sivas	01.01.1929		2.32	0.00
17094	Erzincan	01.01.1929	1935 - 1937	1.50	0.00

Station number	Station name	Establishment date (dd.mm.yy)	Closing dates	Proportion missing for precipitation data	Proportion missing for temperature data
17096	Erzurum Meydan	12.11.1949		3.42	0.14
17097	Kars	01.01.1929		6.69	6.97
17099	Agri	01.01.1929	1932 - 1938	1.91	0.96
17100	Igdir	01.01.1929	1931 - 1938	2.60	1.78
17110	Gokceada	01.01.1938		22.27	28.01
17111	Bozcaada	01.01.1957		34.02	32.65
17112	canakkale	01.01.1929	1935 - 1937	5.87	3.42
17114	Bandirma	01.01.1930		2.46	3.42
17116	Bursa	01.01.1929		1.64	3.42
17119	Yalova	01.01.1930	1945 - 1957	14.07	16.53
17120	Bilecik	01.01.1929		1.09	3.42
17126	Eskisehir	01.01.1929	1990 - 2003	6.69	5.05
17128	Esenboga	01.01.1956		17.76	13.66
17130	Ankara	01.01.1926		0.82	3.42
17135	Kirikkale	01.01.1950	1958 - 1960	18.85	25.41
17140	Yozgat	01.01.1929	1935 - 1938	3.01	0.55
17145	Edremit	01.01.1931		21.58	19.95
17150	Balikesir	12.11.1949		0.14	6.56
17155	Kutahya	01.01.1929		1.37	3.42
17160	Kirsehir	01.01.1929		4.92	3.42
17162	Gemerek	01.01.1955		24.73	22.27
17165	Tunceli	01.01.1950		20.77	22.13
17172	Van	01.01.1929	1930 - 1932	5.87	0.14
17175	Ayvalik	01.01.1953		24.18	26.78
17180	Dikili	01.01.1939		12.43	3.55
17184	Akhisar	01.01.1929		8.74	3.42
17186	Manisa	01.01.1929		9.70	3.42
17188	Usak	01.01.1929		3.83	3.83
17190	Afyonkarahisar	01.01.1929		1.78	3.42
17191	Cihanbeyli	01.01.1929	1944 - 1950	19.40	26.50
17192	Aksaray	01.01.1930	1931 - 1933 and 1934 - 1938	21.86	23.09
17193	Nevsehir	01.01.1955		18.17	16.39
17196	Kayseri	01.01.1929	1934 - 1937	3.14	0.00
17199	Malatya	01.01.1929		7.79	0.00
17201	Elazig	01.01.1929		7.51	0.14
17203	Bingol	01.01.1942	1958 - 1960	21.45	18.72
17204	Mus	01.01.1933	1948 - 1950	26.91	22.81
17205	Tatvan	01.01.1938	1939 - 1957	29.64	25.41
17210	Siirt	01.01.1929		10.52	0.27
17220	İzmir	01.01.1926	1929 - 1938	11.75	3.42
17221	cesme	01.01.1929	1932 - 1957	34.43	25.14
17232	Kusadasi	01.01.1927	1953 - 1956	27.32	21.45
17234	Aydin	01.01.1929		12.84	3.42
17237	Denizli	01.01.1929	1936 - 1947	15.44	14.89
17238	Burdur	01.06.1929	1931 - 1939	2.46	3.42
17239	Aksehir	01.01.1933	1936 - 1940	11.20	9.15
17240	Isparta	01.01.1929		3.01	3.55
17244	Konya Meydan	12.11.1949		3.69	3.42
17246	Karaman	01.01.1929		17.49	12.16
17248	Eregli	01.01.1944	1944 - 1950	29.92	24.32
17250	Nigde	01.01.1935		3.01	0.00
17255	K.Maras	01.01.1929	1935 - 1939	23.09	20.36
17261	Gaziantep	01.01.1929	1930 - 1932	13.11	0.14
17262	Kilis	01.01.1932		27.46	16.39

