



Supplement of

Dataset of stable isotopes of precipitation in the Eurasian continent

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Table S1 Precipitation Stable Isotope Site Information

Site_Name	Latitude	Longitude	Elevation (m)	Earliest Collection Date	Latest Collection Date	Data Source
10-TG-16w	32.9159	91.9596	5126.0000	2008.01.01	2008.01.01	WaterIsotopes.org
12QH18	34.4752	97.7328	4413.0000	2012.05.05	2012.05.05	WaterIsotopes.org
A CORUNA	43.3659	-8.4214	58.0000	2000.02.15	2016.12.15	GNIP
Aba	31.9300	101.7200		2021.07.06	2022.04.04	Measured data
ADANA	36.9800	35.3000	73.0000	1990.01.15	2016.12.15	GNIP
ADZ SG RF	1.2953	103.7711		2015.03.06	2015.03.27	WaterIsotopes.org
Akita	39.4300	140.8000	10.0000	2013.01.27	2014.01.03	WaterIsotopes.org
Akita-kita	39.4800	140.2000	20.0000	2013.02.01	2014.01.07	WaterIsotopes.org
Aktumsuk	45.0918	59.3451		2006.03.15	2006.03.15	WaterIsotopes.org
ALEPPO	36.1833	37.2167	410.0000	1989.12.15	1992.05.15	GNIP
ALEXANDRIA	31.1833	29.9500	7.0000	1961.10.15	2004.04.15	GNIP
ALMERIA AEROPUERTO	36.8464	-2.3569	21.0000	2000.04.15	2016.12.15	GNIP
ALOR STAR	6.2000	100.4000	5.0000	1992.02.15	2016.12.15	GNIP
ALTNABREAC	58.3833	-3.7000	155.0000	1981.08.15	1982.08.15	GNIP
AMDERMA	69.7667	61.6833	53.0000	1981.01.15	1989.09.15	GNIP
AMMAN-WAJ	31.9577	35.8483	900.0000	1999.01.15	2018.12.15	GNIP
ANCONA-MONTE D'AGO	43.5870	13.5153	170.0000	2000.10.15	2018.11.15	GNIP
ANDALO	46.1667	11.0000	1005.0000	1999.09.30	1999.09.30	WaterIsotopes.org
ANIP, HZB Nr. 101287	47.3883	11.2631	990.0000	1993.01.15	2002.12.15	WaterIsotopes.org
ANIP, HZB Nr. 102343	47.0000	11.5167	1450.0000	1991.01.15	2000.12.15	WaterIsotopes.org
ANIP, HZB Nr. 103820	47.5961	13.1644	470.0000	2007.01.15	2013.12.15	WaterIsotopes.org
ANIP, HZB Nr. 105734 (Schule)	47.8040	13.7766	425.0000	1973.01.15	1983.12.15	WaterIsotopes.org
ANIP, HZB Nr. 105908	47.3467	13.3950	910.0000	2007.01.15	2013.12.15	WaterIsotopes.org

ANIP, HZB Nr. 110551	47.8517	16.8431	121.0000	2004.01.15	2013.12.15	WaterIsotop es.org
ANIP, HZB Nr. 110569	47.7431	16.8433	119.0000	1990.01.15	1999.10.15	WaterIsotop es.org
ANIP, HZB Nr. 113324, St. Peter i. Katschtal	47.0283	13.5981	1220.0000	2007.01.15	2013.12.15	WaterIsotop es.org
ANIP, HZB Nr. 113498	46.4896	14.5900	550.0000	2007.01.15	2013.12.15	WaterIsotop es.org
ANIP, HZB Nr. 113886 Seeberg	46.4225	14.5422	940.0000	2007.01.15	2013.12.15	WaterIsotop es.org
ANIP, HZB Nr. 114173 Flughafen	46.6484	14.3185	447.0000	2004.01.15	2013.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 100552	47.3115	10.0177	835.0000	2004.01.15	2013.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 100776 Rieden	47.4886	9.7366	410.0000	2004.01.15	2012.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 101238 Reutte	47.4833	10.7500	870.0000	2007.01.15	2013.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 101345	47.5333	11.7000	904.0000	1996.01.15	2002.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 102210 Obergurgl	46.8667	11.0333	1940.0000	2007.01.15	2011.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 102236	47.0764	10.9700	1180.0000	2007.01.15	2013.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 102327 Flughafen	47.2575	11.3539	580.0000	2007.01.15	2014.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 102418 Patscherkofel	47.2088	11.4618	2245.0000	2005.01.15	2009.10.15	WaterIsotop es.org
ANIP, HZB-Nr. 102814	47.5833	12.1667	495.0000	2010.01.15	2014.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 102939	47.2500	10.8833	695.0000	1994.10.15	2002.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 103853 Flughafen	47.7942	13.0017	430.0000	2007.01.15	2013.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 104323 Braunau	48.2539	13.0767	360.0000	2005.01.15	2013.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 105130	47.6000	13.7833	640.0000	1996.01.15	2002.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 105296 Feuerkogel	47.8167	13.7239	1618.0000	2007.01.15	2013.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 105684	47.9044	13.5722	469.0000	2007.01.15	2013.12.15	WaterIsotop es.org

ANIP, HZB-Nr. 106542 Breitenau	47.8464	14.3569	514.0000	2005.01.15	2013.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 106567 Planneralm	47.4048	14.2009	1605.0000	2009.01.15	2013.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 107011 Lackenhof	47.8700	15.1539	807.0000	2009.01.15	2012.09.15	WaterIsotop es.org
ANIP, HZB-Nr. 107607 Ottenstein	48.5836	15.3408	554.0000	2007.01.15	2013.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 107979 Hohe Warte	48.2486	16.3563	198.0000	2005.01.15	2014.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 108456	47.8769	15.8934	495.0000	2007.01.15	2013.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 112599 Karlgraben	47.6823	15.5627	775.0000	2008.01.15	2013.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 113001	46.7454	12.4078	1075.0000	2009.01.15	2013.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 113498 Villacher Alpe	46.6036	13.6728	2120.0000	2007.01.15	2013.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 113522	46.6246	13.6867	907.0000	1993.01.15	2002.12.15	WaterIsotop es.org
ANIP, HZB-Nr. 114280 St. Michael	46.5586	14.7670	527.0000	1993.01.15	2002.12.15	WaterIsotop es.org
ANIP, HZB-Nr. WEISSBACH	47.5833	12.7000	629.0000	1983.01.15	1989.12.15	WaterIsotop es.org
ANip, HZB-Nr.106252	47.6544	14.9809	610.0000	2007.01.15	2013.12.15	WaterIsotop es.org
ANIP, Wasseralm HZB Nr. 110155	47.7350	15.6484	774.0000	1989.01.15	1998.12.15	WaterIsotop es.org
ANKARA	39.9500	32.8800	902.0000	1990.01.15	2016.12.15	GNIP
ANTALYA	36.8800	30.7000	49.0000	1990.01.15	2016.12.15	GNIP
ANY	35.7475	138.4166	526.0000	2010.07.15	2015.06.15	WaterIsotop es.org
Aomori	40.4900	140.4500	5.0000	2013.01.30	2014.01.01	WaterIsotop es.org
AQABA	29.5500	34.9000	2.0000	2002.01.15	2002.01.15	GNIP
Arakawa	35.4300	139.4500	20.0000	2013.02.06	2013.12.28	WaterIsotop es.org
ARKHANGELSK	64.5800	40.5000	13.0000	1981.02.15	1990.11.15	GNIP
ARKONA	54.6789	13.4342	42.0000	1997.06.15	2008.07.15	GNIP
ARMAGH OBSERVATORY	54.3533	-6.6483	64.0000	2012.05.15	2019.12.15	GNIP
Artashat	39.9322	44.5214	820.8000	2014.07.06	2015.04.28	WaterIsotop

						es.org
ARTERN	51.3744	11.2919	164.0000	1997.06.15	2013.12.15	GNIP
ASTRAKHAN	46.2500	48.0300	-18.0000	1981.01.15	2000.12.15	GNIP
AT_0007	47.7351	15.6486		2005.06.07	2005.08.11	WaterIsotop es.org
AT_0007_007	47.7351	15.6486		2005.06.04	2005.06.04	WaterIsotop es.org
AT_0141	47.7267	13.0354	510.0000	2012.05.25	2012.12.04	WaterIsotop es.org
AT_0144	47.7215	12.9843	1396.0000	2012.05.25	2012.10.10	WaterIsotop es.org
AT_1203	46.7156	13.0404	1391.0000	1995.01.01	1995.10.01	WaterIsotop es.org
AT_1207	46.6762	12.9966	705.0000	1995.02.01	1995.09.01	WaterIsotop es.org
AT_2088	48.5239	16.7556	205.0000	2009.01.15	2013.12.15	WaterIsotop es.org
AT_2338	48.3297	14.2586	490.0000	2009.01.15	2013.12.15	WaterIsotop es.org
AT_2402	47.0868	13.1151	1120.0000	1988.01.15	1997.12.15	WaterIsotop es.org
AT_2433	47.0777	15.4489	366.0000	2004.01.15	2013.12.15	WaterIsotop es.org
AT_2434	47.6409	13.8919	710.0000	2011.01.15	2013.12.15	WaterIsotop es.org
AT_2704	48.1833	16.4000	156.4800	2015.01.23	2020.5.16	WaterIsotop es.org
ATHENS-PENDELI	38.0501	23.8667	498.0000	2001.01.15	2018.12.15	GNIP
AVIGNON	43.9128	4.8888	33.0000	1997.04.15	2018.12.15	GNIP
Ayouqui weather station (AYQ)	39.2200	101.6800	1620.0000	2013.07.12	2017.07.08	WaterIsotop es.org
BAB-JANET	35.5722	36.1897	1100.0000	1992.12.15	1993.04.15	GNIP
BAD SALZUFLEN	52.1042	8.7519	135.0000	1990.01.15	2011.12.15	GNIP
BAGDARIN	54.4667	113.5833	903.0000	1996.04.15	2000.10.15	GNIP
BAHRAIN	26.2700	50.6200	2.0000	1970.01.15	2018.10.15	GNIP
Baiyin	36.5400	104.1740		2020.07.25	2021.07.02	Measured data
BAKURIANI	41.7333	43.5167	1665.0000	2008.03.15	2018.12.15	GNIP
BALAS-BALAS	9.2900	123.1700	827.0000	1997.01.15	1998.12.15	GNIP
BALTI	47.7000	27.8833	231.0000	2007.09.15	2015.08.15	GNIP
BANDARBAN	22.2000	92.2000	24.0000	2015.03.15	2018.09.15	GNIP
BANGKOK	13.7300	100.5000	2.0000	1990.01.15	2015.11.15	GNIP
Baoji	34.3693	107.1449		2020.10.14	2021.11.10	Measured

