

**SERVICIO DE CARTOGRAFIA CATASTRAL ESCALA 1:1000 y 1:5000
DEL MUNICIPIO DE BAHÍA DE BANDERAS, NAYARIT**

**LEVANTAMIENTO DE APOYO TERRESTRE
LIGADOS A LA RED GEODESICA NACIONAL ACTIVA**

**LISTADO DE COORDENADAS RESULTANTES DEL POST-PROCESO
COORDENADAS GEODESICAS ITRF2008 EPOCA 2010.0**

VERTICES BASE	LATITUD NORTE	LONGITUD OESTE	ALTURA ELIPSOIDAL
18020CATBASE	20°41'49.60670" N	105°16'03.70715" W	-10.400

BANCOS DE NIVEL	LATITUD NORTE	LONGITUD OESTE	ALTURA ELIPSOIDAL
V182	20° 41' 57.50483" N	105° 16' 15.40629" W	-17.244
V1821	20° 45' 15.56159" N	105° 22' 50.15252" W	-10.5043
V1836	20° 53' 54.39234" N	105° 24' 43.44451" W	-19.7455

VERTICES BASE	LATITUD NORTE	LONGITUD OESTE	ALTURA ELIPSOIDAL
18020CAT001	20°41'39.33438"N	105°17'41.64112"W	-19.396
18020CAT002	20°42'15.62277"N	105°17'51.99828"W	-19.245
18020CAT003	20°43'07.32382"N	105°18'15.33778"W	-18.476
18020CAT004	20°44'00.22592"N	105°18'43.49710"W	-19.121
18020CAT005	20°44'39.67563"N	105°19'19.31056"W	-19.984
18020CAT006	20°45'17.15686"N	105°20'11.99404"W	-13.765
18020CAT007	20°45'37.07284"N	105°20'45.44614"W	-16.357
18020CAT008	20°45'48.82828"N	105°21'35.91226"W	-13.386
18020CAT009	20°46'07.92034"N	105°22'42.80702"W	38.952
18020CAT010	20°45'08.29143"N	105°23'28.12606"W	10.585
18020CAT011	20°44'28.88447"N	105°23'19.01855"W	0.218
18020CAT012	20°46'05.18044"N	105°19'06.99838"W	21.708
18020CAT013	20°45'27.23896"N	105°18'26.44818"W	-8.493
18020CAT014	20°44'35.47758"N	105°17'58.86089"W	-15.973
18020CAT015	20°44'02.17639"N	105°17'10.12527"W	-16.343
18020CAT016	20°43'13.37922"N	105°16'42.72091"W	-16.614
18020CAT017	20°42'14.17661"N	105°16'23.64915"W	-14.878
18020CAT018	20°41'36.44520"N	105°15'37.62793"W	-19.619
18020CAT019	20°42'32.43696"N	105°14'42.56544"W	-18.279

COORDENADAS ITRF2008 UTM ZONA 13, GEOIDE GGM10

NORTE	ESTE	ALTURA ORTOMÉTRICA(GGM10)	ELEVACION S.N.M.M. LIGADA A B.N.	FECHA DE LEVANTAMIENTO
2288649.911	472122.812	13.200	14.3072	13/02/2019

NORTE	ESTE	ALTURA ORTOMÉTRICA(GGM10)	ELEVACION S.N.M.M.	ONDULACIÓN GEOIDAL	FECHA DE LEVANTAMIENTO
2288893.274	471784.795	6.380	7.5476	1.168	10/02/2019
2295004.876	460380.327	13.360	14.5444	1.184	10/02/2019
2310963.010	457145.091	3.980	4.9496	0.9696	10/02/2019
ONDULACIÓN APLICADA A TODA LA RED				1.107	

