Armenia, 1991-2020 Climatological Normals

The WMO Member provided data for 35 stations in individual CSV files.

Users are asked to note that for most monthly normals, the Member provided values to six or more decimal places. NCEI rounded these to a single decimal place for publication.

The list of all CSV files is provided below.

Excel Files	CSV Files
N/A	Amasia_37682.csv
	Amberd_37782.csv
	AnanunPass_37878.csv
	Aparan_37699.csv
	AragatsHM_37781.csv
	Ararat_37874.csv
	Armavir_37787.csv
	Artashat_37871.csv
	Ashtarak_37785.csv
	Bagratashen_37626.csv
	Dilijan_37706.csv
	Fantan_37791.csv
	Gavar_37801.csv
	Goris_37953.csv
	Gyumri_37686.csv
	Hrazdan_37792.csv
	Ijevan_37711.csv
	Jermuk_37883.csv
	Martuni_37808.csv
	Masrik_37815.csv
	Meghri_37958.csv
	Odzun_37627.csv
	PushlkiniPass_37694.csv
	SevanLake_37717.csv
	Shorja_37802.csv
	Sisian_37897.csv
	Stepanavan_37693.csv
	Talin_37772.csv
	Tashir_37618.csv
	Tsaghkahovit_37690.csv
	Urtsadzor_37872.csv
	Vanadzor_37704.csv
	VorortaniPass_37879.csv
	YerevanAgro_37789.csv
	YerevanArabkir_37789.csv

Austria, 1991-2020 Climatological Normals

The WMO Member provided data for nine (9) stations in individual CSV files.

Users are asked to note:

1) NCEI made a number of corrections to station metadata formatting for station elevation and latitude/longitude. In addition " quotation marks and tabs were replaced with spaces between the commas. NCEI also removed Parameters for which no values were present.
2) The WMO Member confirmed they had computed 'Days with' variables (Parameters 2, 12 to 18., eg) as direct averages of counts rather than computing as percentages first.
3) Days exceeding wind speed uses the Beaufort scale (>6 and >8).
4) NCEI renamed the originally submitted files using the standard WMO Normals naming convention.

Additional information from the WMO Member is provided below the table.

Excel Files	CSV Files
N/A	Feuerkogel_11155.csv Graz_Flughafen_11240.csv Innsbruck_Flugplatz_11120.csv Klagenfurt_11231.csv Kremsmuenster_11012.csv Salzburg_Flughafen_11150.csv Sonnblick_11343.csv Villacher_Alpe_11265.csv Wien_Hohe_Warte_11035.csv

Additional explanatory information from WMO Member

I send you here the climate normal of 9 Austrian stations.
Please be aware that parameters "days with…" are provided as count instead of percentages and therefore the "Calculation Name" was set to "Custom".
The values are as far as available based on homogenised values. Some information on this can be found (in German only) here: https://www.zamg.ac.at/cms/de/klima/informationsportal-klimawandel/daten-download/copy_of_klimamittel

As I didn't have the WIGOS numbers available in a way to include them into the file, I provide them to you in the list below. When there is no number provided it wasn't clear to me, which one to use.
Attached are the values for the following stations:
Wien-Hohe Warte
Sonnblick 0-20000-0-11343
Salzburg Flughafen 0-20000-0-11150
Klagenfurt Flughafen
Graz Flughafen 0-20000-0-11240
Innsbruck Flughafen 0-20000-0-11120
Kremsmünster 0-20000-0-11012
Feuerkogel 0-20000-0-11155

Villacher Alpe

Belarus, 1991-2020 Climatological Normals

The WMO Member provided data for 41 stations in individual CSV files.

Users are asked to note that the latitude/longitude originally provided for Oktyabr (26950) was incorrectly presented as longitude/latitude. NCEI provided a correction in the published file OKTYABR_26950.csv.

Excel Files	CSV Files
N/A	BARANOVICHI_26941.csv
	BEREZINO_26853.csv
	BEREZINSKIIZAPOVEDNIK_26959.csv
	BOBRUISK_26961.csv
	BORISOV_26759.csv
	BRAGIN_33124.csv
	BREST_33008.csv
	DOKSHITSY_26657.csv
	GANTSEVICHI_26947.csv
	GOMEL_33041.csv
	GORKI_26774.csv
	GRODNO_26825.csv
	IVATSEVICHI_26938.csv
	KLICHEV_26864.csv
	KOSTUCKOVICHI_26887.csv
	LIDA_26832.csv
	LYNTUPY_26645.csv
	MARIYNAGORKA_26855.csv
	MINSK_26850.csv
	MOGILEV_26863.csv
	MOZYR_33036.csv
	NOVOGRUDOK_26836.csv
	OKTYABR_26950.csv
	ORSHA_26763.csv
	OSHMYANY_26736.csv
	PINSK_33019.csv
	POLESSKAYA_33015.csv
	POLOTSK_26653.csv
	PRYZHANY_26929.csv
	SHARCOVSCHINA_26643.csv
	SLAVGOROD_26878.csv
	SLUTSK_26951.csv
	STOLBTSY_26846.csv
	VASILEVICHI_33038.csv
	VERHNEDVINSK_26554.csv
	VITEBSK_26666.csv
	VOLKOVYSK_26923.csv

	VOLOZHIN_26748.csv VYSOKOE_33001.csv ZHITCKOVICHI_33027.csv ZHLOBIN_26966.csv

Belgium, 1991-2020 Climatological Normals

The WMO Member provided data for 14 stations in individual CSV files.

Excel Files	CSV Files
N/A	ANTWERPENDEURNE_06450.csv BEAUVECHAIN_06458.csv BIERSET_06478.csv BRUSSELSNATIONALAIRPORT_06451.csv CHARLEROIGOSSELIES_06449.csv ELSENBORN_06496.csv FLORENNES_06456.csv KLEINEBROGEL_06479.csv KOKSIJDE_06400.csv OOSTENDEAIRPORT_06407.csv SEMMERZAKE_06428.csv SPALASAUVENIERE_06490.csv STHUBERT_06476.csv UCCLE_06447.csv

Bosnia and Herzegovina, 1991-2020 Climatological Normals

The WMO Member provided data for five (5) stations in individual Excel files. NCEI converted the Excel files to Comma Separated Values (CSV) files to aid in quality control, mapping, and comparison to Normals from other countries.

The original Excel files are provided along with the CSV files.

Excel Files	CSV Files
BUGOJNO_14544.xls MOSTAR_14648.xls SANSKI_MOST_14537.xls SARAJEVO_14654.xls TUZLA_14557.xls	BUGOJNO_14544.csv MOSTAR_14648.csv SANSKI_MOST_14537.csv SARAJEVO_14654.csv TUZLA_14557.csv

Bosnia and Herzegovina, Republic of Srpska, 1991-2020 Climatological Normals

The WMO Member provided data for 12 stations in a single Excel file with multiple spreadsheets. NCEI converted the Excel file spreadsheets to Comma Separated Values (CSV) files to aid in quality control, mapping, and comparison to Normals from other countries.

Users are asked to note that the Mean Vapor Pressure annual value for two stations (Banjaluka and Bijeljina) were provided as sums of the monthly values rather than an average. NCEI recomputed the annual values and included them in the CSV files (Banjaluka_14542.csv and Bijeljina_14562.csv).

The original Excel file is provided along with the CSV files.

Excel Files	CSV Files
Srpska_WMO_Normals_9120.xlsx	Banjaluka_14542.csv Bijeljina_14562.csv Bileca_14667.csv Cemerno_14656.csv Doboj_14551.csv Han_Pijesak_14565.csv Novi_Grad_14535.csv Prijedor_14536.csv Sokolac_14658.csv Srbac_14538.csv Trebinje_14668.csv Visegrad_14662.csv

Bulgaria, 1991-2020 Climatological Normals

The WMO Member provided data for 11 stations in individual CSV files.

Excel Files	CSV Files
N/A	Burgas_15655.csv
	Kardzhali_15730.csv
	Lovech_15525.csv
	MurgashPeak_15600.csv
	MusalaPeak_64215.csv
	Razgrad_15549.csv
	Sandanski_15712.csv
	Sliven_15640.csv
	Sofia_15614.csv
	Varna_15552.csv
	Vidin_15502.csv

Croatia, 1991-2020 Climatological Normals

The WMO Member provided data for two (2) stations in individual Excel files. NCEI converted the Excel files to Comma Separated Values (CSV) files to aid in quality control, mapping, and comparison to Normals from other countries.

The original Excel files are provided along with the CSV files. Additional information from the WMO Member is provided below the table.

Excel Files	CSV Files
SplitMarjan_14445.xls	SplitMarjan_14445.csv
ZagrebMaksimir_14240.xls	ZagrebMaksimir_14240.csv

Additional Explanatory Information from WMO Member

Please find enclosed the updated and final version of climate normal for main meteorological stations Split-Marjan and Zagreb-Maksimir for the period 1991-2020. In this version parameter code 46 refers to the number of days with rain showers instead of the number of days with rain what we delivered in previous version. It is the reason that we send the climate normal for Split-Marjan again.

Cyprus, 1991-2020 Climatological Normals

The WMO Member provided data for three (3) stations in a single Excel file with multiple spreadsheets. NCEI converted the Excel file spreadsheets to Comma Separated Values (CSV) files to aid in quality control, mapping, and comparison to Normals from other countries.

Users are asked to note:

1) Monthly and annual Normals of Total Number of Sunshine (TSUN) hours (Parameter 8) in the original files appeared to be computed as the average number of sunshine hours per day for each month rather than the average of the total number of sunshine hours per month. NCEI recomputed the TSUN monthly values by multiplying the value by the number of days in each month (28 days for February) and have included these in the CSV files rather than the originally provided values.

2) NCEI also recomputed the annual Normals for Parameter 2 (DP01) as the original appeared to be an average of the monthlies rather than a sum. These recomputed values are included in the CSV files.

The original Excel file is provided along with the CSV files.

Excel Files	CSV Files
Cyprus_WMO_Normals_9120.xls	AthalassaRadiosonde_17607.csv LarnakaAirport_17609.csv PafosAirport_17600.csv

Czech Republic, 1991-2020 Climatological Normals

The WMO Member provided data for 28 stations in individual CSV files.

Excel Files	CSV Files
N/A	BrnoTurany_11723.csv
	Cervena_11766.csv
	CeskeBudejoviceRoznov_11546.csv
	Cheb_11406.csv
	Churanov_11457.csv
	Doksany_11509.csv
	Dukovany_11693.csv
	Holesov_11774.csv
	KarlovyVary_11414.csv
	Kocelovice_11487.csv
	KostelniMyslova_11636.csv
	Kucharovice_11698.csv
	Liberec_11603.csv
	Luka_11710.csv
	LysaHora_11787.csv
	Milesovka_11464.csv
	NamestNadOslavou_11692.csv
	OstravaMosnov_11782.csv
	Pardubice_11652.csv
	PrahaKbely_11567.csv
	PrahaLibus_11520.csv
	PrahaRuzyne_11518.csv
	Pribyslav_11659.csv
	Primda_11423.csv
	Svratouch_11683.csv
	Tusimice_11438.csv
	UstiNadLabem_11502.csv
	UstiNadOrlici_11679.csv

Denmark, 1991-2020 Climatological Normals

The WMO Member provided data for 22 stations in individual CSV files.

Users are asked to note that the provided files contained unnecessary empty lines and carriage returns as well as an absence of all necessary commas in the csv files. NCEI removed the unnecessary empty lines and carriage returns and added commas where absent.

Excel Files	CSV Files
N/A	ABED_06141.csv
	BILLUND_LUFTHAVN_06104.csv
	BLAVANDSHUK_FYR_06081.csv
	BORRIS_06082.csv
	HAMMER_ODDE_FYR_06193.csv
	H_C_ANDERSEN_AIRPORT_06120.csv
	KEGAES_FYR_06119.csv
	LANDBOHYJSKOLEN_06186.csv
	NORDBY_06088.csv
	ODUM_06072.csv
	ROSKILDE_LUFTHAVN_06170.csv
	RYMY_JUVRE_06096.csv
	RYSAES_FYR_06159.csv
	SILSTRUP_06019.csv
	SJAELSMARK_06188.csv
	SKAGEN_FYR_06041.csv
	STORE_JYNDEVAD_06116.csv
	THYBORYN_06052.csv
	TRANEBJERG_OEST_06132.csv
	TYLSTRUP_06031.csv
	TYSTOFTE_06136.csv
	VESTERVIG_06051.csv

Estonia, 1991-2020 Climatological Normals

The WMO Member provided data for 20 stations in a single Excel file with multiple spreadsheets. NCEI converted the Excel file spreadsheets to Comma Separated Values (CSV) files to aid in quality control, mapping, and comparison to Normals from other countries.

The original Excel file is provided along with the CSV files.

Excel Files	CSV Files
Estonia_WMO_Normals_9120.xlsx	Jogeva_26144.csv
	Johvi_26046.csv
	Kihnu_26226.csv
	Kunda_26045.csv
	Kuusiku_26134.csv
	Laane-Nigula_26124.csv
	Pakri_26029.csv
	Parnu_26231.csv
	Ristna_26115.csv
	Sorve_26218.csv
	Tallinn-Harku_26038.csv
	Tartu-Toravere_26242.csv
	Tiirikoja_26145.csv
	Turi_26135.csv
	Vaike-Maarja_26141.csv
	Valga_26247.csv
	Viljandi_26233.csv
	Vilsandi_26214.csv
	Virtsu_26128.csv
	Voru_26249.csv

Denmark Faroe Islands, 1991-2020 Climatological Normals

The WMO Member provided data for one (1) station in a CSV file.

Excel Files	CSV Files
N/A	Torshavn_06011.csv

Finland 1991-2020 Climatological Normals

The WMO Member provided data for 195 stations in individual CSV files.

Users are asked to note:

1) NCEI renamed the station filenames containing diacritic marks (to remove them) because the diacritic marks cause filename corruption in some systems. The letters with diacritic marks remain in the station names within the respective CSV files.

2) Information regarding stations Jamsa_Halli_Lentoasema_02945.csv and Jamsa_Halli_Lentoasemantie_02946.csv is as follows. Although files for both stations were initially provided by the WMO Member, the second file had no data and was removed by NCEI. The WMO Member provided additional information regarding these stations. "Essentially they can be treated as one station. The original airport station and a station right outside the airport premises 700 m away. They have different station ID's since the airport has been operated by other institutes at some point and have measured slightly different parameters at different times. With 1991-2020 we've saved the statistics on the ID that currently measures that particular parameter. Since the original airport station 02945 has data in the CLINO files, you can essentially ignore the other station (02946)."