						data
Baoshan	25.0800	99.1000		2021.05.06	2022.01.14	Measured data
BAOTOU	40.6700	109.8500	1067.0000	1986.03.15	1992.10.15	GNIP
Baotou	40.6500	109.8300		2021.05.13	2021.08.03	Measured data
BARABINSK	55.3333	78.3667	120.0000	1996.06.15	2000.12.15	GNIP
BARI	41.1333	16.8500	24.0000	2001.12.31	2001.12.31	WaterIsotopes.org
BARISAL	22.7000	90.3600	10.0000	2013.05.15	2018.10.15	GNIP
Barisal	22.7210	90.3520		2013.05.06	2015.12.19	WaterIsotopes.org
BASOVIZZA	45.6439	13.8639	397.0000	1999.01.31	1999.01.31	WaterIsotopes.org
BATTIPAGLIA	40.6167	14.9667	71.0000	2001.05.31	2001.05.31	WaterIsotopes.org
Bayan Nur	40.7574	107.4170		2021.05.22	2021.09.15	Measured data
BAYIR	30.7619	36.6769	902.0000	1968.11.15	1968.11.15	GNIP
BEEK	50.9200	5.7800	111.0000	1981.01.15	1992.04.15	GNIP
BEER SHEVA	31.2300	34.7800	270.0000	1965.11.15	1968.01.15	GNIP
BELGAUM	15.8806	74.4933	747.0000	2003.08.15	2005.10.15	GNIP
BELLINZAGO	45.5667	8.6333	190.0000	2000.12.31	2000.12.31	WaterIsotopes.org
BERLIN	52.4672	13.4019	48.0000	1990.01.15	2012.12.15	GNIP
BERN	46.9522	7.4393	511.0000	1990.01.15	2012.12.15	GNIP
BET DAGAN	31.9973	34.8162	39.0000	1984.01.15	2001.05.15	GNIP
BEYROUTH	33.8719	35.5097	19.0000	2003.11.15	2006.03.15	GNIP
Biandianzhan	37.3300	101.5100		2021.11.27	2021.11.27	Measured data
BLOUDAN	33.7250	36.1303	1540.0000	1989.12.15	1993.04.15	GNIP
BOGDARIN	54.6200	113.1300	995.0000	1996.01.31	2000.12.31	WaterIsotopes.org
BOLOGNA	44.4833	11.3333	54.0000	1996.03.15	2001.08.31	WaterIsotopes.org
BONGA	13.0300	123.9200	600.0000	1997.01.15	1998.12.15	GNIP
BOSSEA	44.2333	7.8500	820.0000	2000.11.15	2001.03.15	GNIP
BRAAKMAN	51.3000	3.7500	2.0000	1988.07.15	1992.04.15	GNIP
BRASIMONE	44.0900	11.0800	842.0000	1971.09.15	1986.04.15	GNIP
Brasimone	44.1165	11.1157		1971.09.01	1986.04.01	References
BRATISLAVA	48.1691	17.1119	286.0000	1992.01.15	1992.02.15	GNIP
BRAUNSCHWEIG	52.2914	10.4464	81.0000	1990.01.15	2012.12.15	GNIP
BRAVICEA	47.4000	28.4917	78.0000	2007.09.15	2015.07.15	GNIP

BREST	52.0944	23.7058	136.0000	1981.01.15	1983.12.15	GNIP
BREST PLOUZANE	48.3600	-4.5700	80.0000	1996.04.15	2002.12.15	GNIP
BUCHS SUHR	47.3723	8.0831	397.0000	1994.07.15	2019.12.15	GNIP
BUSAN	35.2306	129.0803	96.8000	2019.02.15	2020.06.15	GNIP
CACERES	39.4667	-6.3333	405.0000	2000.03.15	2015.12.15	GNIP
CAGBULACAO	11.1200	124.6200	200.0000	1997.02.15	1998.12.15	GNIP
CAGLIARI	39.2167	9.1167	25.0000	1998.08.31	1998.08.31	WaterIsotop es.org
CAHUL	45.8000	28.2000	113.0000	2007.09.15	2015.08.15	GNIP
CAIRO	30.0800	31.2800	34.0000	1987.03.15	2003.03.15	GNIP
CAMERON HIGHLANDS	4.4667	101.3833	1430.0000	1996.02.15	2016.12.15	GNIP
CAMPISTROUS	43.1200	0.3800	600.0000	1997.10.15	1998.12.15	GNIP
CAMPO CARLO MAGNO	46.2333	10.8167	1685.0000	1999.09.30	1999.09.30	WaterIsotop es.org
CANINO	42.4667	11.7500	229.0000	1999.08.31	1999.08.31	WaterIsotop es.org
CARPENTRAS	44.9500	5.7800	99.0000	1997.02.15	1998.12.15	GNIP
CASALE MONFERRATO	45.1400	8.4500	116.0000	2002.02.28	2002.02.28	WaterIsotop es.org
CBS	48.0700	114.5200	759.0000	2002.10.01	2003.09.01	WaterIsotop es.org
CEGLIE MESSAPICO	40.6500	17.5167	302.0000	1999.10.31	1999.10.31	WaterIsotop es.org
Centre for Earth Science, IIS	13.0181	77.5693		2010.06.07	2010.09.16	WaterIsotop es.org
CESTAS-PIERROT ON	44.7381	-0.7747	59.0000	2007.02.15	2018.12.15	GNIP
CHANGCHUN	43.9000	125.2167	237.0000	1999.05.15	2001.11.15	GNIP
CHANGSHA	28.2000	113.0667	37.0000	1988.01.15	1992.12.15	GNIP
CHARCHES	37.2932	-2.9559	1426.0000	2013.01.15	2015.11.15	GNIP
Chat-11	44.8000	34.2900		2011.01.01	2011.12.01	References
CHENGDU	30.6700	104.0200	506.0000	1986.07.15	1998.05.15	GNIP
CHEONGJU	36.6200	127.4600	62.0000	1999.01.15	2016.12.15	GNIP
CHERSKIY	68.7594	161.3425	30.0000	2005.08.15	2010.06.15	GNIP
Chiba	35.3700	140.6000	20.0000	2013.02.01	2013.12.31	WaterIsotop es.org
Chibi	29.7200	113.8800		2021.04.22	2022.02.22	Measured data
Chichibu	35.5600	138.5100	800.0000	2013.01.31	2014.01.06	WaterIsotop es.org
CHISINAU	46.9667	28.9000	125.0000	2007.08.15	2015.07.15	GNIP

CHONGQING (CUNTAN JIANG)	29.6200	106.6000	192.0000	1992.06.15	1992.10.15	GNIP
CHOPOK	48.9330	19.5830	2008.0000	1991.08.15	1992.02.15	GNIP
ChP-12	44.7556	34.3411		2012.01.01	2015.12.08	References
CHUADANGA	23.6400	88.8500	20.0000	2014.05.15	2018.12.15	GNIP
CIUDAD REAL	38.9892	-3.9203	628.0000	2000.01.15	2015.12.15	GNIP
CKM	36.5355	138.0619	763.0000	2011.08.15	2013.10.15	WaterIsotopes.org
CLUJ	46.7800	23.6100	330.0000	2015.01.15	2016.12.15	GNIP
COMACCHIO	44.6975	12.1858	1.0000	2001.05.31	2001.05.31	WaterIsotopes.org
Cona Lake West	32.0568	91.4201	4623.0000	2011.05.12	2013.10.21	WaterIsotopes.org
Corchia	44.0206	10.2842		2009.10.01	2015.10.01	References
COSENZA	39.3000	16.2500	238.0000	2001.07.31	2001.07.31	WaterIsotopes.org
Coxs Bazar	21.4420	91.9690		2015.03.05	2015.12.18	WaterIsotopes.org
COX'S BAZAR	21.4400	91.9900	5.0000	2014.05.15	2018.10.15	GNIP
CUXHAVEN	53.8713	8.7058	5.0000	1990.01.15	2012.12.15	GNIP
DALBAHCE	39.6667	43.8583	1740.0000	1990.04.15	1991.11.15	GNIP
DAMASCUS	33.4200	36.5200	609.0000	1989.12.15	1993.04.15	GNIP
DARFO-BOARIO	45.8833	10.1833	208.0000	1999.01.31	1999.01.31	WaterIsotopes.org
Datanxiang	38.4600	103.1400		2020.07.24	2021.09.05	Measured data
DAX	43.6833	-1.0667	9.0000	1999.01.15	2005.01.15	GNIP
DE BILT	52.1000	5.1800	2.0000	1981.01.15	1991.10.15	GNIP
DE KOOY	52.9300	4.7800	1.0000	1981.01.15	1987.12.15	GNIP
DEVPRAYAG	30.1406	78.5967	465.0000	2004.06.15	2006.10.15	GNIP
DHAKA	23.9528	90.2792	14.0000	2009.03.15	2018.12.15	GNIP
Dilijan	40.7419	44.8636	2104.2000	2014.07.01	2015.04.21	WaterIsotopes.org
DILIMAN QUEZON CITY	14.6400	121.0400	42.0000	2000.01.15	2016.12.15	GNIP
DINAJPUR	25.6200	88.6600	35.0000	2014.02.15	2018.12.15	GNIP
DIYARBAKIR	37.9011	40.2036	686.0000	2008.09.15	2016.12.15	GNIP
DOBRANI	30.9461	78.6881	2050.0000	2004.08.15	2006.09.15	GNIP
DONG HOI	17.4600	106.6200	1.0000	2014.01.15	2018.12.15	GNIP
DRAIX	44.1333	6.3333	851.0000	2004.02.15	2018.12.15	GNIP
DRESDEN	51.0500	13.7300	113.0000	1997.06.15	2001.01.15	GNIP
DUBROVNIK	42.6600	18.0833	52.0000	2000.09.15	2003.12.15	GNIP
DUDINKA	69.4075	86.1806	66.0000	1990.02.15	1990.12.15	GNIP

