

SatRef Station Coordinate List as at 1 April 2016

Revision: 10 March 2020

Station	WGS84 (ITRF96 at epoch 1998:121)										HK1980 Grid Coordinates (* Note1)		Receiver (*Note 3)	Antenna (IGS Name, 20 characters) (*Note 3)		Height of Antenna (* Note 2)
	Latitude (N)			Longitude (E)			Ellipsoidal Height	Cartesian Coordinates								
	Deg	Min	Sec	Deg	Min	Sec		X	Y	Z	N	E				
HKCL	22	17	45.03141	113	54	27.79510	7.7136	-2392740.9396	5397563.0493	2404757.8653	817460.020	808532.555	Trimble NetR9	TRM59800.00	SCIT	0.0083
HKFN	22	29	40.87036	114	08	17.40607	41.2119	-2411012.8949	5380268.2632	2425129.0941	839454.975	832285.139	Trimble NetR9	LEIAT504	LEIS	1.778
HKKS	22	22	04.43720	114	18	42.96114	44.7180	-2429525.8966	5377816.6360	2412152.7354	825420.794	850178.272	Leica GR50	TRM59800.00	SCIS	0.0083
HKKT	22	26	41.66190	114	03	59.63435	34.5764	-2405143.8990	5385195.2549	2420032.5440	833946.143	824913.087	Leica GR50	LEIAR25.R4	LEIT	0.0083
HKLM	22	13	08.25010	114	07	12.21344	8.5536	-2414045.9447	5391602.3519	2396878.8893	808922.781	830410.202	Leica GR50	TRM59800.00	SCIS	0.0083
HKLT	22	25	05.28287	113	59	47.84446	125.9221	-2399062.7358	5389237.8430	2417327.0568	830988.474	817709.931	Leica GR50	LEIAR25.R4	LEIT	0.0083
HKMW	22	15	20.92525	114	00	11.43825	194.9461	-2402484.1093	5395262.4383	2400726.9555	813012.952	818363.992	Trimble NetR9	LEIAR25.R4	LEIT	0.0083
HKNP	22	14	56.63739	113	53	37.94986	350.6723	-2392360.2537	5400226.2534	2400094.4576	812282.866	807096.088	Leica GR50	LEIAR25.R4	LEIT	0.0083
HKOH	22	14	51.67374	114	13	42.78783	166.4011	-2423816.8997	5386057.0931	2399883.3709	812103.832	841595.060	Leica GR50	LEIAR25.R4	LEIT	0.0083
HKPC	22	17	05.81684	114	02	16.22569	18.1303	-2405183.0015	5392541.8294	2403645.7303	816235.678	821939.902	Leica GR50	LEIAR25.R4	LEIT	0.0083
HKQT	22	17	27.72631	114	12	47.57760	5.1784	-2421567.8916	5384910.5631	2404264.3943	816903.467	840013.015	Trimble NetR9	TRM59800.00	SCIT	0.0083
HKSC	22	19	19.81950	114	08	28.27667	20.2386	-2414266.9197	5386768.9868	2407460.0314	820351.389	832591.326	Leica GR50	LEIAR25.R4	LEIT	0.0083
HKSL	22	22	19.21732	113	55	40.73301	95.2972	-2393382.4157	5393861.1745	2412592.4105	825890.369	810634.275	Leica GR50	LEIAR25.R4	LEIT	0.0083
HKSS	22	25	51.84467	114	16	09.45672	38.7135	-2424425.1013	5377188.1768	2418617.7454	832412.520	845782.299	Leica GR50	LEIAR25.R4	LEIT	0.0083
HKST	22	23	42.97449	114	11	03.27030	258.7045	-2417142.8718	5382345.4730	2415036.9459	828445.559	837026.655	Leica GR50	LEIAR25.R4	LEIT	0.0083
HKTK	22	32	47.64813	114	13	23.80143	22.5335	-2418092.3728	5374658.3417	2430429.1904	845200.562	841041.177	Trimble NetR9	TRM59800.00	SCIS	0.0083
HKWS	22	26	03.41652	114	20	07.35855	63.7909	-2430579.0108	5374285.6738	2418956.3331	832774.158	852585.083	Leica GR50	LEIAR25.R4	LEIT	0.0083
KYC1	22	17	02.58950	114	04	34.70421	116.383	-2408855.2574	5391043.2386	2403591.1306	816133.272	825903.973	Trimble NetR9	TRM57971.00	NONE	0.120
T430	22	29	40.99577	114	08	17.51698	41.3228	-2411015.2264	5380265.7133	2425132.7008	839458.810	832288.325	Leica GR50	TRM59800.00	SCIT	1.568

* Note 1: The HK1980 Grid Coordinates of all stations are transformed from WGS84 (ITRF96 at epoch 1998:121) using [7P_ITRF96_HK80_V1.0](#) parameter set, except KYC1 (Trig.75) and T430 (Trig.430) by terrestrial measurement.

