

SOPAC Southern California Real-Time High-Rate GNSS Network
Yehuda Bock 5/13/2018

Coordinates are in CSRS Epoch 2017.50 (NAD83)

SOPAC Maintained, HPWREN Communications

Code	Station Name	Topcon Site ID	Port	Data Format	GNSS	Sub-Net	Responsible	Telemetry	Code	Geodetic North Latitude (DMS)	Geodetic West Longitude (DMS)	Ellipsoidal Height (m)
BLSA	Cypress	516	8000	RTCM 3.0	GNSS	OCR TN	SOPAC	SOPAC	blsa	33 47 58.351295	118 1 43.196962	-22.476
CCCS	Placentia	517	8001	RTCM 3.0	GNSS	OCR TN	OCR TN	OCR TN	cccs	33 51 45.868589	117 51 53.753024	32.534
DESC	Descanso Detention Facility	507/GAPs/Met	8076	RTCM 3.0	GNSS	SDCRTN	SOPAC	SOPAC	desc	32 49 47.701943	116 38 30.433268	958.028
DSME	Encinitas	504	8030	RTCM 3.0	GNSS	SDCRTN	SOPAC	SOPAC	dsme	33 2 11.313500	117 14 58.287542	56.861
FVPK	Costa Mesa	522	8009	RTCM 3.0	GNSS	OCR TN	SOPAC	SOPAC	fvpk	33 39 44.372826	117 56 8.531055	-10.852
JAS1	Gillespie Field	525	8077	RTCM 3.0	GNSS	SDCRTN	SOPAC	SOPAC	jas1	32 49 40.506643	116 59 17.054975	98.273
MJPK	Modjeska Peak	510	8006	RTCM 3.0	GNSS	OCR TN	SOPAC	SOPAC	mjpk	33 42 52.128190	117 33 1.653261	1528.702
MONP	Laguna Mountains	509	8043	RTCM 3.0	GNSS	SDCRTN	SOPAC	SOPAC	monp	32 53 30.979328	116 25 20.420353	1843.313
MVFD	Montezuma Valley Fire Dept.	505	8045	RTCM 3.0	GNSS	SDCRTN	SOPAC	SOPAC	mvfd	33 12 39.135712	116 31 31.088721	1190.832
NSSS	Naval Space Surveillance Station	508	8062	RTCM 3.0	GNSS	SDCRTN	SOPAC	SOPAC	nsss	32 34 45.529864	116 58 21.617710	124.329
OEOC	Silverado	523	8010	RTCM 3.0	GNSS	OCR TN	SOPAC	SOPAC	oeoc	33 45 57.084718	117 44 38.846774	359.321
PIN1	Pinyon Flat 1	512	8020	RTCM 3.0	GNSS	SOPAC	SOPAC	SOPAC	pin1	33 36 43.753993	116 27 29.334915	1256.925
PIN2	Pinyon Flat 2	513/GAPs/Met	8050	RTCM 3.0	GNSS	SOPAC	SOPAC	SOPAC	pin2	33 36 43.724974	116 27 27.383056	1259.146
PMOB	Palomar Mountain	501/GAPs/Met	8019	RTCM 3.0	GNSS	SDCRTN	SOPAC	SOPAC	pmob	33 21 26.057164	116 51 34.326405	1663.262
POTR	Potrero Park	506/GAPs/Met	8051	RTCM 3.0	GNSS	SDCRTN	SOPAC	SOPAC	potr	32 37 6.276048	116 35 27.076667	731.02
RAAP	Ramona	503/GAPs/Met	8027	RTCM 3.0	GNSS	SDCRTN	SOPAC	SOPAC	raap	33 2 32.042011	116 55 2.053482	395.758
SACY	Santa Ana	520	8004	RTCM 3.0	GNSS	OCR TN	SOPAC	SOPAC	sacy	33 44 35.678005	117 53 44.040061	-10.580
SCIP	San Clemente Island	515	8054	RTCM 3.0	GNSS	SOPAC	SOPAC	SOPAC	scip	32 54 51.935319	118 29 16.538135	453.561
SIO5	La Jolla	502/GAPs/Met	8021	RTCM 3.0	GNSS	SOPAC	SOPAC	SOPAC	sio5	32 50 26.639773	117 14 58.842040	186.261
SNHS	La Habra	518	8002	RTCM 3.0	GNSS	OCR TN	OCR TN	OCR TN	snhs	33 55 38.408600	117 55 43.019031	67.133
TRAK	Irvine	524	8011	RTCM 3.0	GNSS	OCR TN	SOPAC	SOPAC	trak	33 37 4.561906	117 48 12.326052	116.245
WHYT	Lake Forest	521	8005	RTCM 3.0	GNSS	OCR TN	SOPAC	SOPAC	whyt	33 40 28.161397	117 38 36.406366	266.121

