## **Bahrain, 1991-2020 Climatological Normals**

## **Explanatory Information**

The WMO member provided data for one (1) station in an Excel file. NCEI converted this file to a Comma Separated Values (CSV) file to aid in quality control, mapping, and comparison to Normals from other countries.

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

Excel Files	CSV Files
BahrainInternationalAirport_41150.xlsx	BahrainInternationalAirport_41150.csv

## Bangladesh, 1991-2020 Climatological Normals

## **Explanatory Information**

The WMO member provided data for 35 stations in individual Excel files. NCEI converted these files to Comma Separated Values (CSV) files to aid in quality control, mapping, and comparison to Normals from other countries.

No changes were made to the CSV files provided by the WMO Member. Additional information from the WMO Member is provided below the table of files.

Excel Files	CSV Files
Ambagan_CTG_41977.xlsx	Ambagan_CTG_41977.csv
Barishal_41950.xlsx	Barishal_41950.csv
Bhola_41951.xlsx	Bhola_41951.csv
Bogra_41883.xlsx	Bogra_41883.csv
Chandpur_41941.xlsx	Chandpur_41941.csv
Chittagong_41978.xlsx	Chittagong_41978.csv
Chuadanga_41926.xlsx	Chuadanga_41926.csv
Comilla_41933.xlsx	Comilla_41933.csv
Coxs_Bazar_41992.xlsx	Coxs_Bazar_41992.csv
Dhaka_41923.xlsx	Dhaka_41923.csv
Dinajpur_41863.xlsx	Dinajpur_41863.csv
Faridpur_41929.xlsx	Faridpur_41929.csv
Feni_41943.xlsx	Feni_41943.csv
Hatia_41963.xlsx	Hatia_41963.csv
Ishwardi_41907.xlsx	lshwardi_41907.csv
Jessore_41936.xlsx	Jessore_41936.csv
Khepupara_41984.xlsx	Khepupara_41984.csv
Khulna_41947.xlsx	Khulna_41947.csv
Kutubdia_41989.xlsx	Kutubdia_41989.csv
Madaripur_41239.xlsx	Madaripur_41239.csv
M.court_41953.xlsx	M_court_41953.csv
Mongla_41958.xlsx	Mongla_41958.csv
Mymensingh_41886.xlsx	Mymensingh_41886.csv
Patuakhali_41960.xlsx	Patuakhali_41960.csv
Rajshahi_41895.xlsx	Rajshahi_41895.csv
Rangamati_41966.xlsx	Rangamati_41966.csv
Rangpur_41859.xlsx	Rangpur_41859.csv
Sandwip_41964.xlsx	Sandwip_41964.csv
Satkhira_41946.xlsx	Satkhira_41946.csv
Sitakunda_41965.xlsx	Sitakunda_41965.csv
Srimangal_41915.xlsx	Srimangal_41915.csv
Syedpur_41858.xlsx	Syedpur_41858.csv

Sylhet_41891.xlsx	Sylhet_41891.csv
Tangail_41909.xlsx	Tangail_41909.csv
Teknaf_41998.xlsx	Teknaf_41998.csv

## China, 1991-2020 Climatological Normals

## **Explanatory Information**

The WMO Member provided data for 219 stations in individual Comma Separated Values (CSV) files.

The list of all CSV files is provided below. Additional information is provided by the WMO Member below the table.

Excel Files	CSV Files
N/A	ABAG_QI_53192.csv
	AKQI_51711.csv
	ALAR_51730.csv
	ALTAY_51076.csv
	ANKANG_57245.csv
	ANQING_58424.csv
	ARXAN_50727.csv
	BACHU_51716.csv
	BAISE_59211.csv
	BARKAM_56172.csv
	BATANG_56247.csv
	BAYANBULAK_51542.csv
	BAYAN_MOD_52495.csv
	BEIHAI_59644.csv
	BEIJING_54511.csv
	BENGBU_58221.csv
	BOXIAN_58102.csv
	BUGT_50632.csv
	CHANGCHUN_54161.csv
	CHANGDE_57662.csv
	CHANGSHA_57687.csv
	CHENGDE_54423.csv
	CHENGSHANTOU_54776.csv
	CHENZHOU_57972.csv
	CHIFENG_54218.csv
	CHONGQING_57516.csv
	DACHEN_DAO_58666.csv
	DALI_56751.csv
	DALIAN 54662.csv
	DANDONG_54497.csv
	DA_QAIDAM_52713.csv
	DARLAG_56046.csv
	DA_XIAN_57328.csv
	DEGE_56144.csv
	DELINGHA_52737.csv

DENGQEN\_56116.csv

DEQEN\_56444.csv

DINGHAI\_58477.csv

DINGTAO\_54909.csv

DONGFANG\_59838.csv

DONGSHENG\_53543.csv

DONGTAI\_58251.csv

DOULAN\_52836.csv

DUOLUN\_54208.csv

ENSHI 57447.csv

ERENHOT\_53068.csv

FUJIN\_50788.csv

FUYANG 58203.csv

FUYUN\_51087.csv

FUZHOU\_58847.csv

GANGCA\_52754.csv

GANYU\_58040.csv

GANZHOU\_57993.csv

GAOPING\_57411.csv

GOLMUD\_52818.csv

GUAIZIHU 52378.csv

GUANGNAN\_59007.csv

GUANGZHOU\_59287.csv

GUILIN\_57957.csv

GUIYANG\_57816.csv

HAIKOU\_59758.csv

HAILS\_53231.csv

HAILUN\_50756.csv

HALIUT 53336.csv

HAMI\_52203.csv

HANGZHOU\_58457.csv

HANZHONG 57127.csv

HARBIN\_50953.csv

HECHI\_59023.csv

HENGCHUN\_59559.csv

HEQU\_53564.csv

HEYUAN\_59293.csv

HEZUO\_56080.csv

HOBOKSAR 51156.csv

HOHHOT\_53463.csv

HOTAN\_51828.csv

HUADE\_53391.csv

HUADIAN\_54273.csv

HUAIYIN\_58141.csv

HUOSHAN\_58314.csv

JARTAI\_53502.csv

JARUD\_QI\_54026.csv

JI\_AN\_54377.csv

JI\_AN\_57799.csv

JINAN\_54823.csv

JINGDEZHEN\_58527.csv

JINGHE\_51334.csv

JINGHE\_57131.csv

JINING 53480.csv

JINZHOU\_54337.csv

JIULONG\_56462.csv

JIUQUAN 52533.csv

JIXI\_50978.csv

KARAMAY\_51243.csv

KASHI\_51709.csv

KORLA\_51656.csv

KUNMING\_56778.csv

KUQA\_51644.csv

LAN\_YU\_59567.csv

LAOHEKOU\_57265.csv

LENGHU\_52602.csv

LETING\_54539.csv

LHASA\_55591.csv

LIJING\_56651.csv

LINCANG\_56951.csv

LINDONG\_54027.csv

LINGLING\_57866.csv

LINHE 53513.csv

LINJIANG\_54374.csv

LITANG\_56257.csv

LONGKOU 54753.csv

LONGZHOU\_59417.csv

LUSHI\_57067.csv

LUSI\_58265.csv

MADOI\_56033.csv

MANDAL\_53149.csv

MANGNAI\_51886.csv

MAZONG\_SHAN\_52323.csv

MEI\_XIAN\_59117.csv

MENGLA\_56969.csv

MENGZI\_56985.csv

MINQIN 52681.csv

MUDANJIANG\_54094.csv

NAGQU 55299.csv

NANCHANG\_58606.csv

NANJING\_58238.csv

NANNING\_59431.csv

NANYANG\_57178.csv

NARAN\_BULAG\_53083.csv

NENJIANG\_50557.csv

NYINGCHI\_56312.csv

OTOG\_QI\_53529.csv

PAGRI 55773.csv

PENGJIA\_YU\_58974.csv

PINGLIANG\_53915.csv

POTOU 54618.csv

QAMDO\_56137.csv

QIAN\_GORLOS\_50949.csv

QINGDAO\_54857.csv

QIQIHAR\_50745.csv

QITAI\_51379.csv

QUMARLEB\_56021.csv

QU\_XIAN\_58633.csv

RUIAN\_58752.csv

RUO\_ERGAI\_56079.csv

SANHU\_DAO\_59985.csv

SANYA\_59948.csv

SERTAR\_56152.csv

SHACHE\_51811.csv

SHANGHAI\_\_BAOSHAN\_58362.csv

SHANTOU\_59316.csv

SHANWEI 59501.csv

SHAOGUAN\_59082.csv

SHAOWU\_58725.csv

SHENGSI 58472.csv

SHENYANG\_54342.csv

SHEYANG\_58150.csv

SHIQUANHE\_55228.csv

SHISANJIANFANG\_51495.csv

SIMAO\_56964.csv

SONGPAN\_56182.csv

TACHENG\_51133.csv

TAIBEI 58968.csv

TAIDONG\_59562.csv

TAINAN\_59358.csv

TAIYUAN\_53772.csv

TAIZHONG\_59158.csv

TAZHONG 51747.csv

TENGCHONG\_56739.csv

TIKANLIK\_51765.csv

TINGRI\_55664.csv

TONGHE\_50963.csv

TONGLIAO\_54135.csv

TUOTUOHE\_56004.csv

TURPAN\_51573.csv

ULIASTAI\_50915.csv

WEIFANG 54843.csv

WEINING\_56691.csv

WENJIANG\_56187.csv

WEINJIANG\_50107.03V

WUDAOLIANG\_52908.csv

WUDU\_56096.csv

WUHAN\_57494.csv

WU\_LU\_MU\_QI\_51463.csv

WUTAI\_SHAN\_53588.csv

WUZHOU\_59265.csv

XIAMEN 59134.csv

XICHANG\_56571.csv

XIGAZE 55578.csv

XILIN\_HOT\_54102.csv

XIN\_BARAG\_YOUQI\_50603.csv

XINGREN\_57902.csv

XINGTAI\_53798.csv

XINING\_52866.csv

XINYANG\_57297.csv

XISHA\_DAO\_59981.csv

XI\_UJIMQIN\_QI\_54012.csv

XUZHOU\_58027.csv

YAN\_AN\_53845.csv

YANCHI 53723.csv

YANGJIANG\_59663.csv

YANJI\_54292.csv

YIBIN\_56492.csv

YICHANG\_57461.csv

YICHUN\_50774.csv

YINCHUAN\_53614.csv

YINGKOU\_54471.csv

YONG\_AN\_58921.csv

YOUYANG\_57633.csv

YULIN\_53646.csv

YUMENZHEN\_52436.csv

YUNCHENG\_53959.csv

YUSHU_56029.csv
YU_ZHONG_52983.csv
ZADOI_56018.csv
ZHANGJIAKOU_54401.csv
ZHANGWU_54236.csv
ZHANGYE_52652.csv
ZHENGZHOU_57083.csv
ZHIJIANG_57745.csv

### Additional Explanatory Information provided by the WMO Member

# **Introduction of Chinese Climatological Standard Normals**

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1991-2020 surface climate normals dataset of China provides climate background information of 219 stations. The dataset is developed based on the surface observations archived by the National Meteorological Information Centre (Figure 1).

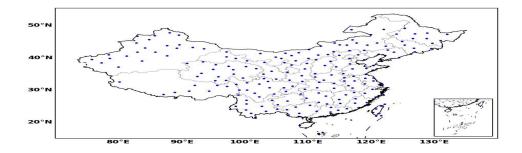


Figure 1 Locations of the 219 surface stations of Chinese climate normals dataset

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#### 1 Calculation methods

Climate normals are calculated from monthly values during the averaging periods. The detailed calculation methods are given in the Chinese national standards for the statistical method of surface climate normals (GB/T 34412-2017) and WMO Guidelines on the Calculation of Climate Normals (WMO No.1203). The calculation includes the following steps: (1) quality control of the observations and metadata; (2) subsection processing applied to relocated stations; (3) calculation of individual monthly values and annual values; (4) calculation of climate normals; (5) quality evaluation of climate normals. The subsection processing of the temperature series is completed based on the homogeneity test results. The climate series of other variables are segmented according to the station location migration information. When the station altitude changes by more than 100 meters or the location change by more than 50km during 1991-2020, the long section of the time series is selected to calculate the climate normals. If two segments are of the same length, the late segment is selected.

### **2 Climatogical Surface Parameters**

This dataset contains the mean parameter and sum parameter, extreme parameter, and Count parameter of 8 climate variables, which include temperature, precipitation, air pressure, wind direction and speed, water vapor pressure, snow, sunshine, and hail occurrence days. Parameters in the dataset are listed in Table 1.