DUGOPOLJE	43.5833	16.6000	295.0000	2008.03.15	2009.01.15	GNIP
Dunhuang	40.1141	94.6028		2021.05.13	2021.06.15	Measured data
DURRAH	29.3554	34.9603	0.0000	1968.11.15	1969.04.15	GNIP
EDIRNE	41.6781	26.5592	48.0000	2008.07.15	2016.12.15	GNIP
EL-ARISH	31.0800	33.8300	31.0000	2001.01.15	2003.03.15	GNIP
EMMERICH	51.8300	6.2500	43.0000	1990.01.15	2012.11.15	GNIP
ENISEJSK	58.4500	92.1500	78.0000	1990.01.15	1990.12.15	GNIP
ERLANGEN (GEOZENTRUM)	49.5971	11.0055	270.0000	2010.07.15	2018.12.15	GNIP
ERZURUM	39.9106	41.2756	1758.0000	2008.07.15	2016.12.15	GNIP
ESPOO	60.1801	24.8329	30.0000	2000.11.15	2017.12.15	GNIP
Evaristo_SG	1.2953	103.7711		2014.11.11	2015.11.26	WaterIsotop es.org
FANANO 1	44.2000	10.7833	1280.0000	1999.02.28	1999.02.28	WaterIsotop es.org
FANANO 2	44.2000	10.7834	935.0000	1999.02.28	1999.02.28	WaterIsotop es.org
FANANO 3	44.2000	10.7835	660.0000	1999.02.28	1999.02.28	WaterIsotop es.org
FANO	43.8333	13.0167	12.0000	1999.12.31	1999.12.31	WaterIsotop es.org
Fantan	40.3956	44.6681	1779.0000	2014.07.01	2015.02.02	WaterIsotop es.org
FEHMARN	54.5283	11.0603	3.0000	1997.06.15	2013.12.15	GNIP
Fengjie	31.0183	109.4648		2022.01.25	2022.02.08	Measured data
FIRENZE	43.7667	11.2500	50.0000	2001.06.30	2001.06.30	WaterIsotop es.org
FLEAM DYKE	52.1667	0.2500	30.0000	1980.01.15	1983.12.15	GNIP
FONTAINEBLEAU	48.4042	2.6965	79.0000	2016.04.15	2018.09.15	GNIP
Fukui	36.3000	136.1300	10.0000	2013.02.01	2014.01.04	WaterIsotop es.org
Funabashi	35.4300	140.1000	30.0000	2013.02.01	2013.12.27	WaterIsotop es.org
FUNCHAL	32.6333	-16.9000	58.0000	1990.01.15	2017.02.15	GNIP
Furano	43.1300	142.3500	400.0000	2013.01.29	2013.12.31	WaterIsotop es.org
FUZHOU	26.0833	119.2833	16.0000	1985.10.15	1992.12.15	GNIP
Fuzhou	26.0277	119.2103		2021.12.17	2022.04.20	Measured data
GALLO	41.3000	13.9833	825.0000	1998.09.30	1998.09.30	WaterIsotop es.org

GANGOTRI	30.9967	78.9403	3053.0000	2004.06.15	2006.09.15	GNIP
Ganzi	31.9800	100.0000		2022.01.27	2022.05.01	Measured data
Gaotai	39.3783	99.8192		2020.11.21	2022.02.18	Measured data
GARDANNE	43.4500	5.4500	215.0000	1997.04.15	1998.12.15	GNIP
GARMISCH-PART ENKIRCHEN	47.4828	11.0622	719.0000	1990.01.15	2013.12.15	GNIP
GENOA	44.4200	8.8500	2.0000	1990.01.15	2002.01.15	GNIP
GENOVA-SESTRI	44.4167	8.9500	2.0000	1997.12.31	1997.12.31	WaterIsotopes.org
GILZE-RIJEN	51.5700	4.9300	11.0000	1981.01.15	1988.03.15	GNIP
GIRONA	41.9117	2.7633	129.0000	2000.03.15	2015.12.15	GNIP
GOERLITZ	51.1622	14.9506	238.0000	1997.06.15	2013.12.15	GNIP
Gokase	32.4100	131.1100	550.0000	2013.02.01	2013.12.20	WaterIsotopes.org
GOMUKH	30.9261	78.9403	3800.0000	2004.05.15	2006.09.15	GNIP
GOR'KIJ	56.2167	43.8167	82.0000	1981.01.15	1983.12.15	GNIP
GOSPIC	44.5333	15.3833	564.0000	2008.02.15	2008.12.15	GNIP
GRANIGA	46.0700	8.1100	1100.0000	2000.12.31	2000.12.31	WaterIsotopes.org
GRAZ	47.0778	15.4489	366.0000	1990.01.15	2002.12.15	GNIP
GREIFSWALD	54.0967	13.4056	2.0000	2002.07.15	2013.12.15	GNIP
GRIMSEL	46.5725	8.3327	1950.0000	1971.01.15	2019.12.15	GNIP
GRONINGEN	53.2300	6.5500	1.0000	1990.01.15	2012.12.15	GNIP
Guangyuan	32.4337	105.8300		2021.12.10	2022.05.09	Measured data
GUANGZHOU	23.1300	113.3200	7.0000	2007.01.11	2009.11.14	WaterIsotopes.org
Guangzhou	23.1600	113.2300		2021.12.19	2022.02.22	Measured data
GUILIN	25.0700	110.0800	170.0000	1983.01.15	1990.12.15	GNIP
GUIYANG	26.5833	106.7167	1071.0000	1988.02.15	1992.12.15	GNIP
Guizhou	26.8000	106.7800		2022.01.04	2022.05.11	Measured data
GUTTANNEN	46.6577	8.2927	1055.0000	2002.01.15	2019.12.15	GNIP
GUWAHATI	26.1908	91.7953	54.0000	2003.07.15	2004.10.15	GNIP
Guyuan	36.0100	106.2800		2020.11.20	2022.02.16	Measured data
H-4 RWASHED	32.5025	38.1945	686.0000	1968.11.15	1969.04.15	GNIP
H-5 SAFAWI	32.1991	37.1026	715.0000	1968.12.15	1969.04.15	GNIP
HABAROVSK	48.5200	135.1700	72.0000	1971.01.15	1971.12.15	GNIP
HAERBIN	45.6800	126.6200	172.0000	1986.06.15	1997.08.15	GNIP

Hagi	34.2400	131.2300	5.0000	2013.02.01	2014.01.04	WaterIsotopes.org
HAIKOU	20.0333	110.3500	15.0000	1988.03.15	2000.07.15	GNIP
HAMBANTOTA	6.1167	81.1333	20.0000	1983.01.15	1986.06.15	GNIP
HANOI	21.0453	105.7987	11.0000	2004.09.15	2007.12.15	GNIP
HANOI (IGS)	21.0300	105.8400	15.0000	2015.01.15	2018.12.15	GNIP
Hebei Township	34.7000	100.7857		2021.07.23	2021.09.19	Measured data
Heidelberg	49.8000	8.7000	110.0000	1981.01.31	1988.06.30	WaterIsotopes.org
Hemuqiao watershed	34.3100	119.3400		2017.10.01	2020.05.31	References
HETIAN	37.1333	79.9333	1375.0000	1988.02.15	1992.12.15	GNIP
Hezuo	35.0000	102.9100		2021.03.26	2021.11.11	Measured data
Higashihiroshima	34.2300	132.4200	220.0000	2013.02.01	2013.08.01	WaterIsotopes.org
Hikone	35.1500	136.1200	90.0000	2013.02.01	2014.01.01	WaterIsotopes.org
Ho Chi Minh City	10.0430	106.6880		2013.05.15	2015.12.21	WaterIsotopes.org
HOF-HOHENSAAS	50.3119	11.8758	565.0000	1990.01.15	2013.12.15	GNIP
Hofu	34.2000	131.3400	5.0000	2013.02.01	2013.12.30	WaterIsotopes.org
HOHENPEISSENBERG	47.8008	11.0108	977.0000	1990.01.15	2008.10.15	GNIP
HOMS	34.7500	36.7167	490.0000	1989.12.15	1993.05.15	GNIP
HONG KONG	22.3167	114.1667	66.0000	1990.01.15	2018.12.15	GNIP
Hongqigu	38.2100	102.5000		2019.07.09	2021.09.06	Measured data
HONGSEONG	36.5553	126.6359	62.0000	2018.03.15	2020.08.15	GNIP
Hongya County	29.9066	103.3730		2020.07.22	2022.05.09	Measured data
Huangshuigou	37.6900	101.9100		2021.11.27	2021.11.27	Measured data
Huanjiang County	24.4300	108.1800		2011.06.01	2020.11.01	References
Hulinzhan	37.4100	101.5300		2019.08.19	2021.11.27	Measured data
HYDERABAD	17.4500	78.4700	545.0000	1997.09.15	2001.04.15	GNIP
Hynek_04-AB	40.7544	75.1867	3508.0000	2004.07.15	2004.07.17	WaterIsotopes.org
Hynek_04-CTS	41.7742	78.3999	4457.0000	2004.07.29	2004.07.31	WaterIsotopes.org
Hynek_04-IK	42.6595	77.2028	1620.3333	2004.04.30	2004.08.17	WaterIsotop

						es.org
Hynek_04-WA	35.8232	74.6504	1426.4640	2004.07.01	2004.07.01	WaterIsotop es.org
Hynek_05-AB	40.7441	75.2155	3760.0000	2005.09.06	2005.09.06	WaterIsotop es.org
Hynek_05-WA	36.8500	75.4281	4719.5232	2004.07.01	2004.07.01	WaterIsotop es.org
Hynek_06-WA	41.4587	76.4511	2253.0816	2004.07.01	2004.07.01	WaterIsotop es.org
Hynek_07-WA	41.4587	76.4511	2253.0816	2004.07.01	2004.07.01	WaterIsotop es.org
Hynek_08-WA	41.7568	75.1089	2567.0256	2004.07.01	2004.07.01	WaterIsotop es.org
Hynek_09-WA	41.7643	75.2801	3054.4008	2004.07.01	2004.07.01	WaterIsotop es.org
Hynek_10-WA	40.8231	75.2893	3031.0000	2004.07.01	2004.07.01	WaterIsotop es.org
Hynek_Bos-Prec	42.6587	77.2031	1644.2500	2004.03.11	2004.05.30	WaterIsotop es.org
Hynek_IK	42.6606	77.2026	1635.0000	2003.07.05	2003.11.25	WaterIsotop es.org
Hynek_IL	42.6452	74.2751	1581.0000	2008.09.03	2008.09.03	WaterIsotop es.org
Hynek_KB	42.9391	78.3258	2258.0000	2003.06.28	2003.06.28	WaterIsotop es.org
Hynek_KYR07	40.8194	75.2281	3010.0000	2007.09.05	2007.09.05	WaterIsotop es.org
Hynek_TAJ07	37.6453	74.3535	4100.0000	2007.09.05	2007.09.08	WaterIsotop es.org
Ichinomiya	35.2200	140.2200	5.0000	2013.02.02	2013.10.01	WaterIsotop es.org
IDLEB	35.9392	36.6067	451.0000	1992.12.15	1993.05.15	GNIP
IKW	35.2231	138.2231	755.0000	2011.05.15	2015.06.15	WaterIsotop es.org
Imizu	36.4200	137.5000	20.0000	2013.01.31	2013.12.31	WaterIsotop es.org
IMPERIA	43.8833	8.0500	10.0000	2001.03.31	2001.03.31	WaterIsotop es.org
INCHNADAMPH	58.1500	-4.9750	73.0000	2003.12.15	2005.10.15	GNIP
IRKUTSK	52.2700	104.3500	485.0000	1990.01.15	1990.11.15	GNIP
Irkutsk	52.3000	104.2833	469.0000	2011.06.24	2017.04.04	WaterIsotop es.org
Isesaki	36.1500	139.1200	50.0000	2013.02.01	2013.12.27	WaterIsotop