Station number	Station name	Establishment date (dd.mm.yy)	Closing dates	Proportion missing for precipitation data	Proportion missing for temperature data
17265	Adiyaman	01.01.1938		28.28	20.90
17270	s.Urfa	01.01.1929	1934 - 1937	17.49	0.00
17275	Mardin	01.01.1938		18.17	0.82
17280	Diyarbakir	12.11.1949		11.48	0.14
17282	Batman	01.01.1957		26.64	19.81
17285	Hakkari	01.01.1933	1938 - 1940 and 1941 - 1951	27.60	19.81
17290	Bodrum	01.01.1937		20.77	3.42
17292	Mugla	01.01.1926		8.74	4.10
17294	Dalaman	01.01.1956		24.86	10.66
17296	Fethiye	01.01.1939		18.03	4.10
17297	Datca	01.12.1950	1952 - 1962	41.80	28.69
17298	Marmaris	01.01.1950	1954 - 1956	28.96	24.73
17300	Antalya	12.11.1949		9.43	3.42
17310	Alanya	01.12.1938	1948 - 1950	16.53	6.83
17320	Anamur	01.01.1930	1933 - 1943	17.35	0.27
17330	Silifke	01.01.1929		23.91	8.74
17340	İcel	01.01.1929		9.84	0.00
17351	Adana	01.01.1929		9.97	1.64
17370	İskenderun	01.11.1939		2.60	0.00
17372	Hatay	01.11.1939		11.89	0.14
17375	Finike	01.01.1953		26.78	20.63
17380	Kas	01.04.1953	1982 - 1986	50.14	42.21
17602	Amasra	01.01.1963		33.20	36.48
17606	Bozkurt	01.01.1959		16.53	20.36
17608	Uzunkopru	01.01.1938	1938 - 1960	24.04	28.01
17610	sile	01.03.1939		0.55	3.42
17612	Akcakoca	01.01.1950		15.98	25.00
17618	Devrekani	01.01.1953	1972 - 1976	33.74	36.61
17619	Bahcekoy	01.01.1948	Closed after 2007	4.10	3.69
17622	Bafra	01.01.1929	1934 - 1952	21.72	24.73
17624	unye	01.01.1954		19.67	23.77
17626	Akcaabat	01.01.1950	1954 - 1963	22.95	23.77
17628	Pazar	01.01.1950	1954 - 1958	20.63	22.95
17631	Luleburgaz	01.01.1932		2.87	3.42
17632	İpsala	01.01.1966	1941 - 1944 and 1947 - 1956 and 1974 - 1976	25.41	27.46
17636	Florya	01.01.1936		1.64	3.69
17638	Kartal	01.01.1949		17.90	18.58
17646	cerkes	01.01.1953		23.77	35.38
17648	Ilgaz	01.04.1950	1954 - 1957	30.60	33.61
17650	Tosya	01.01.1929	1935 - 1939 and 1943 - 1945	16.39	26.78
17652	Osmancik	01.05.1953		35.66	37.84
17656	Arpacay	01.01.1953		39.34	38.66
17662	Geyve	01.01.1929	1948 - 1955	15.30	24.86
17664	Kizilcahamam	01.01.1929	1934 - 1941 and 1951 - 1956	14.07	16.39
17666	İspir	01.01.1952		18.44	24.59
17668	Oltu	01.01.1950	1973 - 1976	28.42	28.83
17674	Gonen	01.01.1949	1949 - 1956	30.46	33.06
17676	Uludag-Zirve	01.01.1939	1942 - 1946 and 1949 - 1957 and 1965 - 1968	31.42	35.11

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17679	Nallihan	01.01.1929	1932 - 1953	29.23	28.42
17680	Bey pazari	01.01.1929	1932 - 1950	19.54	24.45
17681	Zile	01.01.1938		19.81	22.95
17682	sebinkarahisar	01.01.1929	1951 - 1954	25.82	24.59
17683	Turhal	01.01.1933	1933 - 1935 and 1953 - 1967	43.03	40.98
17684	Susehri	01.01.1937		38.93	36.48
17688	Tortum	01.01.1953		15.16	21.45
17690	Horasan	01.01.1956		31.01	30.46
17692	Sarikamis	01.01.1929		15.16	21.31
17695	Keles	01.01.1963		26.64	29.37
17700	Dursunbey	01.01.1946	1946 - 1956	26.23	28.28
17702	Bozuyuk	01.01.1959		18.72	26.23
17704	Tavsanli	01.01.1938	1938 - 1957	27.32	29.23
17716	Zara	01.01.1956		25.55	23.63
17718	Tercan	01.01.1958		21.17	21.99
17720	Dogubeyazit	01.01.1950	1955 - 1957	17.21	21.72
17722	Burhaniye	01.01.1958		46.17	44.13
17726	Sivrihisar	01.01.1929		15.71	24.45
17728	Polatli	01.01.1929		25.00	27.87
17730	Keskin	05.07.1929	1929 - 1955	42.49	43.99
17732	cicekdagi	01.01.1971		35.93	37.16
17734	Divrigi	01.01.1941	1944 - 1950	18.72	22.40
17740	Hinis	01.01.1938		18.31	22.54
17742	Bergama	01.01.1929	1929 - 1938 and 1946 - 1953	23.36	24.73
17748	Simav	01.01.1938		17.21	18.31
17750	Gediz	01.01.1934	1936 - 1956	39.07	41.12
17752	Emirdag	01.01.1953		24.32	26.37
17754	Kulu	01.01.1955		33.74	31.01
17756	Kaman	01.01.1944		25.27	28.69
17760	Bogazliyan	01.01.1941	1942 - 1951 and 1952 - 1957	26.78	22.27
17762	Kangal	01.01.1946		22.54	25.68
17764	Arapgir	01.01.1953		18.85	23.09
17766	Agin	01.01.1963		52.46	47.81
17768	cemiskezek	01.01.1938		37.02	30.33
17774	Karakocan	01.01.1950		51.64	48.36
17776	Solhan	01.01.1931	1936 - 1950 and 1954 - 1956	27.87	24.59
17778	Varto	01.01.1950	2002 - 2004	49.04	47.27
17780	Malazgirt	01.01.1939	1946 - 1953	20.08	21.72
17784	Ercis	01.01.1954		27.60	24.73
17786	Muradiye	01.01.1950	1950 - 1953	24.45	25.96
17790	Bornova (Ege Univ.)	01.01.1963	closed after 2006	34.97	26.37
17792	Salihli	01.01.1939		23.63	26.91
17796	Bolvadin	01.01.1929	1934 - 1942 and 1951 - 1957	31.69	33.74
17798	Yunak	01.01.1955		36.34	34.56
17802	Pinarbasi	01.01.1950		24.73	22.27