**Table 1 Climatogical Surface Parameters** 

	Parameter_Name	Units
	Precipitation_Total	mm
	Number_of_Days_with_Precipitation_≥_1 mm	count
Principal climatological	Daily_Maximum_Temperature	Deg_C
surface	Daily_Minimum_Temperature	Deg_C
parameters	Daily_Mean_Temperature	Deg_C
	Mean_Sea_Level_Pressure	hPa
	Mean_Vapor_Pressure	hPa

	Total_Number_of_Hours_of_Sunshine	hours
	Mean_Station-Level_Pressure	hPa
	Boundaries_of_quintiles_of_monthly_precipitation	mm
	Number_of_Days_with_Maximum_Temperature_>=_30_Deg_C	count
	Number_of_Days_with_Minimum_Temperature_<=_10_Deg_C	count
	Number_of_Days_with_Maximum_Temperature_<_0_Deg_C	count
	Number_of_Days_with_Minimum_Temperature_<_0_Deg_C	count
Secondary	Number_of_Days_with_Daily_Precipitation_≥_threshold*_m m	count
climatological surface	Number_of_Days_with_Snow_Depth_>_threshold*_cm	count
parameters	Number_of_Days_with_Wind_Speed_≥_threshold*_m/s	count
	Highest_Value_of_Mean_Daily_Temperature	Deg_C
	Lowest_Value_of_Mean_Daily_Temperature	Deg_C
	Highest_Value_of_Daily_Maximum_Temperature	Deg_C
	Lowest_Value_of_Daily_Minimum_Temperature	Deg_C
	Highest_Value_of_Daily_Precipitation	mm
	Highest_Wind_Gust	m/s
	Mean_Number_of_Days_with_Hail	count

## Hong Kong, 1991-2020 Climatological Normals

#### **Explanatory Information**

The WMO Member provided data for seven (7) stations in individual Comma Separated Values (CSV) files

The list of all CSV files is provided below. Additional information is provided by the WMO Member below the table.

Excel Files	CSV Files
N/A	CheungChau_45044.csv
	HongKongObservatory_45005.csv
	KowloonKingSPark_45004.csv
	ShaTin_45039.csv
	TaKwuLing_45032.csv
	WaglanIsland_45045.csv
	WongChukHang_45043.csv

### Additional Explanatory Information provided by the WMO Member

"King's Park" (0-20008-0-HKO) and "Kowloon" (0-20000-0-45004) are referring to the same station but under two observing networks.

We reported two parameters, namely Total\_Number\_of\_Hours\_of\_Sunshine and Global Solar Radiation, for King's Park station.

**Total\_Number\_of\_Hours\_of\_Sunshine** is registered in OSCAR/Surface with station name "Kowloon" and WIGOS Station Identifier **0-20000-0-45004.** Please refer to the following link: https://oscar.wmo.int/surface/#/search/station/stationReportDetails/0-20000-0-45004

**Global\_Solar\_Radiation** is registered in OSCAR under GAW Regional program with station name "King's Park" and WIGOS Station Identifier **0-20008-0-HKO**. Please refer to the following link: <a href="https://gawsis.meteoswiss.ch/GAWSIS/index.html#/search/station/stationReportDetails/0-20008-0-HKO">https://gawsis.meteoswiss.ch/GAWSIS/index.html#/search/station/stationReportDetails/0-20008-0-HKO</a>

#### India, 1991-2020 Climatological Normals

### **Explanatory Information**

The WMO member provided data for 401 stations in individual Excel files. NCEI converted these files to Comma Separated Values (CSV) files to aid in quality control, mapping, and comparison to Normals from other countries.

Users are advised to note that for high elevation stations in India, the average of the geopotential height of the 850 hPa level are provided rather than Mean Sea Level field (Parameter 6). NCEI changed the Parameter Name and the Parameter number for these stations from '6' to '99' in the CSV files. These stations are identified in bold font.

The original Excel files are provided along with the CSV files produced by NCEI.

Excel Files	CSV Files
ADILABAD_43025.xlsx	ADILABAD_43025.csv
ADIRAMAPATTINAM_43348.xlsx	ADIRAMAPATTINAM_43348.csv
AGARTALA_42724.xlsx	AGARTALA_42724.csv
AGATTI_43266.xlsx	AGATTI_43266.csv
AGRA_42259.xlsx	AGRA_42259.csv
AHMEDABAD_42647.xlsx	AHMEDABAD_42647.csv
AHMEDNAGAR_43009.xlsx	AHMEDNAGAR_43009.csv
AIZAWL_42727.xlsx	AIZAWL_42727.csv
AJMER_42343.xlsx	AJMER_42343.csv
AKOLA_42933.xlsx	AKOLA_42933.csv
ALAPPUZHA_43352.xlsx	ALAPPUZHA_43352.csv
ALIBAG_43058.xlsx	ALIBAG_43058.csv
ALIGARH_42262.xlsx	ALIGARH_42262.csv
ALIRAJPUR_42753.xlsx	ALIRAJPUR_42753.csv
ALWAR_42255.xlsx	ALWAR_42255.csv
AMARAVATI_42937.xlsx	AMARAVATI_42937.csv
AMBALA_42103.xlsx	AMBALA_42103.csv
AMBIKAPUR_42693.xlsx	AMBIKAPUR_42693.csv
AMINIDIVI_43311.xlsx	AMINIDIVI_43311.csv
AMRELI_42834.xlsx	AMRELI_42834.csv
ANANTAPUR_43237.xlsx	ANANTAPUR_43237.csv
ANGUL_42969.xlsx	ANGUL_42969.csv
ARIYALUR_43324.xlsx	ARIYALUR_43324.csv
AROGYAVARAM_43271.xlsx	AROGYAVARAM_43271.csv
ASANSOL_42712.xlsx	ASANSOL_42712.csv
AURANGABAD_CHIKALTHANA_43014.xlsx	AURANGABAD_CHIKALTHANA_43014.csv
BAGALKOT_43160.xlsx	BAGALKOT_43160.csv
BAGATI_42714.xlsx	BAGATI_42714.csv
BAHRAICH_42273.xlsx	BAHRAICH_42273.csv
BALASORE_42895.xlsx	BALASORE_42895.csv

BALEHONNUR 43259.xlsx BALLIA MIRDHA 42384.xlsx BALURGHAT 42506.xlsx BANDA 42473.xlsx BANIHAL\_42045.xlsx BANKURA\_42706.xlsx BAPATLA 43220.xlsx BARABANKI 42370.xlsx BARAMATI\_43069.xlsx BARAPANI\_42512.xlsx BAREILLY\_42189.xlsx BARIPADA 42894.xlsx BARMER 42435.xlsx BASTI 42279.xlsx BATOTE 42043.xlsx BEED 43011.xlsx BELGAUM 43197.xlsx

BELGAUM\_AIRPORT\_43198.xlsx
BENGALURU\_43295.xlsx

BENGALURU\_HAL\_43296.xlsx BENGALURU\_KIA\_43293.xlsx BERHAMPORE\_42603.xlsx

BETUL\_42860.xlsx

BHADERWAH\_42048.xlsx

BHADRACHALAM\_KOTHAGUDAM\_43136.xlsx

BHAGALPUR\_42498.xlsx BHARATPUR\_42258.xlsx BHAVNAGAR\_42838.xlsx BHAWANIPATNA\_43042.xlsx BHILWARA\_42447.xlsx BHIND 42358.xlsx

BHIRA\_43062.xlsx BHOPAL 42667.xlsx

BHUBANESWAR\_42971.xlsx

BHUJ\_42634.xlsx

BHUNTAR\_42081.xlsx
BIDAR\_43125.xlsx
BIJAPUR\_43161.xlsx
BIKANER\_42165.xlsx
BILASPUR\_42782.xlsx
BOLANGIR\_42963.xlsx
BRAHMAPURI\_42946.xlsx
BULANDSHAHAR\_42183.xlsx

BULDHANA 42931.xlsx

BALEHONNUR\_43259.csv BALLIA\_MIRDHA\_42384.csv BALURGHAT\_42506.csv

BANDA\_42473.csv
BANIHAL\_42045.csv

BANKURA\_42706.csv

BAPATLA 43220.csv

BARABANKI 42370.csv

BARAMATI 43069.csv

BARAPANI\_42512.csv

BAREILLY 42189.csv

BARIPADA 42894.csv

BARMER 42435.csv

BASTI 42279.csv

BATOTE 42043.csv

BEED\_43011.csv

BELGAUM 43197.csv

BELGAUM AIRPORT 43198.csv

BENGALURU\_43295.csv

BENGALURU\_HAL\_43296.csv

BENGALURU KIA 43293.csv

BERHAMPORE\_42603.csv

BETUL\_42860.csv

BHADERWAH\_42048.csv

BHADRACHALAM\_KOTHAGUDAM\_43136.csv

BHAGALPUR\_42498.csv

BHARATPUR\_42258.csv

BHAVNAGAR\_42838.csv

BHAWANIPATNA 43042.csv

BHILWARA\_42447.csv

BHIND 42358.csv

BHIRA 43062.csv

BHOPAL 42667.csv

BHUBANESWAR\_42971.csv

BHUJ 42634.csv

BHUNTAR\_42081.csv

BIDAR 43125.csv

BIJAPUR\_43161.csv

BIKANER\_42165.csv BILASPUR\_42782.csv

BOLANGIR\_42963.csv

BRAHMAPURI 42946.csv

BULANDSHAHAR\_42183.csv

BULDHANA 42931.csv

BUNDI\_42450.xlsx
BURDWAN\_42709.xlsx
CANNING\_42812.xlsx
CAR\_NICOBAR\_43367.xlsx
CHAIBASA\_42795.xlsx
CHANDABALI\_42973.xlsx
CHANDIGARH\_42105.xlsx
CHANDRAPUR\_43029.xlsx
CHAPARMUKH\_42414.xlsx

CHENNAI\_MEENAMBAKKAM\_43279.xlsx

CHENNAI\_NUNGAMBAKKAM\_43278.xlsx
CHERRAPUNJEE\_42515.xlsx
CHHINDWARA\_42768.xlsx
CHICKMAGALUR\_43260.xlsx
CHINTAMANI\_43272.xlsx

CHITRADURGA\_43233.xlsx CHITTORGARH\_42546.xlsx

CHURK\_42589.xlsx CHURU 42170.xlsx

CHAPRA 42488.xlsx

COIMBATORE\_AIRPORT\_43321.xlsx

CONTAI\_42900.xlsx COOCH\_BEHAR\_42403.xlsx

COONOOR\_43318.xlsx
CUDDALORE\_43329.xlsx
CUTTACK\_42970.xlsx
DAHANU\_43001.xlsx
DALTONGANJ\_42587.xlsx
DAMOH\_42674.xlsx

DAMOH\_42674.xlsx DARBHANGA\_42391.xlsx **DARJEELING\_42295.xlsx** 

DATIA\_42460.xlsx
DAVANGERE 43230.xlsx

DEESA\_42539.xlsx DEHRADUN\_42111.xlsx DEHRI\_42588.xlsx

DEOMALI\_42529.xlsx DHAR\_42752.xlsx

DHARAMSHALA\_42062.xlsx DHARMAPURI\_43301.xlsx DHARWAD\_43200.xlsx DHUBRI\_42404.xlsx

DIAMOND HARBOUR 42811.xlsx

DIGHA 42901.xlsx

BUNDI\_42450.csv

BURDWAN\_42709.csv CANNING 42812.csv

CAR NICOBAR 43367.csv

CHAIBASA\_42795.csv

CHANDABALI\_42973.csv

CHANDIGARH\_42105.csv

CHANDRAPUR 43029.csv

CHAPARMUKH\_42414.csv

CHAPRA 42488.csv

CHENNAI\_MEENAMBAKKAM\_43279.csv CHENNAI\_NUNGAMBAKKAM\_43278.csv

CHERRAPUNJEE\_42515.csv CHHINDWARA\_42768.csv CHICKMAGALUR\_43260.csv CHINTAMANI\_43272.csv CHITRADURGA 43233.csv

CHITTORGARH\_42546.csv

CHURK\_42589.csv CHURU 42170.csv

COIMBATORE\_AIRPORT\_43321.csv

CONTAI\_42900.csv

COOCH\_BEHAR\_42403.csv

COONOOR\_43318.csv

CUDDALORE\_43329.csv CUTTACK 42970.csv

DAHANU 43001.csv

DALTONGANJ\_42587.csv

DAMOH 42674.csv

DARBHANGA\_42391.csv

DARJEELING 42295.csv

DATIA 42460.csv

DAVANGERE 43230.csv

DEESA\_42539.csv

DEHRADUN 42111.csv

DEHRI 42588.csv

DEOMALI 42529.csv

DHAR\_42752.csv

DHARAMSHALA\_42062.csv DHARMAPURI\_43301.csv

DHARWAD\_43200.csv

DHUBRI\_42404.csv

DIAMOND\_HARBOUR\_42811.csv

DIGHA 42901.csv

DIU\_42914.xlsx DURG\_42876.xlsx DWARKA\_42731.xlsx ERODE\_43338.xlsx ETAWAH\_42364.xlsx