Excel Files	CSV Files
N/A	Aanekoski_Kalaniemi_01541.csv
	Ahtari_Inha_02924.csv
	Alajarvi_Moksy_02787.csv
	Alavus_Sulkavankyla_01305.csv
	AsikkalaPulkkilanharju_02727.csv
	EnonkoskiSimanala_01446.csv
	Enontekio_Kaaresuvanto_01968.csv
	Enontekio_Kilpisjarvi_Kylakeskus_02801.csv
	Enontekio_Kilpisjarvi_Saana_02701.csv
	Haapavesi_Mustikkamaki_02797.csv
	Hailuoto_Keskikyla_02874.csv
	HailuotoMarjaniemi_02873.csv
	HalsuaPurola_02725.csv
	Hameenlinna_Lammi_Pappila_02767.csv
	Hameenlinna_Pirttikoski_01143.csv
	Hammarland_Market_02993.csv
	Hanko_Russaro_02982.csv
	HankoTulliniemi_02746.csv
	Hanko_Tvarminne_02750.csv
	HattulaLepaa_02704.csv
	Hausjarvi_Lavinto.csv
	Heinavesi_Palokki_01589.csv
	HeinolaAsemantaus_02768.csv
	HelsinkiHarmaja_02795.csv
	HelsinkiKaisaniemi_02978.csv

	HelsinkiKumpula_02998.csv
	HuittinenSallila_01075.csv
	Hyvinkaa_Hyvinkaankyla_02829.csv
	IkaalinenVehuvarpee_01277.csv
	IlomantsiNaarva_05367.csv
	InariIvaloLentoasema_02807.csv
	Inari_Kirkonkyla_02046.csv
	InariNellim_02835.csv
	Inari_RajaJooseppi_Kontiojarvi_02008.csv
	Inari_Saariselka_Matkailukeskus_02722.csv
	Inari_Vayla_02827.csv
	Inkoo_Bagaskar_02984.csv
	Isojoki_Karjenkoski_01258.csv
	Jamsa_Halli_Lentoasema_02945.csv
	JoensuuHuhtilampi_01460.csv
	Joensuu_Pyhaselka_01610.csv
	JokioinenIlmala_02963.csv
	JomalaJomalaby_02741.csv
	JomalaMaarianhaminaLentoasema_02970.csv
	Joutsa_Parnamaki_01390.csv
	JoutsaSavenaho_02771.csv
	Juuka_Niemela_02791.csv
	Juupajoki_Hyytiala_02770.csv
	JuvaPartala_02736.csv
	Jyvaskyla_Lentoasema_02935.csv
	Jyvaskyla_Muuratjarvi_01352.csv
	Kaarina_Yltoinen_02828.csv
	KajaaniLentoasema_02897.csv
	KajaaniPaltaniemi_01742.csv
	Kalajoki_Mehtakyla_01685.csv
	Kalajoki_Pitkasenkyla_01683.csv
	Kangasniemi_Kirkonkyla_01385.csv
	Kankaanpaa_Niinisalo_Lentokentta_02753.csv
	Kankaanpaa_Niinisalo_Puolustusvoim_02942.csv
	Karsamaki_Venetpalo.csv
	KarviaAlkkia_02708.csv
	KauhajokiKaupunki.csv
	KauhajokiKujaKokko_02769.csv
	Kauhava_Lentokentta_02913.csv
	KaustinenTastula_01665.csv
	KemiAjos_02862.csv
	KemiKemiTornioLentoasema_02864.csv
	Kemionsaari_Kemio_02906.csv
	Kemionsaari_Vano_02743.csv
	Kirkkonummi_Makiluoto_02794.csv
	Kittila_Alakyla_01918.csv
	Kittila_Pokka_02717.csv
	KiuruvesiKorpijoki_01712.csv

	Kokemaki_Rausenkulma_02762.csv
	Kokemaki_Tulkkila_02937.csv
	KokkolaSantahaka_02852.csv
	KokkolaTankar_02721.csv
	Korsnas_Bredskaret_02780.csv
	KotkaHaapasaari_02967.csv
	KotkaRankki_02976.csv
	KouvolaAnjala_02830.csv
	KouvolaUttiLentoasema_02966.csv
	KouvolaUttiLentoportintie_02956.csv
	Koylio_Yttila.csv
	KruunupyyKokkolaPietarsaariLentoasema_02903.csv
	KuhmoApaja_01771.csv
	Kumlinge_Kirkonkyla_02790.csv
	KuopioKarttula_01579.csv
	KuopioMaaninka_02788.csv
	Kurikka_Hirvijarvi_01285.csv
	KustaviIsokari_02964.csv
	Kuusamo_Kiutakongas_02811.csv
	KuusamoLentoasema_02869.csv
	KuusamoToranginaho.csv
	LahtiLaune_02965.csv
	LaitilaHaukka_01050.csv
	LappeenrantaLentoasema_02958.csv
	LappeenrantaLepola_02959.csv
	LemlandNyhamn_02980.csv
	LieksaKoli_01616.csv
	LieksaLampela_02796.csv
	LietoTammentaka.csv
	LiperiJoensuuLentoasema_02929.csv
	Lohja_Leppakorpi_00963.csv
	LohjaPorla_02706.csv
	LoviisaOrrengrund_02992.csv
	Luhanka_Tammijarvi_01348.csv
	MerikarviaTuorila_01257.csv
	MikkeliLentoasema_02947.csv
	Mikkeli_Pitkahiekka_01410.csv
	MultiaKarhila_02927.csv
	Multia_Pirttipera_05364.csv
	Muonio_Kirkonkyla_02823.csv
	MustasaariRiimala_01474.csv
	MustasaariValassaaret_02910.csv
	Narpio_Alamarkku_01468.csv
	Nokia_Tottijarvi_01116.csv
	Nurmes_Mujejarvi_01763.csv
	NurmesValtimo_02798.csv
	Nurmijarvi_Roykka_02983.csv
	OuluLentoasema_02875.csv

	Oulu_Oulunsalo_Pellonpaa_02851.csv
	OutokumpuViuruniemi_01590.csv
	ParainenFagerholm_02950.csv
	Parainen_Uto_02981.csv
	ParikkalaKoitsanlahti_02734.csv
	Pello_Kirkonkyla_02844.csv
	Pello_Konttajarvi.csv
	Pielavesi_Venetmaki_01569.csv
	PirkkalaTamperePirkkalaLentoasema_02944.csv
	PoriLentoasema_02952.csv
	PorvooHarabacka_02759.csv
	PosioRaistakka_01881.csv
	Poytya_Ylane_01093.csv
	Pudasjarvi_Jaurakkajarvi_01812.csv
	Pudasjarvi_Lentokentta_02866.csv
	PuolankaKotila_01830.csv
	RaaheLapaluotoSatama_02872.csv
	Raakkyla_Kirkonkyla_01450.csv
	Raasepori_Jussaro_02757.csv
	Ranua_Lentokentta_02881.csv
	Rauma_Kylmapihlaja_02761.csv
	Rautavaara_Yla-Luosta_02789.csv
	RovaniemiApukka_02813.csv
	RovaniemiLentoasema_02845.csv
	RuokolahtiKotaniemi_01248.csv
	Salla_Kelloselka_01956.csv
	Salla_Kirkonkyla_02849.csv
	SallaNaruska_02745.csv
	Salla_Varriotunturi_02819.csv
	Salo_Karkka_02756.csv
	SavonlinnaLaukansaari_01423.csv
	SavonlinnaPunkaharjuLaukansaari_02778.csv
	Savukoski_Kirkonkyla_02815.csv
	SavukoskiRuuvaoja.csv
	Seinajoki_Pelmaa_02833.csv
	SiikajokiRuukki_02803.csv
	Siikalatva_Kestila_01717.csv
	Siilinjarvi_Kuopio_Lentoasema_02917.csv
	Sodankyla_Lokka_02719.csv
	Sodankyla_Tahtela_02836.csv
	Sodankyla_Vuotso_02816.csv
	SotkamoKuolaniemi_02739.csv
	SotkamoSaviaho.csv
	SulkavaHalttula_01425.csv
	Suomussalmi_Pesio_02889.csv
	Sysma_Joutsjarvi_01342.csv
	Taivalkoski_Kirkonkyla_02804.csv
	Tampere_Harmala_02763.csv

	Teuva_Kauppilankyla_01262.csv
	Tohmajarvi_Kemie_02832.csv
	ToholampiLaitala_02737.csv
	ToholampiOravala_01679.csv
	TornioTorppi_02880.csv
	TurkuArtukainen_02773.csv
	TurkuLentoasema_02972.csv
	Tyrnava_Temmes.csv
	Utajarvi_Sarkijarvi_01809.csv
	UtsjokiKevo_02805.csv
	Utsjoki_Leppala.csv
	UtsjokiNuorgam_02825.csv
	Uusikaupunki_Itatulli_01049.csv
	VaalaPelso_02714.csv
	VaasaLentoasema_02911.csv
	VantaaHelsinkiVantaanLentoasema_02974.csv
	VarkausKosulanniemi_02850.csv
	Vesanto_Kirkonkyla_02710.csv
	Vierema_Kaarakkala_02834.csv
	VihtiHiiskula_01135.csv
	VihtiMaasoja_02758.csv
	ViitasaariHaapaniemi_02915.csv
	Viitasaari_Karna_01545.csv
	VirolahtiKoivuniemi_02831.csv
	Virrat_Aijanneva_02735.csv
	Ylitornio_Meltosjarvi_02812.csv

France, 1991-2020 Climatological Normals

The WMO Member provided data for 149 stations in individual CSV files.

Excel Files	CSV Files
N/A	ABBEVILLE_07005.csv
	AEROPORT_METZ_NANCY_LORRAINE_07093.csv
	Agen_La_Garenne_07524.csv
	AJACCIO_07761.csv
	ALBI_07632.csv
	ALENCON_07139.csv
	ALISTRO_07775.csv
	AMBERIEU_07482.csv
	AUCH_07622.csv
	AURILLAC_07549.csv
	AVIGNON_07563.csv
	AVORD_07257.csv
	BALE_MULHOUSE_07299.csv
	BASTIA_07790.csv
	BEAUCOUZE_07230.csv
	BEAUVAIS_TILLE_07055.csv
	BELLE_ILE_LE_TALUT_07207.csv
	BERGERAC_07530.csv
	BESANCON_07288.csv
	BEZIERS_VIAS_07638.csv
	BIARRITZ_PAYS_BASQUE_07602.csv
	BISCARROSSE_07503.csv
	BLOIS_07245.csv
	BORDEAUX_MERIGNAC_07510.csv
	BOULOGNE_SEM_07002.csv
	BOURGES_07255.csv
	BOURG_ST_MAURICE_07497.csv
	BREST_GUIPAVAS_07110.csv
	BRIGNOGAN_07107.csv
	BRIVE_07438.csv
	CAEN_CARPIQUET_07027.csv
	CALVI_07754.csv
	CANNES_07684.csv
	CAP_BEAR_07749.csv
	CAP_CEPET_07661.csv
	CAP_CORSE_07785.csv
	CAP_DE_LA_HEVE_07028.csv
	CAP_FERRET_07500.csv
	CAP_PERTUSATO_07770.csv
	CARCASSONNE_07635.csv
	CARPENTRAS_07586.csv
	CAZAUX_07502.csv
	CHAMBERY_AIX_07491.csv

	CHARLEVILLE_MEZ_07075.csv
	CHARTRES_07143.csv
	CHASSIRON_07314.csv
	CHATEAUDUN_07140.csv
	CHATEAUROUX__DEOLS_07354.csv
	CLERMONT_FD_07460.csv
	COGNAC_07412.csv
	COLMAR_MEYENHEIM_07197.csv
	DAX_07603.csv
	DIEPPE_07040.csv
	DIJON_LONGVIC_07280.csv
	DINARD_07125.csv
	DUNKERQUE_07010.csv
	EMBRUN_07591.csv
	EVREUX_HUEST_07038.csv
	FIGARI_07780.csv
	GONNEVILLE_07024.csv
	GOURDON_07535.csv
	GRENOBLE_ST_GEOIRS_07486.csv
	HYERES_07667.csv
	ILE_DE_GROIX_07203.csv
	ILE_ROUSSE_07753.csv
	ISTRES_07647.csv
	LANAS_SYN_07570.csv
	LANDIVISIAU_07106.csv
	LANGRES_07283.csv
	LANNION_AERO_07118.csv
	LANVEOC_07109.csv
	LA_ROCHELLE_ILE_DE_RE_07316.csv
	LA_ROCHE_SUR_YON_07306.csv
	LAVAL_ETRONNIER_07134.csv
	LE_BOURGET_07150.csv
	LE_LUC_07675.csv
	LE_MANS_07235.csv
	LE_PUY_LOUDES_07471.csv
	LE_TOUQUET_07003.csv
	LEUCATE_07666.csv
	L_ILE_D_YEU_07300.csv
	LILLE_LESQUIN_07015.csv
	LIMOGES_BELLEGARDE_07434.csv
	LORIENT_LANN_BIHOUE_07205.csv
	LUXEUIL_07292.csv
	LYON_BRON_07480.csv
	LYON_ST_EXUPERY_07481.csv
	MACON_07385.csv
	MARIGNANE_07650.csv
	MEAULTE_07059.csv
	MELUN_07153.csv

	MEYTHET_07490.csv
	MILLAU_07558.csv
	MONT_AIGOUAL_07560.csv
	MONTAUBAN_07540.csv
	MONT_DE_MARSAN_07607.csv
	MONTELIMAR_07577.csv
	MONTPELLIER_AEROPORT_07643.csv
	MURET_LHERM_07628.csv
	NANCY_ESSEY_07180.csv
	NANCY_OCHEY_07181.csv
	NANTES_BOUGUENAIS_07222.csv
	NEVERS_MARZY_07260.csv
	NICE_07690.csv
	NIMES_COURBESSAC_07645.csv
	NIMES_GARONS_07646.csv
	NIORT_07330.csv
	OCTEVILLE_07046.csv
	ORANGE_07579.csv
	ORLEANS_07249.csv
	ORLY_07149.csv
	OUESSANT_STIFF_07100.csv
	PARIS_MONTSOURIS_07156.csv
	PAU_UZEIN_07610.csv
	PERPIGNAN_07747.csv
	PLOUMANACH_07117.csv
	POITIERS_BIARD_07335.csv
	PONTOISE_AERO_07053.csv
	PTE_DE_LA_HAGUE_07020.csv
	QUIMPER_07201.csv
	REIMS_PRUNAY_07072.csv
	RENNES_ST_JACQUES_07130.csv
	RODEZ_AVEYRON_07552.csv
	ROISSY_07157.csv
	ROMORANTIN_07247.csv
	ROUEN_BOOS_07037.csv
	SALON_DE_PROVENCE_07648.csv
	SETE_07641.csv
	SOCOA_07600.csv
	SOLENZARA_07765.csv
	ST_AUBAN_07588.csv
	ST_BRIEUC_07120.csv
	ST_DIZIER_07169.csv
	ST_ETIENNE_BOUTHEON_07475.csv
	ST_GATIEN_DES_B_07031.csv
	ST_GIRONS_07627.csv
	ST_NAZAIRE_MONTOIR_07217.csv
	ST_QUENTIN_07061.csv
	STRASBOURG_ENTZHEIM_07190.csv

	ST_YAN_07379.csv TARBES_LOURDES_PYRENEES_07621.csv TAVAUX_SA_07386.csv TOULOUSE_BLAGNAC_07630.csv TOURS_07240.csv TOUSSUS_LE_NOBLE_07146.csv TRAPPES_07145.csv TROYES_BARBEREY_07168.csv VICHY_CHARMEIL_07374.csv VILLACOUBLAY_07147.csv

Georgia, 1991-2020 Climatological Normals

The WMO Member provided data for 21 stations in individual CSV files.

Users are asked to note the following.

1) NCEI recomputed Annual Normals for Mean Maximum and Minimum Temperature for Ambrolauri and Poti to correct values that were inconsistent with the monthly Normals.

Excel Files	CSV Files
N/A	Akhalkhalakhi_37602.csv Akhaltsikhe_37514.csv Ambrolauri_37308.csv Bolnisi_37621.csv Borjomi_37515.csv Dedoplistskaro_37651.csv Gori_37531.csv Khashuri_37417.csv MtaSabueti_37665.csv Pasanauri_37432.csv Poti_37379.csv Qobuleti_37481.csv Qutaisi_37395.csv Sachkhere_37403.csv Sagarejo_37556.csv Tbilisi_37445.csv Telavi_37553.csv Tianeti_37439.csv Tsalka_37537.csv Zestaphoni_37404.csv Zugdidi_37279.csv

Germany, 1991-2020 Climatological Normals

The WMO Member provided data for 178 stations in individual CSV files.