* Note 2: The height of antenna is measured vertically from the Station Reference Point to the Antenna Reference Point (ARP, bottom of antenna)

* Note 3: Refer annex 1 for receiver & antenna installation record

Station	Receiver	Since	Antenna (20 characters)		Since
HKCL	Trimble NetR9	2013-06-20	TRM59800.00	SCIT	2009-12-31
HKCL	Leica GR50	2018-04-10			
HKCL	Trimble NetR9	2018-04-12			
HKFN	Leica GRX1200 PRO	2005-01-13	LEIAT504	LEIS	2004-12-22
HKFN	Leica GRX1200+GNSS	2011-08-15	LEIAR25.R4	LEIT	2011-08-26
HKFN	Leica GR50	2018-11-26	LEIAT504	LEIS	2015-04-15
HKFN	Trimble NetR9	2019-06-25			
HKKS	Trimble NetR9	2014-04-16	TRM59800.00	SCIS	2014-04-16
HKKS	Leica GR50	2018-05-30			
HKKT	Leica GRX1200 PRO	2005-03-11	LEIAT504	LEIS	2004-12-22
HKKT	Leica GRX1200+GNSS	2011-08-12	LEIAR25.R4	LEIT	2011-08-24
HKKT	Leica GR25	2016-03-16			
HKKT	Leica GR50	2016-11-02			
HKLM	Trimble NetR9	2014-04-16	TRM59800.00	SCIS	2014-04-16
HKLM	Leica GR50	2020-03-10			
HKLT	Leica GRX1200 PRO	2005-03-10	LEIAT504	LEIS	2004-12-22
HKLT	Leica GRX1200+GNSS	2011-08-24	LEIAR25.R4	LEIT	2011-09-07
HKLT	Leica GR25	2015-03-23			
HKLT	Leica GRX1200+GNSS	2015-10-30			
HKLT	Leica GR25	2016-03-17			
HKLT	Trimble NetR9	2016-03-30			
HKLT	Leica GR50	2017-05-05			
HKMW	Leica GRX1200 PRO	2005-03-21	LEIAT504	LEIS	2004-12-22
HKMW	Leica SR530	2011-08-26	LEIAR25.R4	LEIT	2011-11-18
HKMW	Leica GRX1200+GNSS	2011-11-18			
HKMW	Leica GR25	2016-03-01			
HKMW	Leica GR50	2016-09-27			
HKMW	Trimble NetR9	2019-05-14			
HKNP	Leica GRX1200 PRO	2005-03-21	LEIAT504	LEIS	2004-12-22
HKNP	Leica SR530	2011-09-06	LEIAR25.R4	LEIT	2011-11-18
HKNP	Leica GRX1200+GNSS	2011-11-18			
HKNP	Leica GR25	2016-02-23			
HKNP	Leica GR50	2016-09-27			
HKOH	Leica GRX1200 PRO	2005-03-09	LEIAT504	LEIS	2004-12-22
HKOH	Leica SR530	2011-09-06	LEIAR25.R4	LEIT	2011-11-16
HKOH	Leica GRX1200+GNSS	2011-11-16			
HKOH	Leica GR25	2016-03-02			
HKOH	Leica GR50	2016-10-20			
HKPC	Leica GRX1200 PRO	2005-03-11	LEIAT504	LEIS	2004-12-22
HKPC	Leica GRX1200+GNSS	2011-08-26	LEIAT502	NONE	2005-08-23
HKPC	Leica GR25	2016-03-22	LEIAT504	LEIS	2005-08-25
HKPC	Leica GR50	2017-01-17	LEIAR25.R4	LEIT	2011-09-06