PBO and USGS Maintained, HPWREN Communications

Code	Station Name	Topcon Site ID	Port	Data Format	GNSS	Sub-Net	Responsible	Telemetry	Code	Geodetic North Latitude (DMS)	Geodetic West Longitude (DMS)	Ellipsoidal Height (m)
CAT2	Avalon, Catalina Island		8007	RT17		OCR TN	PBO	SOPAC	cat2	33 18 41.816313	118 20 1.698205	477.936
CRRS	Westmorland		8024	RT17		SOPAC	PBO	SOPAC	crss	33 4 11.298149	115 44 6.105155	-81.128
DHLG	Durmid Hill	514	8078	RTCM 3.0	GNSS	SOPAC	USGS	SOPAC	dhlg	33 23 23.290038	115 47 16.858462	-82.276
GLRS	Niland	GAPs	8022	RTCM 3.0	GNSS*	SOPAC	PBO	SOPAC	glrs	33 16 29.310404	115 31 16.891261	-47.872
GMPK	Glamis		8072	RTCM 3.0	GNSS*	SOPAC	PBO	SOPAC	gmpk	33 3 3.892818	114 49 38.396326	591.976
KYVW	Joshua Tree	511	8016	RTCM 3.0	GNSS	SOPAC	USGS	SOPAC	kyvw	33 55 31.318063	116 10 24.176185	1498.952
IID2	IID2_SCGN_CS1998		8074	RT17		SOPAC	PBO	SOPAC	iid2	32 42 22.194473	115 1 54.442010	10.561
P066	Jacumba		8059	RT17		SDCRTN	PBO	SOPAC	p066	32 36 59.482445	116 10 11.196399	823.639
P472	Camp Elliot		8040	RTCM 3.0		SDCRTN	PBO	SOPAC	p472	32 53 21.146635	117 6 16.861851	138.582
P473	Jamacha		8055	RT17		SDCRTN	PBO	SOPAC	p473	32 44 1.587488	116 56 58.214896	189.304
P474	Fallbrook		8056	RT17		SDCRTN	PBO	SOPAC	p474	33 21 18.687662	117 14 55.249300	183.638
P478	Valley Center		8057	RT17		SDCRTN	PBO	SOPAC	p478	33 14 8.567143	117 4 17.684899	372.306
P480	Vallecito		8041	RTCM 3.0	GNSS*	SDCRTN	PBO	SOPAC	p480	32 58 33.577341	116 20 54.686890	436.789
P482	Mataguay Camp	GAPs	8048	RT17	GNSS*	SDCRTN	PBO	SOPAC	p482	33 14 24.637552	116 40 17.043273	879.455
P483	Julian Bin Station	GAPs	8060	RTCM 3.0	GNSS*	SDCRTN	PBO	SOPAC	p483	33 3 32.982600	116 34 9.530065	1376.302
P484	SkyOaksBFSCS2005	GAPs	8075	RTCM 3.0	GNSS*	SOPAC	PBO	SOPAC	p484	33 22 32.124487	116 37 14.973534	1383.225
P486	Borrego Springs Airport	GAPs	8049	RTCM 3.0	GNSS*	SDCRTN	PBO	SOPAC	p486	33 15 36.680263	116 19 20.187060	127.017
P494	El Centro	GAPs	8065	RTCM 3.0	GNSS*	SOPAC	PBO	SOPAC	p494	32 45 34.745309	115 43 55.395075	-43.507
P497	Imperial		8069	RT17		SOPAC	PBO	SOPAC	p497	32 50 5.035061	115 34 37.266467	-50.227
P499	Brawley		8066	RT17		SOPAC	PBO	SOPAC	p499	32 58 46.570402	115 29 16.435892	-73.415
P500	El Centro		8067	RT17		SOPAC	PBO	SOPAC	p500	32 41 24.155516	115 17 59.705542	-19.802
P506	Calipatria	GAPs	8070	RTCM 3.0	GNSS*	SOPAC	PBO	SOPAC	p506	33 4 53.136907	115 30 36.664777	-82.645
P509	Holtville		8068	RT17		SOPAC	PBO	SOPAC	p509	32 53 26.373949	115 17 38.053599	-28.843
SBCC	Mission Viejo		8003	RT17		OCR TN	PBO	SOPAC	sbcc	33 33 10.795341	117 39 41.310240	89.389
SLMS	Salton City	GAPs	8017	RTCM 3.0	GNSS*	SOPAC	PBO	SOPAC	slms	33 17 32.009479	115 58 40.185868	-45.161
USGC	Ocotillo Wells	GAPs	8018	RTCM 3.0	GNSS*	SOPAC	PBO	SOPAC	usgc	33 1 48.221714	116 5 7.163508	134.202

* GNSS signals not yet assimilated into CRTN

- OCR TN Orange County Real Time Network
- PBO Plate Boundary Observatory
- SDCRTN San Diego County Real Time Network
- SOPAC Scripps Orbit and Permanent Array Center
- USGS USGS Pasadena Office