Excel Files	CSV Files
N/A	Aachen_10501.csv
	Andernach_10520.csv
	Angermuende_10291.csv
	Arkona_10091.csv
	Artern_10460.csv
	Augsburg_10852.csv
	Bamberg_10675.csv
	Barth_10180.csv
	Baruth_10376.csv
	Bendorf_10515.csv
	Berlin-Alexanderplatz_10389.csv
	Berlin-Brandenburg_10385.csv
	Berlin-Dahlem-FU_10381.csv
	Berlin-Tegel_10382.csv
	Berlin-Tempelhof_10384.csv
	Berus_10704.csv
	Boizenburg_10249.csv
	Boltenhagen_10161.csv
	Braunlage_10452.csv
	Braunschweig_10348.csv
	Bremen_10224.csv
	Bremerhaven_10129.csv
	Bremervoerde_10139.csv
	Brocken_10453.csv
	Bueckeburg_10335.csv
	Carlsfeld_10574.csv
	Celle_10343.csv
	Chemnitz_10577.csv
	Chieming_10982.csv
	Cottbus_10496.csv
	Cuxhaven_10131.csv
	Deuselbach_10615.csv
	Diepholz_10321.csv
	Doberlug-Kirchhain_10490.csv
	Doernick_10150.csv
	Dresden-Klotzsche_10488.csv
	Duesseldorf_10400.csv
	Elpersbuettel_10130.csv
	Emden_10200.csv
	Erfurt-Weimar_10554.csv
	Essen-Bredeney_10410.csv
	Fehmarn_10055.csv
	FeldbergMecklenburg_10282.csv

	FeldbergSchwarzwald_10908.csv
	Fichtelberg_10578.csv
	FrankfurtMain_10637.csv
	Freiburg_10803.csv
	Freudenstadt_10815.csv
	Friesoythe-Altenoythe_10210.csv
	Fritzlar-Flugplatz_10439.csv
	Fuerstenzell_10895.csv
	Gardelegen_10359.csv
	Garmisch-Partenkirchen_10963.csv
	Geisenheim_10628.csv
	Gelbelsee_10777.csv
	Genthin_10365.csv
	Gera-Leumnitz_10567.csv
	GiessenWettenberg_10532.csv
	Gluecksburg-Meierwik_10033.csv
	Goerlitz_10499.csv
	Goettingen_10444.csv
	Goldberg_10168.csv
	Greifswald_10184.csv
	Greifswalder-Oie_10097.csv
	Grosser-Arber_10791.csv
	Gruenow_10289.csv
	Hahn_10616.csv
	Halle-Kroellwitz_10466.csv
	Hamburg-Fuhlsbuettel_10147.csv
	Hannover_10338.csv
	Harburg_10850.csv
	Harzgerode_10458.csv
	Helgoland_10015.csv
	Hersfeld-Bad_10542.csv
	Hof_10685.csv
	Hohenpeissenberg_10962.csv
	Hohn_10038.csv
	Itzehoe_10142.csv
	Kahler-Asten_10427.csv
	Kaisersbach-Cronhuette_10747.csv
	Karlsruhe_10727.csv
	Kassel_10438.csv
	Kempten_10946.csv
	Kiel-Holtenau_10046.csv
	Kissingen-Bad_10658.csv
	Kleiner-FeldbergTaunus_10635.csv
	Klippeneck_10818.csv
	Koeln-Bonn_10513.csv
	Koenigswinter-Heiderhof_10519.csv
	Konstanz_10929.csv
	Kyritz_10267.csv

	Lahr_10805.csv
	Lautertal-Oberlauter_10671.csv
	Leck_10022.csv
	Leinefelde_10449.csv
	LeipzigHalle_10469.csv
	Leipzig-Holzhausen_10471.csv
	Lichtenhain-Mittelndorf_10591.csv
	Lindenberg_10393.csv
	Lingen_10305.csv
	Lippspringe-Bad_10430.csv
	List-auf-Sylt_10020.csv
	Luebeck-Blankensee_10156.csv
	Luechow_10253.csv
	Luedenscheid_10418.csv
	Luegde-Paenbruch_10433.csv
	Magdeburg_10361.csv
	Mannheim_10729.csv
	Manschnow_10396.csv
	Marienberg_10579.csv
	Marienberg-Bad_10526.csv
	Marnitz_10264.csv
	Meiningen_10548.csv
	Michelstadt-Vielbrunn_10648.csv
	Muehlacker_10736.csv
	Muehldorf_10875.csv
	Muenchen-Flughafen_10870.csv
	Muenchen-Stadt_10865.csv
	MuensterOsnabrueck_10315.csv
	Neuhaus-am-Rennweg_10557.csv
	Neuruppin_10270.csv
	Norderney_10113.csv
	Nuerburg-Barweiler_10506.csv
	Nuernberg_10763.csv
	Oberstdorf_10948.csv
	Oehringen_10742.csv
	Offenbach-Wetterpark_10641.csv
	Oldenburg_10215.csv
	Oschatz_10480.csv
	Osnabrueck_10317.csv
	Osterfeld_10565.csv
	Pelzerhaken_10152.csv
	Plauen_10569.csv
	Potsdam_10379.csv
	Putbus_10093.csv
	Quickborn_10146.csv
	Regensburg_10776.csv
	Rostock-Warnemuende_10170.csv
	Saarbruecken-Ensheim_10708.csv

	Salzuflen-Bad_10325.csv
	Sankt-Peter-Ording_10028.csv
	Schleiz_10564.csv
	Schleswig_10035.csv
	Schleswig-Jagel_10037.csv
	Schmuecke_10552.csv
	Schoenhagen-Ostseebad_10042.csv
	Schwerin_10162.csv
	Seehausen_10261.csv
	Soltau_10235.csv
	Sonneberg-Neufang_10558.csv
	Stoetten_10836.csv
	Straubing_10788.csv
	Stuttgart-Echterdingen_10738.csv
	Stuttgart-Schnarrenberg_10739.csv
	Tholey_10706.csv
	Toelz-Bad_10971.csv
	Trier-Petrisberg_10609.csv
	Ueckermuende_10193.csv
	Ulm_10838.csv
	Ummendorf_10356.csv
	Warburg_10435.csv
	Waren-Mueritz_10268.csv
	Wasserkuppe_10544.csv
	Weiden_10688.csv
	Weihenstephan-Duernast_10863.csv
	Weimar_10555.csv
	Weinbiet_10724.csv
	Weissenburg-Emetzheim_10761.csv
	Wendelstein_10980.csv
	Werl_10424.csv
	Wernigerode_10454.csv
	Wiesenburg_10368.csv
	Wittenberg_10474.csv
	Wuerzburg_10655.csv
	Wunstorf_10334.csv
	Zinnwald-Georgenfeld_10582.csv
	Zugspitze_10961.csv
	Zwiesel_10796.csv

Denmark Greenland, 1991-2020 Climatological Normals

The WMO Member provided data for 36 stations in individual CSV files.

Excel Files	CSV Files
N/A	Aasiaat_04220.csv
	Angissoq_04285.csv
	Aputiteeq_04351.csv
	Daneborg_04330.csv
	Danmarkshavn_04320.csv
	Ikerasassuaq_04390.csv
	Ikermit_04373.csv
	Ikermiuarssuk_04382.csv
	Ittoqqortoormiit_04339.csv
	KapMorrisJesup_04301.csv
	Kitsissorsuit_04208.csv
	Kitsissut_04203.csv
	KitsissutAttu_04228.csv
	MittarfikAasiaat_04224.csv
	MittarfikIlulissat_04221.csv
	MittarfikKangerlussuaq_04231.csv
	MittarfikManiitsoq_04241.csv
	MittarfikNarsarsuaq_04270.csv
	MittarfikNuuk_04254.csv
	MittarfikPaamiut_04260.csv
	MittarfikPituffik_04202.csv
	MittarfikQaanaaq_04205.csv
	MittarfikSisimiut_04234.csv
	MittarfikUpernavik_04211.csv
	MittarfikUummannaqQaarsut_04213.csv
	NarsaqHeliport_04280.csv
	Nunarssuit_04266.csv
	Nuuk_04250.csv
	Nuussuaq_04214.csv
	Qaqortoq_04272.csv
	QaqortoqHeliport_04273.csv
	Sioralik_04242.csv
	StationNord_04312.csv
	SummitTower_04419.csv
	Tasiilaq_04360.csv
	Ukiiviit_04253.csv

Hungary, 1991-2020 Climatological Normals

The WMO Member provided data for 32 stations in individual CSV files.

Excel Files	CSV Files
N/A	Baja_12960.csv
	Bekescsaba_12992.csv
	BudapestBelterulet_12840.csv
	BudapestPestszentlorinc_12843.csv
	Debrecen_12882.csv
	Eger_12870.csv
	GyorLikocs_12822.csv
	Josvafo_12766.csv
	Kaposvar_12930.csv
	Kecskemet_12970.csv
	Kekesteto_12851.csv
	Keszthely_12920.csv
	MiskolcDiosgyor_12772.csv
	Mosonmagyarovar_12812.csv
	Nagykanizsa_12925.csv
	NyiregyhazaNapkor_12892.csv
	Paks_12950.csv
	Papa_12824.csv
	PecsPogany_12942.csv
	Per_12821.csv
	Poroszlo_12866.csv
	Siofok_12935.csv
	Szecseny_12756.csv
	SzegedKulterulet_12982.csv
	SzentgotthardFarkasfa_12910.csv
	Szentkiralyszabadja_12830.csv
	Szolnok_12860.csv
	Szombathely_12812.csv
	Tat_12847.csv
	Tata_12836.csv
	Zahony_12786.csv
	ZalaegerszegNagykutas_12915.csv

Iceland, 1991-2020 Climatological Normals

The WMO Member provided data for nine (9) stations in individual CSV files.

Additional explanatory metadata information from the WMO Member is included below the table.

Excel Files	CSV Files
N/A	Akureyri_04063.csv Dalatangi_04097.csv Grimsstadir_04073.csv Hjardarland_04042.csv Keflavik_04018.csv Reykjavik_04030.csv Saudanesviti_04059.csv Stykkisholmur_04013.csv Vatnsskardsholar_04058.csv

Additional Explanatory information from the WMO Member

WMO number: 04063
Country name: ICELAND
Station name: AKUREYRI

Latitude: 65 41 08 N
Longitude: 18 06 01 W
Station Height: 23 m

Type of station: Manned synoptic station

Number of observations per day: 8, at 3,6,9,12,15,18,21,24

The method of calculation for daily means of temperature, pressure and vapour pressure:

Daily mean temperature (°C). Calculated as average of 8 observations measured at 3,6,9,12,15,18,21,24.
Maximum temperature (°C). From 18 the previous day to 18 today.
Minimum temperature (°C). From 18 the previous day to 18 today.
Precipitation total (mm), amount morning previous day at 9am until morning today
Mean sea level pressure hPa, mean of 8 observations measured at 3,6,9,12,15,18,21,24.
Mean Vapor Pressure hPa, calculated as average of 8 observations measured at 3,6,9,12,15,18,21,24.
Snow depth (cm), measured at 9am
Mean cloud cover, oktas, mean of 8 observations

****
WMO number: 04097

Country name: ICELAND
Station name: DALATANGI

Latitude: 65 16 05 N
Longitude: 13 34 33 W
Station Height: 9 m

Type of station: Manned synoptic station

Number of observations per day: 8, at 3,6,9,12,15,18,21,24

The method of calculation for daily means of temperature, pressure and vapour pressure:

 Daily mean temperature (°C). Calculated as average of 8 observations measured at
3,6,9,12,15,18,21,24.
 Maximum temperature (°C). From 18 the previous day to 18 today.
 Minimum temperature (°C). From 18 the previous day to 18 today.
 Precipitation total (mm), amount morning previous day at 9am until morning today
 Mean sea level pressure hPa, mean of 8 observations measured at 3,6,9,12,15,18,21,24.
 Mean Vapor Pressure hPa, calculated as average of 8 observations measured at 3,6,9,12,15,18,21,24.
 Snow depth (cm), measured at 9am
 Mean cloud cover, oktas, mean of 8 observations

****
WMO number: 04073
Country name: ICELAND
Station name: GRIMSSTADIR

Latitude: 65 38 32 N
Longitude: 16 07 15 W
Station Height: 384 m

Type of station: Manned synoptic station

Number of observations per day: 5, at 9,12,15,18,21

The method of calculation for daily means of temperature, pressure and vapour pressure:

 Daily mean temperature (°C). Calculated as average of the observations measured at 9 and 21 in
addition to a separate fixed constant
 for each month (to account for the seasonal variation of the diurnal range).
 Maximum temperature (°C). From 18 the previous day to 18 today.
 Minimum temperature (°C). From 18 the previous day to 18 today.
 Precipitation total (mm), amount morning previous day at 9am until morning today

Mean sea level pressure hPa, mean of 5 observations measured at 9,12,15,18,21.
Snow depth (cm), measured at 9am
Mean cloud cover, oktas, mean of 5 observations

****
WMO number: 04042
Country name: ICELAND
Station name: HJARDARLAND

Latitude: 64 15 02 N
Longitude: 20 19 51 W
Station Height: 89 m

Type of station: Manned synoptic station

Number of observations per day: 5, at 6,9,15,18,21

The method of calculation for daily means of temperature:

Daily mean temperature (°C). Calculated as average of the observations measured at 9 and 21 in addition to a separate fixed constant
for each month (to account for the seasonal variation of the diurnal range).
Maximum temperature (°C). From 18 the previous day to 18 today.
Minimum temperature (°C). From 18 the previous day to 18 today.
Precipitation total (mm), amount morning previous day at 9am until morning today
Snow depth (cm), measured at 9am
Mean cloud cover, oktas, mean of 5 observations

****
WMO number: 4018
Country name: ICELAND
Station name: KEFLAVIKURFLUGVOLLUR

Latitude: 63 58 29 N
Longitude: 22 35 15 W
Station Height: 47 m

Type of station: Manned synoptic station

Number of observations per day: 8, at 3,6,9,12,15,18,21,24

The method of calculation for daily means of temperature, pressure and vapour pressure:

Daily mean temperature (°C). Calculated as average of 8 observations measured at

3,6,9,12,15,18,21,24.
 Maximum temperature (°C). From 18 the previous day to 18 today.
 Minimum temperature (°C). From 18 the previous day to 18 today.
 Precipitation total (mm), amount morning previous day at 9am until morning today
 Mean sea level pressure hPa, mean of 8 observations measured at 3,6,9,12,15,18,21,24.
 Mean Vapor Pressure hPa, calculated as average of 8 observations measured at 3,6,9,12,15,18,21,24.
 Snow depth (cm), measured at 9am
 Mean cloud cover, oktas, mean of 8 observations

Small site move in March 2007.

****
WMO number: 04030
Country name: ICELAND
Station name: REYKJAVIK

Latitude: 64 07 39 N
Longitude: 21 54 10 W
Station Height: 52 m

Type of station: Manned synoptic station

Number of observations per day: 8, at 3,6,9,12,15,18,21,24

The method of calculation for daily means of temperature, pressure and vapour pressure:

 Daily mean temperature (°C). Calculated as average of 8 observations measured at
3,6,9,12,15,18,21,24.
 Maximum temperature (°C). From 18 the previous day to 18 today.
 Minimum temperature (°C). From 18 the previous day to 18 today.
 Precipitation total (mm), amount morning previous day at 9am until morning today
 Mean sea level pressure hPa, mean of 8 observations measured at 3,6,9,12,15,18,21,24.
 Mean Vapor Pressure hPa, calculated as average of 8 observations measured at 3,6,9,12,15,18,21,24.
 Snow depth (cm), measured at 9am
 Mean cloud cover, oktas, mean of 8 observations

****
WMO number: 04059
Country name: ICELAND
Station name: SAUDANESVITI

Latitude: 66 11 07 N
Longitude: 18 57 12 W

Station Height: 30 m

Type of station: Manned synoptic station

Number of observations per day: 7, at 6,9,12,15,18,21,24

The method of calculation for daily means of temperature:

Daily mean temperature (°C). Calculated as average of the observations measured at 9 and 21 in addition to a separate fixed constant
for each month (to account for the seasonal variation of the diurnal range).
Maximum temperature (°C). From 18 the previous day to 18 today.
Minimum temperature (°C). From 18 the previous day to 18 today.
Precipitation total (mm), amount morning previous day at 9am until morning today
Snow depth (cm), measured at 9am
Mean cloud cover, oktas, mean of 7 observations

****
WMO number: 04013
Country name: ICELAND
Station name: STYKKISHOLMUR

Latitude: 65 04 27 N
Longitude: 22 44 02 W
Station Height: 13 m

Type of station: Manned synoptic station

Number of observations per day: 8, at 3,6,9,12,15,18,21,24

The method of calculation for daily means of temperature, pressure and vapour pressure:

Daily mean temperature (°C). Calculated as average of 8 observations measured at
3,6,9,12,15,18,21,24.
Maximum temperature (°C). From 18 the previous day to 18 today.
Minimum temperature (°C). From 18 the previous day to 18 today.
Precipitation total (mm), amount morning previous day at 9am until morning today
Mean sea level pressure hPa, mean of 8 observations measured at 3,6,9,12,15,18,21,24.
Snow depth (cm), measured at 9am
Mean cloud cover, oktas, mean of 8 observations

Small site move in May 2007.

****

WMO number: 4058
Country name: ICELAND
Station name: VATNSSKARDSHOLAR

Latitude: 63 25 25 N
Longitude: 19 10 59 W
Station Height: 20 m

Type of station: Manned synoptic station

Number of observations per day: 7, at 6,9,12,15,18,21,24

The method of calculation for daily means of temperature, pressure and vapour pressure:

Daily mean temperature (°C). Calculated as average of the observations measured at 9 and 21 in addition to a separate fixed constant
for each month (to account for the seasonal variation of the diurnal range).
Maximum temperature (°C). From 18 the previous day to 18 today.
Minimum temperature (°C). From 18 the previous day to 18 today.
Precipitation total (mm), amount morning previous day at 9am until morning today
Snow depth (cm), measured at 9am
Mean cloud cover, oktas, mean of 7 observations

Ireland, 1991-2020 Climatological Normals

The WMO Member provided data for seven (7) stations in individual Excel files. NCEI converted the Excel files to Comma Separated Values (CSV) files to aid in quality control, mapping, and comparison to Normals from other countries.