NORTE	ESTE	ALTURA ORTOMÉTRICA(GGM10)	ELEVACION S.N.M.M. LIGADA A B.N.	FECHA DE LEVANTAMIENTO
2288339.039	469289.281	4.310	5.417	14/02/2019
2289455.152	468991.720	4.460	5.567	13/02/2019
2291045.785	468319.589	5.240	6.347	14/02/2019
2292673.640	467508.267	4.600	5.707	14/02/2019
2293888.426	466474.942	3.720	4.827	14/02/2019
2295043.774	464953.821	9.950	11.057	13/02/2019
2295658.072	463987.817	7.370	8.477	13/02/2019
2296022.645	462529.376	10.380	11.487	13/02/2019
2296613.994	460596.503	62.770	63.877	19/02/2019
2294783.997	459281.721	34.500	35.607	20/02/2019
2293571.911	459542.172	24.160	25.267	11/03/2019
2296516.303	466836.170	45.310	46.417	15/02/2019
2295347.638	468006.412	15.110	16.217	19/02/2019
2293754.900	468801.171	7.660	8.767	13/02/2019
2292728.610	470208.721	7.280	8.387	13/02/2019
2291227.118	470998.680	7.010	8.117	13/02/2019
2289406.192	471547.219	8.510	9.617	13/02/2019
2288244.077	472876.560	3.940	5.047	13/02/2019
2289962.868	474472.004	5.180	6.287	18/02/2019

18020CAT020	20°43'11.62833"N	105°15'06.77468"W	-13.112
18020CAT021	20°43'25.95569"N	105°15'18.12368"W	-14.528
18020CAT022	20°43'56.40682"N	105°15'13.57851"W	-12.909
18020CAT023	20°44'13.76795"N	105°15'21.78308"W	-12.341
18020CAT024	20°44'29.61514"N	105°15'35.65352"W	-7.809
18020CAT025	20°44'41.90109"N	105°15'41.69914"W	-6.939
18020CAT026	20°44'58.40913"N	105°15'50.39838"W	-1.899
18020CAT027	20°45'11.69567"N	105°16'07.14303"W	3.173
18020CAT028	20°45'31.14898"N	105°16'38.69291"W	5.529
18020CAT029	20°45'07.42730"N	105°14'13.48555"W	-9.066
18020CAT030	20°45'28.15110"N	105°14'14.73118"W	-3.973
18020CAT031	20°43'23.37914"N	105°18'22.92008"W	-18.721
18020CAT032	20°43'43.81316"N	105°18'34.47687"W	-18.610
18020CAT033	20°44'27.09083"N	105°19'12.58824"W	-19.345
18020CAT034	20°41'22.48507"N	105°17'35.16917"W	-22.243
18020CAT035	20°41'07.21812"N	105°17'24.52502"W	-20.807
18020CAT036	20°45'55.66937"N	105°14'35.08747"W	5.853
18020CAT037	20°46'31.39213"N	105°15'27.72611"W	21.531
18020CAT038	20°46'08.59524"N	105°12'16.57848"W	-4.898
18020CAT039	20°46'25.42579"N	105°12'30.01755"W	-3.500
18020CAT040	20°46'36.18983"N	105°12'44.50324"W	-2.204
18020CAT041	20°47'02.04867"N	105°13'17.24725"W	3.950
18020CAT042	20°47'25.72697"N	105°13'45.80579"W	9.849
18020CAT043	20°47'40.53339"N	105°13'57.65256"W	10.419
18020CAT044	20°47'48.40837"N	105°14'12.21509"W	14.663
18020CAT045	20°48'26.46720"N	105°14'32.04453"W	25.393
18020CAT046	20°48'55.40703"N	105°14'49.21193"W	39.588
18020CAT047	20°48'24.91002"N	105°15'24.48835"W	47.462
18020CAT048	20°45'18.00843"N	105°22'46.61633"W	-6.749
18020CAT049	20°45'58.45125"N	105°22'22.54057"W	21.503
18020CAT050	20°44'41.86811"N	105°25'22.14032"W	-7.483
18020CAT051	20°45'28.56731"N	105°26'44.78578"W	26.143
18020CAT052	20°45'29.35858"N	105°27'45.85223"W	3.325
18020CAT053	20°45'56.21545"N	105°29'12.27864"W	-16.157
18020CAT054	20°46'13.45187"N	105°30'11.05683"W	-13.020
18020CAT055	20°46'18.88754"N	105°31'05.46775"W	-21.948
18020CAT056	20°45'40.46225"N	105°32'04.58225"W	-13.725
18020CAT057	20°46'13.59764"N	105°32'14.77119"W	-17.308
18020CAT058	20°46'57.98633"N	105°31'38.92050"W	15.124
18020CAT059	20°46'55.51773"N	105°30'42.34959"W	-8.790
18020CAT060	20°48'03.53223"N	105°28'58.59021"W	-21.501
18020CAT061	20°47'18.84369"N	105°29'10.03023"W	-8.814
18020CAT062	20°47'45.81247"N	105°28'23.39770"W	7.325
18020CAT063	20°48'09.48253"N	105°27'43.84958"W	49.409
18020CAT064	20°49'08.21127"N	105°28'27.45342"W	13.745
18020CAT065	20°49'48.23925"N	105°26'55.91309"W	30.921