Station	Receiver	Since	Antenna (20 characters)	Since
HKQT	Trimble NetR9	2015-11-02	TRM59800.00 SCIT	2011-10-12
HKQT	Leica GR25	2016-06-02		
HKQT	Leica GR50	2016-09-28		
HKQT	Trimble NetR9	2017-01-18		
HKSB	Leica GRX1200+GNSS	2015-03-05	LEIAR25.R4 LEIT	2015-03-05
HKSB	Leica GR25	2016-03-30		
HKSB	Leica GR50	2016-11-11		
HKSC	Leica GRX1200 PRO	2005-03-14	LEIAT504 LEIS	2004-12-22
HKSC	Leica SR530	2011-05-16	LEIAR25.R4 LEIT	2011-08-24
HKSC	Leica GRX1200 PRO	2011-05-21		
HKSC	Leica GRX1200+GNSS	2011-08-12		
HKSC	Leica GR25	2015-03-23		
HKSC	Leica GR50	2016-10-27		
HKSL	Leica GRX1200 PRO	2005-03-10	LEIAT504 LEIS	2004-12-22
HKSL	Leica GRX1200+GNSS	2011-08-24	LEIAR25.R4 LEIT	2011-09-07
HKSL	Leica GR25	2015-10-30		
HKSL	Leica GR50	2016-11-02		
HKSS	Leica GRX1200 PRO	2005-01-06	LEIAT504 LEIS	2004-12-22
HKSS	Leica SR530	2010-09-15	LEIAR25.R4 LEIT	2011-11-16
HKSS	Leica GRX1200+GNSS	2011-11-16		
HKSS	Leica GR25	2016-03-18		
HKSS	Leica GR50	2016-09-22		
HKST	Leica GRX1200 PRO	2005-03-10	LEIAT504 LEIS	2004-12-22
HKST	Leica GRX1200+GNSS	2011-08-15	LEIAR25.R4 LEIT	2011-08-25
HKST	Leica GR25	2016-03-15		
HKST	Leica GR50	2016-10-27		
HKTK	Trimble NetR9	2014-04-16	TRM59800.00 SCIS	2014-04-16
HKTP	Trimble NetR9	2017-10-24	LEIAT504 LEIS	2017-10-24
HKWS	Leica GRX1200 PRO	2005-03-10	LEIAT504 LEIS	2004-12-22
HKWS	Leica GRX1200+GNSS	2011-09-07	LEIAR25.R4 LEIT	2011-09-07
HKWS	Leica GR25	2015-10-26		
HKWS	Leica GR50	2016-12-15		
KYC1	Trimble NetR9	2016-08-03	TRM57971.00 NONE	2016-03-31
T430	Trimble NetR9	2013-04-18	TRM59800.00 SCIT	2010-02-27
T430	Leica GR25	2016-03-17		
T430	Leica GR50	2016-11-09		

SatRef Station Coordinate List as at 4 March 2015

SatRef Station	WGS84 (ITRF96)										HK1980 Grid Coordinates		HKPD
	Latitude (N)			Longitude (S)			Ellipsoidal Height	Cartesian Coordinates			(* Note1)		
	Deg	Min	Sec	Deg	Min	Sec		X	Y	Z	N	E	
HKFN	22	29	40.87008	114	08	17.40609	41.2097	-2411012.8960	5380268.2641	2425129.0855	839454.966	832285.140	44.46
HKKS	22	22	04.43703	114	18	42.96093	44.7166	-2429525.8914	5377816.6391	2412152.7303	825420.788	850178.266	46.98
HKKT	22	26	41.66174	114	03	59.63436	34.5565	-2405143.8926	5385195.2396	2420032.5321	833946.138	824913.087	38.062
HKLM	22	13	08.24998	114	07	12.21326	8.5508	-2414045.9395	5391602.3529	2396878.8850	808922.778	830410.197	11.245
HKLT	22	25	05.28272	113	59	47.84432	125.9349	-2399062.7376	5389237.8570	2417327.0576	830988.470	817709.927	129.666
HKMW	22	15	20.92522	114	00	11.43814	194.9654	-2402484.1136	5395262.4562	2400726.9621	813012.951	818363.989	198.230
HKNP	22	14	56.63737	113	53	37.95000	350.7004	-2392360.2680	5400226.2757	2400094.4678	812282.866	807096.092	354.421
HKOH	22	14	51.67380	114	13	42.78789	166.4180	-2423816.9075	5386057.1060	2399883.3789	812103.834	841595.061	168.689
HKPC	22	17	05.81671	114	02	16.22571	18.1234	-2405183.0001	5392541.8246	2403645.7241	816235.675	821939.903	21.367
HKSC	22	19	19.81950	114	08	28.27647	20.2270	-2414266.9102	5386768.9793	2407460.0272	820351.389	832591.320	23.119
HKSL	22	22	19.21691	113	55	40.73278	95.3029	-2393382.4139	5393861.1864	2412592.4010	825890.356	810634.269	99.264
HKSS	22	25	51.84451	114	16	09.45642	38.7091	-2424425.0924	5377188.1784	2418617.7394	832412.516	845782.290	41.289
HKST	22	23	42.97409	114	11	03.27018	258.7265	-2417142.8789	5382345.4973	2415036.9429	828445.546	837026.652	261.534
HKTK	22	32	47.64804	114	13	23.80140	22.5275	-2418092.3702	5374658.3379	2430429.1858	845200.559	841041.176	25.462
HKWS	22	26	03.41646	114	20	07.35829	63.7889	-2430579.0036	5374285.6759	2418956.3306	832774.156	852585.076	66.107
T430	22	29	40.99527	114	08	17.51706	41.3084	-2411015.2253	5380265.7057	2425132.6812	839458.810	832288.325	44.57

* Note 1: The HK1980 Grid Coordinates of all stations are transformed from WGS84 (ITRF96) using [7P ITRF96 HK80_V1.0](#) parameter set, except T430 by terrestrial measurement.