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Supplement of

Evaluation of EURO-CORDEX (Coordinated Regional Climate Downscaling Experiment for the Euro-Mediterranean area) historical simulations by high-quality observational datasets in southern Italy: insights on drought assessment

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Supplementary Material

Table S1: Rain gauges used in the study and relative mean annual accumulated rainfall in the period 1971-2000.

Station ID	Station Name	Region	Latitude	Longitude	Elevation	Annual mean (mm)
C50	Cancellara	Basilicata	40.7340	15.9160	620	507
C60	Tolve	Basilicata	40.6981	16.0290	568	608
C230	Potenza	Basilicata	40.6370	15.8021	811	699
C240	Vaglio di Lucania	Basilicata	40.6673	15.9160	933	832
C280	Calvello	Basilicata	40.4673	15.8496	700	837
C310	Cognato	Basilicata	40.5673	16.1320	557	752
C320	Calciano	Basilicata	40.5840	16.1985	450	730
C360	Pisticci	Basilicata	40.2950	16.7345	364	541
C410	San Mauro Forte	Basilicata	40.4816	16.2511	504	697
C470	Tramutola	Basilicata	40.3253	15.7740	654	1078
C520	San Martino d'Agri	Basilicata	40.2340	16.0489	661	813
C530	Armento	Basilicata	40.3007	16.0656	640	835
C560	Missanello	Basilicata	40.2840	16.1652	566	875
C570	Aliano	Basilicata	40.3007	16.2317	497	743
C580	Roccanova	Basilicata	40.2106	16.1992	727	747
C660	Agromonte C. C.	Basilicata	40.0673	16.0489	500	1162
C690	San Severino Lucano	Basilicata	40.0173	16.1320	884	1417
C710	Carbone	Basilicata	40.1340	16.0822	685	1024
C760	Senise	Basilicata	40.1507	16.2815	330	668
C780	Cersosimo	Basilicata	40.0507	16.3480	563	978
C790	Noepoli	Basilicata	40.0897	16.3299	676	649
C810	Valsinni	Basilicata	40.1673	16.4311	250	742
C820	Tursi	Basilicata	40.2472	16.4802	348	712
C830	Nova Siri	Basilicata	40.1507	16.5307	300	621
C840	Nova Siri Scalo	Basilicata	40.1340	16.6304	2	539
C850	Nocera	Calabria	40.0856	16.4817	830	621
C860	Montegiordano Scalo	Calabria	40.0406	16.5981	7	467
C880	Castroregio	Calabria	39.9937	16.4787	820	631
C920	Trebisacce	Calabria	39.8656	16.5306	10	532
C930	Villapiana Scalo	Calabria	39.7973	16.4819	5	479
C940	FrancaVilla Marittima	Calabria	39.8184	16.3851	272	618
C950	San Lorenzo Bellizzi	Calabria	39.8887	16.3290	851	928
C970	Cassano allo Ionio	Calabria	39.7831	16.3189	251	686
C980	Piane Crati	Calabria	39.2326	16.3229	583	1066
C990	Trenta	Calabria	39.2801	16.3245	534	757
C1000	Domanico	Calabria	39.2164	16.2075	736	1473