						es.org
ISFJORD RADIO	78.0700	13.6300	6.0000	1961.07.15	1975.05.15	GNIP
ISO_NS_Birgit	47.7347	12.8843	470.0000	2012.06.18	2012.11.14	WaterIsotop es.org
ISO_NS_GC	47.7885	12.9803	442.0000	2012.05.24	2013.02.01	WaterIsotop es.org
ISO_NS_Rothmann bach	47.7035	13.0363	465.0000	2012.06.23	2012.12.05	WaterIsotop es.org
ISO_NS_Salzburger Hochthron	47.7165	13.0053	1829.0000	2012.05.25	2012.10.10	WaterIsotop es.org
ISO_NS_Veitlbruch	47.7332	12.9738	639.0000	2012.05.24	2012.12.04	WaterIsotop es.org
ISO_NS_Zeppezaue r Haus	47.7245	13.0059	1649.0000	2012.05.25	2012.10.10	WaterIsotop es.org
IZMIR	38.4306	27.1511	120.0000	2008.09.15	2016.12.15	GNIP
IZRAA	32.8389	36.2569	580.0000	1989.12.15	1993.04.15	GNIP
Izumi	32.5000	130.2100	15.0000	2013.02.01	2013.12.21	WaterIsotop es.org
JAFFNA	9.6678	80.0065	6.0000	2014.01.15	2018.12.15	GNIP
JAKARTA	-6.1800	106.8300	8.0000	1980.05.15	1997.12.15	GNIP
JAMMU	32.6925	74.8461	367.0000	2003.07.15	2006.09.15	GNIP
JARABLOUS	36.8222	38.0125	351.0000	1991.12.15	1993.05.15	GNIP
JAYAPURA	-2.5300	140.7200	3.0000	1980.01.15	1991.06.15	GNIP
Jingtai	37.1836	104.0630		2020.08.04	2021.08.05	Measured data
Jinta County	39.9843	98.9032		2021.05.14	2022.02.17	Measured data
Jiudun	38.0700	102.4500		2019.07.13	2021.10.08	Measured data
Jiuzhaigou	33.2632	104.2367		2020.07.23	2021.10.18	Measured data
JOHOR BAHRU	1.6000	103.6667	35.0000	2002.03.15	2016.12.15	GNIP
KABUL	34.5700	69.2133	1860.0000	1970.01.15	1989.09.15	GNIP
Kagoshima	31.3700	130.3100	15.0000	2013.03.31	2013.07.31	WaterIsotop es.org
Kakamigahara	35.2400	136.5200	40.0000	2013.02.01	2014.01.01	WaterIsotop es.org
KAKINADA	17.0211	82.2567	8.0000	2003.07.15	2006.09.15	GNIP
KALININ	56.9000	35.9000	31.0000	1981.01.15	1987.07.15	GNIP
KANDALAKSA	67.1500	32.3500	26.0000	1996.01.15	2000.12.15	GNIP
Kapan	39.2047	46.4461	704.0000	2014.07.07	2015.05.06	WaterIsotop es.org
KARACHI	24.9000	67.1300	23.0000	1961.07.15	1973.12.15	GNIP

KARLSRUHE	49.0392	8.3650	112.0000	1990.01.15	2013.12.15	GNIP
Kashgar	39.4704	75.9898		2020.08.29	2021.06.16	Measured data
KBU	47.2800	108.7800	1255.0000	2002.10.01	2003.09.01	WaterIsotopes.org
KEYWORTH	52.8833	-1.0833	60.0000	1985.01.15	1996.12.15	GNIP
KHANTY-MANSIY SK	60.9667	69.0667	40.0000	1996.01.15	1997.03.15	GNIP
KHARKIV	49.9333	36.2833	148.0000	2013.11.15	2016.12.15	GNIP
Kinko	31.1400	130.4700	20.0000	2013.02.01	2014.01.01	WaterIsotopes.org
KIROV	58.6500	49.6167	164.0000	1981.01.15	2000.12.15	GNIP
Kiryu	36.2400	139.1900	140.0000	2013.02.01	2014.01.01	WaterIsotopes.org
KKC	36.2533	137.6686	1529.0000	2010.07.15	2015.06.15	WaterIsotopes.org
KLAGENFURT FLUGHAFEN	46.6483	14.3183	450.0000	1990.01.15	2002.12.15	GNIP
KO SAMUI	9.4667	100.0500	7.0000	1980.01.15	1983.11.15	GNIP
KO SICHANG	13.1700	100.8000	26.0000	1984.06.15	1991.10.15	GNIP
Kobayashi	31.5900	130.5800	209.0000	2013.02.01	2013.12.22	WaterIsotopes.org
Kobayashi2	31.5900	130.5800	668.0000	2013.02.01	2013.12.22	WaterIsotopes.org
KOBLENZ	50.3381	7.6000	85.0000	1990.01.15	2013.12.15	GNIP
Kochi	33.3200	133.2900	30.0000	2013.02.01	2014.01.06	WaterIsotopes.org
KOF	35.6828	138.5664	304.0000	2010.07.15	2015.06.15	WaterIsotopes.org
KOLKATA	22.7978	88.3717	6.0000	2004.07.15	2006.10.15	GNIP
KOMIZA-VIS ISLAND	43.0392	16.0906	6.0000	2000.09.15	2003.12.15	GNIP
KONSTANZ	47.6772	9.1900	443.0000	1990.01.15	2013.12.15	GNIP
KOTA BAHRU	6.1667	102.2833	7.0000	1991.01.15	2016.12.15	GNIP
KOTA KINABALU	5.9300	116.0600	9.0000	2013.04.15	2016.12.15	GNIP
KOZHICODE	11.2500	75.7800	20.0000	1997.05.15	2007.11.15	GNIP
KOZINA	45.6000	13.9333	497.0000	2000.10.15	2003.12.15	GNIP
K-pusztá	46.9600	19.5500		2013.04.02	2017.12.15	References
KRAKOW	50.0617	19.8486	205.0000	1990.01.15	2016.12.15	GNIP
KRENKEL POLAR GMO	80.6167	58.0500	20.0000	1990.02.15	1990.12.15	GNIP
KUALA LUMPUR	2.8833	101.7833	26.0000	2000.01.15	2016.12.15	GNIP
KUALA	5.3833	103.1000	10.0000	2001.05.15	2016.12.15	GNIP

TERENGGANU						
Kuala Terengganu	5.4120	103.0850		2014.12.04	2016.09.12	WaterIsotopes.org
KUANTAN	3.7833	103.3333	1.0000	2013.04.15	2016.12.15	GNIP
KUCHING	1.5300	110.3400	15.0000	2013.05.15	2016.12.15	GNIP
Kuching	1.4590	119.4130		2014.07.30	2016.02.29	WaterIsotopes.org
Kuju	33.1000	131.1700	550.0000	2013.02.01	2014.01.01	WaterIsotopes.org
KUMAMOTO	32.8133	130.7292	26.0000	2015.04.15	2015.12.15	GNIP
Kumamoto	32.4800	130.4300	30.0000	2013.01.31	2013.12.28	WaterIsotopes.org
KUNGUR	57.4368	56.9593	120.0000	2016.12.15	2018.06.15	GNIP
KUNMING	25.0167	102.6833	1892.0000	1988.02.15	2003.12.15	GNIP
KUOPIO	62.8918	27.6254	116.0000	2005.01.15	2017.12.15	GNIP
KURSK	51.7700	36.1700	247.0000	1996.01.15	2000.12.31	WaterIsotopes.org
Kushimoto	33.2600	135.4500	50.0000	2013.01.31	2014.01.03	WaterIsotopes.org
Kyoto	35.4000	135.4500	140.0000	2013.02.01	2014.01.06	WaterIsotopes.org
Kyuji County	33.4299	101.4830		2021.03.26	2021.10.20	Measured data
LA BREVINE	46.9814	6.6080	1042.0000	1994.01.15	2019.12.15	GNIP
Lake Massaciuccoli	43.8376	10.3524		2007.03.01	2014.03.01	References
lake Shortandy	52.9889	70.2185	390.0000	2015.12.22	2016.11.02	WaterIsotopes.org
LANZHOU	36.0500	103.8800	1517.0000	1985.07.15	1999.07.01	GNIP
L'AQUILA	42.3667	13.3667	710.0000	2001.04.30	2001.04.30	WaterIsotopes.org
LEIPZIG	51.3500	12.4300	125.0000	1990.01.15	2013.12.15	GNIP
LEON VIRGEN DEL CAMINO	42.5883	-5.6511	916.0000	2000.02.15	2015.12.15	GNIP
LEOVA	46.4972	28.3000	156.0000	2007.09.15	2015.08.15	GNIP
Leshan	29.5820	103.7610		2021.12.10	2022.05.26	Measured data
LHASA	29.7000	91.1333	3649.0000	1987.01.15	1992.12.15	GNIP
LICKO LESCE	44.7833	15.3167	463.0000	2008.02.15	2008.12.15	GNIP
LIEGE	50.7000	5.4700	190.0000	1966.01.15	1970.11.15	GNIP
LIESEK	49.3600	19.6800	692.0000	1991.08.15	1992.02.15	GNIP
Lijiaxia	39.9042	116.4000		2020.06.21	2020.09.08	Measured data
LIPTOVSKY	49.0975	19.5900	570.0000	1992.01.15	2016.12.15	GNIP