2291168.748	473773.628	10.380	11.487	18/02/2019
2291609.709	473446.076	8.980	10.087	19/02/2019
2292545.621	473578.999	10.620	11.727	19/02/2019
2293079.706	473342.564	11.140	12.247	18/02/2019
2293567.515	472942.219	15.670	16.777	17/02/2019
2293945.489	472767.998	16.540	17.647	17/02/2019
2294453.384	472517.261	21.570	22.677	17/02/2019
2294862.633	472033.730	26.650	27.757	17/02/2019
2295462.204	471122.443	29.020	30.127	17/02/2019
2294726.276	475320.115	14.270	15.377	18/02/2019
2295363.415	475285.031	19.340	20.447	18/02/2019
2291539.767	468101.219	5.000	6.107	14/02/2019
2292168.581	467768.171	5.120	6.227	14/02/2019
2293501.160	466668.574	4.370	5.477	14/02/2019
2287820.724	469475.563	1.410	2.517	14/02/2019
2287350.840	469782.645	2.880	3.987	14/02/2019
2296210.250	474697.689	29.170	30.277	18/02/2019
2297310.792	473177.437	44.870	45.977	18/02/2019
2296602.067	478703.060	18.230	19.337	14/03/2019
2297119.964	478315.158	19.720	20.827	18/02/2019
2297451.415	477896.774	20.940	22.047	18/02/2019
2298247.634	476951.170	27.110	28.217	18/02/2019
2298976.702	476126.559	32.860	33.967	18/02/2019
2299432.369	475784.732	33.430	34.537	17/02/2019
2299675.073	475364.105	37.840	38.947	17/02/2019
2300845.925	474792.628	48.550	49.657	17/02/2019
2301736.345	474297.747	62.890	63.997	17/02/2019
2300800.400	473276.601	70.660	71.767	17/02/2019
2295079.857	460482.758	17.110	18.217	15/02/2019
2296321.532	461181.811	45.310	46.417	19/02/2019
2293979.985	455982.644	16.610	17.717	06/03/2019
2295422.040	453596.619	50.330	51.437	06/03/2019
2295451.327	451830.886	27.620	28.727	06/03/2019
2296284.311	449334.257	8.280	9.387	06/03/2019
2296819.407	447636.350	11.510	12.617	11/03/2019
2296991.486	446063.654	2.750	3.857	06/03/2019
2295815.761	444350.529	11.020	12.127	15/03/2019
2296835.407	444059.296	7.440	8.547	15/03/2019
2298196.615	445100.338	39.780	40.887	15/03/2019
2298115.460	446735.652	15.770	16.877	15/03/2019
2300197.157	449741.761	2.530	3.637	07/03/2019
2298824.311	449406.915	15.570	16.677	07/03/2019
2299649.392	450757.507	31.600	32.707	07/03/2019
2300373.755	451902.883	73.590	74.697	07/03/2019
2302182.884	450647.710	37.980	39.087	07/03/2019
2303405.868	453297.064	54.940	56.047	02/03/2019