C1010	Cosenza	Calabria	39.2869	16.2653	242	884
C1020	Cerisano	Calabria	39.2811	16.1743	620	1492
C1030	San Pietro in Guarano	Calabria	39.3456	16.3135	660	943
C1040	Rende	Calabria	39.3312	16.1804	482	1101
C1050	Rose	Calabria	39.3984	16.2876	433	986
C1070	Laghitello C.C.	Calabria	39.4381	16.1012	870	1625
C1080	San Martino di Finita	Calabria	39.4898	16.1081	470	1684
C1100	Cecita	Calabria	39.4000	16.5378	1180	943
C1110	Pinutello C.C.	Calabria	39.4515	16.4743	1005	1138
C1120	Acri	Calabria	39.4826	16.3935	790	965
C1130	Torano Scalo	Calabria	39.4938	16.2098	97	796
C1150	Santa Sofia d'Epiro	Calabria	39.5476	16.3201	550	894
C1170	Morano Calabro	Calabria	39.8401	16.1380	722	1183
C1180	Castrovillari	Calabria	39.7655	16.2542	353	757
C1190	Firmo	Calabria	39.7220	16.1742	1369	743
C1220	Roggiano Gravina	Calabria	39.6179	16.1504	264	509
C1230	San Sosti	Calabria	39.6644	16.0279	404	1517
C1260	San Marco Argentano	Calabria	39.5594	16.1108	430	1216
C1300	San Giorgio Albanese	Calabria	39.5834	16.4529	430	897
C1310	Schiavonea	Calabria	39.6534	16.5392	3	415
C1320	San Giacomo d'Acri	Calabria	39.5242	16.4651	724	983
C1330	Rossano	Calabria	39.5745	16.6343	300	894
C1360	Longobucco	Calabria	39.4461	16.6103	770	1144
C1370	Bocchigliero	Calabria	39.4173	16.7529	870	1134
C1380	Cropalati	Calabria	39.5157	16.7245	367	902
C1390	Crosia	Calabria	39.5667	16.7729	279	687
C1410	Cariati Marina	Calabria	39.5051	16.9402	10	814
C1430	Scala Coeli	Calabria	39.4454	16.8898	330	1126
C1440	Crucoli	Calabria	39.4245	17.0038	367	902
C1460	Ciro' Marina	Calabria	39.4079	17.1093	6	689
C1470	San Giovanni in Fiore	Calabria	39.2633	16.7157	1050	1131
C1500	Nocelle - Arvo	Calabria	39.2432	16.5449	1315	1138
C1510	Sculca	Calabria	39.3220	16.5023	1358	1256
C1540	Berberano C.C.	Calabria	39.1817	16.5748	1280	1117
C1550	Trepido'	Calabria	39.1887	16.6979	1295	1117
C1560	Casa Pasquale	Calabria	39.1812	16.7190	1246	1350
C1590	Belvedere Spinello	Calabria	39.2071	16.8878	330	829
C1620	Verzino	Calabria	39.3131	16.8620	550	915
C1650	Strongoli	Calabria	39.2645	17.0470	342	667
C1680	Crotone	Calabria	39.0870	17.1310	5	656

C1690	Capo Colonne	Calabria	39.0287	17.2043	24	536
C1720	Steccato	Calabria	38.9448	16.9229	15	600
C1730	Petilia Policastro	Calabria	39.1108	16.7877	434	977
C1760	Botricello	Calabria	38.9415	16.8586	18	449
C1780	Cropani	Calabria	38.9710	16.7800	347	905
C1800	Sellia Marina	Calabria	38.9060	16.7436	30	684
C1830	Albi	Calabria	39.0264	16.5982	710	1193
C1840	Sant'Elia	Calabria	38.9645	16.5862	650	1158
C1850	Catanzaro	Calabria	38.9108	16.5859	334	971
C1860	Catanzaro Lido	Calabria	38.8206	16.6129	6	661
C1880	Fiorenza	Calabria	39.0923	16.4934	1126	1275
C1890	Umbri	Calabria	39.0259	16.5134	885	1078
C1920	Borgia	Calabria	38.8270	16.5076	332	958
C1940	Palermi	Calabria	38.7492	16.4528	480	1229
C1950	Staletti	Calabria	38.7654	16.5388	390	873
C1960	Chiaravalle Centrale	Calabria	38.6713	16.4088	714	1369
C1980	Serra San Bruno	Calabria	38.5652	16.3197	790	1652
C1990	Simbario	Calabria	38.6112	16.3268	760	1429
C2010	San Sostene	Calabria	38.6375	16.4868	475	1442
C2040	Monasterace - Punta Stilo	Calabria	38.4537	16.5522	70	669
C2070	Riace	Calabria	38.4179	16.4781	304	896
C2080	Placanica	Calabria	38.4145	16.4704	250	916
C2120	Caulonia	Calabria	38.3832	16.4114	275	921
C2130	Roccella Ionica	Calabria	38.3216	16.3998	5	754
C2150	Fabrizia - Cassari	Calabria	38.4421	16.2933	970	1620
C2160	Gioiosa Ionica	Calabria	38.3011	16.3298	125	893
C2170	Siderno Marina	Calabria	38.2741	16.2985	7	672
C2180	Antonimina - Canolo Nuovo	Calabria	38.3131	16.1272	880	1736
C2210	Ardore Superiore	Calabria	38.2059	16.1550	250	895
C2230	Plati'	Calabria	38.2222	16.0444	300	1643
C2260	San Luca	Calabria	38.1484	16.0672	250	1002
C2270	Sant'Agata del Bianco	Calabria	38.1007	16.0853	380	977
C2290	Staiti	Calabria	37.9998	16.0354	550	1004
C2310	Capo Spartivento	Calabria	37.9273	16.0561	48	631
C2320	Bova Superiore	Calabria	37.9961	15.9328	905	778
C2330	Bova Marina	Calabria	37.9313	15.9215	8	461
C2350	San Carlo	Calabria	37.9592	15.8903	76	546
C2370	Melito di Porto Salvo	Calabria	37.9200	15.7714	7	528
C2380	Montebello Ionico	Calabria	37.9839	15.7584	470	823
C2390	Capo dell'Armi	Calabria	37.9648	15.6842	117	504

