Armenia, 1991-2020 Climatological Normals

Explanatory Information

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
	ljevan_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

Explanatory Information

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

Explanatory Information

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

Explanatory Information

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

Explanatory Information

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	BUGOJNO_14544.csv
MOSTAR_14648.xls	MOSTAR_14648.csv
SANSKI_MOST_14537.xls	SANSKI_MOST_14537.csv
SARAJEVO_14654.xls	SARAJEVO_14654.csv
TUZLA_14557.xls	TUZLA_14557.csv

Bulgaria, 1991-2020 Climatological Normals

Explanatory Information

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

Explanatory Information

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

Dear All,

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.

Best regards, Tanja Likso, PhD

Head of Data Processing and Management Department Croatian Meteorological and Hydrological Service

Cyprus, 1991-2020 Climatological Normals

Explanatory Information

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:

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.

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

Explanatory Information

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

Explanatory Information

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

Explanatory Information

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

Explanatory Information

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

Explanatory Information

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

InarilvaloLentoasema 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

Kustavilsokari 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

 $Savon linna Punkahar ju Laukansa ari _02778.csv$

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

Explanatory Information

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
	CAP_PERTUSATO_07770.CSV CARCASSONNE 07635.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

Explanatory Information

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

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

Explanatory Information

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

 $Feldberg Mecklenburg_10282.csv$

FeldbergSchwarzwald_10908.csv

Fichtelberg_10578.csv

FrankfurtMain 10637.csv

Freiburg_10803.csv

Freudenstadt 10815.csv

Friesoythe-Altenoythe 10210.csv

FritzlarEder 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

KoelnBonn_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

Explanatory Information

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

Explanatory Information

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

Explanatory Information

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

Explanatory Information

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
Casement Aerodrome_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
Valentia Observatory_03953.xlsx	ValentiaObservatory_03953.csv

Israel, 1991-2020 Climatological Normals

Explanatory Information

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
	Beerotltzhak_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

Mikvelsrael 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

Explanatory Information

Data for 84 stations were provided by the WMO Member in individual Comma Separated Values (CSV) files.

The list of all published CSV files is provided below.

Excel Files	CSV Files
N/A	Amendola_FOGGIA_16261.csv
	Arezzo_16172.csv
	Bari_Palese_16270.csv
	Bergamo_16076.csv
	Bologna_16140.csv
	Bonifati_16337.csv
	Brescia_Ghedi_16088.csv
	Brindisi_16320.csv
	Cagliari_Elmas_16560.csv
	Campobasso_16252.csv
	Capo_Bellavista_16550.csv
	Capo_Caccia_16522.csv
	Capo_Carbonara_16564.csv
	Capo_Frasca_16539.csv
	Capo_Mele_16153.csv
	Capo_Palinuro_16310.csv
	Capo_San Lorenzo_16542.csv
	Capri_16294.csv
	Catania_Fontanarossa_16460.csv
	Catania_Sigonella_16459.csv
	Cervia_16148.csv
	Civitavecchia_16214.csv
	Cozzo_Spadaro_16480.csv
	Decimomannu_16546.csv
	Dobbiaco_16033.csv
	Enna_16450.csv
	Firenze_Peretola_16170.csv
	Frontone_16179.csv
	Frosinone_16244.csv
	Gela_16453.csv
	Genova_Sestri_16120.csv
	Gioia_del_Colle_16312.csv
	Grazzanise_16253.csv
	Grosseto_16206.csv
	Guidonia_16234.csv