18020CAT066	20°50'12.62543"N	105°27'22.89254"W	-2.136
18020CAT067	20°50'36.15960"N	105°27'50.32958"W	-14.193
18020CAT068	20°51'22.95282"N	105°27'23.79831"W	-10.735
18020CAT069	20°52'29.32863"N	105°27'03.74173"W	32.281
18020CAT070	20°52'11.62523"N	105°26'38.05529"W	-20.230
18020CAT071	20°52'36.40348"N	105°25'51.51787"W	16.754
18020CAT072	20°51'43.88000"N	105°25'31.70844"W	7.878
18020CAT073	20°53'54.85192"N	105°24'59.06131"W	-8.738
18020CAT074	20°53'34.31193"N	105°24'42.36254"W	-2.671
18020CAT075	20°53'16.62798"N	105°23'53.28990"W	9.230
18020CAT076	20°54'16.85157"N	105°23'09.82726"W	13.143
18020CAT077	20°54'09.79000"N	105°23'23.82291"W	10.563
18020CAT078	20°54'14.70878"N	105°24'08.58904"W	-5.614
18020CAT079	20°55'02.29865"N	105°24'21.95000"W	5.417
18020CAT080	20°55'50.98142"N	105°23'56.15159"W	20.330
18020CAT081	20°57'08.40448"N	105°21'45.17436"W	-7.813
18020CAT082	20°57'28.09470"N	105°21'22.77168"W	-21.207
18020CAT083	20°56'45.59983"N	105°21'02.45264"W	0.136
18020CAT084	20°57'01.72770"N	105°20'29.48055"W	-5.075
18020CAT085	20°49'10.75245"N	105°12'05.25362"W	17.132
18020CAT086	20°49'06.29155"N	105°11'43.93649"W	13.257
18020CAT087	20°49'11.77340"N	105°11'27.48373"W	11.552
18020CAT088	20°48'34.68914"N	105°11'46.24546"W	9.984
18020CAT089	20°48'48.43469"N	105°11'17.10795"W	5.509
18020CAT090	20°48'17.92538"N	105°11'41.04762"W	6.172
18020CAT091	20°51'53.33123"N	105°09'38.54561"W	24.008
18020CAT092	20°52'11.21326"N	105°09'20.51244"W	34.583
18020CAT093	20°50'57.81823"N	105°25'25.29871"W	43.397
18020CAT094	20°50'33.48974"N	105°24'48.19503"W	90.376
18020CAT095	20°49'00.99304"N	105°23'22.40891"W	229.555
18020CAT096	20°49'53.70664"N	105°24'22.80353"W	127.981
18020CAT097	20°49'24.37975"N	105°22'55.69210"W	263.073
18020CAT098	20°51'10.80948"N	105°26'46.04569"W	40.372
18020CAT099	20°51'14.77444"N	105°26'24.52379"W	1.298
18020CAT100	20°47'55.36916"N	105°28'13.22501"W	2.127
18020CAT101	20°55'10.26620"N	105°01'45.69074"W	71.072
18020CAT102	20°55'59.03029"N	105°02'07.91759"W	61.820
18020CAT103	20°56'08.91640"N	105°04'29.15455"W	49.316
18020CAT104	20°54'07.37979"N	105°07'31.32976"W	35.288
18020CAT105	20°55'12.78290"N	105°07'59.78247"W	50.530
18020CAT106	20°56'14.52695"N	105°08'43.18039"W	92.331
18020CAT107	20°51'04.11557"N	105°10'12.13451"W	17.903
18020CAT108	20°52'02.83337"N	105°10'21.56588"W	56.658
18020CAT109	20°48'11.46485"N	105°11'45.23007"W	8.354
18020CAT110	20°46'10.80564"N	105°12'40.14612"W	-5.801
18020CAT111	20°47'08.08641"N	105°13'45.61552"W	10.407

2304157.752	452519.418	21.930	23.037	02/03/2019
2304883.520	451728.543	9.920	11.027	02/03/2019
2306319.874	452499.372	13.370	14.477	02/03/2019
2308358.809	453084.675	56.270	57.377	02/03/2019
2307812.494	453825.351	3.720	4.827	03/03/2019
2308570.585	455172.077	40.610	41.717	03/03/2019
2306954.352	455740.166	31.700	32.807	03/03/2019
2310978.302	456693.971	15.020	16.127	04/03/2019
2310345.605	457174.766	21.050	22.157	04/03/2019
2309798.381	458591.138	32.590	33.697	04/03/2019
2311646.745	459851.271	36.710	37.817	04/03/2019
2311430.631	459446.439	34.150	35.257	04/03/2019
2311585.038	458153.601	18.060	19.167	04/03/2019
2313049.050	457771.330	29.120	30.227	04/03/2019
2314543.821	458520.252	43.760	44.867	13/03/2019
2316915.033	462308.634	15.690	16.797	27/02/2019
2317518.912	462956.940	2.040	3.147	27/02/2019
2316211.211	463540.847	23.560	24.667	27/02/2019
2316704.968	464494.134	18.310	19.417	27/02/2019
2302201.502	479037.491	40.110	41.217	09/03/2019
2302063.607	479653.470	36.220	37.327	09/03/2019
2302231.559	480129.220	34.270	35.377	08/03/2019
2301092.170	479585.550	32.980	34.087	09/03/2019
2301513.730	480428.282	28.260	29.367	09/03/2019
2300576.638	479735.174	29.170	30.277	09/03/2019
2307194.727	483282.892	46.680	47.787	08/03/2019
2307743.945	483804.494	57.230	58.337	08/03/2019
2305537.808	455921.655	67.210	68.317	05/03/2019
2304787.102	456991.977	114.130	115.237	05/03/2019
2301937.355	459464.304	253.210	254.317	05/03/2019
2303562.205	457722.701	151.710	152.817	05/03/2019
2302654.468	460238.248	286.680	287.787	05/03/2019
2305943.497	453589.287	64.350	65.457	02/03/2019
2306063.677	454211.559	24.930	26.037	03/03/2019
2299942.329	451052.445	26.380	27.487	23/02/2019
2313240.839	496947.169	92.970	94.077	16/02/2019
2314740.083	496305.488	83.790	84.897	16/02/2019
2315045.406	492226.428	71.530	72.637	16/02/2019
2311312.388	486962.020	57.750	58.857	16/02/2019
2313323.684	486141.749	73.030	74.137	16/02/2019
2315222.923	484889.941	114.870	115.977	16/02/2019
2305682.736	482310.737	40.650	41.757	21/02/2019
2307488.131	482040.129	79.370	80.477	21/02/2019
2300378.176	479614.033	31.360	32.467	21/02/2019
2296670.895	478021.727	17.360	18.467	21/02/2019
2298434.390	476131.289	33.600	34.707	21/02/2019