C2400	Motta San Giovanni	Calabria	38.0026	15.6945	480	553
C2420	Armo	Calabria	38.0703	15.7139	349	1052
C2480	Gallico Marina	Calabria	38.1656	15.6470	10	803
C2510	Scilla	Calabria	38.2516	15.7197	73	735
C2560	Sinopoli	Calabria	38.2599	15.8774	502	1265
C2570	Oppido Mamertina - Castellace	Calabria	38.3124	15.9401	189	1512
C2580	Molochio	Calabria	38.3088	16.0313	310	1038
C2600	Cittanova	Calabria	38.3522	16.0775	407	1396
C2610	Rizziconi	Calabria	38.4077	15.9716	114	1171
C2640	Filogaso	Calabria	38.6803	16.2306	286	933
C2670	Arena	Calabria	38.5621	16.2169	450	1040
C2680	San Pier Fedele	Calabria	38.5240	16.1428	325	999
C2690	Feroleto della Chiesa	Calabria	38.4681	16.0684	160	991
C2720	Polistena	Calabria	38.4065	16.0745	239	1036
C2730	Mileto	Calabria	38.6272	16.0669	368	830
C2740	Rosarno	Calabria	38.5005	15.9880	61	898
C2750	Calimera	Calabria	38.5567	16.0187	180	879
C2760	Joppolo	Calabria	38.5920	15.9052	185	823
C2770	Tropea	Calabria	38.6753	15.8944	51	742
C2780	Zungri	Calabria	38.6535	15.9829	578	861
C2790	Briatico	Calabria	38.7270	16.0365	25	759
C2830	Filadelfia	Calabria	38.7869	16.2930	550	1183
C2840	Torre Mezzapraia	Calabria	38.8209	16.2204	20	848
C2850	Curinga Scalo	Calabria	38.8401	16.2612	25	805
C2860	San Tommaso	Calabria	39.0862	16.3768	820	1374
C2870	Decollatura	Calabria	39.0464	16.3582	780	1249
C2890	Tiriolo	Calabria	38.9395	16.5099	690	1172
C2900	Marcellinara	Calabria	38.9287	16.4943	330	1048
C2960	Sant'Eufemia Lamezia	Calabria	38.9215	16.2523	25	843
C2980	Savuto C.C.	Calabria	39.1626	16.5034	1205	921
C3000	Rogliano	Calabria	39.1835	16.3257	650	1113
C3020	Nocera Terinese	Calabria	39.0378	16.1663	250	1281
C3040	Amantea	Calabria	39.1492	16.0862	54	931
C3050	Fiumefreddo Bruzio	Calabria	39.2351	16.0710	220	965
C3060	Paola	Calabria	39.3673	16.0420	160	971
C3080	Guardia Piemontese	Calabria	39.4667	15.9998	515	1210
C3090	Cetraro Superiore	Calabria	39.5351	15.9640	416	968
C3150	Laino Borgo	Calabria	39.9544	15.9760	250	1293
C3160	Campotenese	Calabria	39.8726	16.0684	965	1493
C3190	Orsomarso	Calabria	39.8001	15.9095	120	976