FATEHGARH\_FARRUKHABAD\_42267.xlsx

FATEHPUR\_42471.xlsx FORBESGANJ\_42395.xlsx FURSATGANJ\_42372.xlsx GADAG 43201.xlsx

GANDHINAGAR\_42654.xlsx GANNAVARAM\_43181.xlsx

GAYA\_42591.xlsx
GAZIPUR\_42482.xlsx
GOALPARA\_42407.xlsx
GOHPUR\_42419.xlsx
GOLAGHAT\_42420.xlsx
GONDIA\_42871.xlsx
GOPALPUR\_43049.xlsx
GORAKHPUR\_42379.xlsx
GULBARGA\_43121.xlsx

GULMARG\_42026.xlsx

GUNA\_42559.xlsx GURGAON\_42178.xlsx GUWAHATI\_42410.xlsx GWALIOR\_42361.xlsx HALDIA\_42806.xlsx HAMIRPUR\_42469.xlsx HANAMKONDA 43087.xlsx

HARDOI\_42271.xlsx
HARNAI\_43109.xlsx
HASSAN\_43263.xlsx
HAVERI\_43227.xlsx
HIRAKUD\_42881.xlsx
HISSAR\_42131.xlsx
HONAVAR\_43226.xlsx
HOSHANGABAD\_42763.xlsx

HUTBAY\_43364.xlsx HYDERABAD\_43128.xlsx

IDAR\_42651.xlsx IMPHAL\_42623.xlsx INDORE\_42754.xlsx ITANAGAR\_42308.xlsx JABALPUR\_42675.xlsx DIU\_42914.csv DURG\_42876.csv DWARKA\_42731.csv ERODE\_43338.csv ETAWAH\_42364.csv

FATEHGARH\_FARRUKHABAD\_42267.csv

FATEHPUR\_42471.csv FORBESGANJ\_42395.csv FURSATGANJ\_42372.csv GADAG 43201.csv

GANDHINAGAR\_42654.csv GANNAVARAM\_43181.csv

GAYA\_42591.csv
GAZIPUR\_42482.csv
GOALPARA\_42407.csv
GOHPUR\_42419.csv
GOLAGHAT\_42420.csv
GONDIA\_42871.csv
GOPALPUR\_43049.csv
GORAKHPUR\_42379.csv
GULBARGA\_43121.csv

GULMARG\_42026.csv

GUNA\_42559.csv
GURGAON\_42178.csv
GUWAHATI\_42410.csv
GWALIOR\_42361.csv
HALDIA\_42806.csv
HAMIRPUR\_42469.csv
HANAMKONDA\_43087.csv

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HARNAI\_43109.csv

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HAVERI\_43227.csv

HIRAKUD\_42881.csv

HISSAR\_42131.csv

HONAVAR\_43226.csv

HOSHANGABAD\_42763.csv

HUTBAY\_43364.csv

HYDERABAD\_43128.csv IDAR\_42651.csv IMPHAL\_42623.csv INDORE\_42754.csv

ITANAGAR\_42308.csv JABALPUR\_42675.csv JAGDALPUR\_43041.xlsx

JAIPUR\_42348.xlsx

JAISALMER\_42328.xlsx

JALGAON\_42851.xlsx

JALPAIGURI\_42399.xlsx

JAMMU\_42056.xlsx

JAMSHEDPUR\_42798.xlsx

JAMSHEDPUR\_CITY\_42799.xlsx

JAWAIBANDH 42441.xlsx

JEUR\_43071.xlsx

JHANSI\_42463.xlsx

JHARSUGUDA\_42886.xlsx

JODHPUR\_42339.xlsx

JORHAT\_42423.xlsx

KADAPPA\_43241.xlsx

KAILASHAHAR\_42618.xlsx

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KALINGAPATNAM 43105.xlsx

KALIMPONG 42296.xlsx

KALPA 42066.xlsx

KAMACHIPURAM\_15217.xlsx KANDLA\_AIRPORT\_42638.xlsx KANGRA AIRPORT 42076.xlsx

KANNUR\_43315.xlsx KANPUR\_42366.xlsx KANYAKUMARI\_43377.xlsx

KARAIKAL\_43346.xlsx KARNAL\_42137.xlsx

KARUR PARAMATHI 43342.xlsx

KARWAR\_43225.xlsx
KATRA\_42054.xlsx
KAVALI\_43243.xlsx
KEONJHAR\_42891.xlsx
KESHOD\_42832.xlsx
KHAJURAHO\_42567.xlsx
KHAMMAM\_43137.xlsx
KHANDWA\_42855.xlsx
KHARGONE\_42849.xlsx
KOCHI\_CIAL\_43336.xlsx
KODAIKANAL\_43339.xlsx

KOHIMA\_42527.xlsx KOLHAPUR\_43157.xlsx

KOLKATA\_ALIPORE\_42807.xlsx KOLKATA\_DUMDUM\_42809.xlsx JAGDALPUR\_43041.csv

JAIPUR\_42348.csv

JAISALMER\_42328.csv

JALGAON\_42851.csv

JALPAIGURI\_42399.csv

JAMMU\_42056.csv

JAMSHEDPUR\_42798.csv JAMSHEDPUR\_CITY\_42799.csv

JAWAIBANDH\_42441.csv

JEUR\_43071.csv JHANSI\_42463.csv

JHARSUGUDA\_42886.csv
JODHPUR\_42339.csv
JORHAT\_42423.csv
KADAPPA\_43241.csv
KAILASHAHAR\_42618.csv
KAKINADA\_43189.csv
KALIMPONG\_42296.csv

KALINGAPATNAM 43105.csv

KALPA 42066.csv

KAMACHIPURAM\_15217.csv KANDLA\_AIRPORT\_42638.csv KANGRA AIRPORT 42076.csv

KANNUR\_43315.csv KANPUR\_42366.csv KANYAKUMARI\_43377.csv KARAIKAL\_43346.csv KARNAL\_42137.csv

KARUR PARAMATHI 43342.csv

KARWAR\_43225.csv KATRA\_42054.csv KAVALI\_43243.csv KEONJHAR\_42891.csv KESHOD\_42832.csv KHAJURAHO\_42567.csv KHAMMAM\_43137.csv KHANDWA\_42855.csv KHARGONE\_42849.csv KOCHI\_CIAL\_43336.csv KODAIKANAL\_43339.csv

KOHIMA\_42527.csv KOLHAPUR 43157.csv

KOLKATA\_ALIPORE\_42807.csv KOLKATA\_DUMDUM\_42809.csv KOPPAL\_43228.xlsx

KORADACHERI\_15212.xlsx

KORAPUT 43097.xlsx

KOTA 42452.xlsx

KOTTAYAM\_43355.xlsx

KOVILANKULAM\_43358.xlsx

KOZHIKODE 43314.xlsx

KOZHIKODE AIRPORT 43320.xlsx

KRISHNAGAR\_42711.xlsx KUKERNAG 42046.xlsx

KUPWARA 42031.xlsx

KURNOOL 43213.xlsx

LAKHIMPUR\_KHERI\_42270.xlsx

LEH\_42034.xlsx

LENGPUI 42726.xlsx

LONG ISLAND 43310.xlsx

LUCKNOW 42369.xlsx

LUDHIANA 42099.xlsx

LUMDING 42523.xlsx

MACHILIPATNAM 43185.xlsx

MADURAI 43359.xlsx

MADURAI\_AIRPORT\_43360.xlsx

MAHABALESHWAR\_43111.xlsx

MAHBOOBNAGAR\_43168.xlsx

MAHUVA\_42837.xlsx

MALANJKHAND\_42715.xlsx

MALDAH 42503.xlsx

MALEGAON\_42925.xlsx

MANALI\_42065.xlsx

MANDI\_42078.xlsx

MANDLA\_42776.xlsx

MANDVI\_42729.xlsx

MANDYA\_43289.xlsx

MANGALORE\_BAJPE\_AIRPORT\_43284.xlsx

MANGALORE PANAMBUR 43285.xlsx

MATHERAN\_43060.xlsx

MATHURA 42257.xlsx

MAYABUNDER\_43309.xlsx

MAZBAT\_42413.xlsx

MEDAK 43083.xlsx

MEDNAPUR\_42803.xlsx

MEERUT\_42139.xlsx

MINICOY\_43369.xlsx

MOHANBARI 42314.xlsx

KOPPAL\_43228.csv

KORADACHERI\_15212.csv

KORAPUT\_43097.csv

KOTA 42452.csv

KOTTAYAM\_43355.csv

KOVILANKULAM\_43358.csv

KOZHIKODE 43314.csv

KOZHIKODE AIRPORT 43320.csv

KRISHNAGAR\_42711.csv

KUKERNAG 42046.csv

KUPWARA 42031.csv

KURNOOL 43213.csv

LAKHIMPUR KHERI 42270.csv

LEH 42034.csv

LENGPUI\_42726.csv

LONG ISLAND 43310.csv

LUCKNOW\_42369.csv

LUDHIANA\_42099.csv

LUMDING 42523.csv

MACHILIPATNAM 43185.csv

MADURAI 43359.csv

MADURAI\_AIRPORT\_43360.csv

MAHABALESHWAR\_43111.csv

MAHBOOBNAGAR\_43168.csv

MAHUVA\_42837.csv

MALANJKHAND\_42715.csv

MALDAH\_42503.csv

MALEGAON\_42925.csv

MANALI 42065.csv

MANDI\_42078.csv

MANDLA 42776.csv

MANDVI 42729.csv

MANDYA 43289.csv

MANGALORE\_BAJPE\_AIRPORT\_43284.csv

MANGALORE PANAMBUR 43285.csv

MATHERAN\_43060.csv

MATHURA 42257.csv

MAYABUNDER\_43309.csv

MAZBAT 42413.csv

MEDAK 43083.csv

MEDNAPUR\_42803.csv

MEERUT 42139.csv

MINICOY\_43369.csv

MOHANBARI 42314.csv

MORADABAD\_42187.xlsx
MORMUGAO\_43196.xlsx
MOUNT\_ABU\_42540.xlsx
MUKTESHWAR\_42147.xlsx
MUMBAI\_COLABA\_43057.xlsx

MUMBAI\_SANTACRUZ\_43003.xlsx MUZAFFARNAGAR\_42138.xlsx MUZAFFARPUR\_42387.xlsx

MYSORE\_43291.xlsx

NAGAPATTINAM 43347.xlsx

NAGPUR\_42867.xlsx **NAHAN\_42104.xlsx** NAJIBABAD\_42143.xlsx

NAJBABAD\_42143.xlsx NALGONDA\_43133.xlsx

NALIYA\_42631.xlsx NANCOWRY\_43382.xlsx NANDED\_43021.xlsx NANDIGAMA\_43182.xlsx NANDURBAR\_42846.xlsx

NANDYAL\_43212.xlsx NARNAUL\_42177.xlsx NARSAPUR\_43187.xlsx NARSINGHPUR\_42770.xlsx

NASHIK\_42921.xlsx

NELLORE\_43245.xlsx NEW\_DELHI\_AYANAGAR\_42180.xlsx

NEW\_DELHI\_AYANAGAR\_42180.xisx NEW\_DELHI\_PALAM\_42181.xisx NEW\_DELHI\_RIDGE\_42184.xisx

NEW\_DELHI\_SAFDARJUNG\_42182.xlsx

NEW\_KANDLA\_42639.xlsx NIZAMABAD\_43081.xlsx

NORTH LAKHIMPUR 42309.xlsx

NOWGONG\_42467.xlsx OKHA\_42730.xlsx ONGOLE\_43221.xlsx ORAI\_42468.xlsx

OSMANABAD\_43075.xlsx
PACHMARHI\_42767.xlsx
PAHALGAM\_42028.xlsx
PALAKKAD\_43335.xlsx
PALAYAMKOTTAI\_43376.xlsx

PAMBAN\_43363.xlsx
PANJIM\_43192.xlsx
PANTNAGAR 42148.xlsx

MORADABAD\_42187.csv MORMUGAO\_43196.csv MOUNT\_ABU\_42540.csv MUKTESHWAR 42147.csv

