

SatRef Station Coordinate List as at 1 April 2016

Revision: 05 December 2024

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 Alloy	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 Alloy	LEIAT504	LEIS	1.7780
HKKS	22	22	04.43698	114	18	42.96091	44.7118	-2429525.8892	5377816.6359	2412152.7269	825420.787	850178.265	Leica GR50	HXCCGX611A	HXCM	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 Alloy	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 Alloy	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	Leica GR50	LEIAT504	LEIS	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	116.3830	-2408855.2574	5391043.2386	2403591.1306	816133.272	825903.973	Trimble NetR9	TRM59791.00	NONE	0.1200
T430	22	29	40.99577	114	08	17.51698	41.3228	-2411015.2264	5380265.7133	2425132.7008	839458.832	832288.311	Leica GR50	TRM59800.00	SCIT	1.5680

\* 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	20/6/2013	TRM59800.00 SCIT	31/12/2009
HKCL	Leica GR50	10/4/2018		
HKCL	Trimble NetR9	12/4/2018		
HKCL	Trimble Alloy	21/4/2023		
HKFN	Leica GRX1200 PRO	13/1/2005	LEIAT504 LEIS	22/12/2004
HKFN	Leica GRX1200+GNSS	15/8/2011	LEIAR25.R4 LEIT	26/8/2011
HKFN	Leica GR50	26/11/2018	LEIAT504 LEIS	15/4/2015
HKFN	Trimble NetR9	25/6/2019		
HKFN	Trimble Alloy	17/4/2023		
HKKS	Trimble NetR9	16/4/2014	TRM59800.00 SCIS	16/4/2014
HKKS	Leica GR50	30/5/2018		
HKKS			HXCCHX611A HXCM	8/10/2024
HKKT	Leica GRX1200 PRO	11/3/2005	LEIAT504 LEIS	22/12/2004
HKKT	Leica GRX1200+GNSS	12/8/2011	LEIAR25.R4 LEIT	24/8/2011
HKKT	Leica GR25	16/3/2016		
HKKT	Leica GR50	2/11/2016		
HKLM	Trimble NetR9	16/4/2014	TRM59800.00 SCIS	16/4/2014
HKLM	Leica GR50	10/3/2020		
HKLT	Leica GRX1200 PRO	10/3/2005	LEIAT504 LEIS	22/12/2004
HKLT	Leica GRX1200+GNSS	24/8/2011	LEIAR25.R4 LEIT	7/9/2011
HKLT	Leica GR25	23/3/2015		
HKLT	Leica GRX1200+GNSS	30/10/2015		
HKLT	Leica GR25	17/3/2016		
HKLT	Trimble NetR9	30/3/2016		
HKLT	Leica GR50	5/5/2017		
HKMW	Leica GRX1200 PRO	21/3/2005	LEIAT504 LEIS	22/12/2004
HKMW	Leica SR530	26/8/2011	LEIAR25.R4 LEIT	18/11/2011
HKMW	Leica GRX1200+GNSS	18/11/2011		
HKMW	Leica GR25	1/3/2016		
HKMW	Leica GR50	27/9/2016		
HKMW	Trimble NetR9	14/5/2019		
HKMW	Trimble Alloy	29/3/2023		
HKNP	Leica GRX1200 PRO	21/3/2005	LEIAT504 LEIS	22/12/2004
HKNP	Leica SR530	6/9/2011	LEIAR25.R4 LEIT	18/11/2011
HKNP	Leica GRX1200+GNSS	18/11/2011		
HKNP	Leica GR25	23/2/2016		
HKNP	Leica GR50	27/9/2016		
HKOH	Leica GRX1200 PRO	9/3/2005	LEIAT504 LEIS	22/12/2004
HKOH	Leica SR530	6/9/2011	LEIAR25.R4 LEIT	16/11/2011
HKOH	Leica GRX1200+GNSS	16/11/2011		
HKOH	Leica GR25	2/3/2016		
HKOH	Leica GR50	20/10/2016		
HKPC	Leica GRX1200 PRO	11/3/2005	LEIAT504 LEIS	22/12/2004
HKPC	Leica GRX1200+GNSS	26/8/2011	LEIAT502 NONE	23/8/2005
HKPC	Leica GR25	22/3/2016	LEIAT504 LEIS	25/8/2005
HKPC	Leica GR50	17/1/2017	LEIAR25.R4 LEIT	6/9/2011

Station	Receiver	Since	Antenna (20 characters)	Since
HKQT	Trimble NetR9	2/11/2015	TRM59800.00 SCIT	12/10/2011
HKQT	Leica GR25	2/6/2016		
HKQT	Leica GR50	28/9/2016		
HKQT	Trimble NetR9	18/1/2017		
HKQT	Trimble Alloy	12/4/2023		
HKSB	Leica GRX1200+GNSS	5/3/2015	LEIAR25.R4 LEIT	5/3/2015
HKSB	Leica GR25	30/3/2016		
HKSB	Leica GR50	11/11/2016		
HKSB	Trimble NetR9	10/8/2021		
HKSB	Trimble Alloy	21/4/2023		
HKSC	Leica GRX1200 PRO	14/3/2005	LEIAT504 LEIS	22/12/2004
HKSC	Leica SR530	16/5/2011	LEIAR25.R4 LEIT	24/8/2011
HKSC	Leica GRX1200 PRO	21/5/2011		
HKSC	Leica GRX1200+GNSS	12/8/2011		
HKSC	Leica GR25	23/3/2015		
HKSC	Leica GR50	27/10/2016		
HKSL	Leica GRX1200 PRO	10/3/2005	LEIAT504 LEIS	22/12/2004
HKSL	Leica GRX1200+GNSS	24/8/2011	LEIAR25.R4 LEIT	7/9/2011
HKSL	Leica GR25	30/10/2015		
HKSL	Leica GR50	2/11/2016		
HKSS	Leica GRX1200 PRO	6/1/2005	LEIAT504 LEIS	22/12/2004
HKSS	Leica SR530	15/9/2010	LEIAR25.R4 LEIT	16/11/2011
HKSS	Leica GRX1200+GNSS	16/11/2011		
HKSS	Leica GR25	18/3/2016		
HKSS	Leica GR50	22/9/2016		
HKST	Leica GRX1200 PRO	10/3/2005	LEIAT504 LEIS	22/12/2004
HKST	Leica GRX1200+GNSS	15/8/2011	LEIAR25.R4 LEIT	25/8/2011
HKST	Leica GR25	15/3/2016		
HKST	Leica GR50	27/10/2016		
HKTK	Trimble NetR9	16/4/2014	TRM59800.00 SCIS	16/4/2014
HKTK	Leica GR50	21/10/2020	LEIAT504 LEIS	30/4/2024
HKTP	Trimble NetR9	24/10/2017	LEIAT504 LEIS	24/10/2017
HKWS	Leica GRX1200 PRO	10/3/2005	LEIAT504 LEIS	22/12/2004
HKWS	Leica GRX1200+GNSS	7/9/2011	LEIAR25.R4 LEIT	7/9/2011
HKWS	Leica GR25	26/10/2015		
HKWS	Leica GR50	15/12/2016		
KYC1	Trimble NetR9	3/8/2016	TRM57971.00 NONE	31/3/2016
T430	Trimble NetR9	18/4/2013	TRM59800.00 SCIT	27/2/2010
T430	Leica GR25	17/3/2016		
T430	Leica GR50	9/11/2016		

## 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.