C3200	Scalea	Calabria	39.8111	15.7923	10	892
C3210	Lagonegro	Basilicata	40.1342	15.7620	666	1674
C3230	Trecchina	Basilicata	40.0173	15.7831	500	1677
C3240	Lauria Inferiore	Basilicata	40.0507	15.8330	630	1496
C3250	Aieta	Calabria	39.9292	15.8237	524	1298
C3260	Maratea	Basilicata	39.9840	15.7167	300	1217
S10	Calvaruso	Sicily	38.2242	15.4551	135	1000
S20	San Saba	Sicily	38.2828	15.4978	24	761
S40	Monforte S. Giorgio	Sicily	38.1589	15.3842	293	888
S50	Santa Lucia del Mela	Sicily	38.1421	15.2844	280	817
S70	Castroreale	Sicily	38.0999	15.2118	399	829
S80	Barcellona Pozzo di Gotto	Sicily	38.1505	15.2193	49	745
S100	Rodi Milici	Sicily	38.0839	15.1692	160	748
S120	Casale Tripi	Sicily	38.0507	15.1007	430	692
S130	Montalbano Elicona	Sicily	38.0267	15.0098	907	974
S140	Tindari	Sicily	38.1444	15.0449	280	716
S150	Raccuia	Sicily	38.0535	14.9667	650	807
S160	Ficarra	Sicily	38.0576	14.9099	541	877
S170	Tortorici	Sicily	38.1100	14.8303	475	1039
S220	Militello Rosmarino	Sicily	38.0318	14.8253	459	940
S270	Alcara Li Fusi	Sicily	38.0453	14.6748	400	952
S310	San Fratello	Sicily	38.0249	14.6990	690	858
S320	Caronia	Sicily	38.0214	14.4429	302	620
S330	Mistretta	Sicily	37.9271	14.3625	910	910
S345	Santo Stefano di Camastra	Sicily	37.8673	14.3979	135	602
S350	Castel di Lucio	Sicily	37.8881	14.3130	772	837
S360	Tusa	Sicily	37.9862	14.2370	535	819
S370	San Mauro Castelverde	Sicily	37.9160	14.1920	1109	810
S380	Geraci Siculo	Sicily	37.8639	14.1554	1070	858
S430	Castelbuono	Sicily	37.9315	14.0898	428	819
S470	Cefalù	Sicily	38.0356	14.0170	30	637
S480	Collesano	Sicily	37.9198	13.9383	481	812
S520	Scillato	Sicily	37.8639	13.9150	376	700
S530	Caltavuturo	Sicily	37.8209	13.8921	635	686
S580	Cerda	Sicily	37.9033	13.8170	274	622
S596	Termini Imerese	Sicily	37.9864	13.6895	75	513
S600	Vicari	Sicily	37.8293	13.5705	650	512
S610	Campofelice d'Italia	Sicily	37.8282	13.4876	730	683
S630	Mezzojuso	Sicily	37.8669	13.4668	517	749
S650	Caccamo	Sicily	37.9342	13.6652	521	631