MUMBAI\_COLABA\_43057.csv MUMBAI\_SANTACRUZ\_43003.csv

MUZAFFARNAGAR\_42138.csv MUZAFFARPUR\_42387.csv

MYSORE 43291.csv

NAGAPATTINAM 43347.csv

NAGPUR\_42867.csv

NAHAN 42104.csv

NAJIBABAD\_42143.csv NALGONDA\_43133.csv

NALIYA\_42631.csv NANCOWRY\_43382.csv NANDED\_43021.csv NANDIGAMA\_43182.csv NANDURBAR 42846.csv

NANDONDAN\_42840.csv NANDYAL\_43212.csv NARNAUL\_42177.csv NARSAPUR\_43187.csv NARSINGHPUR\_42770.csv

NASHIK\_42921.csv NELLORE\_43245.csv

NEW\_DELHI\_AYANAGAR\_42180.csv NEW\_DELHI\_PALAM\_42181.csv NEW\_DELHI\_RIDGE\_42184.csv

NEW\_DELHI\_SAFDARJUNG\_42182.csv

NEW\_KANDLA\_42639.csv NIZAMABAD\_43081.csv

NORTH LAKHIMPUR 42309.csv

NOWGONG\_42467.csv OKHA\_42730.csv ONGOLE\_43221.csv ORAI\_42468.csv

OSMANABAD\_43075.csv
PACHMARHI\_42767.csv
PAHALGAM\_42028.csv
PALAKKAD\_43335.csv
PALAYAMKOTTAI\_43376.csv

PAMBAN\_43363.csv PANJIM\_43192.csv PANTNAGAR 42148.csv PARADEEP\_42976.xlsx
PARBHANI\_43017.xlsx
PASSIGHAT\_42220.xlsx
PATIALA\_42101.xlsx
PATNA\_42492.xlsx

PENDRA\_ROAD\_42779.xlsx

PHALODI\_42237.xlsx PHULBANI\_42966.xlsx PILANI 42174.xlsx

PORBANDAR\_AIRPORT\_42830.xlsx

PORT\_BLAIR\_43333.xlsx

PRAYAGRAJ\_ALLAHABAD\_42474.xlsx

PUDUCHERRY\_43331.xlsx PUNALUR\_43354.xlsx PUNE\_43063.xlsx PURI\_43053.xlsx PURNEA\_42500.xlsx PURULIA\_42705.xlsx QAZIGUND\_42044.xlsx RAICHUR\_43169.xlsx

RAIPUR\_MANA\_42872.xlsx

RAISEN\_42672.xlsx RAJGARH\_42557.xlsx RAJKOT 42737.xlsx

RAIPUR 42874.xlsx

RAJNANDGAON\_42948.xlsx RAMAGUNDAM 43086.xlsx

RANCHI\_42701.xlsx
RANGIA\_42408.xlsx
RATLAM\_42661.xlsx
RATNAGIRI\_43110.xlsx
RENTACHINTALA 43177.xlsx

REWA\_42574.xlsx ROHTAK\_42176.xlsx ROORKEE\_42140.xlsx SABOUR\_42499.xlsx SAGAR\_42671.xlsx

SAGAR\_ISLAND\_42903.xlsx

SALEM\_43325.xlsx SAMBALPUR\_42883.xlsx SANGLI\_43158.xlsx SATARA\_43113.xlsx SATNA\_42571.xlsx

SAWAI\_MADHOPUR\_42453.xlsx

PARADEEP\_42976.csv PARBHANI\_43017.csv PASSIGHAT\_42220.csv PATIALA\_42101.csv PATNA\_42492.csv

PENDRA\_ROAD\_42779.csv

PHALODI\_42237.csv PHULBANI\_42966.csv PILANI 42174.csv

PORBANDAR\_AIRPORT\_42830.csv

PORT\_BLAIR\_43333.csv

PRAYAGRAJ\_ALLAHABAD\_42474.csv

PUDUCHERRY\_43331.csv
PUNALUR\_43354.csv
PUNE\_43063.csv
PURI\_43053.csv
PURNEA\_42500.csv
PURNEA\_42705.csv
QAZIGUND\_42044.csv

RAICHUR\_43169.csv RAIPUR 42874.csv

RAIPUR\_MANA\_42872.csv

RAISEN\_42672.csv RAJGARH\_42557.csv RAJKOT 42737.csv

RAJNANDGAON\_42948.csv RAMAGUNDAM\_43086.csv

RANCHI\_42701.csv
RANGIA\_42408.csv
RATLAM\_42661.csv
RATNAGIRI\_43110.csv
RENTACHINTALA 43177.csv

REWA\_42574.csv ROHTAK\_42176.csv ROORKEE\_42140.csv SABOUR\_42499.csv SAGAR\_42671.csv

SAGAR\_ISLAND\_42903.csv

SALEM\_43325.csv SAMBALPUR\_42883.csv SANGLI\_43158.csv SATARA\_43113.csv SATNA\_42571.csv

SAWAI\_MADHOPUR\_42453.csv

SEONI 42771.xlsx

SHAHJAHANPUR\_42266.xlsx

SHAJAPUR\_42665.xlsx SHEOPUR 42456.xlsx

SHILLONG\_42516.xlsx SHIMLA\_42083.xlsx

SHIMLA AIRPORT 42084.xlsx

SHIMOGA\_43258.xlsx SHIRALI\_43229.xlsx SHIVPURI\_42459.xlsx SIDHI\_42577.xlsx SIKAR\_42249.xlsx SILCHAR 42619.xlsx

SOLAN\_NAUNI\_42106.xlsx

SOLAPUR 43117.xlsx

SRIGANGANAGAR 42123.xlsx

SRINAGAR\_42027.xlsx SRINIKETAN\_42708.xlsx SULTANPUR\_42377.xlsx SUNDERGARH\_42792.xlsx SUNDERNAGAR\_42079.xlsx

SUPAUL\_42393.xlsx SURAT 42840.xlsx

SURENDRANAGAR\_42740.xlsx

SURI\_42710.xlsx
TANGLA\_42409.xlsx
T.B.I.A.\_43005.xlsx
TEHRI\_42114.xlsx
TEZPUR\_42415.xlsx
THANJAVUR\_43330.xlsx

THIRUVANANTHAPURAM\_43371.xlsx

THIRUVANANTHAPURAM\_AIRPORT\_43372.xlsx

THOOTHUKUDI\_NEW\_PORT\_43379.xlsx
THRISSUR\_VELLANIKKARA\_43357.xlsx

TIKAMGARH 42562.xlsx

TIRUCHIRAPALLI\_AIRPORT\_43344.xlsx

TIRUMALA\_14223.xlsx
TIRUPATI\_43275.xlsx
TIRUPATTUR\_43302.xlsx
TIRUTTANI\_43277.xlsx
TITLAGARH\_42961.xlsx
TONDI\_43361.xlsx
TUNI\_43147.xlsx

UDAGAMANDALAM\_43317.xlsx

SEONI 42771.csv

SHAHJAHANPUR\_42266.csv

SHAJAPUR\_42665.csv

SHEOPUR 42456.csv

SHILLONG\_42516.csv

SHIMLA\_42083.csv

SHIMLA AIRPORT 42084.csv

SHIMOGA\_43258.csv SHIRALI\_43229.csv SHIVPURI\_42459.csv SIDHI\_42577.csv SIKAR\_42249.csv SILCHAR\_42619.csv

SOLAN\_NAUNI\_42106.csv

SOLAPUR 43117.csv

SRIGANGANAGAR 42123.csv

SRINAGAR\_42027.csv SRINIKETAN\_42708.csv SULTANPUR\_42377.csv SUNDERGARH\_42792.csv SUNDERNAGAR\_42079.csv

SUPAUL\_42393.csv SURAT 42840.csv

SURENDRANAGAR\_42740.csv

SURI\_42710.csv
TANGLA\_42409.csv
TBIA\_43005.csv
TEHRI\_42114.csv
TEZPUR\_42415.csv
THANJAVUR\_43330.csv

THIRUVANANTHAPURAM\_43371.csv

THIRUVANANTHAPURAM AIRPORT 43372.csv

THOOTHUKUDI\_NEW\_PORT\_43379.csv THRISSUR\_VELLANIKKARA\_43357.csv

TIKAMGARH 42562.csv

TIRUCHIRAPALLI\_AIRPORT\_43344.csv

TIRUMALA\_14223.csv
TIRUPATI\_43275.csv
TIRUPATTUR\_43302.csv
TIRUTTANI\_43277.csv
TITLAGARH\_42961.csv
TONDI\_43361.csv
TUNI\_43147.csv

UDAGAMANDALAM\_43317.csv

UDAIPUR\_DABOK\_AIRPORT\_42542.xlsx

UDGIR\_43076.xlsx UJJAIN\_42662.xlsx UMARIA\_42679.xlsx UNA\_42077.xlsx

VADODARA\_AIRPORT\_42748.xlsx VALLABH\_VIDYANAGAR\_42744.xlsx

VALPARAI\_43341.xlsx VALSAD\_42915.xlsx VARANASI\_42483.xlsx

VARANASI\_BABATPUR\_AIRPORT\_42479.xlsx

VELLORE\_43303.xlsx VENGURLA\_43193.xlsx VERAVAL\_42909.xlsx

VISAKHAPATNAM\_43150.xlsx

VISAKHAPATNAM\_AIRPORT\_43149.xlsx

WARDHA\_42939.xlsx WASHIM\_42935.xlsx YAVATMAL\_42943.xlsx UDAIPUR\_DABOK\_AIRPORT\_42542.csv

UDGIR\_43076.csv UJJAIN\_42662.csv UMARIA\_42679.csv UNA\_42077.csv

VADODARA\_AIRPORT\_42748.csv VALLABH\_VIDYANAGAR\_42744.csv

VALPARAI\_43341.csv VALSAD\_42915.csv VARANASI\_42483.csv

VARANASI\_BABATPUR\_AIRPORT\_42479.csv

VELLORE\_43303.csv VENGURLA\_43193.csv VERAVAL\_42909.csv

VISAKHAPATNAM\_43150.csv

VISAKHAPATNAM\_AIRPORT\_43149.csv

WARDHA\_42939.csv WASHIM\_42935.csv YAVATMAL\_42943.csv

# Iran, 1991-2020 Climatological Normals

# **Explanatory Information**

The WMO Member provided data for 76 stations in individual Comma Separated Values (CSV) files.

The list of all CSV files is provided below.

Excel Files	CSV Files
N/A	Abadan_40831.csv
	Abadeh_40818.csv
	Abumusalsland_40890.csv
	Ahar_40704.csv
	Ahvaz_40811.csv
	Aligudarz_40783.csv
	Arak_40769.csv
	Ardebil_40708.csv
	Babolsar_40736.csv
	Baft_40853.csv
	Bam_40854.csv
	Bandarabbas_40875.csv
	BandarAnzali_40718.csv
	BandarDayyer_40872.csv
	BandarLengeh_40883.csv
	Birjand_40809.csv
	Bojnurd_40723.csv
	BushehrCoastal_40857.csv
	Chahbahar_40898.csv
	Dogonbadan_40835.csv
	Esfahan_40800.csv
	Fasa_40859.csv
	Ferdows_40792.csv
	Gharakhil_40737.csv
	Gorgan_40738.csv
	HamedanAirport_40768.csv
	Ilam_40780.csv
	Iranshahr_40879.csv
	Kahnuj_40877.csv
	Kashan_40785.csv
	Kashmar_40763.csv
	Kerman_40841.csv
	Kermanshah_40766.csv
	Khorramabad 40782.csv
	Khoy_40703.csv

KhurBiabanak\_40789.csv

 $KishIsland\_40882.csv$ 

Mahabad\_40726.csv

Maku 40701.csv

Maragheh\_40713.csv

Maravehtappeh\_40721.csv

Mashhad 40745.csv

Masjedsoleyman\_40812.csv

Mianeh\_40716.csv

Nehbandan 40827.csv

Nowshahr\_40734.csv

OmidiyehAghajari\_40833.csv

Orumiyeh 40712.csv

ParsabadAirport\_40700.csv

Qazvin\_40731.csv

Quchan\_40740.csv

Ramsar\_40732.csv

Rasht\_40719.csv

Sabzevar\_40743.csv

SafiabadDezful\_40794.csv

Sanandaj\_40747.csv

Saqez\_40727.csv

Sarab\_40710.csv

Sarakhs\_40741.csv

Saravan\_40878.csv

Semnan\_40757.csv

Shahrekord\_40798.csv

Shahrud\_40739.csv

Shiraz 40848.csv

SiriIsland\_40889.csv

Sirjan\_40851.csv

Tabas 40791.csv

Tabriz\_40706.csv

 $Tehran Mehrabad Airport\_40754.csv$ 

TorbatHeydariyeh\_40762.csv

Yasuj\_40836.csv

Yazd\_40821.csv

Zabol\_40829.csv

Zahedan 40856.csv

Zanjan\_40729.csv

#### Iraq, 1991-2020 Climatological Normals

#### **Explanatory Information**

The WMO Member provided monthly means for each of the 30 years in the 1991-2020 period for 12 stations containing up to 11 Parameters in individual Excel files. No 1991-2020 computed Normals were provided by the Member.