The original Excel files are provided along with the CSV files.

Excel Files	CSV Files
Belmullet_03976.xlsx	Belmullet_03976.csv
CasementAerodrome_03967.xlsx	CasementAerodrome_03967.csv
CorkAirport_03955.xlsx	CorkAirport_03955.csv
DublinAirport_03969.xlsx	DublinAirport_03969.csv
MalinHead_03980.xlsx	MalinHead_03980.csv
ShannonAirport_03962.xlsx	ShannonAirport_03962.csv
ValentiaObservatory_03953.xlsx	ValentiaObservatory_03953.csv

Israel, 1991-2020 Climatological Normals

The WMO Member provided data for 79 stations in individual CSV files.

Excel Files	CSV Files
N/A	AFULA_NA.csv
	AKKO_NA.csv
	AlonAgalil_NA.csv
	AshdotYakov_NA.csv
	AVNEETAN_NA.csv
	AyeletAshahar_NA.csv
	Azorea_NA.csv
	Beari_NA.csv
	BeerotItzhak_NA.csv
	BEERSHEVA_40190.csv
	BeerTuvia_NA.csv
	BeitAshita_NA.csv
	BeitGovrin_NA.csv
	BEITJIMAL_NA.csv
	BESORFARM_NA.csv
	BETDAGAN_40179.csv
	BETZAYDA_NA.csv
	DAFNA_NA.csv
	DganiaA_NA.csv
	DOROT_NA.csv
	EinHarud_NA.csv
	EinKarmel_NA.csv
	ELAT_40199.csv
	ELON_NA.csv
	ENHAHORESH_NA.csv
	Evron_NA.csv
	Eyal_NA.csv
	Frod_NA.csv
	Gaash_NA.csv
	GALED_NA.csv
	GanShlomo_NA.csv
	GanShmuel_NA.csv
	GAT_NA.csv
	Gazit_NA.csv
	GivatOz_NA.csv
	Haifa_NA.csv
	Hamdia_NA.csv
	HARASHIM_NA.csv
	HAZERIM_NA.csv
	HAZEVA_NA.csv
	Hulda_NA.csv
	JERUSALEM_40183.csv
	KEFARBLUM_NA.csv

	KefarGiladi_NA.csv
	KefarMenahem_NA.csv
	KefarRoshHanikra_40150.csv
	KefarShmariao_NA.csv
	KEFARYEHOSHUA_NA.csv
	Kineret_NA.csv
	KriyatAnavim_NA.csv
	LAHAV_NA.csv
	Lavi_NA.csv
	MaayanBaruch_NA.csv
	Magen_NA.csv
	MEROMGOLAN_NA.csv
	MesohotItzhak_NA.csv
	MikveIsrael_NA.csv
	NahalOz_NA.csv
	NEGBA_NA.csv
	NeotMordechay_NA.csv
	NirGalim_NA.csv
	Orim_NA.csv
	QEVUZATYAVNE_NA.csv
	Regavim_NA.csv
	Revivim_NA.csv
	ROSHZURIM_NA.csv
	Ruhama_NA.csv
	Sarid_NA.csv
	SEDEBOQER_NA.csv
	SEDEELIYYAHU_NA.csv
	SEDOM_40193.csv
	TAVOR_NA.csv
	TELAVIVCOAST_NA.csv
	Yagur_NA.csv
	Yehiam_NA.csv
	Yirhon_NA.csv
	YOTVATA_NA.csv
	ZEFAT_40153.csv
	ZEMAH_NA.csv

Italy, 1991-2020 Climatological Normals

Data for 86 stations were provided by the WMO Member in individual Comma Separated Values (CSV) files. Eight of these stations were found to have erroneous Normals for most all elements and were removed from publication, leaving a total of 78 stations. The eight stations removed are as follows.

Aviano_16036.csv
Crotone_16350.csv
Ferrara_16138.csv
PalermoPuntaRaisi_16405.csv
PassoDeiGiovi_16119.csv
PianRosa_16052.csv
RomaUrbe_16235.csv
TorinoCaselle_16059.csv

Users are also asked to note:

1) Monthly and annual Normals of Total Number of Sunshine (TSUN) hours (Parameter 8) in the original files appeared to be inaccurate; these values appear to have been computed as the average number of sunshine hours per day for each month rather than the average of the total number of sunshine hours per month. NCEI recomputed the TSUN monthly values by multiplying the value by the number of days in each month (28 days for February) and have included these in the CSV files rather than the originally provided values.
2) The latitude and longitude values in the original files were misformatted. They were converted to DMS and properly formatted.
3) NCEI identified missing values in the original files as having the value 9999.99. NCEI replaced these with blank spaces in keeping with the WMO Normals guidance.
4) Mean Sea Level Pressure for Viterbo appears unusually low for every month and annual.

The list of all published CSV files is provided below.

Excel Files	CSV Files
N/A	Amendola_16261.csv Arezzo_16172.csv Aviano_16036.csv BariPalese_16270.csv BergamoOrioAlSerio_16076.csv BolognaBorgoPanigale_16140.csv Bonifati_16337.csv BresciaGhedi_16088.csv BricDellaCroce_16061.csv Brindisi_16320.csv CagliariElmas_16560.csv Campobasso_16252.csv

	CapoBellavista_16550.csv
	CapoCaccia_16522.csv
	CapoCarbonara_16564.csv
	CapoFrasca_16539.csv
	CapoMele_16153.csv
	CapoPalinuro_16310.csv
	CapoSLorenzo_16542.csv
	Capri_16294.csv
	CataniaFontanarossa_16460.csv
	CataniaSigonella_16459.csv
	Cervia_16148.csv
	Civitavecchia_16214.csv
	CozzoSpadaro_16480.csv
	Crotone_16350.csv
	Decimomannu_16546.csv
	Dobbiaco_16033.csv
	Enna_16450.csv
	Ferrara_16138.csv
	Frontone_16179.csv
	Frosinone_16244.csv
	Gela_16453.csv
	GenovaSestri_16120.csv
	GioiaDelColle_16312.csv
	Grazzanise_16253.csv
	Grosseto_16206.csv
	Guidonia_16234.csv
	Latina_16243.csv
	Latronico_16316.csv
	Lecce_16332.csv
	MarinaDiGinosa_16325.csv
	Messina_16420.csv
	MilanoLinate_16080.csv
	Mondovi_16114.csv
	MonteArgentario_16168.csv
	MonteCalamita_16197.csv
	MonteCimone_16134.csv
	MonteSAngelo_16258.csv
	MonteScuro_16344.csv
	MonteTerminillo_16219.csv
	NovaraCameri_16064.csv
	OlbiaCostaSmeralda_16531.csv
	Paganella_16022.csv
	PalermoPuntaRaisi_16405.csv
	Pantelleria_16470.csv

	PassoDeiGiovi_16119.csv
	PassoDellaCisa_16124.csv
	PassoRolle_16021.csv
	Pescara_16230.csv
	PiacenzaSDamiano_16084.csv
	PianRosa_16052.csv
	PisaSGiusto_16158.csv
	Ponza_16280.csv
	PraticaDiMare_16245.csv
	Prizzi_16434.csv
	PuntaMarina_16146.csv
	Rimini_16149.csv
	RomaCiampino_16239.csv
	RomaUrbe_16235.csv
	SarzanaLuni_16125.csv
	SMariaDiLeuca_16360.csv
	SValentinoAllaMuta_16008.csv
	Tarvisio_16040.csv
	Termoli_16232.csv
	TorinoCaselle_16059.csv
	TrapaniBirgi_16429.csv
	Trevico_16263.csv
	TrevisoIstrana_16098.csv
	TrevisoSAngelo_16099.csv
	Trieste_16110.csv
	UdineRivolto_16045.csv
	Ustica_16400.csv
	VeronaVillafranca_16090.csv
	VignaDiValle_16224.csv
	Viterbo_16216.csv

Latvia, 1991-2020 Climatological Normals

The WMO Member provided data for 25 stations in individual Excel files. NCEI converted the Excel files to Comma Separated Values (CSV) files to aid in quality control, mapping, and comparison to Normals from other countries.

The original Excel files are provided along with the CSV files.

Excel Files	CSV Files
Ainazi_26229.xls	Ainazi_26229.csv
Aluksne_26346.xls	Aluksne_26346.csv
Bauska_26429.xls	Bauska_26429.csv
Dagda_26551.xls	Dagda_26551.csv
Daugavpils_26544.xls	Daugavpils_26544.csv
Dobele_26424.xls	Dobele_26424.csv
Gulbene_26348.xls	Gulbene_26348.csv
Jelgava_26425.xls	Jelgava_26425.csv
Kolka_26313.xls	Kolka_26313.csv
Liepaja_26406.xls	Liepaja_26406.csv
Madona_26447.xls	Madona_26447.csv
Mersrags_26324.xls	Mersrags_26324.csv
Pavilosta_26406.xls	Pavilosta_26406.csv
Priekuli_26335.xls	Priekuli_26335.csv
Rezekne_26446.xls	Rezekne_26446.csv
RigaLu_26422.xls	RigaLu_26422.csv
Rucava_26503.xls	Rucava_26503.csv
Rujiena_26238.xls	Rujiena_26238.csv
Saldus_26416.xls	Saldus_26416.csv
Skriveri_26435.xls	Skriveri_26435.csv
Skulte_26326.xls	Skulte_26326.csv
Stende_26318.xls	Stende_26318.csv
Ventspils_26314.xls	Ventspils_26314.csv
Zilani_26436.xls	Zilani_26436.csv
Zoseni_26339.xls	Zoseni_26339.csv

Luxembourg, 1991-2020 Climatological Normals

The WMO Member provided data for six (6) stations in a single Excel file with multiple spreadsheets. NCEI converted the Excel file spreadsheets to Comma Separated Values (CSV) files to aid in quality control, mapping, and comparison to Normals from other countries.

The original Excel file is provided along with the CSV files.

Additional explanatory information provided by the WMO Member is included below.

Excel Files	CSV Files
Luxembourg_WMO_Normals_9120.xlsx	Asselborn.csv Clemency.csv Grevenmacher.csv Luxembourg_06590.csv LuxembourgVille_06589.csv Remich.csv

Additional Explanatory Information provided by the WMO Member

Please find attached the Climatological Standard Normals for 1991–2020 for those stations in Luxembourg where the period 1991-2020 is covered both for precipitation and temperatures following WMO criteria.

These include the stations operated by the Meteorological Department of Administration of Technical Agricultural Services (AgriMeteo):

Asselborn, Clemency, Grevenmacher, Luxembourg Villle (WMO 6589), Remich

As well as one station operated by Meteorological Department of Air Navigation Administration (MeteoLux): Findel (WMO 6590).

Unfortunately for the WMO stations Clervaux (6585) and Echternach (6597) the data was not complete enough to comply with the WMO criteria.

The data for precipitation and temperatures have been validated and homogenized following WMO recommendations for all stations operated by AgriMeteo. For the station operated by MeteoLux the date was validated following WMO recommendations but not homogenized.

We used the template provided to inform the data, but allowed our self to add the Zero Quintile for monthly precipitation (i.e. minimum monthly precipitation) for stations operated by ArgiMeteo.

Moldova, 1991-2020 Climatological Normals

The WMO Member provided data for 17 stations in individual CSV files.

Excel Files	CSV Files
N/A	Baltata_33824.csv
	Balti_33745.csv
	Bravicea_33749.csv
	Briceni_33664.csv
	Cahul_33885.csv
	Camenca_33679.csv
	CeadirLunga_33886.csv
	Chisinau_33815.csv
	Comrat_33883.csv
	Cornesti_33748.csv
	Dubasari_33821.csv
	Falesti_33744.csv
	Leova_33881.csv
	Ribnita_33754.csv
	Soroca_33678.csv
	StefanVoda_33892.csv
	Tiraspol_33829.csv

Montenegro, 1991-2020 Climatological Normals

The WMO Member provided data for nine (9) stations in individual CSV files. Additional information provided by the WMO Member is included below.

Excel Files	CSV Files
N/A	Bar_13461.csv
	BijeloPolje_13230.csv
	HercegNovi_13455.csv
	Kolasin_13465.csv
	Niksic_13459.csv
	Pljevlja_13363.csv
	Podgorica_13463.csv
	Ulcinj_13464.csv
	Zabljak_13361.csv

Additional Explanatory Information provided by the WMO Member

The set of climatological and precipitation stations was suggested taking into consideration the availability of data in the electronic data-base and/or the possibility to complete the gaps in variables from the paper archive or other sources as much as possible. and for which an appropriate number of years is available with data according to WMO guidelines.

The criterion for selecting the stations was the same as in the DANUBECLIM project (http://www.carpatclim-eu.org/danubeclim/Partners)

The homogenization, the data quality control and the data completion were implemented by software MASH (Multiple Analysis of Series for Homogenization; Szentimrey, 1999, 2008, 2014). Between the neighbouring countries there was an exchange of the near border station data series in order to cross-border harmonization.

The MASH software, which was developed for homogenization of monthly and daily data series, includes also quality control and missing data completion units for the daily as well as the monthly data.

Basic meteorological parameters were homogenized and processed:

1. **Daily_Maximum_Temperature** Deg_C
2. **Daily_Minimum_Temperature** Deg_C
3. **Daily mean temperature (T_a)** Deg_C

daily $T_a(t)$ series were calculated as the arithmetic mean of the homogenized daily $T_{min}(t)$, $T_{max}(t)$ series: $T_a(t) = \frac{1}{2}(T_{min}(t) + T_{max}(t))$

4. **Precipitation_Total** mm - The daily amount of precipitation or 24-hour amount of precipitation is measured at 06 UTC and refers to the previous 24 hours

The homogenization procedure was performed for the period 1961 – 2020.

Format Climatological Standard Normals file for a station is .csv

Climate normals are calculated using CLINO software and the results are in the folder

Montenegro_WMO_Normals_9120.rar

Netherlands, 1991-2020 Climatological Normals

The WMO Member provided data for 24 stations in individual CSV files.

Excel Files	CSV Files
N/A	AmsterdamSchipholAp_06240.csv
	ArcenAws_06391.csv
	CabauwTowerAws_06348.csv
	DeBiltAws_06260.csv
	Deelen_06275.csv
	DeKooyVk_06235.csv
	EindhovenAp_06370.csv
	GilzeRijen_06350.csv
	GroningenApEelde_06280.csv
	HerwijnenAws_06356.csv
	HoogeveenAws_06279.csv
	HupselAws_06283.csv
	Leeuwarden_06270.csv
	LelystadAp_06269.csv
	LichteilandGoeree_06320.csv
	MaastrichtAachenAp_06380.csv
	MarknesseAws_06273.csv
	NieuwBeertaAws_06286.csv
	RotterdamTheHagueAp_06344.csv
	TwentheAws_06290.csv
	VlissingenAws_06310.csv
	Volkel_06375.csv
	VoorschotenAws_06215.csv
	WestdorpeAws_06319.csv

Norway, 1991-2020 Climatological Normals

The WMO Member provided data for 496 stations in individual CSV files.