MIKULAS-ONDRA SOVA						
LISBON-ITN	38.7927	-9.1057	12.0000	2003.01.15	2017.05.15	GNIP
LISTA	58.1000	6.5700	13.0000	1961.02.15	1977.08.15	GNIP
Liujiaxia	33.1900	106.5700		2020.06.21	2021.10.19	Measured data
LIUZHOU	24.3500	109.4000	97.0000	1988.01.15	1992.08.15	GNIP
Lixian	34.2200	105.1500		2020.12.13	2021.11.29	Measured data
LJUBLJANA	46.0950	14.5970	282.0000	1990.01.15	2010.12.15	GNIP
LOCARNO	46.1738	8.7886	379.0000	1990.10.15	2019.12.15	GNIP
Loch a Chem Alltain	58.6569	-4.9362	90.0000	2015.03.31	2015.03.31	WaterIsotop es.org
Loch Bad an Losguinn	57.0882	-5.0415	240.0000	2015.03.31	2015.03.31	WaterIsotop es.org
Loch Bealach Cornaidh	58.2061	-5.0515	428.0000	2015.03.31	2015.03.31	WaterIsotop es.org
Loch Clair	57.5623	-5.3469	93.0000	2015.03.31	2015.03.31	WaterIsotop es.org
Loch Coire Fionnaraich	57.4917	-5.4306	238.0000	2015.03.31	2015.03.31	WaterIsotop es.org
Loch Doilean	56.7501	-5.5868	10.0000	2015.03.31	2015.03.31	WaterIsotop es.org
Loch Dubh Cadhafuaraich	58.1339	-4.2400	400.0000	2015.03.31	2015.03.31	WaterIsotop es.org
Loch Dubh Camas an Lochain	57.9132	-5.5957	24.0000	2015.03.31	2015.03.31	WaterIsotop es.org
Loch Laidon	56.6515	-4.6440	282.0000	2015.03.31	2015.03.31	WaterIsotop es.org
Loch na Achlaise	56.5934	-4.7540	294.0000	2015.03.31	2015.03.31	WaterIsotop es.org
Loch na Creige Duibhe	58.0503	-5.3823	100.0000	2015.03.31	2015.03.31	WaterIsotop es.org
Loch Nan Eion	57.4997	-5.4647	352.0000	2015.03.31	2015.03.31	WaterIsotop es.org
Loch nan Eun	58.2214	-5.0119	164.0000	2015.03.31	2015.03.31	WaterIsotop es.org
Loch Tinker	56.2283	-4.5099	420.0000	2015.03.31	2015.03.31	WaterIsotop es.org
Loch Toll an Lochain	57.7969	-5.2424	517.0000	2015.03.31	2015.03.31	WaterIsotop es.org
Lochan an Dubha	58.0000	-5.1375	84.0000	2015.03.31	2015.03.31	WaterIsotop es.org

Lochan Dubh	56.7828	-5.4475	232.0000	2015.03.31	2015.03.31	WaterIsotopes.org
Lochan Feoir	58.1800	-5.0135	117.0000	2015.03.31	2015.03.31	WaterIsotopes.org
Lochan Fhionnlaidh	58.0448	-5.0665	230.0000	2015.03.31	2015.03.31	WaterIsotopes.org
Lochan Lairig Cheile	56.4203	-4.3393	290.0000	2015.03.31	2015.03.31	WaterIsotopes.org
Lochnagar	56.9584	-3.2333	785.0000	2015.03.31	2015.03.31	WaterIsotopes.org
Longyangxia	35.9870	100.7096		2021.03.08	2021.10.26	Measured data
LUANG-PRABANG	19.8800	102.1300	305.0000	1961.03.15	1964.11.15	GNIP
LUCERA	41.5000	15.3333	219.0000	1998.11.30	1998.11.30	WaterIsotopes.org
L'VOV	49.8167	23.9500	329.0000	1981.01.15	1983.12.15	GNIP
Mado	34.9200	98.2091		2021.03.31	2021.11.01	Measured data
MADRID-RETIRO	40.4120	-3.6781	667.0000	1990.01.15	2015.12.15	GNIP
MALAUSSENE	43.9200	7.1300	359.0000	1997.06.15	1998.09.15	GNIP
MALINSKA-KRK ISLAND	45.1208	14.5261	1.0000	2000.12.15	2001.11.15	GNIP
Mamurogawa	38.5600	140.1500	180.0000	2013.01.30	2014.01.08	WaterIsotopes.org
Manshuitan	37.4900	104.0100		2020.08.04	2020.09.21	Measured data
MANTOVA	45.1500	10.8000	19.0000	2001.01.31	2001.01.31	WaterIsotopes.org
Maqin	34.4775	100.2390		2021.03.03	2021.10.28	Measured data
Maqu	33.9987	102.0727		2021.04.06	2021.09.04	Measured data
MARINA DI RAGUSA	36.8330	14.5500	5.0000	2001.01.31	2001.01.31	WaterIsotopes.org
Matsue	35.2900	133.5000	10.0000	2013.02.01	2014.01.02	WaterIsotopes.org
MDG	45.7500	106.2700	1393.0000	2002.10.01	2003.08.01	WaterIsotopes.org
Meguro	35.3900	139.4000	40.0000	2013.02.01	2014.01.01	WaterIsotopes.org
Meikuang	37.3300	101.5100		2019.05.04	2021.11.27	Measured data

MEIRINGEN	46.7274	8.1868	632.0000	1990.01.15	2019.12.15	GNIP
MILANO	45.4667	9.2000	122.0000	2001.02.28	2001.02.28	WaterIsotop es.org
MILHOSTOV	48.6583	21.7300	104.0000	1991.08.15	1991.12.15	GNIP
Minamiizu	34.3800	138.5100	30.0000	2013.02.04	2014.01.06	WaterIsotop es.org
MINSK	53.9300	27.6300	225.0000	1981.01.15	1983.12.15	GNIP
Miyake	34.4000	139.2900	50.0000	2013.01.31	2013.05.28	WaterIsotop es.org
Miyakonojo	31.4400	131.3000	149.0000	2013.01.31	2013.12.31	WaterIsotop es.org
Miyazaki	31.5400	131.2400	10.0000	2013.02.02	2014.01.06	WaterIsotop es.org
MNG	48.2000	108.5000	1439.0000	2002.10.01	2003.09.01	WaterIsotop es.org
MOCHOVCE	48.2846	18.4757	206.0000	1991.08.15	1992.02.15	GNIP
MODENA	44.6667	10.9167	34.0000	2001.09.30	2001.09.30	WaterIsotop es.org
Molinos	40.7900	-0.4500		2010.03.02	2012.08.29	WaterIsotop es.org
MONACO	43.7324	7.4236	2.0000	1999.07.15	2016.12.15	GNIP
Monatssammelprobe Station Baden Stadtgartenamt	48.0113	16.2348		1985.07.01	1986.02.01	WaterIsotop es.org
MONTE CONERO	43.5498	13.6012	530.0000	2014.01.15	2018.12.15	GNIP
MONTPELLIER	43.5700	3.9500	45.0000	1997.04.15	1998.12.15	GNIP
Morioka	39.4600	141.7000	193.0000	2013.01.31	2014.01.06	WaterIsotop es.org
MORON DE LA FRONTERA	37.1645	-5.6114	87.0000	2000.03.15	2015.12.15	GNIP
MOSCOW	55.7500	37.5700	157.0000	1970.01.15	1979.11.15	GNIP
MTM	36.2511	137.9778	620.0000	2010.07.15	2015.06.15	WaterIsotop es.org
Mulu	4.0500	114.8100		2013.01.01	2017.05.08	WaterIsotop es.org
Mulu Airport	4.0500	114.8100	24.0000	2006.07.03	2012.12.04	WaterIsotop es.org
MURCIA	38.0019	-1.1708	61.0000	2000.03.15	2015.12.15	GNIP
MURMANSK	68.9667	33.0500	46.0000	1981.01.15	1990.03.15	GNIP
Mutouqiao	37.4800	101.5900		2021.11.27	2021.11.27	Measured data
Nagasaki	32.4700	129.5100	20.0000	2013.01.31	2014.01.06	WaterIsotop es.org

Nagoya	35.1500	136.9700		2013.06.12	2017.05.27	WaterIsotopes.org
NAIMAKKA	68.6833	21.5300	403.0000	1990.01.15	1995.12.15	GNIP
NANJING	32.1800	118.1800	26.0000	1988.01.15	1992.12.15	GNIP
Nanyang Technological University	1.3460	103.6790		2013.11.28	2016.10.03	WaterIsotopes.org
Nara	34.4000	135.5000	115.0000	2013.02.01	2014.01.06	WaterIsotopes.org
NBY	35.9452	138.4697	1350.0000	2010.07.15	2015.06.15	WaterIsotopes.org
NEUBRANDENBURG	53.5483	13.1931	81.0000	1997.06.15	2002.06.15	GNIP
NEUHERBERG	48.2200	11.5900	489.0000	1988.01.15	2001.12.15	GNIP
NEW DELHI	28.5800	77.2000	212.0000	1980.01.15	2007.09.15	GNIP
NGN	36.6317	138.1891	354.0000	2010.07.15	2015.06.15	WaterIsotopes.org
Niederschlagsstation Vordernbachalm	47.6604	13.9262	1113.0000	1991.11.28	1992.06.16	WaterIsotopes.org
NIGRO	40.9667	15.6833	385.0000	2002.04.15	2004.03.15	GNIP
Ningqian	37.3700	101.4900		2021.11.27	2021.11.27	Measured data
NIROB	56.7193	60.7333	150.0000	2016.12.15	2018.06.15	GNIP
NOGUERA DE ALBARRACIN	40.4580	-1.5987	1449.0000	2013.01.15	2015.12.15	GNIP
Nonoichi	36.3000	136.3600	40.0000	2013.02.01	2013.12.29	WaterIsotopes.org
NORDERNEY	53.7122	7.1519	11.0000	1997.06.15	2009.12.15	GNIP
NOVOSIBIRSK	55.0300	82.9000	162.0000	1990.01.15	1990.12.15	GNIP
NRK	36.1226	137.6298	1446.0000	2010.07.15	2015.06.15	WaterIsotopes.org
NSK	35.8264	137.8624	1247.0000	2010.07.15	2013.08.15	WaterIsotopes.org
NY ALESUND	78.9167	11.9333	7.0000	1990.01.15	2016.12.15	GNIP
NYON	46.3986	6.2338	436.0000	1992.07.15	2019.12.15	GNIP
ODENSE	55.4700	10.3300	17.0000	1963.03.15	1984.11.15	GNIP
ODESSA	46.4800	30.6300	64.0000	1981.02.15	1983.12.15	GNIP
Okayama	34.4100	133.5500	7.0000	2013.02.02	2014.01.06	WaterIsotopes.org
OLENEK	68.5000	112.4333	220.0000	1996.05.15	2000.08.15	GNIP
OMC	36.5053	137.8703	776.0000	2010.07.15	2015.06.15	WaterIsotopes.org
OMSK	55.0100	73.3800	94.0000	1990.01.15	1990.11.15	GNIP