NCEI computed Monthly and Annual Normals for each Parameter provided and obtained metadata for each station via OSCAR Surface. The data and metadata were combined into the standard WMO Normals format for Comma Separated Value files (CSV) and the data are provided in 12 CSV station files. No Climatological Normals were computed for Parameters and Months having less than 24 years of data.

Parameters provided for which NCEI computed 1991-2020 climatological Normals are the following:

Precipitation Total
Daily Maximum Temperature
Daily Minimum Temperature
Daily Mean Temperature
Mean Sea Level Pressure
Wind Speed
Relative Humidity
Number of Days with Rising Sand
Number of Days with Duststorm/Sandstorm
Number of Days with Suspended Dust
Evaporation

The original Excel files containing the data for each of the 30 years in the 1991-2020 period are provided.

The 1991-2020 Normals for Iraq were computed and CSV files are provided as a service to the User Community, however users are advised to note that the Normals values could differ from how the WMO Member would compute the Normals values for their stations.

Excel Files	CSV Files
AL-HAI.xls	AL-HAI_40665.csv
AMARA.xls	
BAGHDAD.xls	BAGHDAD_40650.csv
BASRA.xls	BASRA_40690.csv
DIWANIYA.xls	DIWANIYA_40672.csv
KERBALLA.xls	KERBALLA_40656.csv
KHANAQIN.xls	KHANAQIN_40637.csv
KIRKUK.xls	KIRKUK_40621.csv
MOSUL.xls	MOSUL_40608.csv
NAJAF.xls	NAJAF_40670.csv
NASIRIYA.xls	NASIRIYA_40676.csv

RUTBAH.xls	RUTBAH_40642.csv
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# Japan, 1991-2020 Climatological Normals

# **Explanatory Information**

The WMO Member provided data for 53 stations in individual Comma Separated Values (CSV) files.

The list of all CSV files is provided below.

Excel Files	CSV Files
N/A	Abashiri_47409.csv
	Akita_47582.csv
	Aomori_47575.csv
	Asahikawa_47407.csv
	Chichijima_47971.csv
	Choshi_47648.csv
	Fukue_47843.csv
	Fukuoka_47807.csv
	Hachijojima_47678.csv
	Hakodate_47430.csv
	Hiroshima_47765.csv
	Ishigakijima_47918.csv
	Izuhara_47800.csv
	Kagoshima_47827.csv
	Kanazawa_47605.csv
	Kochi_47893.csv
	Kushiro_47418.csv
	Maebashi_47624.csv
	Maizuru_47750.csv
	Matsue_47741.csv
	Matsuyama_47887.csv
	Minamidaitojima_47945.csv
	Minamitorishima_47991.csv
	Mito_47629.csv
	Miyakojima_47927.csv
	Miyazaki_47830.csv
	Morioka_47584.csv
	Nagano_47610.csv
	Nagasaki_47817.csv
	Nagoya_47636.csv
	Naha_47936.csv
	Naze_47909.csv
	Nemuro_47420.csv
	Niigata_47604.csv
	Oita_47815.csv
	Omaezaki_47655.csv

Osaka\_47772.csv Oshima\_47675.csv Saigo\_47740.csv Sapporo\_47412.csv Sendai\_47590.csv Shionomisaki\_47778.csv Suttsu\_47421.csv Syowa\_89532.csv Takamatsu\_47891.csv Tokushima\_47895.csv Tokyo\_47662.csv Tottori\_47746.csv Tsu\_47651.csv Urakawa\_47426.csv Wajima\_47600.csv Wakamatsu\_47570.csv Wakkanai\_47401.csv

#### Kazakhstan, 1991-2020 Climatological Normals

## **Explanatory Information**

The WMO member provided data for 229 stations in individual Excel files. NCEI converted these files 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 station file Matai\_36772.xls contained the WMO Number 36773 (rather than 36772) within the file. The filename of the csv file is Matai\_36773.csv while the original filename of the xls file was left unchanged.

The original Excel files are provided along with the CSV files produced by NCEI.

Excel Files	CSV Files
Achysai_38196.xls	Achysai_38196.csv
Agadyr_35594.xls	Agadyr_35594.csv
Akkol_35085.xls	Akkol_35085.csv
Akkudyk_38232.xls	Akkudyk_38232.csv
Akkum_38191.xls	Akkum_38191.csv
Aksai_35117.xls	Aksai_35117.csv
Aksengir_36874.xls	Aksengir_36874.csv
Aksuat_36643.xls	Aksuat_36643.csv
Aktau_38111.xls	Aktau_38111.csv
Aktobe_35229.xls	Aktobe_35229.csv
Aktogai_36619.xls	AktogaiVKO_36619.csv
Aktogay_29900.xls	Aktogay_29900.csv
Alakol_36803.xls	Alakol_36803.csv
AlmatyKamenskoeplato_36875.xls	AlmatyKamenskoeplato_36875.csv
ALMATYOGMS_36870.xls	ALMATYOGMS_36870.csv
Amangeldy_35361.xls	Amangeldy_35361.csv
Anarkhay_36817.xls	Anarkhay_36817.csv
AqsuAyuly_35498.xls	AqsuAyuly_35498.csv
Aqtogay_36467.xls	Aqtogay_36467.csv
Aqzhar_36658.xls	Aqzhar_36658.csv
Aralkol_35157.xls	Aralkol_35157.csv
Araltenizi_35746.xls	AralTenizi_35746.csv
Arkalyk_35363.xls	Arkalyk_35363.csv
Arshalinsky_28948.xls	Arshalinsky_28948.csv
Arshaly_35283.xls	Arshaly_5087230.csv
Arys_38316.xls	Arys_38316.csv
Assy_36897.xls	Assy_36897.csv
Atbasar_35078.xls	Atbasar_35078.csv
Atyrau_35700.xls	Atyrau_35700.csv
Aul4_36744.xls	Aul4_36744.csv
AulTuraraRyskulova_38334.xls	AulTuraraRyskulova_38334.csv

Ayagoz 36622.xls Ayakkum 35739.xls Aydarly\_36819.xls BAKANAS 36821.xls Bakty\_36736.xls Balhash\_35796.xls Balkashino 28978.xls Barshatas\_36498.xls Baskuduk\_35345.xls Bayanauyl 36126.xls Bektauata\_35699.xls Besoba\_35396.xls Beyneu 35927.xls Blagoveshchenka 28766.xls

BorovoeSKFM\_28987.xls

Bulaevo\_28687.xls Chapaevo 35302.xls Chiganak 35997.xls Chingirlau\_35118.xls Chkalovo 28884.xls Dievskaya 35055.xls Dmitrievka\_36183.xls Dzhambeity 35217.xls Egindykol\_35179.xls Ekibastuz\_36001.xls Ekidyn 35368.xls Emba\_35437.xls Ertis\_29807.xls

Fedorovka 29808.xls FortShevchenko 38001.xls Ganyushkino\_34798.xls Golubovka\_28993.xls Ilinsky 35325.xls Inderborskiy\_35506.xls

Esik 36885.xls

Esil\_35068.xls

Irgiz 35542.xls Kamenka\_35107.xls Kapshagai 36837.xls Karabalyk\_28843.xls Karabau\_35514.xls Karabutak\_35344.xls Karaganda\_35394.xls KaragandaSKhOS 35391.xls Ayagoz 36622.csv Ayakkum 35739.csv Aydarly\_36819.csv BAKANAS 36821.csv Bakty\_36736.csv Balhash\_35796.csv Balkashino 28978.csv Barshatas\_36498.csv Baskuduk\_35345.csv Bayanauyl 36126.csv Bektauata\_35699.csv Besoba\_35396.csv Beyneu 35927.csv

Blagoveshchenka 28766.csv BorovoeSKFM\_28987.csv

Bulaevo\_28684.csv Chapaevo 35302.csv Chiganak 35997.csv Chingirlau 35118.csv Chkalovo 28884.csv Dievskaya 35055.csv Dmitrievka\_36183.csv Dzhambeity 35217.csv Egindykol\_5116950.csv Ekibastuz\_36001.csv Ekidyn 35368.csv Emba 35437.csv Ertis 29807.csv Esik 36885.csv

Esil\_35068.csv Fedorovka 29808.csv FortShevchenko 38001.csv Ganyushkino 34798.csv Golubovka\_28993.csv Ilinsky 35325.csv Inderborskiy\_35506.csv

Irgiz 35542.csv Kamenka\_35107.csv Kapshagai 36837.csv Karabalyk\_28843.csv Karabau\_35514.csv Karabutak\_35344.csv Karaganda 35394.csv KaragandaSKhOS\_35391.csv Karak 38051.xls

Karamendy\_35153.xls KARASHOKY\_36891.xls

Karasu\_28967.xls Karatyuba\_35315.xls Karaulkeldy\_35522.xls Karauyl 36501.xls

KatonKaragay\_36439.xls

Kaynar\_36358.xls Kazaly\_35849.xls Kazygurt\_38452.xls KEGEN\_36907.xls Kertindy\_35386.xls Khantau\_38108.xls Kiima\_35163.xls

Kishkenekol\_28886.xls Kogaly\_36846.xls Kokpekty\_36535.xls KOKSHETAU\_28879.xlsx

Koktobe\_36017.xls

Komsomolskoye\_35244.xls

Korday\_38229.xls
Korgalzhyn\_35284+.xls
Korneevka\_35393.xls
Koslstek\_35234.xls
Kostanay\_28952.xls

Krasnoarmeyka\_36011.xls

KUIGAN\_35996.xls
KULAN\_38343.xls
Kulsary\_35715.xls
Kulzhambay\_35656.xls
Kurshim\_36546.xls
Kushmurun\_35053.xls
KYRGYZSAI\_36905.xls
Kyzan\_38002.xls
Kyzylorda\_38062.xls
Kzyltau 35680.xls

LENINOGORSK 36208.xlsx

Kzylzhar\_35576.xls

Lepsi\_36796.xls Lozovaya\_29817.xls Mahambet\_35605.xls Martuk\_35225.xls Matai\_36772.xls Karak 38051.csv

Karamendy\_35153.csv KARASHOKY\_36891.csv Karasu\_28967.csv Karatyuba\_35315.csv Karaulkeldy\_35522.csv

KatonKaragay\_36439.csv

Karauyl 36501.csv

Kaynar\_36358.csv Kazaly\_35849.csv Kazygurt\_38452.csv KEGEN\_36907.csv Kertindy\_35386.csv Khantau\_38108.csv Kiima\_35163.csv Kishkenekol\_28886.csv

Kogaly\_36846.csv Kokpekty\_36535.csv KOKSHETAU\_28879.csv Koktobe 36017.csv

Komsomolskove 35244.csv

Korday\_38229.csv
Korgalzhyn\_35284.csv
Korneevka\_35393.csv
Kos-Istek\_35234.csv
Kostanay\_28952.csv

Krasnoarmeyka\_36011.csv

KUIGAN\_35996.csv KULAN\_38343.csv Kulsary\_35715.csv Kulzhambay\_35656.csv Kurshim\_36546.csv Kushmurun\_35053.csv KYRGYZSAI\_36905.csv Kyzan\_38002.csv Kyzylorda\_38062.csv Kzyltau\_35680.csv Kzylzhar\_35576.csv LENINOGORSK\_36208.csv

Lepsi\_36796.csv Lozovaya\_29817.csv Mahambet\_35605.csv Martuk\_35225.csv Matai 36773.csv Merke 38344.xls

Mikhaylovka\_28856.xls Mikhaylovka\_29802.xls Moiynkum\_38099.xls Mugodzarskaya\_35532.xls

MYNZHILKI\_36889.xls

NARYNKOL\_36953.xls Novoalekseevka\_35321.xls Novorossiskoe\_35331.xls

Nura\_35449.xls
Nurlykent\_38330.xls
Nur-Sultan\_35283.xls
Opornaya\_35816.xls
Otar\_36865.xls
Pavlodar\_36003.xls

Peshnoy\_35705.xls
Petropavlovsk\_28676.xls
Presnogorkovka\_28764.xls

Qyzylqum\_38301.xls Rodnikovka\_35226.xls Rodnikovskoe\_35198.xls

Rudnyi\_28954.xls
Ruzaevka\_28966.xls
Sagyz\_35519.xls
Sam\_35925.xls
Samarka\_36418.xls
Sarkand\_36786.xls
Sarykol\_28867.xls
Saryozek\_36839.xls
Saryshagan\_35895.xls
Saudakent 38202.xls