S660	Ciminna	Sicily	37.8957	13.5598	525	608
S690	Capo Zafferano	Sicily	38.1138	13.5382	22	410
S720	Ficuzza	Sicily	37.8868	13.3793	681	753
S730	Marineo	Sicily	37.9542	13.4153	540	753
S760	San Ciro	Sicily	38.0888	13.3874	100	554
S780	Pioppo	Sicily	38.0506	13.2331	495	1066
S790	Altofonte	Sicily	38.0443	13.2953	354	856
S827	San Martino delle Scale	Sicily	38.0911	13.2539	570	900
S850	Partinico	Sicily	38.0469	13.1177	189	670
S860	Cinisi	Sicily	38.1572	13.1074	120	660
S875	Palermo (Osservatorio)	Sicily	38.1062	13.3346	37	480
S920	Palermo Sez. Idr.	Sicily	38.1210	13.3579	19	584
S950	San Giuseppe Jato	Sicily	37.9748	13.1869	462	722
S975	Alcamo	Sicily	37.9798	12.9182	256	704
S980	Calatafimi	Sicily	37.9167	12.8667	350	682
S1010	Lentina	Sicily	38.0539	12.6756	90	571
S1030	Trapani	Sicily	38.0164	12.5072	2	454
S1050	San Vito lo Capo	Sicily	38.1901	12.7332	3	486
S1054	Specchia	Sicily	37.9631	12.6795	140	501
S1060	Fastaia	Sicily	37.9338	12.7338	218	552
S1110	Ciavolo	Sicily	37.7776	12.5491	120	522
S1120	Marsala	Sicily	37.7990	12.4387	12	456
S1130	Petrosino (ex Milo)	Sicily	37.7158	12.4919	2	432
S1144	Mazara del Vallo	Sicily	37.6586	12.5994	8	480
S1150	Salemi	Sicily	37.8194	12.8014	340	580
S1180	Partanna	Sicily	37.7311	12.8922	407	630
S1190	Castelvetrano	Sicily	37.6928	12.8006	190	490
S1209	Piana dei Greci (Maganocce)	Sicily	38.0016	13.2696	616	823
S1230	Santa Cristina Gela	Sicily	37.9872	13.3270	656	1040
S1270	Corleone	Sicily	37.8162	13.3019	588	644
S1300	Roccamena	Sicily	37.8381	13.1544	480	531
S1310	Gibellina	Sicily	37.7900	12.9727	410	608
S1340	Menfi	Sicily	37.6027	12.9632	119	502
S1360	Sambuca di Sicilia	Sicily	37.6506	13.1114	296	625
S1380	Sciacca	Sicily	37.5130	13.0821	56	518
S1405	Caltabellotta	Sicily	37.5778	13.2159	949	646
S1410	Prizzi	Sicily	37.7233	13.4314	1100	715
S1420	Piano del Leone	Sicily	37.6735	13.4668	831	752
S1430	Palazzo Adriano	Sicily	37.6856	13.3801	679	729
S1440	Chiusa Sclafani	Sicily	37.6783	13.2707	614	696

S1450	Burgio	Sicily	37.6031	13.2902	378	666
S1460	Ribera	Sicily	37.5003	13.2713	230	540
S1480	Bivona	Sicily	37.6209	13.4396	521	794
S1490	Lercara Friddi	Sicily	37.7490	13.6005	658	549
S1540	Castroville Sicily	Sicily	37.6814	13.6054	661	708
S1550	Casteltermini	Sicily	37.5431	13.6425	577	616
S1560	San Cataldo	Sicily	37.4865	13.9793	643	577
S1600	Santa Caterina Villermosa	Sicily	37.5895	14.0299	606	544
S1610	Valledolmo	Sicily	37.7485	13.8275	750	606
S1630	Marianopoli	Sicily	37.5985	13.9150	700	403
S1660	Vallelunga Pratameno	Sicily	37.6853	13.8319	460	600
S1680	Mussomeli	Sicily	37.5811	13.7541	761	569
S1700	Racalmuto	Sicily	37.4100	13.7341	450	585
S1710	Bompensiere	Sicily	37.4745	13.7832	260	633
S1720	San Biagio Platani	Sicily	37.5112	13.5245	408	610
S1750	Cianciana	Sicily	37.5223	13.4334	439	587
S1760	Cattolica Eraclea	Sicily	37.4421	13.3971	150	496
S1780	Raffadali	Sicily	37.4059	13.5327	297	658
S1810	Agrigento (Ispettorato)	Sicily	37.3130	13.5873	175	481
S1830	Castrofilippo	Sicily	37.3511	13.7500	475	583
S1840	Canicatti	Sicily	37.3595	13.8504	470	578
S1850	Palma di Montechiaro	Sicily	37.1942	13.7645	135	468
S1860	Petralia Sottana	Sicily	37.8092	14.0924	930	794
S1900	Alimena	Sicily	37.6897	14.1146	775	538
S1920	Resuttano	Sicily	37.6813	14.0291	555	588
S1960	Enna	Sicily	37.5696	14.2731	950	656
S1980	Villapriolo	Sicily	37.6325	14.1882	565	564
S1990	Villarosa	Sicily	37.5873	14.1755	518	509
S2000	Granci (Fattoria)	Sicily	37.4923	14.2398	572	544
S2020	Caltanissetta	Sicily	37.4978	14.0577	375	510
S2040	Pietraperzia	Sicily	37.4222	14.1386	467	483
S2100	Sommatino	Sicily	37.3391	13.9959	349	474
S2150	Ravanusa	Sicily	37.2693	13.9746	306	492
S2200	Licata	Sicily	37.1025	13.9343	70	433
S2220	Butera	Sicily	37.1895	14.1849	390	477
S2240	Gela	Sicily	37.0652	14.2520	30	373
S2248	Mazzerino	Sicily	37.3044	14.2190	547	524
S2250	Piazza Armerina	Sicily	37.3673	14.3346	721	643
S2290	Monterosso Almo	Sicily	37.0890	14.7631	667	673
S2300	Chiaromonte Gulfi	Sicily	37.0302	14.7037	672	756