ORLEANS-LA-SO URCE	47.8332	1.9404	109.0000	1996.03.15	2014.12.15	GNIP
PAGANELLA	46.2000	11.0000	2125.0000	1999.09.30	1999.09.30	WaterIsotop es.org
PALLANZA	45.9167	8.5500	208.0000	2000.12.31	2000.12.31	WaterIsotop es.org
PALMA DE MALLORCA	39.5534	2.6253	3.0000	2000.02.15	2015.11.15	GNIP
PALMYRA	34.5500	38.3000	400.0000	1989.12.15	1993.04.15	GNIP
Panzhuhua	26.8900	105.0000		2021.12.26	2022.05.09	Measured data
PARMA	44.8000	10.3333	55.0000	2002.02.28	2002.02.28	WaterIsotop es.org
PASSO PRESOLANA	45.5500	10.6000	1290.0000	1999.01.31	1999.01.31	WaterIsotop es.org
PATNA	25.5736	85.0703	60.0000	2003.08.15	2005.10.15	GNIP
PATRAS	38.2800	21.7900	100.0000	2000.10.15	2019.12.15	GNIP
PECHORA	65.1167	57.1000	56.0000	1981.01.15	1983.12.15	GNIP
PERM	58.0100	56.1800	161.0000	1981.01.15	1990.07.15	GNIP
PETROPAVLOVS K KAMCAT	52.9700	158.7500	24.0000	1996.01.31	2000.12.31	WaterIsotop es.org
PETROPAVLOVS K-KAMCHATSKIY	52.9800	158.6500	24.0000	1996.06.15	1999.12.15	GNIP
PETZENKIRCHEN	48.1500	15.1500	252.0000	1966.03.15	1971.08.15	GNIP
PIACENZA	45.0167	9.6667	61.0000	2001.02.28	2001.02.28	WaterIsotop es.org
PIAN DELL ELMO	43.3431	13.0611	950.0000	2000.10.15	2002.05.15	GNIP
Pianosa	42.5859	10.0795		2014.11.01	2018.12.01	References
PINGLIANG	35.5333	106.7000	1570.0000	2003.05.15	2004.04.15	GNIP
Pingliang	35.5428	106.6847		2021.01.24	2022.02.06	Measured data
PIOMBINO	42.9167	10.5333	21.0000	2000.01.31	2000.01.31	WaterIsotop es.org
Piombino	42.9328	10.5111		1997.10.01	2000.01.01	References
PISA	43.7167	10.3833	5.0000	1999.12.31	1999.12.31	WaterIsotop es.org
Pisa	43.7177	10.4222		1992.11.01	2004.12.01	References
PISA (CENTRAL)	43.7100	10.4000	12.0000	1992.11.15	2002.02.15	GNIP
PLITVICE	44.8806	15.6189	580.0000	2004.01.15	2005.06.15	GNIP
PODERSDORF	47.8517	16.8431	121.0000	1965.05.15	1968.12.15	GNIP
PONTA DELGADA	37.7700	-25.6500	175.0000	1990.01.15	2016.12.15	GNIP
PONTREMOLI	44.3667	9.8833	236.0000	2002.04.30	2002.04.30	WaterIsotop es.org

Pontremoli	44.3753	9.8763		2000.05.01	2002.03.01	References
PONTRESINA	46.4914	9.8982	1724.0000	1994.07.15	2019.12.15	GNIP
Port Blair	11.6600	92.7300		2012.05.02	2016.12.11	WaterIsotopes.org
PORTO	41.1333	-8.6000	93.0000	1990.01.15	2017.06.15	GNIP
PORTOROZ	45.4667	13.6167	2.0000	2000.10.15	2006.12.15	GNIP
POTENZA-TITO SCALO	40.6333	15.8000	632.0000	1999.08.31	1999.08.31	WaterIsotopes.org
PRAGUE	50.1162	14.3929	184.0000	2012.10.15	2018.12.15	GNIP
PRODROMOS	34.9500	32.8300	1378.0000	1964.03.15	1966.12.15	GNIP
PUERTO DE NAVACERRADA	40.7931	-4.0106	1894.0000	2013.01.15	2015.12.15	GNIP
PUSCHINO	54.1800	158.0200	303.0000	1998.04.15	2000.03.15	GNIP
Qinghai-Linye	37.3200	101.5200		2021.11.27	2021.11.27	Measured data
Qintu Lake	39.0300	103.3600		2020.07.03	2021.10.08	Measured data
QIQIHAR	47.3833	123.9167	147.0000	1988.02.15	1992.12.15	GNIP
RAFAH	31.2833	34.2333	73.0000	2001.01.15	2003.03.15	GNIP
RAMATA N1	57.9343	24.9804	49.0000	2016.02.15	2017.08.15	GNIP
RAMNICU VALCEA	45.0353	24.2842	237.0000	2012.01.15	2016.11.15	GNIP
RAQQA	35.8972	39.3417	246.0000	1991.12.15	1992.05.15	GNIP
REGENSBURG	49.0422	12.1019	365.0000	1990.01.15	2013.12.15	GNIP
REYKJAVIK	64.1300	-21.9300	14.0000	1992.07.15	2018.12.15	GNIP
RIARDO	41.2667	14.1500	110.0000	1998.12.31	1998.12.31	WaterIsotopes.org
RIFUGIO GRAFFER	46.2000	10.6000	2263.0000	1999.09.30	1999.09.30	WaterIsotopes.org
RIGA	56.9360	24.0955	2.9300	2016.04.15	2018.12.15	GNIP
RISHIKESH	30.1122	78.3025	356.0000	2005.07.15	2006.09.15	GNIP
RIVO	46.5189	13.0122	615.0000	1998.03.31	1998.03.31	WaterIsotopes.org
Riyadh, Compound	24.7956	46.7588	612.0000	2009.04.03	2012.12.18	WaterIsotopes.org
Riyadh, no coords	24.7200	46.7200	612.0000	1975.01.18	1979.01.22	WaterIsotopes.org
Riyadh, Office	24.6795	46.7318	612.0000	2009.03.28	2013.03.23	WaterIsotopes.org
RIZE	41.0244	40.5200	136.0000	2008.07.15	2016.12.15	GNIP
RJAZAN	54.6167	39.7167	135.0000	1981.01.15	1983.12.15	GNIP
ROCCAMONFINA	41.2833	13.9833	620.0000	2000.10.31	2000.10.31	WaterIsotopes.org

Rokkasyo	40.5700	141.2100	30.0000	2013.02.01	2013.12.27	WaterIsotopes.org
ROORKEE	29.8678	77.8939	274.0000	2003.07.15	2006.10.15	GNIP
ROSIA MONTANA	46.3000	23.1300	0.0000	2015.01.15	2016.12.15	GNIP
ROSTOV-NA-DON U	47.2500	39.8200	77.0000	1981.01.15	1990.12.15	GNIP
ROVANIEMI	66.4969	25.7552	107.0000	2003.11.15	2017.12.15	GNIP
RYORI	39.0300	141.8100	260.0000	1980.01.15	2006.09.15	GNIP
S. GEMINI	42.6167	12.5500	350.0000	2001.02.28	2001.02.28	WaterIsotopes.org
S. PELLEGRINO IN ALPE	44.7333	9.9167	1520.0000	1999.12.31	1999.12.31	WaterIsotopes.org
S.Anna di Stazzema	43.9746	10.2727		2014.01.01	2018.12.01	References
Saalfelden, HZB-Nr. 103929	47.4349	12.8509	795.0000	2007.01.15	2013.12.15	WaterIsotopes.org
SABAUDIA	41.3000	13.0167	17.0000	2001.03.31	2001.03.31	WaterIsotopes.org
Saga	33.1500	130.1900	5.0000	2013.02.01	2013.12.21	WaterIsotopes.org
SAGAR	23.8261	78.7625	551.0000	2003.07.15	2005.07.15	GNIP
SAINT CATHRENE	28.6800	34.1000	1350.0000	2001.03.15	2001.04.15	GNIP
Sakai	34.3200	135.2700	10.0000	2013.02.01	2014.01.01	WaterIsotopes.org
SALEHARD	66.5300	66.5300	16.0000	1996.10.31	2000.12.31	WaterIsotopes.org
SALEKHARD	66.5333	66.6667	16.0000	1996.01.15	2000.12.15	GNIP
SALLENT DE GALLEGO - LA SARRA	42.7897	-0.3290	1460.0000	2013.01.15	2015.12.15	GNIP
SALUGGIA	45.2333	8.0333	194.0000	2000.10.15	2001.10.15	GNIP
SAN PELLEGRINO IN ALPE	44.1890	10.4763	1520.0000	1993.03.15	2002.02.15	GNIP
San Pellegrino in Alpe	44.1893	10.4805		1993.03.01	2002.02.01	References
Sanchalukou	37.4300	101.5500		2021.11.27	2021.11.27	Measured data
SANTA CRUZ DE TENERIFE	28.4634	-16.2553	35.0000	2000.02.15	2015.12.15	GNIP
SANTA MARIA DI LEUCA	39.7964	18.3686	30.0000	1999.10.31	1999.10.31	WaterIsotopes.org
SANTANDER	43.4911	-3.8006	52.0000	2000.02.15	2015.12.15	GNIP
SARATOV	51.5667	46.0333	166.0000	1981.01.15	1984.09.15	GNIP

SARNICO	45.6667	9.9500	197.0000	1999.01.31	1999.01.31	WaterIsotopes.org
SASSARI	40.7272	8.5603	225.0000	2000.01.31	2000.01.31	WaterIsotopes.org
SATKHIRA	22.7167	89.0833	10.0000	2015.04.15	2018.09.15	GNIP
SCERNI	42.6333	14.0333	287.0000	2001.09.30	2001.09.30	WaterIsotopes.org
SCHLESWIG	54.5275	9.5486	43.0000	1997.06.15	2013.12.15	GNIP
Schneealpe, Lurgbauer	47.7111	15.6369		2005.06.04	2005.08.11	WaterIsotopes.org
SEEHAUSEN	52.8911	11.7294	21.0000	1997.06.15	2013.12.15	GNIP
Sendai	38.1600	140.5200	50.0000	2013.02.01	2013.12.31	WaterIsotopes.org
Sera	34.3500	133.3000	400.0000	2013.02.10	2013.12.20	WaterIsotopes.org
Seto	35.1200	137.1000	304.0000	2013.02.01	2014.01.06	WaterIsotopes.org
Sevan	40.5658	45.0083	1937.0000	2014.07.05	2015.04.20	WaterIsotopes.org
SGD	36.5213	138.3497	1322.0000	2010.07.15	2015.06.15	WaterIsotopes.org
SGD2	36.5317	138.3250	1249.0000	2010.07.15	2015.06.15	WaterIsotopes.org
Shangchigou	37.6300	101.8500		2021.11.27	2021.11.27	Measured data
SHB	50.2500	106.2100	626.0000	2002.11.01	2003.09.01	WaterIsotopes.org
SHG	36.7108	138.4947	1594.0000	2010.07.15	2015.06.15	WaterIsotopes.org
SHIJIAZHUANG	38.0333	114.4167	80.0000	1990.01.15	2003.11.15	GNIP
SHILLONG	25.5700	91.8800	1598.0000	1969.01.15	1978.10.15	GNIP
Shirahama	33.4100	135.2000	10.0000	2013.02.01	2013.12.12	WaterIsotopes.org
Shizuoka	34.5800	138.2200	30.0000	2013.02.01	2014.01.03	WaterIsotopes.org
SIENA	43.3167	11.3500	322.0000	2002.02.28	2002.02.28	WaterIsotopes.org
Siena	43.3140	11.3314		1998.01.01	2002.02.01	References
Simf	44.9800	34.1500		2009.11.01	2011.12.01	References
SINGAPORE	1.3500	103.9000	32.0000	1972.12.15	1975.12.15	GNIP
SINOP	42.0250	35.1583	32.0000	2008.07.15	2016.12.15	GNIP
SION	46.2203	7.3385	482.0000	1994.07.15	2017.11.15	GNIP
SIRACUSA	37.0667	15.3000	17.0000	2001.01.31	2001.01.31	WaterIsotopes.org