Excel Files	CSV Files
N/A	ABJORSBRATEN_23160.csv
	AFJORD_MOMYR_71810.csv
	AKRESTROMMEN_7660.csv
	ALEN_67780.csv
	ALESUND_IV_01224.csv
	ALFOTEN_II_57940.csv
	AL_III_25320.csv
	ALSVAG_I_VESTERALEN_II_86950.csv
	ALTA_LUFTHAVN_01049.csv
	ALVUNDFJORD_64580.csv
	AMOTSDAL_32350.csv
	ANDALSNES_61350.csv
	ANDOYA_01010.csv
	ANGARDSVATNET_63580.csv
	ARENDAL_BRANNSTASJON_II_36110.csv
	ARNES_4920.csv
	AS_01463.csv
	ASERAL_41480.csv
	ASKER_01486.csv
	ASK_PA_RINGERIKE_24100.csv
	ATNDALEN_ERIKSRUD_8770.csv
	ATNDALEN_RONNINGEN_8450.csv
	ATNSJOEN_8720.csv
	AUNET_68420.csv
	AURLAND_53700.csv
	AURSKOG_II_01484.csv
	AURSUND_10600.csv
	BAKKE_42720.csv
	BANAK_01059.csv
	BANGDALEN_72250.csv
	BARDAL_78350.csv
	BARDUFOSS_01023.csv
	BARKESTAD_86850.csv
	BATEROD_3200.csv
	BEITO_23560.csv
	BERGELIGREND_30860.csv
	BERGEN_FLORIDA_01317.csv
	BERKAK_TERMINALVEIEN_66720.csv
	BESSAKER_71900.csv
	BIRI_11900.csv
	BJERKA_VALLA_78370.csv
	BJORHEIM_I_RYFYLKE_45600.csv
	BJORKASEN_84070.csv

	BJORNHOLT_01489.csv
	BLANKTJERNMOEN_I_KVIKNE_9870.csv
	BODO_VI_01152.csv
	BO_I_VESTERALEN_III_01156.csv
	BONES_I_BARDU_88100.csv
	BORLO_54500.csv
	BORSELV_II_95590.csv
	BOTNEN_I_FORDE_57480.csv
	BOTNHAMN_88660.csv
	BOVERDAL_15430.csv
	BOYLEFOSS_36490.csv
	BRATA_SLETTOM_01360.csv
	BREIVOLL_71750.csv
	BREKKE_I_SOGN_52930.csv
	BREKKE_SLUSE_1400.csv
	BRONNOYSUND_LUFTHAVN_01112.csv
	BRUSDALSVATN_II_60890.csv
	BUHOLMRASA_FYR_01259.csv
	BULKEN_01336.csv
	BURAN_69960.csv
	BYGLANDSFJORD_NESET_01442.csv
	BYKLE_KULTRAN_40420.csv
	CUOVDDATMOHKKI_01057.csv
	DAGALI_LUFTHAVN_01363.csv
	DAVIKNES_57850.csv
	DIVIDALEN_II_01198.csv
	DOMBAS_NORDIGARD_01233.csv
	DOVLAND_38380.csv
	DRAMMEN_BERSKOG_01480.csv
	DRANGEDAL_REFSDALSKILEN_34580.csv
	DRAUGEN_76925.csv
	DREVSJO_01393.csv
	DREVVASSBYGDA_78180.csv
	DROBAK_DYRLOKKE_17741.csv
	EGERSUND_43360.csv
	EGGEDAL_III_26380.csv
	EIDE_PA_NORDMORE_62900.csv
	EIDFJORD_II_49631.csv
	EIDSVOLL_VERK_11120.csv
	EIKANGER_MYR_52400.csv
	EIKEFJORD_57680.csv
	EIKELAND_35090.csv
	EIKEMO_47820.csv
	EIK_HOVE_01425.csv
	EIMHJELLEN_57660.csv
	EINAVATN_11710.csv
	EINUNNA_KRAFTVERK_8970.csv
	EKSET_I_VOLDA_59670.csv

	EKSINGEDAL_52170.csv
	ELLEFSPLASS_770.csv
	ELVERUM_FAGERTUN_6620.csv
	ENEBAKK_BARBOL_4040.csv
	ERESFJORD_61820.csv
	ESPEDALEN_13700.csv
	ETNE_47500.csv
	ETNE_II_47498.csv
	EVENES_LUFTHAVN_01183.csv
	EVENSTAD_01383.csv
	FAERDER_FYR_01482.csv
	FAGERNES_01367.csv
	FALLMOEN_77270.csv
	FAMVATNET_78770.csv
	FANA_STEND_50450.csv
	FAVANG_TROMSNES_13140.csv
	FEDAFJORDEN_II_42250.csv
	FET_I_EIDFJORD_01340.csv
	FINSEVATN_01350.csv
	FINSLAND_41200.csv
	FINSTAD_7900.csv
	FISKABYGD_59610.csv
	FISTER_SIGMUNDSTAD_01422.csv
	FITJAR_PRESTBO_48250.csv
	FJAERLAND_BREMUSEET_01332.csv
	FLEKKEFJORD_42650.csv
	FLESLAND_01311.csv
	FLISA_II_01392.csv
	FLORO_LUFTHAMN_01310.csv
	FLOTER_17500.csv
	FOKSTUGU_01238.csv
	FOLDSAE_37500.csv
	FOLLDAL_FREDHEIM_01250.csv
	FORDE_LH_BRINGELAND_01323.csv
	FORDE_TEFRE_57420.csv
	FRESVIK_53130.csv
	FROYSET_52750.csv
	FRUHOLMEN_FYR_01055.csv
	FYRESDAL_ALANDSLI_37740.csv
	GARDERMOEN_01384.csv
	GAUSTATOPPEN_01461.csv
	GAUSVIK_87750.csv
	GEILO_01359.csv
	GEILO_OLDEBRATEN_01359.csv
	GJENGEDAL_57990.csv
	GJERSTAD_I_AUST-AGDER_35200.csv
	GLOMFJORD_80700.csv
	GLOTVOLA_TROAN_610.csv

	GODAL_30380.csv
	GOL_STAKE_24960.csv
	GRIMELI_I_KRODSHERAD_24600.csv
	GRONNING_60620.csv
	GROV_SOLHAUG_14711.csv
	GRUNNFARNES_88460.csv
	GRUNNFJORD_STAKKEN_90650.csv
	GULLBRA_52220.csv
	GULSVIK_II_01376.csv
	GVARV_NES_01470.csv
	HAFSAS_63530.csv
	HAFSLO_55550.csv
	HAKAVIK_26670.csv
	HALDEN_1230.csv
	HALSAFJORD_II_64460.csv
	HALTEN_FYR_01240.csv
	HAMMERFEST_LUFTHAVN_01052.csv
	HARSTAD_STADION_01180.csv
	HASJOEN_SOLGLOTT_10300.csv
	HATLESTRAND_50150.csv
	HAUGESUND_LUFTHAVN_01408.csv
	HAUKEDAL_56960.csv
	HAUKELAND_STOREVATN_52601.csv
	HEDAL_I_VALDRES_II_22730.csv
	HEDRUM_27800.csv
	HEGGERISET_NORDSTRAND_420.csv
	HEGRA_II_69230.csv
	HEIDRUN_76928.csv
	HEKKINGEN_FYR_01015.csv
	HELLAND_I_GJESDAL_44520.csv
	HELLIGVAER_II_01144.csv
	HEMNE_LENES_65230.csv
	HEMSEDAL_HOLTO_25100.csv
	HEREFOSS_38450.csv
	HIASEN_26240.csv
	HILDRE_61040.csv
	HITRA_65600.csv
	HITRA_SANDSTAD_II_01237.csv
	HOGNESTAD_44160.csv
	HOIDALEN_I_SOLUM_32780.csv
	HOLE_20250.csv
	HONNINGSVAG_LUFTHAVN_01068.csv
	HORNI_19610.csv
	HORNINDAL_58960.csv
	HOVDEN_LUNDANE_01441.csv
	HOVDGRENDA_13450.csv
	HOVLANDSDAL_56520.csv
	HOVRINGEN_II_16271.csv

	HOYANGER_VERK_56010.csv
	HOYDALSMO_II_01447.csv
	HUNDSEID_I_VIKEDAL_46850.csv
	HUSNES_48450.csv
	HUSTADVATN_62700.csv
	HVALER_1080.csv
	IGSI_I_HOBOL_3780.csv
	ILSENG_12180.csv
	IMS_44760.csv
	INNSET_I_BARDU_89650.csv
	INNVIK_HEGGDAL_58390.csv
	ISTAD_KRAFTSTASJON_62160.csv
	JOMFRULAND_01476.csv
	JONSBERG_LANDBRUKSSKOLE_12200.csv
	JORDALEN_NASEN_53160.csv
	JOTKAJAVRE_93500.csv
	JUNKERDAL_81730.csv
	JUVVASSHOE_01362.csv
	KARASJOK_MARKANNJARGA_01065.csv
	KAUTOKEINO_01047.csv
	KILEGREND_37650.csv
	KINSARVIK_49550.csv
	KIRKENES_LUFTHAVN_01089.csv
	KISE_PA_HEDMARK_01382.csv
	KJELSAS_I_SORKEDALEN_19100.csv
	KJERRINGOY_OS_82530.csv
	KJEVIK_01452.csv
	KLUKSDAL_69420.csv
	KONGSBERG_BRANNSTASJON_01473.csv
	KONGSVINGER_01468.csv
	KONSMO_HOYLAND_41670.csv
	KRAKENES_01203.csv
	KRISTIANSUND_LUFTHAVN_01223.csv
	KVAMSKOGEN_JONSHOGDI_01327.csv
	KVAVIK_41820.csv
	KVIKNE_I_OSTERDAL_66850.csv
	KVINESHEI_SORHELLE_41860.csv
	KVITESEID_MOEN_32850.csv
	KVITFJELL_01375.csv
	KVITHAMAR_01270.csv
	KVITSOY_NORDBO_01411.csv
	LAERDAL_IV_01355.csv
	LANDVIK_01464.csv
	LARVIK_30000.csv
	LAUDAL_KLEIVEN_01439.csv
	LAVIK_56320.csv
	LEBESBY_KARLMYHR_96220.csv
	LEINSTRAND_67150.csv

	LEIRFJORD_78250.csv
	LEKNES_I_LOFOTEN_85540.csv
	LEKNES_LUFTHAVN_01141.csv
	LEKSVIK_MYRAN_71280.csv
	LESJASKOG_61770.csv
	LESJA_SVANBORG_16790.csv
	LIAFOSS_75100.csv
	LIEN_I_SELBU_68330.csv
	LIFJELL_32200.csv
	LILLEHAMMER_SAETHERENGEN_01378.csv
	LINDESNES_FYR_01436.csv
	LINNES_60.csv
	LISTA_FYR_01427.csv
	LITLEDAL_47600.csv
	LJOSLAND_MONEN_41550.csv
	LOKEN_I_VOLBU_01371.csv
	LOKSMYR_68270.csv
	LUNNER_20520.csv
	LUROY_80200.csv
	LYKKJA_I_HEMSEDAL_23390.csv
	LYNGOR_FYR_01467.csv
	LYSEBOTN_45350.csv
	MAKKAUR_FYR_01092.csv
	MANDAL_III_01430.csv
	MARIDALSOSET_18450.csv
	MARISTOVA_54600.csv
	MAUDAL_43810.csv
	MELSOM_01481.csv
	MERAKER_VARDETUN_01293.csv
	MESNA_TYRIA_12800.csv
	MESTAD_I_ODDERNES_39220.csv
	MJOEN_63750.csv
	MJOLFJELL_UH_01344.csv
	MODALEN_III_01326.csv
	MODUM_S_KOPLAND_26161.csv
	MOGEN_31660.csv
	MO_I_RANA_III_79480.csv
	MO_I_RANA_LUFTHAVN_01151.csv
	MOLDE_LUFTHAVN_01217.csv
	MOSJOEN_LUFTHAVN_01122.csv
	MOSS_BRANNSTASJON_17251.csv
	MOSSTRAND_II_01450.csv
	MOSVATN_HAUG_31570.csv
	MOSVIK_TROAHAUGEN_71200.csv
	MYKEN_01115.csv
	MYKLAND_38600.csv
	MYKLEBUST_I_BREIM_58320.csv
	NAMDALSEID_72100.csv

	NAMSOS_LUFTHAVN_01290.csv
	NAMSSKOGAN_01281.csv
	NAMSSKOGAN_-_BERGLI_74530.csv
	NARVIK_LUFTHAVN_84700.csv
	NELAUG_01459.csv
	NESBYEN_TODOKK_01373.csv
	NES_PA_HEDMARK_12520.csv
	NORDDAL_60400.csv
	NORDFJORDEID_NYMARK_58780.csv
	NORDLI_HOLAND_73500.csv
	NORD-ODAL_5350.csv
	NORDOYAN_FYR_01262.csv
	NORDSTRAND_18160.csv
	NORDSTRAUM_I_KVAENANGEN_01045.csv
	NOTODDEN_30530.csv
	NOTODDEN_LUFTHAVN_30650.csv
	OBRESTAD_FYR_01412.csv
	ODNES_21360.csv
	OKSENDAL_63100.csv
	OKSNINGOY_76100.csv
	OKSOY_FYR_01448.csv
	OLDEDALEN_58480.csv
	OLSTAPPEN_13640.csv
	OLTEDAL_44900.csv
	ONA_II_01212.csv
	OPPDAL_SAETER_01245.csv
	OPSTVEIT_47890.csv
	ORJE_1950.csv
	ORLAND_III_01241.csv
	ORSJOSETRA_250.csv
	ORSKOG_60800.csv
	ORSTA_VOLDA_LUFTHAMN_01209.csv
	ORTNEVIK_52990.csv
	OSLO_BLINDERN_01492.csv
	OSTAS_I_HEGRA_69550.csv
	OSTRE_TOTEN_APELSVOLL_01381.csv
	OTTEROY_75020.csv
	OVERHALLA_UNNSET_72650.csv
	OVRE_ARDAL_54780.csv
	OVRE_KROSSDALEN_49080.csv
	OVRE_SIRDAL_42950.csv
	OVSTEDAL_51250.csv
	OYSTESE_BORGE_50080.csv
	PLASSEN_100.csv
	POLMAK_TOLLSTED_96931.csv
	PORSA_II_94130.csv
	PORSGRUNN_BRANNSTASJON_30260.csv
	POSTMYR_I_DRANGEDAL_34900.csv

	PRESTSTULEN_14550.csv
	RAMNES_BERG_27301.csv
	RAULAND_33250.csv
	REFVIK_59250.csv
	REINE_85660.csv
	REINLI_22840.csv
	REIPA_01114.csv
	RENA_FLYPLASS_01389.csv
	RENNEBU_RAMSTAD_66620.csv
	RINDAL_64900.csv
	RISNES_I_FJOTLAND_42520.csv
	RISOR_BRANNSTASJON_35340.csv
	RJUKAN_31410.csv
	ROLDAL_46450.csv
	ROROS_LUFTHAVN_01288.csv
	RORVIK_LUFTHAVN_01282.csv
	RORVIKVATN_VED_VADHEIM_56280.csv
	ROSBJORGEN_67540.csv
	ROSENDAL_48500.csv
	ROSSVATN_HEGGMO_78850.csv
	ROST_LUFTHAVN_01107.csv
	ROVERUD_5660.csv
	RUSTEFJELBMA_96800.csv
	RYGGE_01494.csv
	SAEBO_59900.csv
	SAERHEIM_01413.csv
	SAETERMOEN_II_89500.csv
	SANDANE_58070.csv
	SANDANE_LUFTHAMN_01320.csv
	SANDEFJORD_27600.csv
	SANDE_GALLEBERG_01485.csv
	SAND_I_RYFYLKE_II_46150.csv
	SANDNESSJOEN_LH_STOKKA_01116.csv
	SARPSBORG_01493.csv
	SAUDA_01424.csv
	SAUSVATN_SKOGMO_76380.csv
	SELBU_II_01273.csv
	SENUMSTAD_38421.csv
	SIHCCAJAVRI_01199.csv
	SIRBMA_96970.csv
	SJOA_14050.csv
	SKABU_01370.csv
	SKAIDI_II_94170.csv
	SKEI_I_JOLSTER_57390.csv
	SKIBOTN_II_01037.csv
	SKIEN_ELSTROM_30320.csv
	SKJAEKERFOSSEN_70480.csv
	SKJAK_15660.csv

	SKJAK_II_15480.csv
	SKJENALDFOSSEN_I_ORKDAL_66070.csv
	SKJOLD_FROVIK_47090.csv
	SKJOMEN_STIBERG_84190.csv
	SKLINNA_FYR_01102.csv
	SKOGFOSS_99500.csv
	SKROVA_FYR_01160.csv
	SLATTEROY_FYR_01406.csv
	SLETTNES_FYR_01078.csv
	SLIPER_71370.csv
	SMOLA_MOLDSTAD_65370.csv
	SNASA_KJEVLIA_01124.csv
	SNASA_NAGELHUS_70930.csv
	SOGNDAL_LUFTHAMN_01347.csv
	SOGNDAL_SELSENG_55730.csv
	SOGNEFJELLHYTTA_01366.csv
	SOKNA_II_24210.csv
	SOLA_01415.csv
	SOLENDET_01287.csv
	SOLVAER_III_01121.csv
	SOMNA_STEIN_76250.csv
	SONGLI_66100.csv
	SORE_BREKKOM_13310.csv
	SORKJOSEN_LUFTHAVN_01046.csv
	SORLI_73250.csv
	SORTLAND_86500.csv
	SOVATNET_65270.csv
	SOYLAND_I_GJESDAL_44480.csv
	STADLANDET_59450.csv
	STAVANGER_VALAND_01416.csv
	STEIGEN_83300.csv
	STEINKJER_SONDRE_EGGE_01277.csv
	STOKKE_SOLLI_27770.csv
	STOKMARKNES_LH_SKAGEN_01162.csv
	STORSTEINNES_I_BALSFJORD_90200.csv
	STRAUMOY_47450.csv
	STROMSFOSS_SLUSE_1650.csv
	STROMTANGEN_FYR_01495.csv
	STRYN_KROKEN_01321.csv
	STUGUDAL_KASEN_68840.csv
	STYRKESNES_HESTVIKA_82840.csv
	SULA_01228.csv
	SULDALSVATN_46300.csv
	SULITJELMA_81900.csv
	SUNDSFJORD_TVERRLIA_80840.csv
	SUNNDALSORA_III_63420.csv
	SUOLOVUOPMI_LULIT_01058.csv
	SURNADAL_64800.csv