Lamezia_Terme_16362.csv

Latina_16243.csv

Latronico_16316.csv

Lecce_16332.csv

Marina_di_Ginosa_16325.csv

Messina_16420.csv

Milano Linate 16080.csv

Milano_Malpensa_16066.csv

Mondovi_16114.csv

Monte Argentario 16168.csv

Monte_Calamita_16197.csv

Monte_Cimone_16134.csv

Monte_Sant_Angelo_16258.csv

Monte_Scuro_16344.csv

Monte_Terminillo_16219.csv

Napoli_Capodichino_16289.csv

Novara_Cameri_16064.csv

Olbia_16531.csv

Paganella_16022.csv

Pantelleria 16470.csv

Passo_della_Cisa_16124.csv

Passo_Rolle_16021.csv

Pescara_16230.csv

Piacenza_16084.csv

Pisa_16158.csv

Ponza_16280.csv

Pratica_di_Mare_16245.csv

Prizzi_16434.csv

Punta Marina 16146.csv

Rimini_Miramare_16149.csv

Roma_Ciampino_16239.csv

Roma Fiumicino 16242.csv

Santa_Maria_di_Leuca_16360.csv

San_Valentino_alla_Muta_16008.csv

Sarzana_Luni_16125.csv

Tarvisio_16040.csv

Termoli_16232.csv

Torino_Bric_16061.csv

Trapani_Birgi_16429.csv

Trevico_16263.csv

Treviso_Istrana_16098.csv

Treviso_Sant_Angelo_16099.csv

Trieste_16110.csv

Udine_Rivolto_16045.csv

Ustica_16400.csv
Venezia_Tessera_16105.csv
Verona_Villafranca_16090.csv
Vigna_di_Valle_16224.csv
Viterbo_16216.csv

Latvia, 1991-2020 Climatological Normals

Explanatory Information

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

Explanatory Information

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 Ville (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

Explanatory Information

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

Explanatory Information

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 (Ta) Deg C

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

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

Explanatory Information

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
	Lichteiland Goeree_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

Explanatory Information

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

CSV Files
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

SV(01) / A ER . LLIETLIA / (AL . 04.4.6)

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

Explanatory Information

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

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

Romania, 1991-2020 Climatological Normals

Explanatory Information

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
	lasi_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

Explanatory Information

The WMO Member provided data for 53 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
	Feodosiia_33976.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

Explanatory Information

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	Beograd_13274.csv
Nis_13388.xls	Nis_13388.csv
NoviSad_13168.xls	NoviSad_13168.csv

Slovakia, 1991-2020 Climatological Normals

Explanatory Information

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

Explanatory Information

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 minimum 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

Explanatory Information

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
	GRANADAAEROPUERTO 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
	IVIADRIDDARAJAS_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

Explanatory Information

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

Explanatory Information

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
	Cimetta 06759.csv
	ColduGrandStBernard_06717.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 \geq 0°C and a=17.856, b=2455.2 and c=0.06108 if T < 0°C.

Syria, 1991-2020 Climatological Normals

Explanatory Information

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	AleppointAeroport_40007.csv
Basel Assad Int Airport_40025.xls	BaselAssadIntAirport_40025.csv
DamaskusIntAirport_40080.xls	DamaskusIntAirport_40080.csv
KAMISHLI_40001.xls	KAMISHLI_40001.csv
SALAMYA_40029.xls	SALAMYA_40029.csv

Turkiye, 1991-2020 Climatological Normals

Explanatory Information

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

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
Adiyaman_17265.csv Afyonkarahisar_Bolge_17190.csv Agri_17099.csv Ahlat_17810.csv Akcakale_17980.csv Akcakoca_17015.csv Akhisar_17184.csv
Afyonkarahisar_Bolge_17190.csv Agri_17099.csv Ahlat_17810.csv Akcakale_17980.csv Akcakoca_17015.csv Akhisar_17184.csv
Agri_17099.csv Ahlat_17810.csv Akcakale_17980.csv Akcakoca_17015.csv Akhisar_17184.csv
Ahlat_17810.csv Akcakale_17980.csv Akcakoca_17015.csv Akhisar_17184.csv
Akcakale_17980.csv Akcakoca_17015.csv Akhisar_17184.csv
Akcakoca_17015.csv Akhisar_17184.csv
Akhisar_17184.csv
_
Aksaray 17192 csy
/ (Koara / _ 1 / 15 2 105)
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

Explanatory Information

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

Locanfield 02202 cs

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

Explanatory Information

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

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
	Ivano_Frankivsk_33526.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
	Lozova_34409.csv
	Lubashivka_33761.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
	Sumny_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	