18020CAT112	20°47'54.72613"N	105°14'31.27794"W	18.779
18020CAT113	20°48'43.29621"N	105°15'05.91691"W	47.988
18020CAT114	20°45'22.81443"N	105°16'27.69113"W	4.553
18020CAT115	20°45'56.01601"N	105°22'12.66414"W	7.813
18020CAT116	20°44'13.70610"N	105°24'43.38962"W	15.543
18020CAT117	20°45'18.73483"N	105°25'21.88408"W	46.458
18020CAT118	20°45'26.30697"N	105°27'35.32896"W	10.656
18020CAT119	20°45'54.65730"N	105°29'09.41724"W	-16.970
18020CAT120	20°46'35.23285"N	105°30'21.52392"W	-8.101
18020CAT121	20°46'45.06850"N	105°23'10.28981"W	99.131
18020CAT122	20°48'31.84822"N	105°23'12.68796"W	288.849
18020CAT123	20°49'26.80100"N	105°24'09.30759"W	172.710
18020CAT124	20°50'22.56472"N	105°24'39.32578"W	95.087
18020CAT125	20°48'41.82110"N	105°28'36.84820"W	7.353
18020CAT126	20°50'21.52687"N	105°27'04.27862"W	7.997
18020CAT127	20°51'33.03297"N	105°25'27.39983"W	13.213
18020CAT128	20°52'46.95361"N	105°25'32.65190"W	18.401
18020CAT129	20°54'38.67758"N	105°23'09.67364"W	17.812
18020CAT130	20°55'38.20159"N	105°21'29.59560"W	96.264
18020CAT131	20°55'20.89056"N	105°24'17.08398"W	-20.109
18020CAT132	20°57'08.02121"N	105°21'34.15793"W	-12.336

2299870.110	474813.324	41.970	43.077	21/02/2019
2301364.781	473814.314	71.150	72.257	21/02/2019
2295205.442	471440.130	27.850	28.957	21/02/2019
2296246.011	461467.210	31.610	32.717	20/02/2019
2293111.334	457101.049	39.600	40.707	20/02/2019
2295113.328	455993.017	70.520	71.627	20/02/2019
2295356.645	452134.911	34.940	36.047	20/02/2019
2296236.161	449416.850	7.460	8.567	20/02/2019
2297489.954	447335.803	16.430	17.537	20/02/2019
2297757.889	459804.601	122.930	124.037	20/02/2019
2301040.700	459743.135	312.520	313.627	13/03/2019
2302734.082	458110.694	196.430	197.537	20/02/2019
2304450.584	457247.440	118.830	119.937	20/02/2019
2301372.384	450373.759	31.620	32.727	23/02/2019
2304429.890	453058.147	32.030	33.137	23/02/2019
2306620.558	455863.789	37.030	38.137	20/02/2019
2308893.471	455718.037	42.220	43.327	23/02/2019
2312317.723	459857.322	41.390	42.497	20/02/2019
2314140.944	462752.332	119.450	120.557	20/02/2019
2313620.261	457913.329	3.590	4.697	20/02/2019
2316902.533	462626.748	11.150	12.257	20/02/2019