	SUSENDAL_77850.csv
	SVELGEN_II_57810.csv
	SVILAND_44800.csv
	SVINOY_FYR_01205.csv
	SVOLVAER_LUFTHAVN_01161.csv
	SYGNA_56780.csv
	TAFJORD_01218.csv
	TAKLE_01319.csv
	TESSUNGDALEN_BAKKHUS_31080.csv
	TOMMERNESET_83520.csv
	TONSTAD_NETTFED_42810.csv
	TORDAL_SUVDOLA_34800.csv
	TORSVAG_FYR_01033.csv
	TORUNGEN_FYR_01465.csv
	TOVDAL_38800.csv
	TROMSO_01026.csv
	TROMSO_HOLT_01027.csv
	TROMSO_LANGNES_01025.csv
	TRONDHEIM_VOLL_01257.csv
	TRONES_TROMSSTAD_74320.csv
	TRYSIL_VEGSTASJON_01397.csv
	TRYVANNSHOGDA_01490.csv
	TUDDAL_31900.csv
	TUFSINGDAL_MIDTDAL_810.csv
	TUNHOVD_29600.csv
	TUNNSJO_73800.csv
	TUSTERVATNET_II_78610.csv
	TVEITSUND_01455.csv
	TYNSET_HANSMOEN_01265.csv
	TYSSEDAL_IA_49351.csv
	UKKESTAD_4740.csv
	ULLENSVANG_FORSOKSGARD_01342.csv
	UTGARD_70820.csv
	UTSIRA_FYR_01403.csv
	UVDAL_KRAFTVERK_29350.csv
	VADSO_LUFTHAVN_01088.csv
	VAERNES_01271.csv
	VAEROY_HELIPORT_01139.csv
	VAGSLI_01434.csv
	VALDALEN_730.csv
	VALLE_01444.csv
	VANG_I_VALDRES_23720.csv
	VANGSNES_01338.csv
	VARDO_RADIO_01098.csv
	VARNTRESK_01147.csv
	VATS_I_VINDAFJORD_01417.csv
	VATS_RANDEN_25260.csv
	VEA_12600.csv

	VEGA_VALLSJO_01108.csv
	VEGGLI_II_01471.csv
	VEIDNES_I_LAKSEFJORD_95900.csv
	VEIHOLMEN_01225.csv
	VEINES_I_NEIDEN_99330.csv
	VEITASTROND_55670.csv
	VENABU_01380.csv
	VERA_II_70510.csv
	VERDAL_REPPE_70150.csv
	VERMA_61550.csv
	VERMUNDSJOEN_6440.csv
	VESTRE_GAUSDAL_13100.csv
	VEST-TORPA_II_01374.csv
	VIGMOSTAD_41640.csv
	VIGRA_01210.csv
	VIK_I_SOGN_III_53070.csv
	VIKSDALEN_I_GAULAR_56850.csv
	VINTERTUN_47750.csv
	VOSSEVANGEN_01337.csv
	YTRE_SOLUND_56400.csv
	YTTEROYANE_FYR_01304.csv

Poland, 1991-2020 Climatological Normals

The WMO Member provided data for 51 stations in individual CSV files.

Excel Files	CSV Files
N/A	Bialystok_12295.csv
	BielskoBiala_12600.csv
	Chojnice_12235.csv
	GorzowWielkopolski_12300.csv
	Hel_12135.csv
	JeleniaGora_12500.csv
	Kalisz_12435.csv
	KasprowyWierch_12650.csv
	Katowice_12560.csv
	Ketrzyn_12185.csv
	KielceSukow_12570.csv
	Klodzko_12520.csv
	Kolo_12345.csv
	Koszalin_12105.csv
	Kozienice_12488.csv
	KrakowBalice_12566.csv
	Krosno_12670.csv
	Leba_12120.csv
	Lebork_12125.csv
	Legnica_12415.csv
	Lesko_12690.csv
	LesznoStrzyzewice_12418.csv
	LodzLublinek_12465.csv
	LublinRadawiec_12495.csv
	Mlawa_12270.csv
	NowySacz_12660.csv
	Olsztyn_12272.csv
	Opole_12530.csv
	Pila_12230.csv
	PlockTrzepowo_12360.csv
	Poznan_12330.csv
	RaciborzStudzienna_12540.csv
	RzeszowJasionka_12580.csv
	Sandomierz_12585.csv
	Siedlce_12385.csv
	Slubice_12310.csv
	Sniezka_12510.csv
	Sulejow_12469.csv
	Suwalki_12195.csv
	Swinoujscie_12200.csv
	SzczecinDabie_12205.csv
	Tarnow_12575.csv
	Terespol_12399.csv

	Torun_12250.csv Ustka_12115.csv WarszawaOkecie_12375.csv Wielun_12455.csv Wlodawa_12497.csv Wroclaw_12424.csv Zakopane_12625.csv ZielonaGora_12400.csv

Romania, 1991-2020 Climatological Normals

The WMO Member provided data for 26 stations in individual CSV files.

Users are asked to note that the original files had latitude displayed as longitude and vice versa. NCEI corrected the latitude/longitude in each file before publishing.

Excel Files	CSV Files
N/A	Arad_15200.csv
	Bacau_15150.csv
	Bistrita_15085.csv
	Botosani_15020.csv
	BucurestiBaneasa_15420.csv
	Buzau_15350.csv
	Calarasi_15460.csv
	Caransebes_15292.csv
	CeahlauToaca_15108.csv
	ClujNapoca_15120.csv
	Constanta_15480.csv
	Craiova_15450.csv
	Deva_15230.csv
	DrobetaTurnuSeverin_15410.csv
	Galati_15310.csv
	Iasi_15090.csv
	MiercureaCiuc_15170.csv
	OcnaSugatag_15015.csv
	RamnicuValcea_15346.csv
	RosiorideVede_15470.csv
	Sibiu_15260.csv
	Suceava_15023.csv
	Sulina_15360.csv
	Timisoara_15247.csv
	Tulcea_15335.csv
	VarfuOmu_15280.csv

Russian Federation Europe, 1991-2020 Climatological Normals

The WMO Member provided data for 52 stations in individual CSV files.

Excel Files	CSV Files
N/A	AleksandrovGaj_34391.csv
	ArhangelSk_22550.csv
	Armavir_37031.csv
	Astrahan_34880.csv
	Cimljansk_34646.csv
	ElatMa_27648.csv
	Elista_34861.csv
	Gridino_22422.csv
	Gudermes_37244.csv
	Kaliningrad_26702.csv
	KamennajaStep_34139.csv
	KamenskSahtinskij_34535.csv
	Kandalaksha_22217.csv
	KaninNos_22165.csv
	Kazan_27595.csv
	KemPort_22520.csv
	Kerch_33983.csv
	Kirov_27199.csv
	Kojnas_22583.csv
	Kostroma_27333.csv
	Kotlas_22887.csv
	Kursk_34009.csv
	Mahachkala_37472.csv
	MineralNyeVody_37054.csv
	Moskva_27612.csv
	Murmansk_22113.csv
	NizhnijNovgor_27459.csv
	Novgorod_26179.csv
	OktyabrskyGorodok_34163.csv
	Onega_22641.csv
	Pavelets_27823.csv
	Petrozavodsk_22820.csv
	PrimorskoAhtarsk_34824.csv
	Pskov_26258.csv
	Reboly_22602.csv
	Roslavl_26882.csv
	RostovNaDonu_34630.csv
	Saratov_34178.csv
	Simferopol_33946.csv
	Smolensk_26781.csv
	Sortavala_22802.csv
	Sotchi_37099.csv
	StPetersburg_26063.csv

	Tambov_27947.csv
	TotMa_27051.csv
	Tuapse_37018.csv
	VelikieLuki_26477.csv
	Vologda_27037.csv
	Voronez_34123.csv
	VysnijVolocek_26393.csv
	Vytegra_22837.csv
	Yashkul_34866.csv

Serbia, 1991-2020 Climatological Normals

The WMO Member provided data for three (3) stations in individual Excel files. NCEI converted the Excel files to Comma Separated Values (CSV) files to aid in quality control, mapping, and comparison to Normals from other countries.

The original Excel files are provided along with the CSV files.

Excel Files	CSV Files
Beograd_13274.xls Nis_13388.xls NoviSad_13168.xls	Beograd_13274.csv Nis_13388.csv NoviSad_13168.csv

Slovakia, 1991-2020 Climatological Normals

The WMO Member provided data for 23 stations in a single Excel file with multiple spreadsheets. NCEI converted the Excel file spreadsheets to Comma Separated Values (CSV) files to aid in quality control, mapping, and comparison to Normals from other countries.

The original Excel file is provided along with the CSV files.

Excel Files	CSV Files
Slovakia_WMO_Normals_9120.xlsx	BOLKOVCE_11927.csv BRATISLAVA_AIRPORT_11816.csv BRATISLAVA_KOLIBA_11813.csv CHOPOK_11916.csv DOLNY_HRICOV_11841.csv DUDINCE_11880.csv GANOVCE_11952.csv HURBANOVO_11858.csv JASLOVSKE_BOHUNICE_11819.csv KAMENICA_NAD_CIROCHOU_11993.csv KOSICE_AIRPORT_11968.csv LIESEK_11918.csv LOMNICKY_STIT_11930.csv MILHOSTOV_11978.csv NITRA_VELKE_JANIKOVCE_11855.csv PIESTANY_11826.csv POPRAD_11934.csv PRESOV_VOJSKO_11955.csv PRIEVIDZA_11867.csv SLIAC_11903.csv STRBSKE_PLESO_11933.csv TELGART_11938.csv TISINEC_11976.csv

Slovenia, 1991-2020 Climatological Normals

The WMO Member provided data for nine (9) stations in individual CSV files.

Additional information from the WMO Member is included below.

Excel Files	CSV Files
N/A	Celje_14023.csv Kredarica_14008.csv LjubljanaBezigrad_14015.csv MariborSlivnica_14026.csv MurskaSobota_14031.csv NovaGorica_14106.csv Novomesto_14121.csv Ratece_14007.csv SlovenjGradec_14021.csv

Additional Explanatory Information provided by the WMO Member

Normals 1991-2020

Precipitation total

Observation day: from 7.00 local solar time of the previous day to 7.00 solar time of the day of measurement.

Temperature

Observation day: three measurements of temperature daily, at 7.00, 14.00 (2 P. M.) and 21.00 (9 P. M.): T7, T14 and T21. Mean daily temperature is defined as weighted average: (T7 + T14 + 2*T21)/4. Maximum and minumum temperature from maximum and minimum termometer, time interval from 21 (9 P. M.) previous day to 21.00 (9 P. M.) of the day of measurement. On automatic weather stations the same measurement interval, minimum and maximum temperature in this interval (21.00 previous day to 21.00 of the day of measurement).

Sea-level pressure

Daily values are calculated as the mean of three daily measurements, at 7.00, 14.00 (2 P. M.) and 21.00 (9 P. M.) solar time.

Vapour pressure

Daily values are calculated as the mean of three daily values, at 7.00, 14.00 (2 P. M.) and 21.00 (9 P. M.) solar time.

Spain, 1991-2020 Climatological Normals

The WMO Member provided data for 83 stations in individual CSV files.

Excel Files	CSV Files
N/A	ACORUNA_8001.csv
	ACORUNAALVEDRO_8002.csv
	ALBACETELOSLLANOS_8280.csv
	ALICANTE_8359.csv
	ALICANTEELCHEAEROPUERTO_8360.csv
	ALMERIAAEROPUERTO_8487.csv
	ASTURIASAVILES_8011.csv
	AVILA_8210.csv
	BADAJOZTALAVERALAREAL_8330.csv
	BARCELONAAEROPUERTO_08181.csv
	BILBAOAEROPUERTO_8025.csv
	BURGOSVILLAFRIA_8075.csv
	CACERES_8261.csv
	CADIZOBS_8452.csv
	CASTELLONALMASSORA_8286.csv
	CIUDADREAL_8348.csv
	COLMENARVIEJOFAMET_8219.csv
	CORDOBAAEROPUERTO_8410.csv
	CUENCA_8231.csv
	DAROCA_8157.csv
	FORONDATXOKIZA_8080.csv
	FUERTEVENTURAAEROPUERTO_60035.csv
	GIRONACOSTABRAVA_08184.csv
	GRANADAAAEROPUERTO_8419.csv
	GRANADABASEAEREA_8420.csv
	GRANCANARIAAEROPUERTO_60030.csv
	HIERROAEROPUERTO_60001.csv
	HONDARRIBIAMALKARROA_8029.csv
	HUELVARONDAESTE_8383.csv
	HUESCAAEROPUERTO_8094.csv
	IBIZAESCODOLA_8373.csv
	IZANA_60010.csv
	JAEN_8417.csv
	JEREZDELAFRONTERAAEROPUERTO_8451.csv
	LANZAROTEAEROPUERTO_60040.csv
	LAPALMAAEROPUERTO_60005.csv
	LEONVIRGENDELCAMINO_8055.csv
	LLEIDA_8171.csv
	LOGRONOAEROPUERTO_8084.csv
	LUGOROZAS_8008.csv
	MADRIDBARAJAS_8221.csv
	MADRIDCUATROVIENTOS_8223.csv
	MADRIDGETAFE_8224.csv

	MADRIDRETIRO_8222.csv
	MADRIDTORREJON_8227.csv
	MALAGAAEROPUERTO_8482.csv
	MELILLA_60338.csv
	MENORCAAEROPUERTO_8314.csv
	MOLINADEARAGON_8232.csv
	MORONDELAFRONTERA_8397.csv
	MURCIA_8430.csv
	MURCIAALCANTARILLA_8429.csv
	MURCIASANJAVIER_8433.csv
	NAVACERRADAPUERTO_8215.csv
	OURENSE_8048.csv
	OVIEDO_8015.csv
	PALMADEMALLORCASONSANJUAN_8306.csv
	PALMAPUERTO_8301.csv
	PAMPLONAAEROPUERTO_8085.csv
	PONFERRADA_8053.csv
	PONTEVEDRA_8044.csv
	REUSAEROPUERTO_08175.csv
	ROTABNOBSERVATORIO_8449.csv
	SALAMANCAMATACAN_8202.csv
	SANSEBASTIANIGUELDO_8027.csv
	SANTANDERPARAYAS_8021.csv
	SANTIAGODECOMPOSTELALABACOLLA_8042.csv
	SEGOVIA_8213.csv
	SEVILLASANPABLO_8391.csv
	SORIA_8148.csv
	STACRUZDETENERIFE_60020.csv
	TENERIFELOSRODEOS_60015.csv
	TENERIFESUR_60025.csv
	TERUEL_8235.csv
	TOLEDO_8272.csv
	TORTOSA_8238.csv
	VALENCIA_8285.csv
	VALENCIAAEROPUERTO_8284.csv
	VALLADOLID_8141.csv
	VALLADOLIDVILLANUBLA_8140.csv
	VIGOPEINADOR_8045.csv
	ZAMORA_8130.csv
	ZARAGOZAAEROPUERTO_8160.csv

Sweden, 1991-2020 Climatological Normals

The WMO Member provided data for 406 stations in individual CSV files.

