



Tarija, 21 de agosto de 2017

Señor:
Lic. Douglas Acosta Castillo
GERENTE PROYECTO MULTIPLE SAN JACINTO
Presente.-

Ref.- SOLICITUD DE INFORMACIÓN DE BATIMETRÍAS DEL EMBALSE SAN JACINTO

De mi mayor consideración:

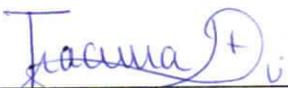
En primer lugar, reciba un cordial y afectuoso saludo, deseándole al mismo tiempo éxito en el ejercicio de sus funciones.

El motivo de la presente, es para solicitarle los informes de las batimetrías que se efectuaron en el embalse San Jacinto de las gestiones 2013 y 2017 ya sea en digital o físico.

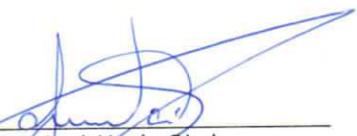
Esta información me será útil para para la realización de mi Proyecto de Grado intitulado "Análisis de la distribución de sedimentos depositado en el área de influencia de la obra de toma de la presa San Jacinto". Donde utilizaremos el nuevo equipamiento adquirido por el laboratorio de hidráulica para el levantamiento batimétrico.

Sin otro particular, y comprometiéndome al buen uso de esta información, aprovecho esta ocasión, para saludarlo atentamente

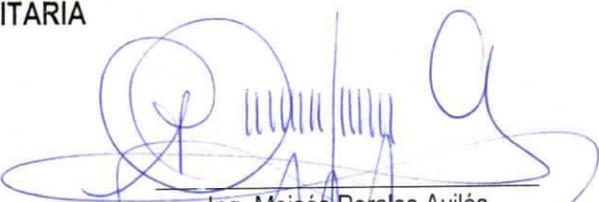
Atentamente:


Iracema Mariel Paniagua Ramirez
UNIVERSITARIA

Vo.Bo.


Ing. José Navia Ojeda
**DIRECTOR DEL DEPARTAMENTO DE
HIDRÁULICA Y OBRAS SANITARIAS**

Cc./ Archivo
Adj. Perfil de proyecto de grado


Ing. Moisés Perales Avilés
**DOCENTE INVESTIGADOR
LABORATORIO DE HIDRÁULICA E
HIDROLOGÍA**
Ing. Moisés Perales Avilés
DOCENTE
Dpto. Hidráulica y O. Sanitarias
U. A. "J. M. S."

Tarija, 15 de septiembre de 2017

Señor:

Lic. Douglas Leonardo Acosta Castillo

GERENTE GENERAL PROYECTO MÚLTIPLE SAN JACINTO

Presente:

Ref. SOLICITUD INFORME BATIMETRÍA DE 1989

De mi mayor consideración:

En virtud de las conversaciones sostenidas y la próxima firma del acuerdo interinstitucional entre la Facultad de Ciencias y Tecnología y el Proyecto Múltiple San Jacinto, que está programada para la próxima semana, es que solicitamos nos pueda facilitar el informe completo de la batimetría que se efectuó en el embalse San Jacinto en la gestión 1989 para iniciar los trabajos en la sistematización de esta información. Comprometiéndome al buen uso de la información otorgada que ayudará al total cumplimiento de las actividades planteadas en el acuerdo antes mencionado.

Agradeciendo de antemano su gentil predisposición en este asunto, me despido saludando muy atentamente.



Ing. Moisés Perales Avilés
DOCENTE - INVESTIGADOR
LABORATORIO DE HIDRÁULICA E HIDROLOGÍA
UNIVERSIDAD AUTÓNOMA JUAN MISAEL SARACHO

Ing. Moisés Perales Avilés
DOCENTE
Dpto. Hidráulica y O. Sanitarias
U. A. "J. M. S."

PROYECTO MÚLTIPLE "SAN JACINTO"
GERENCIA GENERAL
Fecha: 15 SEP 2017
Fojas: hr. 13:34
Firma: 

Cc.:/ Archivo



PROYECTO MÚLTIPLE
SAN JACINTO
"Agua para el Desarrollo"



Tarija, 20 de septiembre de 2017
CITE: P.M.S.J. /DLAC/GG/Nº135/2017

Señor:

Ing. Moisés Perales Avilés

DOCENTE INVESTIGADOR LABORATORIO DE HIDRÁULICA E HIDROLOGÍA

U.A. "J.M.S."

Presente.-

REF.: REMISIÓN DE INFORMACION.-

De mi consideración:

Mediante la presente, en atención a solicitud de fecha 21 de agosto del 2017, remito informes de las batimetrías que se efectuaron en el embalse de las gestiones 2013 y 2017, en medio digital.

Sin otro particular saludo a usted.

Atentamente:

Cc/Archivo


Lic. Douglas Leonardo Acosta Castillo
GERENTE GENERAL
PROYECTO MÚLTIPLE "SAN JACINTO"



Tarija 13 de marzo del 2018

Señor:

Lic. Douglas Leonardo Acosta Catillo

GERENTE GENERAL DEL PROYECTO MÚLTIPLE SAN JACINTO

Presente.-

PROYECTO MÚLTIPLE "SAN JACINTO"	
GERENCIA GENERAL	
Fecha:	13 MAR 2018
Fojas:	hcs. 13:50
Firma:	E. Avilés

REF. ENTREGA DE BATIMETRÍA DE 1989 DIGITALIZADA

De mi mayor consideración:

En el marco del acuerdo interinstitucional firmado entre el Proyecto Múltiple San Jacinto y la Facultad de Ciencias y Tecnología, la pasada gestión se inició trabajos en la digitalización del documento de la batimetría del embalse realizada en 1989.