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17804	Keban	01.01.1938		27.05	21.31
17806	Palu	01.01.1953		31.01	24.86
17808	Genc	01.01.1950	1953 - 1957 and 1958 - 1960	51.78	48.50
17810	Ahlat	01.01.1950		29.10	25.41
17812	ozalp	01.01.1950		23.77	26.23
17820	Seferihisar	01.01.1929	1934 - 1963	47.54	38.93
17822	odemis	01.01.1929	1930 - 1944 and 1952 - 1956	20.49	14.34
17824	Guney	01.01.1938		27.46	26.50
17826	Senirkent	01.01.1963		31.42	33.33
17828	Yalvac	01.07.1930	1932 - 1956	40.03	41.67
17832	Ilgin	01.01.1959		31.69	30.05
17835	urgup	01.01.1963		38.66	34.70
17836	Develi	01.01.1951		28.42	24.73
17837	Tomarza	01.01.1962		27.46	24.86
17840	Sariz	01.01.1950		22.81	25.68
17844	Sivrice	01.01.1950		53.01	47.81
17846	Maden	01.01.1952		53.83	48.50
17847	Ergani	01.01.1929	1932 - 1947 and 1952 - 1958	30.60	22.95
17848	Bitlis	01.01.1929	1933 - 1939 and 1942 - 1944	21.17	21.58
17850	Sultanhisar	01.01.1961		42.49	39.48
17854	Selcuk	01.01.1964		35.38	26.37
17860	Nazilli	01.01.1929	1953 - 1956 and 1959 - 1971	18.85	11.75
17862	Dinar	01.01.1938		18.58	26.09
17864	Uluborlu	01.11.1957		31.56	33.74
17866	Goksun	01.01.1953		19.67	21.31
17868	Afsin	01.01.1953		37.43	34.02
17870	Elbistan	01.01.1938		22.27	22.40
17872	Dogansehir	01.01.1953	1986 - 1988	37.70	29.78
17874	cermik	01.01.1930	1931 - 1953	46.99	38.11
17880	Baskale	01.01.1953		18.17	22.27
17882	Egirdir	01.01.1930	1932 - 1956	27.87	28.69
17884	Milas	01.01.1938		28.01	25.00
17886	Yatagan	01.01.1950	1959 - 1960	33.20	32.10
17890	Acipayam	01.01.1950	1962 - 1965 and 1977 - 1979	33.74	33.20
17892	Tefenni	01.01.1952		24.18	25.82
17896	Beysehir		1942 - 1946 and 1948 - 1953	17.49	15.44
17898	Seydisehir	01.01.1945	1945- 1953	19.13	23.22
17900	cumra	01.01.1929	1931 - 1953 and 1959 - 1971	39.21	35.38
17902	Karapinar	01.01.1953		29.23	21.99
17906	Ulukisla	01.01.1929	1932 - 1937	10.38	9.70
17908	Kozan	01.01.1951		17.08	21.72
17912	Siverek	01.01.1929		32.79	23.77
17920	Yuksekoa	01.01.1953		37.30	32.38

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17924	Koycegiz	01.01.1953		25.27	24.73
17926	Korkuteli	01.01.1953		32.51	33.88
17928	Hadim	01.01.1939	1941 - 1950 and 1951 - 1953 and 1955 - 1957	22.40	23.09
17936	Karaisali	01.01.1950		26.91	24.32
17948	Nusaybin	01.01.1953		42.90	26.64
17950	Cizre	01.01.1938		29.92	21.86
17952	Elmali	01.01.1958		16.39	16.94
17954	Manavgat	01.01.1929	1929 - 1937	27.32	24.73
17956	Mut	01.06.1953		36.34	32.65
17958	Erdemli	01.01.1963		29.64	21.31
17960	Ceyhan	01.01.1929		29.64	26.91
17962	Dortyol	01.01.1929		1.09	0.00
17964	İslahiye	01.01.1934		13.25	0.00
17966	Birecik	01.01.1950		36.07	23.22
17968	Ceylanpınar	01.01.1956		31.42	12.98
17974	Gazipasa	01.01.1950	1952 - 1956	43.44	32.10
17979	Yumurtalik	01.01.1964		29.78	23.09
17980	Akcakale	01.11.1953		42.08	24.73
17981	Karatas	01.01.1938	1959 - 1963	31.01	22.13
17986	Samandag	01.01.1944		24.18	22.95