Excel Files	CSV Files
N/A	Abelvattnet_Aut_02105.csv
	Abisko_Aut_02022.csv
	Abraur_02144.csv
	Adelso_A_02486.csv
	Akershus_02530.csv
	Allgunnen_02568.csv
	Almagrundet_A_02499.csv
	Aluokta_02026.csv
	Alvdalen_2_02328.csv
	Alvdalen_A_02321.csv
	Alvhem_02522.csv
	Alvsbyn_A_02173.csv
	Amal_02409.csv
	Amot_A_02440.csv
	Angelholm_Barkakra_Flygplats_02607.csv
	Are_Bjornange_V_02217.csv
	Areskutan_Aut_02215.csv
	Arjeplog_A_02124.csv
	Arvidsjaur_A_02149.csv
	Arvika_02404.csv
	Arvika_A_02411.csv
	Asbracka_Torpabron_V_02515.csv
	Asele_A_02254.csv
	Asphyttan_02422.csv
	Atorp_02428.csv
	Axstal_02545.csv
	Backa_02430.csv
	Bastorp_02502.csv
	Berga_02489.csv
	Bjuroklubb_02296.csv
	Bjuroklubb_A_02297.csv
	Blahammaren_A_02210.csv
	Blomskog_02406.csv
	Blomskog_A_02408.csv
	Boden_02171.csv
	Borgunda_02534.csv
	Borlange_Flygplats_02435.csv
	Borlange_Sol_02437.csv
	Bortnan_A_02319.csv
	Bramon_A_02368.csv
	Brattmon_V_02413.csv
	Bredbyn_D_02266.csv
	Buresjon_A_02135.csv

	Daglosen_A_02429.csv
	Delsbo_02346.csv
	Delsbo_A_02347.csv
	Dikanas_02118.csv
	Dravagen_A_02317.csv
	Dunker_02448.csv
	Edevik_02200.csv
	Edsbyn_02336.csv
	Edsbyn_A_02338.csv
	Eftra_Broen_V_02603.csv
	Eggegrund_A_02450.csv
	Enkoping_02443.csv
	Erikstad_Bergarud_V_02521.csv
	Eskilstuna_02447.csv
	Eskilstuna_A_02449.csv
	Esrange_02043.csv
	Fagre_D_02543.csv
	Fallfors_02158.csv
	Fallfors_02159.csv
	Falsterbo_02616.csv
	Falsterbo_A_02615.csv
	Falun_Lugnet_02433.csv
	Faro_D_02588.csv
	Farosund_Ar_A_02587.csv
	Farstugrunden_Aut_02189.csv
	Fellingsbro_Finnaker_02439.csv
	Film_A_02456.csv
	Finneby_02334.csv
	Fjallnas_02300.csv
	Flatruet_V_02303.csv
	Floda_A_02476.csv
	Flotningen_02304.csv
	Folkarna_02444.csv
	Follinge_A_02231.csv
	Follinge_Vagskalet_02224.csv
	Fransta_2_02342.csv
	Fredrika_02264.csv
	Fredrika_A_02263.csv
	Furuogrund_02290.csv
	Gaddede_02222.csv
	Gaddede_A_02219.csv
	Gallivare_A_02049.csv
	Gardsjo_A_02546.csv
	Gavle_A_02453.csv
	Gielas_A_02110.csv
	Gladhammar_A_02559.csv
	Glommen_02600.csv
	Goteborg_A_02513.csv

	Goteborg_Landvetter_Flygplats_02526.csv
	Goteborg_Sol_02531.csv
	Gotska_Sandon_02584.csv
	Gotska_Sandon_A_02589.csv
	Grundkallen_02471.csv
	Gubbhogen_A_02230.csv
	Gunnarn_02128.csv
	Gunnarn_A_02126.csv
	Gustaf_Dalen_A_02583.csv
	Gustavsfors_02412.csv
	Gustavsfors_A_02426.csv
	Hagshult_02556.csv
	Hallands_Vadero_A_02605.csv
	Hallhaxasen_A_02236.csv
	Hallum_A_02542.csv
	Halmstad_flygplats_02604.csv
	Hamra_A_02329.csv
	Hangstad_02402.csv
	Hano_A_02628.csv
	Haparanda_A_02197.csv
	Haparanda_D_02196.csv
	Harnosand_02361.csv
	Harstena_02586.csv
	Harstena_A_02563.csv
	Hastveda_02629.csv
	Helsingborg_A_02611.csv
	Hemavan_Flygplats_02101.csv
	Hemavan_Gierevarto_A_02103.csv
	Hemling_A_02265.csv
	Herrvik_D_02596.csv
	Hestra_D_02538.csv
	Hoburg_A_02679.csv
	Hoburg_D_02680.csv
	Hoburg_Sol_02678.csv
	Hokmarksberget_V_02292.csv
	Holmogadd_A_02288.csv
	Holmon_A_02287.csv
	Horby_A_02623.csv
	Horn_A_02557.csv
	Hoting_A_02242.csv
	Hud_V_02507.csv
	Hunge_02330.csv
	Hunge_A_02331.csv
	Hunnestorp_V_02602.csv
	Idre_Fjall_A_02307.csv
	Idvattnet_02252.csv
	Jarnasklubb_A_02284.csv
	Jokkmokk_02142.csv

	Jokkmokk_Flygplats_02151.csv
	Jonkoping_02551.csv
	Jonkoping_Axamos_Flygplats_02550.csv
	Junsele_02244.csv
	Junsele_A_02243.csv
	Kalmar_flygplats_02670.csv
	Karats_02131.csv
	Karesuando_02080.csv
	Karesuando_A_02081.csv
	Karlsborg_02544.csv
	Karlskrona_Soderstjerna_02667.csv
	Karlskrona_Sol_02665.csv
	Karlstad_Aut_02415.csv
	Karlstad_Flygplats_02418.csv
	Karlstad_Sol_02419.csv
	Katterjakk_02020.csv
	Katterjakk_A_02019.csv
	Kerstinbo_A_02482.csv
	Kettstaka_A_02554.csv
	Kilsbergen_Suttarboda_A_02452.csv
	Kiruna_Flygplats_02044.csv
	Kiruna_Sol_02045.csv
	Klimpfjall_02108.csv
	Kloten_A_02431.csv
	Klovsjo_02323.csv
	Klovsjohojden_A_02325.csv
	Kolmarden_Stromsfors_A_02558.csv
	Kompelusvaara_02088.csv
	Korpilombolo_M_02190.csv
	Korsvattnet_A_02221.csv
	Kosta_02661.csv
	Kramfors_Gistgardson_02259.csv
	Krangede_A_02247.csv
	Kristianstad_02649.csv
	Kristianstad_Everod_02651.csv
	Kroppefjall_Granan_A_02540.csv
	Kuggoren_A_02355.csv
	Kullen_02606.csv
	Kvarn_02561.csv
	Kvarnberg_D_02326.csv
	Kvikkjokk_Arrenjarka_02120.csv
	Kvikkjokk_Arrenjarka_A_02119.csv
	Kymbo_V_02553.csv
	Lainio_02086.csv
	Lakatrask_A_02174.csv
	Landsort_02582.csv
	Landsort_A_02567.csv
	Lannavaara_D_02084.csv

	Latnivaara_A_02038.csv
	Lillviken_Roparudden_V_02130.csv
	Linkoping_Malmslatt_02562.csv
	Ljungby_A_02622.csv
	Ljungbyhed_02630.csv
	Ljungskile_02510.csv
	Lofsdalen_02314.csv
	Lulea_Kallax_Flygplats_02186.csv
	Lulea_Sol_02183.csv
	Lund_02631.csv
	Lund_LTH_02627.csv
	Lund_Sol_02633.csv
	Lungo_A_02382.csv
	Lycksele_A_02261.csv
	Mala_Brannan_A_02147.csv
	Malexander_02564.csv
	Malexander_A_02552.csv
	Malilla_02566.csv
	Malilla_A_02565.csv
	Malmberget_02048.csv
	Malmo_A_02635.csv
	Malmo_Sturup_Flygplats_02636.csv
	Malung_02410.csv
	Malung_A_02407.csv
	Markaryd_02624.csv
	Maseskar_02508.csv
	Maseskar_A_02505.csv
	Mattmar_V_02216.csv
	Mierkenis_A_02121.csv
	Mierkenis_Aut_02007.csv
	Mockfjard_02420.csv
	Molkom_02416.csv
	Molla_02524.csv
	Mora_A_02441.csv
	Morsil_02218.csv
	Mosekalla_02104.csv
	Mossen_02577.csv
	Muodoslompolo_02092.csv
	Myrheden_02156.csv
	Naimakka_02060.csv
	Naimakka_A_02055.csv
	Nassjo_02555.csv
	Nasudden_Aut_02599.csv
	Nattavaara_A_02161.csv
	Nattavaara_by_02160.csv
	Naven_A_02403.csv
	Nedre_Soppero_V_02054.csv
	Nidingen_A_02518.csv

	Nikkaluokta_A_02036.csv
	Nordkoster_A_02500.csv
	Nordkoster_Sol_02503.csv
	Nordmaling_02276.csv
	Norraker_D_02232.csv
	Norrberg_Norrhog_V_02337.csv
	Norrkoping_Kungsangen_02571.csv
	Norrkoping_SMHI_02574.csv
	Norrkoping_Sol_02071.csv
	Norrkoping_Sorby_02570.csv
	Norrtalje_Vasby_02480.csv
	Norsjo_02270.csv
	Norsjo_A_02271.csv
	Nykopings_Flygplats_02572.csv
	Olandsbron_V_02646.csv
	Olands_norra_udde_02592.csv
	Olands_norra_udde_A_02575.csv
	Olands_sodra_grund_Aut_02685.csv
	Olands_sodra_udde_02676.csv
	Olands_sodra_udde_A_02644.csv
	Orby_02528.csv
	Orebro_D_02436.csv
	Orebro_Flygplats_02432.csv
	Orja_Aut_02610.csv
	Ornskoldsviks_Flygplats_02267.csv
	Orskar_A_02488.csv
	Osby_02626.csv
	Oskarsgrundet_Aut_02614.csv
	Ostergarnsholm_A_02598.csv
	Ostersund_02227.csv
	Ostersund_Froson_Flygplats_02226.csv
	Ostersund_Sol_02229.csv
	Ostmark_Lambacken_02400.csv
	Overkalix_Svartbyn_02182.csv
	Overkalix_Svartbyn_A_02181.csv
	Paharova_A_02184.csv
	Pajala_02096.csv
	Pajala_A_02095.csv
	Palkem_M_02164.csv
	Parkalompolo_A_02072.csv
	Petistrask_A_02282.csv
	Pite_Ronnskar_A_02176.csv
	Rangedala_A_02536.csv
	Rensjon_A_02031.csv
	Riddarhyttan_02434.csv
	Ringhals_Aut_02519.csv
	Ristrask_V_02256.csv
	Ritsem_02012.csv

	Ritsem_A_02013.csv
	Rodkallen_A_02188.csv
	Roma_Aut_02597.csv
	Roma_V_02595.csv
	Ronneby_Bredakra_02664.csv
	Rorbacksnas_02306.csv
	Rynge_V_02609.csv
	Saittarova_A_02064.csv
	Sala_A_02481.csv
	Salen_Hogfjallet_V_02311.csv
	Sandhammaren_02656.csv
	Sarna_A_02316.csv
	Satenas_02520.csv
	Satis_02025.csv
	Save_02512.csv
	Saxnas_V_02233.csv
	Sillre_V_02349.csv
	Singo_02474.csv
	Skagsudde_02278.csv
	Skagsudde_A_02269.csv
	Skara_02533.csv
	Skarpo_A_02487.csv
	Skelleftea_02291.csv
	Skelleftea_Flygplats_02293.csv
	Skeppsmora_V_02472.csv
	Skillinge_A_02625.csv
	Smogen_02506.csv
	Smygehuk_02638.csv
	Snavlunda_D_02541.csv
	Soderarm_A_02493.csv
	Soderhamn_A_02378.csv
	Stabbo_02580.csv
	Stalldalen_02424.csv
	Staloluokta_02006.csv
	Stekenjokk_A_02102.csv
	Stensele_02127.csv
	Stenshuvud_02654.csv
	Stenudden_02122.csv
	Stockholm_Arlanda_Flygplats_02460.csv
	Stockholm_Bromma_Flygplats_02464.csv
	Stockholm_Observatoriekullen_02485.csv
	Stockholm_Observatoriekullen_A_02484.csv
	Stockholm_Sol_02483.csv
	Stora_Karlso_02594.csv
	Stora_Sjofallet_A_02024.csv
	Stora_Spansberget_A_02468.csv
	Stora_Stensjon_Aut_02223.csv
	Storberg_02136.csv

	Storbo_V_02302.csv
	Storlien_Storvallen_02206.csv
	Storlien_Storvallen_A_02207.csv
	Storlien_Visjovalen_Sol_02205.csv
	Storohamn_02198.csv
	Storon_A_02191.csv
	Storsjo_Kapell_02310.csv
	Stromsund_02234.csv
	Sudok_02152.csv
	Sundsvall_02369.csv
	Sundsvall_Rasta_V_02354.csv
	Sundsvall_Timra_Flygplats_02366.csv
	Sunne_A_02423.csv
	Svanberga_A_02490.csv
	Svarteborg_02504.csv
	Sveg_A_02327.csv
	Sveg_Eggarna_02324.csv
	Svenska_Bjorn_Aut_02495.csv
	Svenska_Hogarna_02496.csv
	Svenska_Hogarna_A_02498.csv
	Svenska_Hogarna_Sol_02492.csv
	Sydostbrotten_Aut_02289.csv
	Sylarna_A_02209.csv
	Tandadalen_Aut_02318.csv
	Tannas_A_02308.csv
	Tarfala_A_02029.csv
	Tarfala_Sol_02028.csv
	Tjakaape_02141.csv
	Tomtabacken_A_02549.csv
	Tornehamn_Aut_02023.csv
	Tornetrask_02032.csv
	Torpshammar_A_02343.csv
	Torslanda_02514.csv
	Torup_02620.csv
	Torup_A_02618.csv
	Trollhattans_Flygplats_02523.csv
	Trubaduren_Aut_02517.csv
	Tullinge_A_02469.csv
	Ullared_A_02539.csv
	Umea_Flygplats_02286.csv
	Umea_Sol_02283.csv
	Understen_02473.csv
	Ungskar_02666.csv
	Uppsala_Aut_02462.csv
	Uppsala_Flygplats_02458.csv
	Utklippan_A_02632.csv
	Uto_02581.csv
	Utvalnas_Aut_02454.csv

	Vaderoarna_A_02501.csv
	Vajmat_V_02146.csv
	Varberg_02529.csv
	Vasteras_Hasslo_02446.csv
	Vasterplana_02532.csv
	Vastervik_02576.csv
	Vastmarkum_A_02260.csv
	Vastra_Banken_Aut_02451.csv
	Vaxjo_A_02648.csv
	Vaxjo_D_02640.csv
	Vaxjo_Kronoberg_02641.csv
	Vaxjo_Sol_02643.csv
	Vidsel_02154.csv
	Vilhelmina_A_02245.csv
	Villingsberg_02425.csv
	Vindel_Bjorkheden_02116.csv
	Vindeln_Sunnansjonas_02274.csv
	Vinga_A_02516.csv
	Vingaker_D_02438.csv
	Vintjarn_02442.csv
	Visby_Flygplats_02590.csv
	Visby_Sol_02091.csv
	Visingso_A_02548.csv
	Vuoggatjalme_02112.csv
	Ylinenjarvi_A_02199.csv
	Ystad_02639.csv
	Zinkgruvan_02560.csv

Switzerland, 1991-2020 Climatological Normals

The WMO Member provided data for 85 stations in individual CSV files. Additional information from the WMO Member is provided below the table.

Excel Files	CSV Files
N/A	AadorfTaenikon_06679.csv
	AcquarossaComprovasco_06756.csv
	Adelboden_06735.csv
	Aigle_06712.csv
	Altdorf_06672.csv
	Andermatt_06695.csv
	Arosa_06785.csv
	BadRagaz_06686.csv
	BaselBinningen_06601.csv
	BernZollikofen_06631.csv
	BlattenLoetschental_06725.csv
	BuchsAarau_06633.csv
	Buffalora_06778.csv
	BulletLaFretaz_06619.csv
	Chasseral_06605.csv
	ChateaudOex_06627.csv
	Chaumont_06608.csv
	Chur_06786.csv
	Cimetta_06759.csv
	ColduGrandStBernard_06717.csv
	Davos_06784.csv
	Delemont_06602.csv
	Disentis_06782.csv
	EbnatKappel_06693.csv
	Einsiedeln_06675.csv
	Elm_06682.csv
	Engelberg_06655.csv
	EvoleneVilla_06722.csv
	Fahy_06616.csv
	FribourgGrangeneuve_06625.csv
	GeneveCointrin_06700.csv
	Glarus_06685.csv
	Graechen_06728.csv
	GrimselHospiz_06744.csv
	Grono_06758.csv
	GuetschAndermatt_06750.csv
	Guettingen_06621.csv
	Hallau_06624.csv
	Hoernli_06689.csv
	Interlaken_06734.csv
	Jungfraujoch_06730.csv
	Koppigen_06635.csv

	LaBrevine_06617.csv
	LaChauxdeFonds_06612.csv
	LaDole_06702.csv
	LangnauiE_06638.csv
	LeMoleson_06609.csv
	LocarnoMonti_06760.csv
	Lugano_06770.csv
	Luzern_06650.csv
	MagadinoCadenazzo_06762.csv
	Meiringen_06637.csv
	Montana_06724.csv
	Napf_06639.csv
	Neuchatel_06604.csv
	NyonChangins_06705.csv
	Payerne_06610.csv
	Pilatus_06659.csv
	Piotta_06753.csv
	PizCorvatsch_06791.csv
	Plaffeien_06628.csv
	PoschiavoRobbia_06794.csv
	Pully_06711.csv
	Ruenenberg_06645.csv
	Saentis_06680.csv
	SalenReutenen_06623.csv
	Samedan_06792.csv
	SBernardino_06783.csv
	Schaffhausen_06620.csv
	Scuol_06798.csv
	SeglMaria_06779.csv
	Sion_06720.csv
	Stabio_06771.csv
	StaMariaValMuestair_06796.csv
	StGallen_06681.csv
	Ulrichen_06745.csv
	Vaduz_06990.csv
	Visp_06727.csv
	Waedenswil_06673.csv
	Weissfluhjoch_06780.csv
	Wynau_06643.csv
	Zermatt_06748.csv
	ZuerichAffoltern_06664.csv
	ZuerichFluntern_06660.csv
	ZuerichKloten_06670.csv

Explanatory Notes WMO Climate Normals 1991-2020 Switzerland

1. The calculation of the climate normals is based on *WMO Guidelines on the Calculation of Climate Normals, WMO-Nr. 1203 (2017)*. Data completeness and calculation methods are in accordance with the guidelines and normals are only available if the data completeness criteria of the underlying series have been met.