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Sisian	39.5083	46.0336	1580.0000	2014.08.22	2015.06.27	WaterIsotop es.org
SON LA	21.3200	103.9100	600.0000	2017.04.15	2018.12.15	GNIP
SP-12	45.0522	33.9753		2012.01.01	2015.12.08	References
ST. GALLEN	47.4269	9.4008	779.0000	2004.01.15	2019.12.15	GNIP
ST. PETERSBURG	59.9667	30.3000	4.0000	1981.01.15	1990.03.15	GNIP
St.2 Ploneralm	46.6969	13.0407	1625.0000	1995.01.01	1995.12.01	WaterIsotop es.org
St.3 Buschgrede	46.6845	13.0341	1260.0000	1995.01.01	1995.12.01	WaterIsotop es.org
St.4 Hanser	46.6736	13.0341	910.0000	1995.01.01	1995.10.01	WaterIsotop es.org
St.6 Dellach/Drau	46.7414	13.0833	627.0000	1995.01.01	1995.09.01	WaterIsotop es.org
STARA LESNA	49.1362	20.3065	721.0000	1991.08.15	1992.02.15	GNIP
STUTTGART	48.8281	9.2000	314.0000	1990.01.15	2013.12.15	GNIP
SUWIEDA	32.7056	36.5700	1020.0000	1989.12.15	1993.04.15	GNIP
Suzhou District	34.4775	100.2390		2021.05.18	2022.04.30	Measured data
SVYATOHIRSK	49.0400	37.5770	66.0000	2015.04.15	2016.12.15	GNIP
SWA	36.0455	138.1087	760.0000	2010.07.15	2015.06.15	WaterIsotop es.org
SYLHET	24.9100	91.8453	20.0000	2009.05.15	2018.08.15	GNIP
TAASTRUP	55.6700	12.3000	28.0000	1965.11.15	1971.03.15	GNIP
Taipei(Taiwan)	25.1638	121.4750	365.0000	1997.06.30	1998.12.31	WaterIsotop es.org
Taiwan_ALS	23.5100	120.8100	2413.0000	2002.05.01	2006.11.01	WaterIsotop es.org
Taiwan_BL	24.2300	121.3200	2350.0000	2005.06.01	2008.01.01	WaterIsotop es.org
Taiwan_CY	23.4800	120.4600	27.0000	2002.05.01	2005.09.01	WaterIsotop es.org
Taiwan_HC	24.7500	121.0000	34.0000	2003.01.01	2004.12.01	WaterIsotop es.org
Taiwan_HL	23.9700	121.6500	50.0000	2003.07.01	2006.05.01	WaterIsotop es.org
Taiwan_HY	23.3000	120.3200	69.0000	2002.05.01	2003.09.01	WaterIsotop es.org
Taiwan_IL	24.6800	121.8000	24.0000	1993.07.01	1994.09.01	WaterIsotop es.org
Taiwan_KH	22.6300	120.2700	2.0000	2005.12.01	2006.09.01	WaterIsotop es.org

Taiwan_KL	25.1300	121.7100	27.0000	2004.06.01	2006.05.01	WaterIsotopes.org
Taiwan_LS	24.2700	121.1600	1980.0000	2003.06.01	2004.09.01	WaterIsotopes.org
Taiwan_MG	22.6700	120.6900	740.0000	2005.07.01	2006.06.01	WaterIsotopes.org
Taiwan_PL	23.9700	120.9800	732.0000	1999.04.01	2002.01.01	WaterIsotopes.org
Taiwan_PT	22.0300	120.6900	54.0000	2006.01.01	2007.11.01	WaterIsotopes.org
Taiwan_TC	24.1200	120.6800	34.0000	2001.06.01	2007.10.01	WaterIsotopes.org
Taiwan_TD	22.8400	121.0900	250.0000	2004.05.01	2007.11.01	WaterIsotopes.org
Taiwan_TP	24.9800	121.5100	5.0000	2004.03.01	2006.12.01	WaterIsotopes.org
Taiwan_TT	23.9900	120.6900	75.0000	2001.07.01	2006.11.01	WaterIsotopes.org
Taiwan_TY	24.9500	121.0200	105.0000	2004.01.01	2006.11.01	WaterIsotopes.org
Taiwan_WL	24.3500	121.3100	1800.0000	2006.12.01	2008.12.01	WaterIsotopes.org
Taiwan_YL	23.3300	121.3100	130.0000	2005.01.01	2007.08.01	WaterIsotopes.org
Taizhou	30.2674	120.1528		2020.12.14	2022.03.12	Measured data
Takamatsu	34.2000	134.2000	10.0000	2013.02.01	2013.12.12	WaterIsotopes.org
TAMBOV	52.7333	41.4667	139.0000	1982.08.15	1983.12.15	GNIP
TARQUINIA	42.2500	11.7500	133.0000	2001.05.31	2001.05.31	WaterIsotopes.org
TARSOGNO	44.4500	9.6167	768.0000	2001.03.31	2001.03.31	WaterIsotopes.org
TARTU	58.2639	26.4614	70.0000	2013.07.15	2018.12.15	GNIP
TASHKENT	41.2700	69.2700	428.0000	1971.01.15	1971.12.15	GNIP
TAWAU - AIRPORT	4.3170	118.1210	15.0000	2007.07.15	2008.12.15	GNIP
TBILISI	41.7500	44.7667	427.0000	2008.04.15	2018.12.15	GNIP
TEHERAN EAST	35.7400	51.5800	1350.0000	2000.10.15	2004.05.15	GNIP
TEHRI	30.3528	78.4833	640.0000	2004.07.15	2006.10.15	GNIP
TERNEJ	45.0300	136.6700	68.0000	1996.05.31	2000.12.31	WaterIsotopes.org
TERNEY	45.0000	136.6000	68.0000	1996.04.15	2000.11.15	GNIP

THESSALONIKI	40.6700	22.9600	32.0000	2000.10.15	2003.08.15	GNIP
THONON-LES-BAINS	46.3722	6.4708	385.0000	1992.02.15	2018.12.15	GNIP
TIANJIN	39.1000	117.1667	3.0000	1988.04.15	2001.12.15	GNIP
Tianshui	34.5809	105.7249		2020.12.23	2021.06.29	Measured data
TIRUNELVELI	8.7278	77.7183	4.0000	2003.07.15	2004.10.15	GNIP
TKY	36.1425	137.4223	1342.0000	2011.06.15	2013.12.15	WaterIsotopes.org
TODI	42.7833	12.4000	400.0000	2001.10.31	2001.10.31	WaterIsotopes.org
Tokushima	34.4000	134.2900	10.0000	2013.02.01	2013.12.27	WaterIsotopes.org
TOKYO	35.6800	139.7700	4.0000	1973.01.15	1979.12.15	GNIP
Tongling	30.9200	117.8100		2021.02.18	2022.02.17	Measured data
Tongren County	35.5200	102.0180		2021.03.30	2021.10.26	Measured data
Tongwei	35.2110	105.2422		2020.07.14	2021.09.05	Measured data
TOPOLNIKY	47.9601	17.8620	118.0000	1992.01.15	1992.02.15	GNIP
TORTOSA	40.8203	0.4933	50.0000	2000.02.15	2015.11.15	GNIP
TOULOUSE (UNIV. ECOLAB)	43.5583	1.4694	156.0000	2011.07.15	2012.12.15	GNIP
TRENT	46.0667	11.1333	312.0000	1997.12.31	1997.12.31	WaterIsotopes.org
TRIER	49.7478	6.6581	265.0000	1990.01.15	2013.12.15	GNIP
TRIESTE	45.6486	13.7800	14.0000	1997.12.31	2003.12.15	WaterIsotopes.org
UDH	47.3200	110.6700	1033.0000	2002.10.01	2003.09.01	WaterIsotopes.org
UDINE	46.0619	13.2422	113.0000	1996.12.31	1996.12.31	WaterIsotopes.org
UHLIRSKA	50.8325	15.1478	823.0000	2006.05.15	2018.12.15	GNIP
UIT_001	69.6800	18.9600	73.0000	2019.09.06	2021.09.05	WaterIsotopes.org
Uji	34.5400	135.4800	25.0000	2013.02.01	2013.07.31	WaterIsotopes.org
ULAANBAATAR	47.9333	106.9833	1338.0000	1990.06.15	2001.03.15	GNIP
UMN-EL-JEMAL	32.3055	36.2447	575.0000	1968.11.15	1969.04.15	GNIP
URBINO	43.7167	12.6333	485.0000	2001.10.31	2001.10.31	WaterIsotopes.org
Utsunomiya	36.3300	139.5400	115.0000	2013.02.01	2014.01.07	WaterIsotopes.org

						es.org
UTTARKASHI	30.7292	78.4467	1140.0000	2004.06.15	2006.10.15	GNIP
VAIRANO	41.3333	14.1333	155.0000	1998.08.31	1998.09.30	WaterIsotop es.org
VALENCIA	39.4806	-0.3664	11.0000	2000.03.15	2010.12.15	GNIP
VALENTIA	51.9300	-10.2500	9.0000	1990.01.15	2018.12.15	GNIP
VALLADOLID	41.6408	-4.7544	735.0000	2000.02.15	2015.12.15	GNIP
VALLE AGRICOLA	41.4333	14.2500	680.0000	1998.08.31	1998.08.31	WaterIsotop es.org
Vanadzor	40.8386	44.4361	1376.0000	2014.07.01	2015.04.22	WaterIsotop es.org
VERONA	45.4500	11.0000	59.0000	1997.12.31	1997.12.31	WaterIsotop es.org
VIENNA	48.2486	16.3564	198.0000	1990.02.15	2020.12.15	GNIP
VILLACHER ALPE	46.6031	13.6714	2156.0000	1990.01.15	2002.12.15	GNIP
VILSANDI	58.3828	21.8142	6.0000	2013.07.15	2018.12.15	GNIP
VOLOGDA	59.2833	39.8667	118.0000	1981.01.15	1983.12.15	GNIP
Wadi Hanifa, Riyadh	24.6200	46.6600	612.0000	1974.03.28	1974.03.28	WaterIsotop es.org
WALLINGFORD	51.6000	-1.1000	48.0000	1990.01.15	2015.12.15	GNIP
WASSERKUPPE RHOEN	50.4972	9.9428	921.0000	1990.01.15	2013.12.15	GNIP
Weather station Burabay new	53.1296	70.2799	309.0000	2016.04.24	2016.05.08	WaterIsotop es.org
WEIL AM RHEIN	47.5958	7.5944	249.0000	1990.01.15	2013.12.15	GNIP
WELLAMPITIYA	6.9506	79.8795	5.0000	2009.01.15	2018.12.15	GNIP
WIERINGERWERF	52.8000	5.0500	-4.0000	1990.01.15	1992.04.15	GNIP
WROCLAW	51.1165	17.0295	118.0000	2004.05.15	2009.05.15	GNIP
WUERZBURG	49.7703	9.9578	268.0000	1990.01.15	2013.12.15	GNIP
Wuhai	39.6700	106.8200		2021.04.24	2021.07.16	Measured data
WUHAN	30.6200	114.1300	23.0000	1992.06.15	1998.05.15	GNIP
WULUMUQI	43.7800	87.6200	918.0000	1986.02.15	2003.12.15	GNIP
Wuqia	39.7200	75.2500		2012.08.01	2019.03.01	References
XIAN	34.3000	108.9300	397.0000	1985.09.15	1992.07.15	GNIP
Xi'an	34.2700	108.9500		2020.07.21	2020.10.13	Measured data
Xianxi	28.3143	109.7400		2021.11.27	2022.05.19	Measured data
Xichang	27.8952	102.2641		2021.04.28	2021.08.13	Measured data
Xinghai County	35.5900	99.9900		2021.03.27	2021.11.03	Measured data