Saumalkol\_28877.xls
Sayak\_36598.xls
Seleznevka\_36415.xls
Semijarka\_36152.xls
Semipalatinsk\_36177.xls
Sergeevka\_28863.xls
Shalabay\_36392.xls
Shalday\_36015.xls
Shalkar\_35633.xls
Shar\_36394.xls

Sharbakty\_36012.xls Shardara\_38439.xls

Shayan\_38207.xls

Merke 38344.csv

Mikhaylovka\_28856.csv Mikhaylovka\_29802.csv Moiynkum\_38099.csv Mugodzarskaya\_35532.csv

MYNZHILKI\_36889.csv NARYNKOL\_36953.csv Novoalekseevka\_35321.csv

Novorossiskoe\_35331.csv Nura\_35449.csv Nurlykent\_38330.csv Nur-Sultan\_5127140.csv Opornaya\_35816.csv Otar 36865.csv

Pavlodar\_36003.csv Peshnoy\_35705.csv Petropavlovsk\_28676.csv Presnogorkovka 28764.csv

Qyzylqum\_38301.csv Rodnikovka\_35226.csv Rodnikovskoe\_35198.csv

Rudnyi\_28954.csv
Ruzaevka\_28966.csv
Sagyz\_35519.csv
Sam\_35925.csv
Samarka\_36418.csv
Sarkand\_36786.csv
Sarykol\_28867.csv
Saryozek\_36839.csv
Saryshagan\_35895.csv
Saudakent\_38202.csv
Saudakent\_38202.csv
Saumalkol\_28877.csv
Sayak\_36598.csv
Seleznevka\_36415.csv

Seleznevka\_36415.csv Semijarka\_36152.csv Semipalatinsk\_36177.csv Sergeevka\_28863.csv Shalabay\_36392.csv Shalday\_36015.csv Shalkar\_35633.csv Shar\_36394.csv Sharbakty\_36012.csv Shardara\_38439.csv Shayan 38207.csv Shchuchinsk 28984.xls SHELEK 36894.xls Shemonaiha 36186.xls Shieli 38069.xls Shokpar\_38223.xls Sholakkorgan\_38201.xls Shuyldaq 38338.xls Shymkent\_38328.xls ShyrykRabat\_38049.xls Stepnogorsk 35082.xls Taipak\_35406.xls Taiynsha\_28873.xls Taldykorgan 36778.xls TARAZ 38341.xls Tasaryk\_38337.xls Tasty 38081.xls TastyTaldy 35265.xls Tekeli 36843.xls Temir 35426.xls Terekty 36567.xls Timiryazevo 28862.xls

Timiryazevo\_28862.xis
Tobol\_28957.xls
TOLEBI\_38222.xls
TORGAI\_35358.xls
Tugyl\_36666.xls
Turkestan\_38198.xls
Tushchybek\_38008.xls

Uil\_35416.xls Ulanbel\_38094.xls

UlkenAlmatylake\_36879.xls UlkenNaryn\_36428.xls

Uralsk\_35108.xls Urda\_34581.xls Urzhar\_36639.xls Usharal\_36729.xls Ushtagan\_34691.xls Ushtobe\_36777.xls Uspenka\_29906.xls

UstKamenogorsk\_36403.xls

Uyuk 38203.xls

UZYNAGASH\_36877.xls Vozvyshenka\_28785.xls Yanvartsevo\_35106.xls Yavlenka\_28775.xls Shchuchinsk\_28984.csv SHELEK\_36894.csv Shemonaiha\_36186.csv Shieli\_38069.csv

Shokpar\_38223.csv Sholakkorgan\_38201.csv Shuyldaq\_38338.csv Shymkent\_38328.csv ShyrykRabat\_38049.csv Stepnogorsk\_35082.csv Taipak\_35406.csv

Taiynsha\_28873.csv
Taldykorgan\_38337.csv
TARAZ\_38341.csv
Tasaryk\_38337.csv
Tasty\_38081.csv
TastyTaldy\_35265.csv

TastyTaldy\_35265.csv
Tekeli\_36843.csv
Temir\_35426.csv
Terekty\_36567.csv
Timiryazevo\_28862.csv
Tobol\_28957.csv
TOLEBI\_38222.csv

TOLEBI\_38222.csv
TORGAI\_35358.csv
Tugyl\_36666.csv
Turkestan\_38198.csv
Tushchybek\_38008.csv

Uil\_35416.csv Ulanbel\_38094.csv

UlkenAlmatylake\_36879.csv UlkenNaryn\_36428.csv Uralsk\_35108.csv Urda\_34581.csv Urzhar\_36639.csv Usharal\_36729.csv Ushtagan\_34691.csv Ushtobe\_36777.csv

UstKamenogorsk\_36403.csv

Uyuk 38203.csv

Uspenka\_29906.csv

UZYNAGASH\_36877.csv Vozvyshenka\_28785.csv Yanvartsevo\_35106.csv Yavlenka\_28775.csv Yereymentau\_35191.xls

ZapovednikMarkakol\_36566.xls

Zaysan\_36665.xlsx
Zhaksy\_35069.xls
Zhalanash\_36899.xls
Zhalanashkol\_36806.xls
Zhalgyztobe\_36397.xls
Zhalpaktal\_34398.xls
Zhaltyr\_35173.xls
ZhanaArka 35582.xls

Zhangala\_35404.xls Zhanibek\_34473.xls

ZHARKENT\_36859.xls Zharyk\_35497.xls

Zheleznodorozhny\_35064.xls

Zhetykonur\_35777.xls Zhetysai\_38584.xls Zhezkazgan\_35671.xls Zhitikara\_35042.xls Zholboldy\_28999.xls Zhosaly\_35953.xls Zlikha\_35969.xls Yereymentau\_35191.csv

 $Zapovednik Markakol\_36566.csv$ 

Zaysan\_36665.csv
Zhaksy\_35069.csv
Zhalanash\_36899.csv
Zhalanashkol\_36806.csv
Zhalgyztobe\_36397.csv
Zhalpaktal\_34398.csv
Zhaltyr\_35173.csv
ZhanaArka\_35582.csv
Zhangala\_35404.csv

Zhanibek\_34473.csv ZHARKENT 36859.csv

Zharyk\_35497.csv

Zheleznodorozhny\_35064.csv

Zhetykonur\_35777.csv
Zhetysai\_38584.csv
Zhezkazgan\_35671.csv
Zhitikara\_35042.csv
Zholboldy\_28999.csv
Zhosaly\_35953.csv
Zlikha\_35969.csv

# Korea, 1991-2020 Climatological Normals

# **Explanatory Information**

The WMO Member provided data for 85 stations in individual Comma Separated Values (CSV) files.

The list of all CSV files is provided below.

Excel Files	CSV Files
N/A	Andong_47136.csv
	Baengnyeongdo_47102.csv
	Boeun_47226.csv
	Bongwhoa_47271.csv
	Boryeong_47235.csv
	Buan_47243.csv
	Busan_47159.csv
	Buyeo_47236.csv
	Changwon_47155.csv
	Cheonan_47232.csv
	Cheongju_47131.csv
	Cheongsonggun_47276.csv
	Cheorwon_47095.csv
	Chuncheon_47101.csv
	Chungju_47127.csv
	Chupungnyeong_47135.csv
	Daegu_47860.csv
	Daegwallyeong_47100.csv
	Daejeon_47133.csv
	Dongducheon_47098.csv
	Donghae_47106.csv
	Ganghwa_47201.csv
	GangjinGun_47259.csv
	Gangneung_47105.csv
	Geochang_47284.csv
	Geoje_47294.csv
	Geumsan_47238.csv
	Gimhaesi_47253.csv
	Gochang_47172.csv
	Goheung_47262.csv
	Gosan_47185.csv
	Gunsan_47140.csv
	Gwangju_47156.csv
	Gyeongju_47283.csv
	Haenam 47261.csv

Hamyanggun\_47264.csv

Hapcheon\_47285.csv

Heuksando\_47169.csv

Hongcheon\_47212.csv

Icheon\_47203.csv

Imsil\_47244.csv

Incheon\_47112.csv

Inje\_47211.csv

Jangheung\_47260.csv

Jangsu 47248.csv

Jecheon\_47221.csv

Jeju\_47184.csv

Jeongeup 47245.csv

JeongseonGun\_47217.csv

Jeonju\_47864.csv

Jinju\_47192.csv

Miryang\_47288.csv

Mokpo\_47165.csv

Mungyeong\_47273.csv

Namhae\_47295.csv

Namwon 47247.csv

Paju\_47099.csv

Pohang\_47138.csv

Sancheong\_47289.csv

Sangju\_47137.csv

Seogwipo\_47189.csv

Seongsan\_47188.csv

Seosan\_47129.csv

Seoul 47108.csv

Sokcho\_47090.csv

Sunchanggun\_47254.csv

Suwon 47119.csv

Taebaek\_47216.csv

Tongyeong\_47162.csv

Uiryeonggun\_47263.csv

Uiseong\_47278.csv

Uljin\_47130.csv

Ulleungdo\_47115.csv

Ulsan\_47152.csv

Wando\_47170.csv

Wonju\_47114.csv

Yangpyeong\_47202.csv

Yangsansi\_47257.csv

Yeongcheon\_47281.csv

Yeongdeok_47277.csv	
Yeonggwanggun_47252.csv	
Yeongju_47272.csv	
Yeongwol_47121.csv	
Yeosu_47168.csv	

#### Kyrgyzstan, 1991-2020 Climatological Normals

# **Explanatory Information**

The WMO Member provided 1991-2020 Normals for a single element (Monthly Mean Temperature) for 32 stations in a single PDF file in the native language. NCEI converted the filenames to English, obtained metadata from OSCAR for as many stations as possible and placed the data for 25 of the stations into the standard WMO Normals format for CSV files.

The original pdf file containing the data from the Member is provided. In addition the CSV files produced by NCEI are provided. Users are advised to note that errors in translation from the provided pdf file are possible.

PDF File	CSV Files
КЛИНО_Кыргызстан.pdf	Ak-Terek_38476.csv
	Ala-Archa_38486.csv
	Balykchy_36927.csv
	Bishkek_38353.csv
	Chaek_38482.csv
	Chatkal_38471.csv
	Cholpon-Ata_36934.csv
	Dolon_36963.csv
	Dzhalal-Aba_38613.csv
	Isfana_38722.csv
	Issyk-Ata_36914.csv
	It-Agar_38349.csv
	Kara-Suu_38616.csv
	Kyzyl-Adyr_38342.csv
	Kyzyl-Suu_36944.csv
	Naryn_36974.csv
	Sary-Tash_38871.csv
	Suusamyr_38358.csv
	Talas_38345.csv
	Teo-Ashuu_38359.csv
	Tian-Shan_36982.csv
	Tokmak_36911.csv
	Toktogul_38473.csv
	Uzgen_38621.csv
	Zhany-Jer_38228.csv

# Laos, 1991-2020 Climatological Normals

# **Explanatory Information**

The WMO member provided data for eight (8) stations in individual Excel files. NCEI converted these 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 produced by NCEI.

Excel Files	CSV Files
LuangPrabang.xls	Luangprabang 48930.csv
Pakse.xls	Pakse_48955.csv
Salavane.xls	Salavane_48952.csv
Savannakhet.xls	Savannakhet_48947.csv
Seno.xls	Seno_48948.csv
Thakhek.xls	Thakhek_48946.csv
VientianeCapital.xls	VientianeCapital_48940.csv
Xayabouly.xls	Xayabouly_48938.csv

# Macao, 1991-2020 Climatological Normals

# **Explanatory Information**

The WMO Member provided data for one (1) station in one Excel file. NCEI converted the Excel file to a Comma Separated Values (CSV) file to aid in quality control, mapping, and comparison to Normals from other countries.

The original Excel file is provided along with the CSV file produced by NCEI.

Excel Files	CSV Files
TaipaGrande_45011.xls	TaipaGrande_45011.csv

# Maldives, 1991-2020 Climatological Normals

# **Explanatory Information**

The WMO Member provided data for five (5) stations in individual Comma Separated Values (CSV) files.

The list of CSV files is provided below.

Excel Files	CSV Files
N/A	Gan_43599.csv
	Hanimaadhoo_43533.csv
	Hulhule_43555.csv
	Kaadedhdhoo_43588.csv
	Kadhdhoo_43577.csv

# Mongolia, 1991-2020 Climatological Normals

# **Explanatory Information**

The WMO member provided data for 59 stations in individual Comma Separated Values (CSV) files.