S2345	Acate	Sicily	36.9984	14.4266	199	429
S2350	Vittoria	Sicily	36.9531	14.5266	168	456
S2370	Ragusa	Sicily	36.9242	14.7244	515	617
S2380	Modica	Sicily	36.8605	14.7625	370	600
S2390	Scicli	Sicily	36.7946	14.7068	130	484
S2410	Ispica	Sicily	36.7864	14.9164	127	468
S2420	Cozzo Spadaro	Sicily	36.6884	15.1321	50	481
S2430	Rosolini	Sicily	36.8221	14.9522	137	611
S2450	Noto	Sicily	36.8927	15.0713	76	654
S2468	Canicattini Bagni	Sicily	37.0369	15.0608	362	835
S2470	Palazzolo Acreide	Sicily	37.0676	14.9074	695	642
S2490	Sortino	Sicily	37.1620	15.0278	435	798
S2510	Floridia	Sicily	37.0831	15.1533	111	652
S2540	Siracusa	Sicily	37.0626	15.2928	23	524
S2550	Augusta	Sicily	37.2307	15.2245	11	536
S2570	Francofonte	Sicily	37.2276	14.8811	281	676
S2580	Lentini (Città)	Sicily	37.2926	14.9989	43	582
S2690	Cesarò	Sicily	37.8469	14.7099	1100	710
S2750	Troina	Sicily	37.7839	14.5982	1074	604
S2780	Maletto	Sicily	37.8302	14.8659	950	641
S2790	Bronte	Sicily	37.7869	14.8335	780	582
S2800	Nicosia	Sicily	37.7486	14.3973	650	719
S2810	Capizzi	Sicily	37.8501	14.4784	1089	806
S2830	Cerami	Sicily	37.8121	14.5096	980	648
S2840	Gagliano Castelferrato	Sicily	37.7065	14.5348	837	613
S2870	Ragalna	Sicily	37.6304	14.9407	700	613
S2880	Centuripe	Sicily	37.6218	14.7419	733	407
S2900	Adrano	Sicily	37.6675	14.8363	570	497
S2910	Paternò	Sicily	37.5693	14.9106	240	447
S2930	Motta San Anastasia	Sicily	37.5145	14.9681	254	494
S2935	Simeto (Stazione)	Sicily	37.4565	14.9127	26	435
S2940	Leonforte	Sicily	37.6400	14.3927	640	622
S2960	Valguarnera Caropepe	Sicily	37.4960	14.3880	588	598
S2980	Catenanuova	Sicily	37.5724	14.6931	185	440
S2990	Castel di Judica	Sicily	37.4956	14.6451	500	545
S3020	Aidone	Sicily	37.4173	14.4468	816	737
S3030	Mirabella Imbaccari	Sicily	37.3275	14.4473	469	587
S3050	Caltagirone	Sicily	37.2414	14.5186	513	514
S3060	Mineo	Sicily	37.2662	14.6909	524	601
S3070	Ramacca	Sicily	37.3864	14.6960	257	452