Xiyingwugou	37.5300	102.1000		2019.10.15	2021.11.27	Measured data
Ya'an	30.3000	103.0000		2020.08.06	2020.10.14	Measured data
Yabulai weather station (YBL)	39.3000	102.7000	1250.0000	2013.07.18	2016.07.24	WaterIsotopes.org
YAKUTSK	62.0800	129.7500	107.0000	1996.10.15	2000.12.15	GNIP
Yamagata	38.1200	140.1800	130.0000	2013.01.30	2013.12.30	WaterIsotopes.org
Yamaguchi	34.8000	131.2800	20.0000	2013.01.31	2013.12.27	WaterIsotopes.org
Yangkou cave	29.0300	107.1800	2140.0000	2012.03.01	2016.12.01	WaterIsotopes.org
YANGOON	16.7700	96.1700	20.0000	1961.05.15	1963.12.15	GNIP
YANTAI	37.5300	121.4000	47.0000	1986.03.15	1991.04.15	GNIP
YCR	45.0522	33.9753		2010.10.01	2010.12.01	References
Yerevan	40.2003	44.5183	1134.0000	2014.07.06	2015.06.17	WaterIsotopes.org
Yichun	27.8000	114.3800		2021.12.26	2022.04.30	Measured data
YINCHUAN	38.4833	106.2167	1112.0000	1988.02.15	2000.08.15	GNIP
Yokohama	35.2800	139.3500	60.0000	2013.02.01	2013.12.31	WaterIsotopes.org
Yumen	34.4775	100.2390		2021.06.15	2022.02.17	Measured data
ZADAR	44.1200	15.2400	5.0000	2000.09.15	2003.12.15	GNIP
ZAGREB-GRIC	45.8167	15.9833	157.0000	1996.01.15	2003.12.15	GNIP
ZARAGOZA AEROPUERTO	41.6606	-1.0042	263.0000	2000.03.15	2015.11.15	GNIP
ZAVIZAN-VELEBIT	44.8167	14.9833	1594.0000	2000.09.15	2003.12.15	GNIP
Zeku	35.0352	101.4644		2021.01.20	2021.11.15	Measured data
ZHANGYE	38.9300	100.4300	1483.0000	1990.01.15	2003.11.15	GNIP
ZHENGZHOU	34.7200	113.6500	110.0000	1986.02.15	1992.07.15	GNIP
ZINNWALD	50.7311	13.7514	877.0000	2001.02.15	2014.02.15	GNIP
ZITTAU	50.9000	14.8000	240.0000	2012.11.15	2018.12.15	GNIP
ZUNYI	27.7000	106.8800	844.0000	1986.02.15	1992.05.15	GNIP

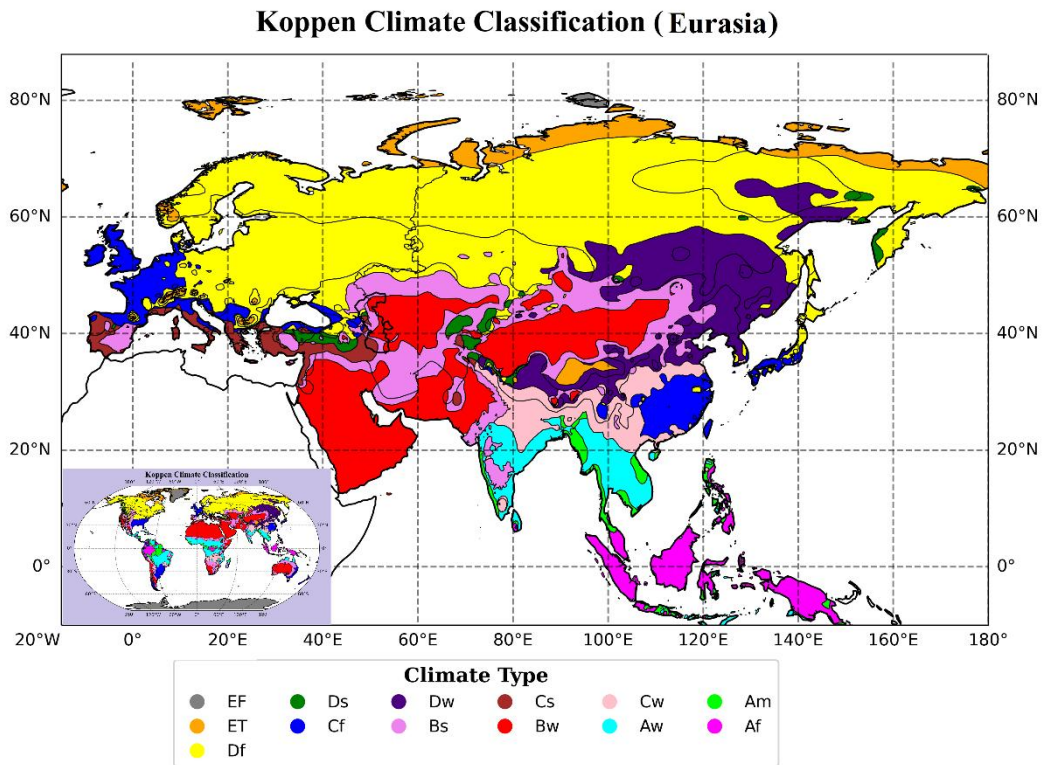


Figure S1 Distribution of climate types in Eurasia

Table S2 Name of climate type

Cli_Zone	CliType	CliType
Tropical (A)	Aw	Tropical Sparse Forest Climate
	Af	Tropical Rainforest Climate
	Am	Tropical Monsoon Climate
Arid (B)	Bs	Grassland Climate
	Bw	Desert Climate
Temperate (C)	Cf	Humid Warm Climate
	Cs	Summer Dry Warm Climate
	Cw	Winter Dry Warm Climate
Cold (D)	Df	Humid Cold Temperate Climate
	Ds	Subfrigid Continental Climate
	Dw	Subfrigid Monsoon Climate
	Ds	Subfrigid Continental Climate
	Df	Humid Cold Temperate Climate
Polar (E)	ET	Tundra Climate
	EF	Subarctic Climate

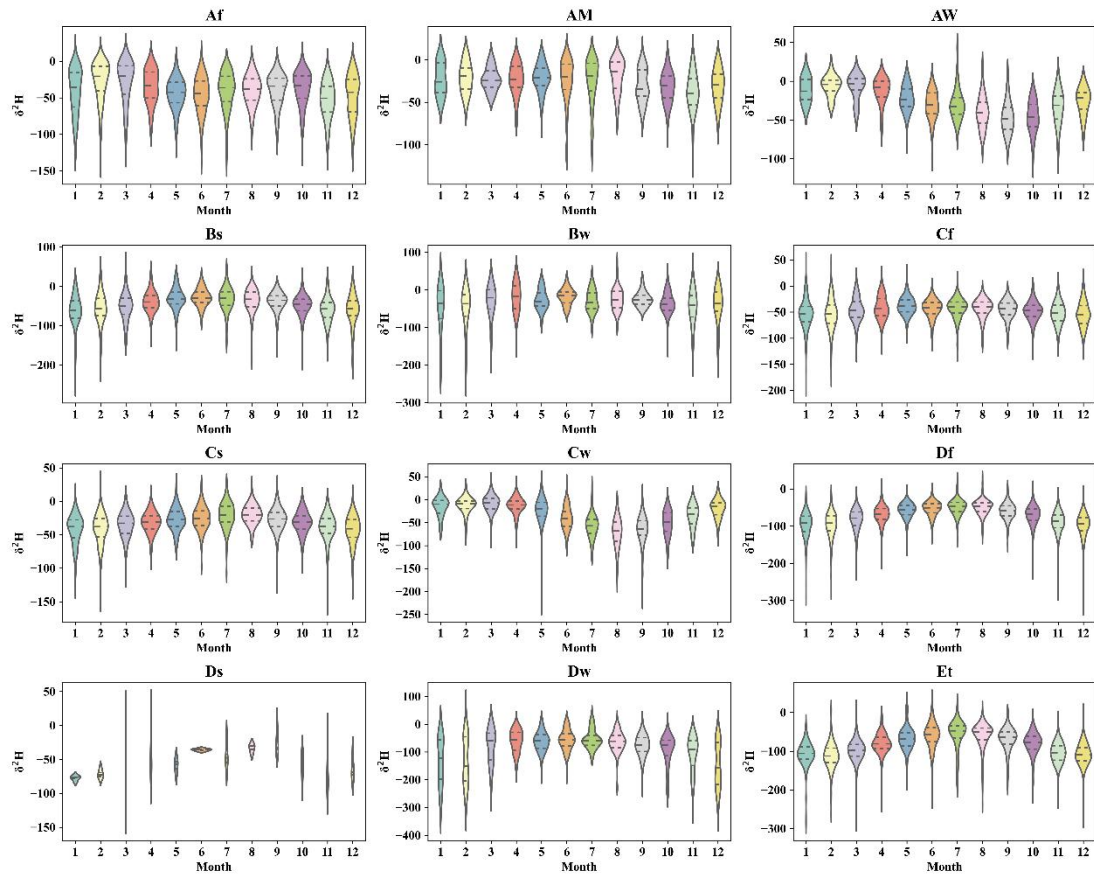


Figure S2 Seasonal Distribution and Variations of Stable Isotopes in Precipitation($\delta^2\text{H}$)

S4

Table S3 Random Forest Model Assessment Indicators

	RMSE	MAE
$\delta^2\text{H}$	16.87	11.02
$\delta^{18}\text{O}$	2.17	1.42