Users are asked to note that for most monthly and annual 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	Altai_44277.csv
	Arvaikheer_44288.csv
	Baitag_44265.csv
	Baruunkharaa_44241.csv
	Baruunturuun_44213.csv
	BaruunUrt_44305.csv
	Bayanbulag_44275.csv
	Bayandelger_44352.csv
	Bayankhongor_44287.csv
	BayanOvoo_44302.csv
	BayanUul_44221.csv
	Binder_44257.csv
	Bogd_44338.csv
	Bulgan_44239.csv
	Choibalsan_44259.csv
	Choir_44298.csv
	Dadal_44254.csv
	Dalanzadgad_44373.csv
	Dashbalbar_44256.csv
	Durvuljin_44219.csv
	Erdenemandal_44237.csv
	Erdenesant_44286.csv
	Erdenetsagaan_44317.csv
	Galuut_44284.csv
	Gurvantes_44374.csv
	Jinst_44329.csv
	Khalkhgol_44313.csv
	Khatgal_44207.csv
	Khovd_44218.csv
	Khujirt_44285.csv
	Khutag_44232.csv
	Khuvsgul_44386.csv
	Maanit_44294.csv
	Mandakh_44348.csv

Mandalgobi\_44341.csv

Matad\_44314.csv

Muren\_44231.csv

Nogoonnuur\_44210.csv

OmnoGobiHarUs\_44215.csv

Orkhon\_44242.csv

Renchinlkhumbe\_44203.csv

SaikhanOvoo\_44336.csv

Sainshand\_44354.csv

Tarialan\_44230.csv

Tariat\_44229.csv

Tonkhil\_44266.csv

Tooroi\_44325.csv

Tosontsengel\_44225.csv

TsetsenUul\_44224.csv

Tsetserleg\_44282.csv

TsogtOvoo\_44347.csv

Ulaanbaatar\_44292.csv

Ulaangom\_44212.csv

Ulgii\_44214.csv

Uliastai\_44272.csv

Underkhaan\_44304.csv

Yeroo\_44243.csv

ZamynUud\_44358.csv

Zavkhan\_44216.csv

#### Myanmar, 1991-2020 Climatological Normals

#### **Explanatory Information**

The WMO member provided data for 49 stations in individual Excel files. NCEI converted these files 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) 31 stations provided Mean Vapor Pressure. All values were clearly erroneous (possibly computed as station pressure). NCEI set all values to missing in the csv files.
- 2) For station Myeik (48110) NCEI found the annual precipitation to be inaccurate. It appeared to have been computed as an Average of the Monthly totals rather than a sum of the monthly totals in the Excel file. NCEI recomputed the annual Normal and provides it in Myeik 48110.csv.

The original Excel files are provided along with the CSV files produced by NCEI.

Additional information provided by the WMO Member is provided below this table.

Excel Files	CSV Files	
48093_Bago.xlsx	Bago_48093.csv	
48019_Bhamo.xlsx	Bhamo_48019.csv	
48052_Chauk.xlsx	Chauk_48052.csv	
48109_Cocolsland.xlsx	Cocolsland_48109.csv	
48108_Dawei.xlsx	Dawei_48108.csv	
48031_Falam.xlsx	Falam_48031.csv	
48085_Gwa.xlsx	GWA_48085.csv	
48030_Hakha.xlsx	Hakha_48030.csv	
48087_Hinthada.xlsx	Hinthada_48087.csv	
48004_Hkamti.xlsx	Hkamti_48004.csv	
48092_Hmawbi.xlsx	Hmawbi_48092.csv	
48010_Homalin.xlsx	Homalin_48010.csv	
48099_Hpa-an.xlsx	Hpaan_48099.csv	
48097_Kaba_aye.xlsx	Kabaaye_48097.csv	
48025_Kalaywa.xlsx	Kalaywa_48025.csv	
48018_Katha.xlsx	Katha_48018.csv	
48112_Kawthong.xlsx	Kawthong_48112.csv	
48060_Kengtung.xlsx	Kengtung_48060.csv	
48051_Kyauktaw.xlsx	Kyaukphyu_48071.csv	
48071_Kyaukphyu.xlsx	Kyauktaw_48051.csv	
48035_Lashio.xlsx	Lashio_48035.csv	
48075_Loikaw.xlsx	Loikaw_48075.csv	
48065_Magway.xlsx	Magway_48065.csv	
48072_Manaung.xlsx	Manaung_48072.csv	
48042_Mandalay.xlsx	Mandalay_48042.csv	
48095_Maubin.xlsx	Maubin_48095.csv	

48020 Mawlaik.xlsx	Mawlaik_48020.csv
48103_Mawlamyine.xlsx	Mawlamyine_48103.csv
48053 Meiktila.xlsx	Meiktila_48053.csv
_	_
48064_Minbu.xlsx	Minbu_48064.csv
48045_Mindat.xlsx	Mindat_48045.csv
48096_Mingaladon.xlsx	Mingaladon_48096.csv
48034_Moekok.xlsx	Moekok_48034.csv
48037_Monywa.xlsx	Monywa_48037.csv
48110_Myeik.xlsx	Myeik_48110.csv
48008_Myitkyina.xlsx	Myitkyina_48008.csv
48048_Nyaungoo.xlsx	NyaungOo_48048.csv
48094_Pathein.xlsx	Pathein_48094.csv
48001_Putao.xlsx	Putao_48001.csv
48077_Pyay.xlsx	Pyay_48077.csv
48074_Pyinmana.xlsx	Pyinmana_48074.csv
48039_Sagaing.xlsx	Sagaing_48039.csv
48033_Shwebo.xlsx	Shwebo_48033.csv
48062_Sittwe.xlsx	Sittwe_48062.csv
48057_Taunggyi.xlsx	Taunggyi_48057.csv
48078_Taungoo.xlsx	Taungoo_48078.csv
48080_Thandwe.xlsx	Thandwe_48080.csv
48098_Thaton.xlsx	Thaton_48098.csv
48107_Yay.xlsx	Yay_48107.csv

# Additional Explanatory Information provided by the WMO Member. Those without data for Pressure are indicated with a '\*' in the Station Category Field.

	WMO	Station	Location		Elevation	Opened	Station
Sr .No	Index No	Name	Lat(N)	Long(E)	(m)	Date	Category
1	48001	Putao	27°20'	97°25'	409	16.09.1967	MET
2	48004	Hkamti	25°01'	95°42'	146	01.07.1965	MET&HYDRO*
3	48008	Myitkyina	25°22'	97°11'	145	22.06.1966	Aviation
4	48010	Homalin	24°52'	94°55'	130	23.08.1965	MET&HYDRO
5	48018	Katha	24°10'	96°20'	113	01.02.1965	MET&HYDRO
6	48019	Bhamo	24°16'	97°12	111	27.04.1966	MET&HYDRO
7	48020	Mawlaik	23°38'	94°25'	115	01.04.1965	MET&HYDRO*
8	48025	Kalaywa	23°12'	94°18'	109	02.03.1965	MET&HYDRO
9	48030	Hakha	22°38'	93°35'	1866	8.8.1980	MET*
10	48031	Falam	22°55'	93°41'	1372	31.12.1964	MET*
11	48033	Shwebo	22°35'	95°43'	106	05.06.1964	MET*
12	48034	Moekok	22°55'	96°30'	1176	7.10.1982	MET*
13	48035	Lashio	22°56'	97°45'	747	22.03.1952	MET

No

No

No

No No No

14	48037	Monywa	22°14'	95°14'	81	15.02.1965	MET&HYDRO
15	48039	Sagaing	21°54'	95°36'	64	20.1.1965	MET&HYDRO*
16	48042	Mandalay	21°59'	96°06'	74	15.03.1947	MET
17	48045	Mindat	22°22'	93°57'	1395	12.05.1965	MET*
18	48048	NyaungOo	21°12'	94°54'	61	13.02.1965	MET&HYDRO
19	48051	Kyauktaw	20°54'	92°59'	3	17.3.1987	MET&HYDRO*
20	48052	Chauk	20°54'	94°54'	82	01.01.1968	MET&HYDRO*
21	48053	Meiktila	20°53'	95°53'	214	15.09.1956	Aviation
22	48057	Taunggyi	20°47'	97°03'	1436	13.08.1950	MET*
23	48060	Kengtung	21°18'	99°37'	827	14.03.1951	MET
24	48062	Sittwe	20°08'	92°53'	4	17.06.1947	MET
25	48064	Minbu	20°10'	94°53'	51	01.02.1964	MET&HYDRO
26	48065	Magway	20°08'	94°55'	52	10.07.1973	MET&HYDRO*
27	48071	Kyaukpyu	19°26'	93°34'	5	03.04.1964	MET
28	48072	Manaung	18°50'	93°45'	9	1.5.1973	MET
29	48074	Pyinmana	19°43'	96°13'	101	01.01.1964	MET&HYDRO*
30	48075	Loikaw	19°41'	97°13'	895	01.04.1964	MET*
31	48077	Pyay	18°48'	95°13'	58	05.06.1965	MET&HYDRO
32	48078	Taungoo	18°55'	96°28'	47	01.03.1965	MET&HYDRO
33	48080	Thandwe	18°28'	94°25'	9	20.1.1947	MET&HYDRO
34	48085	Gwa	17°35'	94°35'	3	30.9.1982	MET*
35	48087	Hinthada	17°40'	95°25'	26	13.06.1958	MET&HYDRO*
36	48092	Hmawbi	17°06'	96°04'	27	01.09.1953	Aviation
37	48093	Bago	17°20'	96°30'	15	01.03.1965	MET&HYDRO*
38	48094	Pathein	16°46'	94°46'	9	05.02.1947	MET&HYDRO
39	48095	Maubin	16°44'	95°39'	3	10.08.1953	MET&HYDRO
40	48096	Mingaladon	16°54'	96°10'	28	01.12.1947	Aviation*
41	48097	Kaba-Aye	16°52'	96°11'	20	01.10.1968	MET&HYDRO
42	48098	Thaton	16°55'	97°22'	17	01.01.1967	MET*
43	48099	Hpa-an	16°45'	97°40'	9	05.05.1964	MET&HYDRO
44	48103	Mawlamyine	16°30'	97°37'	21	10.10.1952	MET&HYDRO
45	48107	Yay	15°15'	97°11'	3	30.05.1964	MET
46	48108	Dawei	14°06'	98°13'	16	01.10.1946	MET&HYDRO
47	48109	Coco Island	14°07'	93°23'	3	26.12.1959	MET
48	48110	Myeik	12°26'	98°36'	36	23.04.1947	MET
49	48112	Kawthong	09°58'	98°35'	46	27.04.1947	MET

No

No

No No

No

No

No No

No No

No

No

No

# Nepal, 1991-2020 Climatological Normals

# **Explanatory Information**

The WMO Member provided data for 15 stations in individual Comma Separated Values (CSV) files.

The list of CSV files is provided below.

Excel Files	CSV Files
N/A	Bhairahawa_44438.csv
	Biratnagar_44478.csv
	Dadeldhura_44404.csv
	Dang_44429.csv
	Dhangadhi_44409.csv
	Dhankuta_44477.csv
	Dipayal_44406.csv
	Jumla_44424.csv
	Kathmandu_44454.csv
	Nepalgunj_44418.csv
	Okhaldhunga_44462.csv
	Pokhara_44434.csv
	Simara_44449.csv
	Surkhet_44416.csv
	Taplejung_44474.csv

# Oman, 1991-2020 Climatological Normals Explanatory Information

The WMO member provided data for 11 stations in one Excel file containing multiple spreadsheets. NCEI converted the spreadsheets to 11 individual Comma Separated Values (CSV) files to aid in quality control, mapping, and comparison to Normals from other countries.

Users are asked to note that for station Saiq airport (41254) the Mean Sea Level Pressure values do not appear to be reflective of expected mean sea level pressure at this location. NCEI set these to missing in the CSV file.

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

Excel Files	CSV Files
Oman_WMO_Normals_9120.xls	Fahud_Airport_41262.csv
	Khasab_Port_41240.csv
	Masirah_41288.csv
	MinaSuQa_41258.csv
	Muscat_Int_41256.csv
	Qairoon_Hairiti_41315.csv
	Saiq_airport_41254.csv
	Salalah_airport_41316.csv
	Salalah_port_41312.csv
	Sohar-Majis_41246.csv
	Thumrait_41314.csv

# Pakistan, 1991-2020 Climatological Normals

# **Explanatory Information**

The WMO member provided data for 25 stations in individual Comma Separated Value (CSV) files.