S3090	Nicolosi	Sicily	37.6153	15.0273	695	1123
S3100	Fleri	Sicily	37.6568	15.0994	620	1158
S3110	Zafferana Etnea	Sicily	37.6941	15.1063	590	1330
S3120	Linguaglossa	Sicily	37.8411	15.1451	530	1156
S3130	Viagrande	Sicily	37.6113	15.0991	405	954
S3140	Piedimonte Etneo	Sicily	37.8083	15.1790	348	999
S3150	Acireale	Sicily	37.6222	15.1659	194	817
S3155	Catania (Osservatorio)	Sicily	37.5155	15.0872	75	609
S3210	Floresta	Sicily	37.9878	14.9059	1270	1113
S3270	Roccella Valdemone	Sicily	37.9357	15.0077	786	913
S3280	Francavilla di Sicilia	Sicily	37.9058	15.1374	319	985
S3310	Taormina	Sicily	37.8553	15.2886	248	711
S3320	Antillo	Sicily	37.9780	15.2453	480	1263
S3340	Casalvecchio Siculo	Sicily	37.9596	15.3231	420	889
S3350	Camaro	Sicily	38.2111	15.5003	568	1041
S3360	Santo Stefano di Briga	Sicily	38.1007	15.4813	139	875
S3370	Messina (Osservatorio)	Sicily	38.2027	15.5541	54	803
S3380	Messina (Istituto Geofisico)	Sicily	38.2022	15.5548	54	727
S3400	Ganzirri	Sicily	38.2576	15.6090	1	705

Table S2: Temperature stations used in the study and relative mean annual temperature in the period 1971-2000.

Station ID	Station Name	Region	Latitude	Longitude	Elevation	Annual mean (°C)
C140	Tricarico	Basilicata	40.6173	16.1486	698	13.3
C200	Matera	Basilicata	40.6597	16.5954	450	15.2
C230	Potenza	Basilicata	40.6370	15.8021	811	12.4
C500	Grumento Nova	Basilicata	40.2909	15.8969	585	13.2
C620	Stigliano	Basilicata	40.3976	16.2274	908	12.3
C810	Valsinni	Basilicata	40.1673	16.4311	250	16.0
C840	Nova Siri Scalo	Basilicata	40.1340	16.6304	2	16.9
C930	Villapiana Scalo	Calabria	39.7973	16.4819	5	16.6
C1010	Cosenza	Calabria	39.2869	16.2653	242	16.7
C1100	Cecita	Calabria	39.4000	16.5378	1180	9.2
C1130	Torano Scalo	Calabria	39.4938	16.2098	97	16.3
C1180	Castrovillari	Calabria	39.7655	16.2542	353	15.0
C1250	Fagnano Castello	Calabria	39.5640	16.0556	516	15.0
C1260	San Marco Argentano	Calabria	39.5594	16.1108	430	15.3
C1330	Rossano	Calabria	39.5745	16.6343	300	16.1
C1460	Ciro' Marina	Calabria	39.4079	17.1093	6	17.0
C1550	Trepidò'	Calabria	39.1887	16.6979	1295	9.5
C1670	Cutro	Calabria	39.0366	17.0152	169	16.9
C1760	Botricello	Calabria	38.9415	16.8586	18	17.4
C1850	Catanzaro	Calabria	38.9108	16.5859	334	16.2
C1855	Santa Maria di Catanzaro	Calabria	38.8496	16.5977	70	17.8
C1960	Chiaravalle Centrale	Calabria	38.6713	16.4088	714	13.5
C1970	Soverato Marina	Calabria	38.6917	16.5444	29	17.9
C1980	Serra San Bruno	Calabria	38.5652	16.3197	790	11.0
C2120	Caulonia	Calabria	38.3832	16.4114	275	16.7
C2170	Siderno Marina	Calabria	38.2741	16.2985	7	18.1
C2180	Antonimina - Canolo Nuovo	Calabria	38.3131	16.1272	880	12.4
C2210	Ardore Superiore	Calabria	38.2059	16.1550	250	17.9
C2370	Melito di Porto Salvo	Calabria	37.9200	15.7714	7	18.0
C2450	Reggio Calabria	Calabria	38.1078	15.6509	15	18.4
C2470	Gambarie d'Aspromonte	Calabria	38.1929	15.8449	1200	9.9
C2600	Cittanova	Calabria	38.3522	16.0775	407	16.1
C2730	Mileto	Calabria	38.6272	16.0669	368	15.7
C2740	Rosarno	Calabria	38.5005	15.9880	61	17.1
C2770	Tropea	Calabria	38.6753	15.8944	51	18.0
C2890	Tiriolo	Calabria	38.9395	16.5099	690	14.2
C2960	Sant'Eufemia Lamezia	Calabria	38.9215	16.2523	25	17.0
C3000	Rogliano	Calabria	39.1835	16.3257	650	14.1