2. The meteorological measurement data of MeteoSwiss are subjected to a routine and thorough data quality control. Erroneous data are corrected and smaller measurement gaps are filled by established interpolation methods following the *WMO Guide to Climatological Practices (2011)*.

3. Homogenization was conducted for temperature, precipitation, sunshine duration, air pressure, vapour pressure and wind speed series. The homogenization ensures the comparability of historical values based on 3 observations per day and the values of the automated measuring network based on 10-minute measurements. Therefore, homogeneous data series were available for the calculation of the climate normals 1991-2020 for most of the WMO parameters. However, non-homogenized measurement series had to be used for the following parameters:

    a. Relative_Humidity_%

    b. Snowfall_cm

    c. Number_of_Days_with_Snow_Depth_>_X_cm

    d. Number_of_Days_with_Wind_Speed_>=_X_m/s

    e. Number_of_Days_with_Visibility_<_X_m

The homogenization method used at MeteoSwiss is described and published in *Begert M, Schlegel T, Kirchhofer W. 2005. Homogeneous temperature and precipitation series of Switzerland from 1864 to 2000. Int. J. Climatol. 25: 65-80.*

4. Normals of Mean_Sea_Level_Pressure_hPa were derived from the normals of Mean_Station-Level_Pressure_hPa, as only air pressure series on station level are homogenized. Differences between these reduced normals are small compared to normals calculated from reduced air pressure series and are mostly less than 0.1 hPa.

5. Since all meteorological stations of MeteoSwiss are automated today, the daily values are generally calculated as means/sums of the 10-minute values between 00 and 00 UTC. However, for historical reasons and for comparison with manual observations still in operation, the daily values of precipitation and snowfall are sums between 6 UTC and 6 UTC of the following day.

6. Vapour pressure (e; hPa) is calculated on the basis of 10-minute values from relative humidity (U; %) and temperature (T; 0.1°C) using the formula

where a=17.368, b=2388.3 and c=0.06107 if T ≥ 0°C and a=17.856, b=2455.2 and c=0.06108 if T < 0°C.

Syria, 1991-2020 Climatological Normals

The WMO Member provided data for five (5) stations in individual Excel files. NCEI converted the Excel files to Comma Separated Values (CSV) files to aid in quality control, mapping, and comparison to Normals from other countries.

The original Excel files are provided along with the CSV files.

Excel Files	CSV Files
AleppoIntAeroport_40007.xls BaselAssadIntAirport_40025.xls DamaskusIntAirport_40080.xls KAMISHLI_40001.xls SALAMYA_40029.xls	AleppointAeroport_40007.csv BaselAssadIntAirport_40025.csv DamaskusIntAirport_40080.csv KAMISHLI_40001.csv SALAMYA_40029.csv

Turkiye, 1991-2020 Climatological Normals

The WMO Member provided data for 213 stations in individual CSV files.

Excel Files	CSV Files
N/A	Acipayam_17890.csv
	Adana_Bolge_17351.csv
	Adiyaman_17265.csv
	Afyonkarahisar_Bolge_17190.csv
	Agri_17099.csv
	Ahlat_17810.csv
	Akcakale_17980.csv
	Akcakoca_17015.csv
	Akhisar_17184.csv
	Aksaray_17192.csv
	Aksehir_17239.csv
	Alanya_17310.csv
	Amasya_17085.csv
	Anamur_17320.csv
	Ankara_Bolge_17130.csv
	Antakya_17372.csv
	AntalyaHavalimani_17300.csv
	Arapgir_17764.csv
	Ardahan_17046.csv
	Artvin_17045.csv
	Aydin_17234.csv
	Ayvalik_17175.csv
	Bafra_17622.csv
	BalikesirGonen_17674.csv
	BalikesirHavalimani_17150.csv
	Bandirma_17114.csv
	Bartin_17020.csv
	Baskale_17880.csv
	Baskil_17843.csv
	Batman_17282.csv
	Bayburt_17089.csv
	Bergama_17742.csv
	Beypazari_17680.csv
	Beysehir_17242.csv
	Bilecik_17120.csv
	Bingol_17203.csv
	Birecik_17966.csv
	Bitlis_17208.csv
	Bodrum_17290.csv
	Bogazliyan_17760.csv
	Bolu_17070.csv
	Bozcaada_17111.csv
	Burdur_17238.csv

	Burhaniye_17722.csv
	Bursa_17116.csv
	Canakkale_17112.csv
	Cankiri_17080.csv
	Cemisgezek_17768.csv
	Cermik_17874.csv
	Cesme_17221.csv
	Ceyhan_17960.csv
	CeylanpinarTigem_17968.csv
	Cicekdagi_17732.csv
	Cide_17604.csv
	Cihanbeyli_17191.csv
	Cizre_17950.csv
	Corlu_17054.csv
	Corum_17084.csv
	Cumra_17900.csv
	Dalaman_17294.csv
	Datca_17297.csv
	Denizli_17237.csv
	Dikili_17180.csv
	Dinar_17862.csv
	Divrigi_17734.csv
	DiyarbakirHavalimani_17280.csv
	Dogansehir_17872.csv
	Dogubeyazit_17720.csv
	Dortyol_17962.csv
	Dursunbey_17700.csv
	Duzce_17072.csv
	Edirne_17050.csv
	Edremit_17145.csv
	Egirdir_17882.csv
	Elazig_Bolge_17201.csv
	Elbistan_17870.csv
	Elmali_17952.csv
	Emirdag_17752.csv
	Ercis_17784.csv
	Erdemli_17958.csv
	Eregli_17248.csv
	Ergani_17847.csv
	Erzincan_17094.csv
	ErzurumHavalimani_17096.csv
	Eskisehir_Bolge_17126.csv
	Fethiye_17296.csv
	Finike_17375.csv
	Florya_17636.csv
	Gaziantep_17261.csv
	Gazipasa_17974.csv
	Gediz_17750.csv

	Gemerek_17162.csv
	Geyve_17662.csv
	Giresun_17034.csv
	Gokceada_17110.csv
	Goksun_17866.csv
	Gumushane_17088.csv
	Guney_17824.csv
	Hakkari_17285.csv
	Hinis_17740.csv
	Hopa_17042.csv
	Horasan_17690.csv
	Igdir_17100.csv
	Ilgin_17832.csv
	Inebolu_17024.csv
	Ipsala_17632.csv
	Iskenderun_17370.csv
	Islahiye_17965.csv
	Isparta_17240.csv
	Ispir_17666.csv
	Izmir_Bolge_17220.csv
	Kahramanmaras_17255.csv
	Kahta_17910.csv
	KaleDemre_17970.csv
	Kaman_17756.csv
	Kangal_17762.csv
	Karabuk_17077.csv
	Karaisali_17936.csv
	Karakocan_17774.csv
	Karaman_17246.csv
	Karapinar_17902.csv
	Karatas_17981.csv
	Kars_17097.csv
	Kas_17380.csv
	Kastamonu_17074.csv
	Kayseri_Bolge_17196.csv
	Kilis_17262.csv
	Kirikkale_17135.csv
	Kirklareli_17052.csv
	Kirsehir_17160.csv
	Kizilcahamam_17664.csv
	Kocaeli_17066.csv
	KonyaHavalimani_17244.csv
	Korkuteli_17926.csv
	Koycegiz_17924.csv
	Kozan_17908.csv
	Kulu_17754.csv
	Kusadasi_17232.csv
	Kutahya_17155.csv

	LuleburgazTigem_17631.csv
	Malatya_17199.csv
	Malazgirt_17780.csv
	Malkara_17634.csv
	Manavgat_17954.csv
	Manisa_17186.csv
	Mardin_17275.csv
	Marmaris_17298.csv
	Mersin_17340.csv
	Merzifon_17083.csv
	Milas_17884.csv
	Mugla_17292.csv
	MuradiyeVan_17786.csv
	Mus_17204.csv
	Mut_17956.csv
	Nallihan_17679.csv
	Nazilli_17860.csv
	Nevsehir_17193.csv
	Nigde_17250.csv
	Odemis_17822.csv
	Oltu_17668.csv
	Ordu_17033.csv
	Osmancik_17652.csv
	Osmaniye_17355.csv
	Ozalp_17812.csv
	Palu_17806.csv
	Polatli_17728.csv
	Rize_17040.csv
	RizePazar_17628.csv
	Sakarya_17069.csv
	Salihli_17792.csv
	Samandag_17986.csv
	Samsun_Bolge_17030.csv
	Sanliurfa_17270.csv
	Sarikamis_17692.csv
	Sariyer_17061.csv
	SariyerKumkoyKilyos_17059.csv
	Sariz_17840.csv
	Sebinkarahisar_17682.csv
	Seferihisar_17820.csv
	Selcuk_17854.csv
	Senirkent_17826.csv
	Seydisehir_17898.csv
	Siirt_17210.csv
	Sile_17610.csv
	Silifke_17330.csv
	Simav_17748.csv
	Sinop_17026.csv

	Sivas_17090.csv
	Siverek_17912.csv
	Solhan_17776.csv
	Tavsanli_17704.csv
	Tefenni_17892.csv
	Tekirdag_17056.csv
	Tercan_17718.csv
	Tokat_17086.csv
	Tortum_17688.csv
	Tosya_17650.csv
	Trabzon_Bolge_17037.csv
	Tunceli_17165.csv
	Ulukisla_17906.csv
	Unye_17624.csv
	Usak_17188.csv
	Uzunkopru_17608.csv
	Van_Bolge_17172.csv
	Yalova_17119.csv
	Yatagan_17886.csv
	Yozgat_17140.csv
	Yuksekova_17920.csv
	Yumurtalik_17979.csv
	Yunak_17798.csv
	Zara_17716.csv
	Zile_17681.csv
	Zonguldak_17022.csv

UK, 1991-2020 Climatological Normals

The WMO Member provided data for 95 stations in individual CSV files.

Users are asked to note that station latitude and longitude were provided in decimal degrees. To match the prescribed WMO format NCEI converted the values to degrees, minutes and seconds.

Excel Files	CSV Files
N/A	Aberdaron_03405.csv
	Aberporth_03502.csv
	Aldergrove_03917.csv
	AultbeaNo2_03034.csv
	Aviemore_03063.csv
	Bala_03409.csv
	BallypatrickForest_03916.csv
	BaltasoundNo2_03002.csv
	Benson_03658.csv
	Bingley_03344.csv
	Blackpool_03318.csv
	BoscombeDown_03746.csv
	Boulmer_03240.csv
	BridlingtonMrsc_03292.csv
	BrizeNorton_03649.csv
	Camborne_03808.csv
	Carlisle_03220.csv
	Charterhall_03158.csv
	Chivenor_03707.csv
	ChurchLawford_03544.csv
	Coningsby_03391.csv
	Cranwell_03379.csv
	Crosby_03316.csv
	Culdrose_03809.csv
	Drumalbin_03155.csv
	Dundrennan_03153.csv
	DunkeswellAerodrome_03840.csv
	Dyce_03091.csv
	EastMalling_03790.csv
	Eskdalemuir_03162.csv
	FairIsle_03008.csv
	Fylingdales_03281.csv
	GlenanneNo2_03923.csv
	HawardenAirport_03321.csv
	Heathrow_03772.csv
	Herstmonceux_03882.csv
	HolbeachNo2_03469.csv
	Hurn_03862.csv

	IsleOfPortland_03857.csv
	KenleyAirfield_03781.csv
	Keswick_03212.csv
	Kinloss_03066.csv
	Kirkwall_03017.csv
	Larkhill_03743.csv
	Leconfield_03382.csv
	Leeming_03257.csv
	Lerwick_03005.csv
	Leuchars_03171.csv
	LintonOnOuse_03266.csv
	London_03770.csv
	Lossiemouth_03068.csv
	LoughFea_03911.csv
	Lyneham_03740.csv
	Machrihanish_03111.csv
	Manston_03797.csv
	Marham_03482.csv
	MiddleWallop_03749.csv
	MilfordHavenConservancyBoard_03604.csv
	MumblesHead_03609.csv
	Northolt_03672.csv
	Nottingham_03354.csv
	Odiham_03761.csv
	PembreySands_03605.csv
	Plymouth_03827.csv
	Portglenone_03915.csv
	Prestwick_03136.csv
	RhylNo2_03313.csv
	Ronaldsway_03204.csv
	Rothamsted_03680.csv
	ScillyStMarysAirport_03803.csv
	Shap_03225.csv
	Shawbury_03414.csv
	ShobdonAirfield_03520.csv
	Shoeburyness_03693.csv
	SouthFarnborough_03768.csv
	SpadeadamNo2_03224.csv
	StBeesHeadNo2_03210.csv
	StornowayAirport_03026.csv
	StrathallanAirfield_03144.csv
	TainRange_03062.csv
	ThorneyIsland_03872.csv
	Tiree_03100.csv
	Trawsgoed_03503.csv
	TullochBridge_03047.csv
	Valley_03302.csv
	Waddington_03377.csv

	WalneyIsland_03214.csv
	WarcopRange_03226.csv
	Wattisham_03590.csv
	WestFreugh_03132.csv
	Weybourne_03488.csv
	WickAirport_03075.csv
	WightStCatherinesPoint_03866.csv
	Wittering_03462.csv
	Yeovilton_03853.csv

Ukraine, 1991-2020 Climatological Normals

The WMO Member provided data for 47 stations in individual CSV files.

Users are asked to note that one station (Ivano-Frankivsk_33526) had no Normals data and was removed from publication.

Excel Files	CSV Files
N/A	AI-PETRI_33998.csv
	ASKANIIA-NOVA_33915.csv
	CHERNIHIV_33135.csv
	CHERNIVTSI_33658.csv
	DNIPRO_34504.csv
	DONETSK_34519.csv
	FEODOSIIA_33976.csv
	HAIVORON_33686.csv
	HENICHESK_33910.csv
	IZMAIL_33889.csv
	KHARKIV_34300.csv
	KHERSON_33902.csv
	KHMELNYTSKYI_33429.csv
	KLEPYNINE_33939.csv
	KOMISARIVKA_33723.csv
	KOVEL_33173.csv
	KROPYVNYTSKYI_33711.csv
	KRYVYI-RIH_33791.csv
	KYIV_33345.csv
	KYRYLIVKA_34609.csv
	LIUBASHIVKA_33761.csv
	LOZOVA_34409.csv
	LUBNY_33377.csv
	LUHANSK_34523.csv
	LUTSK_33187.csv
	LVIV_33393.csv
	NIKOPOL_33805.csv
	ODESA_33837.csv
	OVRUCH_33213.csv
	POLTAVA_33506.csv
	RIVNE_33301.csv
	ROMNY_33268.csv
	ROZDILNA_33834.csv
	SARATA_33896.csv
	SARNY_33088.csv
	SIMFEROPOL_33955.csv
	SUMY_33275.csv
	TERNOPIL_33415.csv

	UMAN_33587.csv UZHHOROD_33631.csv VINNYTSIA_33562.csv YALTA_33990.csv ZAPORIZHZHIA_34601.csv ZHYTOMYR_33325.csv ZNAMIANKA_33609.csv ZOLOTONOSHA_33484.csv