Users are advised to note that for high elevation stations in Pakistan, the average of the geopotential height of the 850 hPa level are provided rather than Mean Sea Level field. NCEI changed the Parameter Name and the Parameter number for these stations from '6' to '99' in the CSV files. These stations are identified in bold font.

Excel Files	CSV Files
N/A	Barkhan_41685.csv
	Chhor_41768.csv
	Dalbandin_41712.csv
	Darosh_41515.csv
	DIKhan_41624.csv
	Hyderabad_41764.csv
	Islamabad_41571.csv
	Jacobabad_41715.csv
	Jhelum_41598.csv
	Jiwani_41756.csv
	Karachi_41780.csv
	Khanpur_41718.csv
	Khuzdar_41744.csv
	Lahore_41640.csv
	Multan_41675.csv
	Nawabshah_41749.csv
	Nokkundi_41710.csv
	Panjgur_41739.csv
	Parachinar_41560.csv
	Pasni_41759.csv
	Peshawar_41529.csv
	Quetta_41660.csv
	Sarghoda_41594.csv
	Sialkot_41600.csv
	Zhob_41620.csv

#### Russian Federation (In Asia), 1991-2020 Climatological Normals

# **Explanatory Information**

The WMO Member provided data for 87 stations in individual Comma Separated Values (CSV) files.

Users are asked to note that for station Petropav Kamchatskij, the annual mean vapor pressure value was originally provided as 65. NCEI recomputed the annual average from the monthly values and confirmed the value should be 6.5. This value replaces the original value in PetropavKamchatskij\_32583.csv.

The list of all CSV files is provided below. Additional information is provided by the WMO Member below the table.

Excel Files	CSV Files
N/A	Erbogacen_24817.csv
	GmoImEKFedorova_20292.csv
	Habarovsk_31735.csv
	HantyMansijsk_23933.csv
	Hatanga_20891.csv
	HosedaHard_23219.csv
	Ica_32411.csv
	Ilirnej_25248.csv
	ImPolinyOsipenko_31416.csv
	Irkutsk_30710.csv
	Isit_24951.csv
	lvdel_23921.csv
	Izhevsk_28411.csv
	Jakutsk_24959.csv
	JuzhnoKurilSk_32165.csv
	JuzhnoSahalin_32150.csv
	Kamenskoe_25745.csv
	Kirensk_30230.csv
	Kjahta_30925.csv
	Kljuchi_32389.csv
	Kolpasevo_29231.csv
	Korf_25954.csv
	Krasnojarsk_29570.csv
	Krasnoufimsk_28434.csv
	Kurgan_28661.csv
	Kyra_30949.csv
	Leusi_28064.csv
	Magadan_25913.csv
	MalyeKarmakuly_20744.csv
	Markovo_25551.csv
	Minusinsk_29866.csv

Mogocha\_30673.csv

MysUelen\_25399.csv

NarJanMar\_23205.csv

NerchinskijZavod 30879.csv

NikolaevskNaAmure\_31369.csv

Nizhneangarsk\_30433.csv

Nizhneudinsk 29698.csv

Njaksimvol\_23724.csv

Norsk\_31388.csv

Ohotsk 31088.csv

Ojmjakon\_24688.csv

Olekminsk\_24944.csv

Olenek 24125.csv

Omsk\_28698.csv

Orenburg\_35121.csv

OstrovBeringa\_32618.csv

OstrovDikson\_20674.csv

OstrovKotelNyj\_21432.csv

OstrovVize\_20069.csv

OstrovVrangelja\_21982.csv

Pechora\_23418.csv

PetropavKamchatskij\_32583.csv

Pogranichnyj\_31915.csv

Poronajsk\_32098.csv

Sadrinsk\_28552.csv

Salekhard\_23330.csv

Samara\_28900.csv

Sejmchan\_25703.csv

Shelagontsy\_24329.csv

Sretensk\_30777.csv

Suntar\_24738.csv

Syktyvkar 23804.csv

Tara\_28493.csv

TarkoSale\_23552.csv

Ternej\_31909.csv

TobolSk\_28275.csv

Tomsk\_29430.csv

TroickijPriisk\_30555.csv

TroickoPecherskoe 23711.csv

Tura 24507.csv

Turuhansk\_23472.csv

UfaDioma\_28722.csv

UlanUde\_30823.csv

UstBarguzin\_30635.csv

UstCilMa 23405.csv
UstKamchatsk_32408.csv
UstMajya_24966.csv
UstVoyampolka_32252.csv
Vanavara_24908.csv
Verhojansk_24266.csv
Viljujsk 24641.csv
Vitim_30054.csv
Vladivostok_31960.csv
Zhigalovo_30521.csv
Zhigansk 24343.csv
Zyryanka_25400.csv

#### Saudi Arabia, 1991-2020 Climatological Normals

### **Explanatory Information**

The WMO member provided data for 31 stations in one Excel file containing multiple spreadsheets. NCEI converted the spreadsheets to 11 individual 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 submission of Al-Olaa (40401) did not include location and elevation metadata. NCEI determined the location for this station to be 26°29′0″N 038°7′1″E and 624 meters. NCEI added this metadata to the file Al-Olaa\_40401.csv.

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

Excel Files	CSV Files
SaudiArabia_WMO_Normals_9120.xlsx	Abha_41112.csv
	Al-Ahsa_40420.csv
	Al-Baha_41055.csv
	Al-Jouf_40361.csv
	Al-Olaa_40401.csv
	ARAFAT_41032.csv
	Arar_40357.csv
	Bisha_41084.csv
	Dhahran_40416.csv
	Gassim_40405.csv
	Gizan_41140.csv
	Guriat_40360.csv
	Hafr-Al-Batin_40377.csv
	Hail_40394.csv
	Jeddah_KAIA_41024.csv
	KFIA_40417.csv
	Khamis-Mushait_41114.csv
	Madinah_40430.csv
	Makkah_41030.csv
	Najran_41128.csv
	Qaisumah_40373.csv
	Rafha_40362.csv
	RiyadhNew_40437.csv
	RiyadhOld_40438.csv
	Sharorah_41136.csv
	Tabuk_40375.csv
	Taif_41036.csv
	Turaif_40356.csv
	Wadi-Al-Dawasser_41061.csv
	Wejh_40400.csv
	Yenbo_40439.csv

# Sri Lanka, 1991-2020 Climatological Normals

# **Explanatory Information**

The WMO Member provided data for 20 stations in individual Comma Separated Values (CSV) files.

Users are asked to note that for most monthly and annual 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	Anuradhapura_43421.csv
	Badulla_43479.csv
	Bandarawela_43476.csv
	Batticaloa_43436.csv
	Colombo_43466.csv
	Galle_43495.csv
	Hambantota_43497.csv
	Jaffna_43404.csv
	Katugastota_43444.csv
	Katunayaka_43450.csv
	Kurunegala_43441.csv
	MahaIllupallama_43422.csv
	Mannar_43413.csv
	NuwaraEliya_43473.csv
	Pottuvil_43999.csv
	Puttalam_43424.csv
	Rathmalana_43467.csv
	Ratnapura_43486.csv
	Trincomalee_43418.csv
	Vavuniya_43415.csv

# Thailand, 1991-2020 Climatological Normals

# **Explanatory Information**

The WMO Member provided data for 75 stations in individual Comma Separated Values (CSV) files.

The list of CSV files is provided below.

Excel Files	CSV Files
N/A	AranyaPrathet_48462.csv
	BangkokMetropolis_48455.csv
	BangkokPortKlongToei_48454.csv
	BhumibolDam_48377.csv
	BuaChum_48418.csv
	Chaiyaphum_48403.csv
	ChanthaBuri_48480.csv
	ChiangMai_48327.csv
	ChiangRai_48303.csv
	ChokChai_48434.csv
	ChonBuri_48459.csv
	Chumphon_48517.csv
	DonMuangAirport_48456.csv
	HatYaiAirport 48569.csv
	HuaHin_48475.csv
	KabinBuri_48439.csv
	Kalasin_48390.csv
	KamphaengPhet_48380.csv
	KanchanaBuri_48450.csv
	KhonKaen_48381.csv
	KoLanta_48566.csv
	KoSamui_48550.csv
	KoSichang_48460.csv
	Lampang_48328.csv
	Lamphun_48329.csv
	Loei 48353.csv
	LomSak_48374.csv
	LopBuri_48426.csv
	MaeHongSon_48300.csv
	MaeSariang 48325.csv
	MaeSot_48375.csv
	Mahasarakham_48382.csv
	Mukdahan 48383.csv
	NakhonPhanom_48357.csv
	NakhonRatchasima 48431.csv
	NakhonSawan_48400.csv

NakhonsiThammarat\_48552.csv

Nan\_48331.csv

NangRong\_48436.csv

Narathiwat 48583.csv

NongKhai\_48352.csv

PattaniAirport\_48580.csv

Phatthaya\_48461.csv

Phayao\_48310.csv

Phetchabun\_48379.csv

PhetchaBuri 48465.csv

Phitsanulok\_48378.csv

Phrae\_48330.csv

Phuket 48564.csv

PhuketAirport\_48565.csv

PilotStation\_48457.csv

PrachinBuri\_48430.csv

PrachuapKhirikhan\_48500.csv

Ranong\_48532.csv

Rayong\_48478.csv

RoiEt 48405.csv

SakonNakhon\_48356.csv

Sattahip\_48477.csv

Satun\_48570.csv

Songkhla\_48568.csv

SuphanBuri\_48425.csv

SuratThani\_48551.csv

Surin\_48432.csv

Tak\_48376.csv

TakuaPa 48561.csv

ThaTum\_48416.csv

ThaWangPha\_48315.csv

ThongPhaphum 48421.csv

Trad\_48501.csv

TrangAirport\_48567.csv

UbonRatchathani\_48407.csv

UdonThani\_48354.csv

Umphang\_48385.csv

Uttaradit\_48351.csv

WichianBuri\_48413.csv

# Turkmenistan, 1991-2020 Climatological Normals

# **Explanatory Information**

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

The list of CSV files is provided below.

Excel Files	CSV Files
N/A	BAGTYYARLYK_38799.csv
N/A	_
	BAHERDEN_38774.csv
	Bayramaly_38895.csv
	BEREKET_38647.csv
	Erbent_38656 .csv
	Kerki_38911.csv
	SARAHS_38974.csv
	SERHETABAT_38987.csv
	TEJEN_38886.csv

#### **UAE, 1991-2020 Climatological Normals**

#### **Explanatory Information**

The WMO member provided data for six (6) stations in individual Excel files. NCEI converted these 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 produced by NCEI. Additional explanatory information provided by the WMO Member is included below this table.

Excel Files	CSV Files
AbuDhabiIntlAirport_41217.xlsx	AbuDhabiIntlAirport_41217.csv
AlAinIntlAirport_41218.xlsx	AlAinIntlAirport_41218.csv
AlFujairahIntlAirport_41198.xlsx	AlFujairahIntlAirport_41198.csv
DubaiIntlAirport_41194.xlsx	DubaiIntlAirport_41194.csv
RasAlKhaimahIntlAirport_41184.xlsx	RasAlKhaimahIntlAirport_41184.csv
SharjahIntlAirport_41196.xlsx	SharjahIntlAirport_41196.csv

# Additional Explanatory Information provided by the WMO Member

Please note that all stations cover the period  $\underline{1991-2020}$  except Al Ain Airport data which is available from  $\underline{1995}$  to  $\underline{2020}$ .

# Uzbekistan, 1991-2020 Climatological Normals

# **Explanatory Information**

The WMO Member provided data for 32 stations in individual Comma Separated Values (CSV) files.

The list of all CSV files is provided below.

Excel Files	CSV Files
N/A	Akbajtal_38178.csv
	Andizan_38475.csv
	Angren_38465.csv
	Ayakagitma_38553.csv
	Bahmal_38711.csv
	Baysun_38827.csv
	Buhara_38683.csv
	Buzaubaj_38403.csv
	Chimbaj_38262.csv
	Chimgan_38706.csv
	Dalverzin_38594.csv
	Dzizak_38579.csv
	Fergana_38618.csv
	Jaslyk_38141.csv
	Kamchik_38467.csv
	Karakapalkija_38023.csv
	Karshi_38812.csv
	Kushrabad_38563.csv
	Minchukur_38816.csv
	Mubarek_38697.csv
	Namangan_38611.csv
	Navoiy_38567.csv
	Nukus_38264.csv
	Samarkand_38696.csv
	Shahrisabz_38699.csv
	Sirdarya_38583.csv
	Tamdy_38413.csv
	Tashkent_38457.csv
	Termez_38927.csv
	Urgench_38396.csv
	Yangiyer_38589.csv