C3050	Fiumefreddo Bruzio	Calabria	39.2351	16.0710	220	16.2
C3210	Lagonegro	Basilicata	40.1342	15.7620	666	12.7
C3260	Maratea	Basilicata	39.9840	15.7167	300	14.7
S140	Tindari	Sicily	38.1444	15.0449	280	17.5
S310	San Fratello	Sicily	38.0179	14.5990	690	16.3
S470	Cefalù	Sicily	38.0356	14.0170	30	19.3
S660	Ciminna	Sicily	37.8957	13.5598	525	16.3
S720	Ficuzza	Sicily	37.8868	13.3793	681	15.6
S850	Partinico	Sicily	38.0469	13.1177	189	18.2
S920	Palermo (Piazza Verdi)	Sicily	38.1210	13.3579	19	19.3
S950	San Giuseppe Jato	Sicily	37.9748	13.1869	462	18.3
S1030	Trapani	Sicily	38.0164	12.5072	2	18.6
S1050	San Vito lo Capo	Sicily	38.1901	12.7332	3	19.2
S1120	Marsala	Sicily	37.7990	12.4387	12	17.6
S1140	Mazara del Vallo	Sicily	37.6586	12.5994	8	18.7
S1180	Partanna	Sicily	37.7311	12.8922	407	17.4
S1270	Corleone	Sicily	37.8162	13.3019	588	16.7
S1380	Sciacca	Sicily	37.5130	13.0821	56	18.2
S1420	Piano del Leone	Sicily	37.6735	13.4668	831	14.1
S1480	Bivona	Sicily	37.6209	13.4396	521	17.3
S1490	Lercara Friddi	Sicily	37.7490	13.6005	658	15.7
S1700	Racalmuto	Sicily	37.4100	13.7341	450	17.7
S1810	Agrigento (Ispettorato)	Sicily	37.3130	13.5873	175	18.2
S1860	Petralia Sottana	Sicily	37.8092	14.0924	930	14.5
S1960	Enna	Sicily	37.5696	14.2731	950	13.9
S2020	Caltanissetta	Sicily	37.4978	14.0577	375	17.5
S2200	Licata	Sicily	37.1025	13.9343	70	18.6
S2240	Gela	Sicily	37.0652	14.2520	30	19.4
S2250	Piazza Armerina	Sicily	37.3673	14.3346	721	15.7
S2290	Monterosso Almo	Sicily	37.0890	14.7631	667	16.0
S2350	Vittoria	Sicily	36.9531	14.5266	168	17.4
S2370	Ragusa	Sicily	36.9242	14.7244	515	17.6
S2420	Cozzo Spadaro	Sicily	36.6884	15.1321	50	18.6
S2540	Siracusa	Sicily	37.0626	15.2928	23	18.5
S2580	Lentini (Città)	Sicily	37.2926	14.9989	43	19.0
S2690	Cesarò	Sicily	37.8469	14.7099	1100	13.0
S2900	Adrano	Sicily	37.6675	14.8363	570	17.2
S3050	Caltagirone	Sicily	37.2414	14.5186	513	16.7
S3090	Nicolosi	Sicily	37.6153	15.0273	695	15.8
S3110	Zafferana Etnea	Sicily	37.6941	15.1063	590	16.1

S3120	Linguaglossa	Sicily	37.8411	15.1451	530	15.6
S3150	Acireale	Sicily	37.6222	15.1659	194	18.3
S3155	Catania (Osservatorio)	Sicily	37.5155	15.0872	75	19.7
S3210	Floresta	Sicily	37.9878	14.9059	1270	11.5
S3310	Taormina	Sicily	37.8553	15.2886	248	20.6
S3380	Messina (Istituto Geofisico)	Sicily	38.2022	15.5548	54	18.6