Luego de concluido el trabajo de digitalización del documento y de todos los puntos de levantamiento, entregamos a su dependencia esta documentación en formato digital para su consideración.

Agradeciéndole de antemano su buena predisposición para el trabajo de manera coordinada me despido saludándolo muy atentamente.



Ing. Moisés Perales Avilés
DOCENTE - INVESTIGADOR
LABORATORIO DE HIDRÁULICA E HIDROLOGÍA

Ing. Moisés Perales Avilés
DOCENTE
Dpto. Hidráulica y O. Sanitarias
U. A. "J. M. S."

Cc. Archivo
Adj. Lo indicado

Tarija, 13 de marzo de 2018

Señor

Lic. Douglas Acosta Castillo

GERENTE PROYECTO MULTIPLE SAN JACINTO

Presente. –

PROYECTO MÚLTIPLE "SAN JACINTO" GERENCIA GENERAL
Fecha: 13 MAR 2018
Fojas: hrs. 13:50
Firma: <i>E. Avilés</i>

Ref.- SOLICITUD PLANOS BATIMETRIA 1989 DEL EMBALSE SAN JACINTO

De mi mayor consideración:

En primer lugar, reciba un cordial y afectuoso saludo, deseándole al mismo tiempo éxito en el ejercicio de sus funciones.

El motivo de la presente, es para solicitarle los planos que se efectuaron en el embalse San Jacinto en la gestión de 1989, siendo necesaria la información física.

Esta información me será útil para la realización de mi proyecto de grado titulado "Ajuste de la batimetría de 1989 y cuantificación de sedimentos para las gestiones 2013 y 2016".

Sin otro particular, y comprometiéndome al buen uso de esta información, aprovecho esta ocasión, para saludarlo muy cordialmente.

Atentamente:

Iracema Mariel Paniagua Ramirez
UNIVERSITARIA

Vo.Bo.


Ing. Moisés Perales Avilés
DOCENTE INVESTIGADOR
LABORATORIO DE HIDRAÚLICA E
HIDROLOGÍA

Cc./ Archivo

Ing. Moisés Perales Avilés
DOCENTE
Dpto. Hidráulica y O. Sanitarias
U. A. "J. M. S."

COORDENADAS EN EL SISTEMA PSAD-56

A continuacion se muestra una lista con los puntos en el sistema actual de referencia PSAD-56, que era el sistema que se usaba anteriormente.

Nº	NORTE	ESTE	ALTURA	DESCRIPCION
1	7610657.956	321345.749	1853	NA
2	7610671.997	321328.393	1853	NA
3	7610677.457	321323.128	1853	NA
4	7610686.622	321316.303	1853	NA
5	7610688.963	321313.378	1853	NA
6	7610692.473	321306.942	1853	NA
7	7610695.203	321304.017	1853	NA
8	7610695.983	321302.457	1853	NA
9	7610695.398	321300.507	1853	NA
10	7610694.228	321299.532	1853	NA
11	7610692.863	321300.507	1853	NA
12	7610686.037	321309.867	1853	NA
13	7610663.807	321330.148	1853	NA
14	7610655.031	321336.778	1853	NA
15	7610652.691	321339.704	1853	NA
16	7610659.321	321347.894	1854	NA
17	7610674.727	321332.878	1854	NA
18	7610688.573	321316.303	1854	NA
19	7610694.228	321307.332	1854	NA
20	7610700.273	321292.512	1854	NA
21	7610706.513	321283.541	1854	NA
22	7610707.098	321280.811	1854	NA
23	7610707.293	321277.886	1854	NA
24	7610706.513	321276.911	1854	NA
25	7610705.343	321277.301	1854	NA
26	7610703.003	321279.251	1854	NA
27	7610695.983	321293.682	1854	NA
28	7610690.133	321302.652	1854	NA
29	7610683.112	321310.842	1854	NA
30	7610654.446	321335.023	1854	NA
31	7610650.741	321339.119	1854	NA
32	7610660.881	321350.234	1855	NA
33	7610664.002	321346.529	1855	NA
34	7610676.677	321338.339	1855	NA
35	7610684.282	321331.903	1855	NA
36	7610690.133	321323.908	1855	NA

37	7610714.704	321269.501	1855	NA
38	7610719.774	321260.725	1855	NA
39	7610726.014	321253.12	1855	NA
40	7610741.615	321240.25	1855	NA
41	7610743.955	321236.349	1855	NA
42	7610744.93	321231.474	1855	NA
43	7610743.955	321220.749	1855	NA
44	7610742.98	321218.604	1855	NA
45	7610741.03	321217.239	1855	NA
46	7610738.495	321217.239	1855	NA
47	7610735.959	321218.019	1855	NA
48	7610732.254	321221.334	1855	NA
49	7610729.329	321225.234	1855	NA
50	7610726.989	321229.719	1855	NA
51	7610722.504	321243.955	1855	NA
52	7610713.144	321261.505	1855	NA
53	7610701.248	321277.886	1855	NA
54	7610690.718	321300.312	1855	NA
55	7610687.793	321304.212	1855	NA
56	7610680.577	321311.232	1855	NA
57	7610649.961	321336.583	1855	NA
58	7610661.466	321351.794	1856	NA
59	7610682.527	321335.218	1856	NA
60	7610688.573	321328.588	1856	NA
61	7610693.253	321320.983	1856	NA
62	7610713.144	321280.421	1856	NA
63	7610722.309	321265.016	1856	NA
64	7610725.039	321256.24	1856	NA
65	7610727.769	321252.73	1856	NA
66	7610731.669	321250	1856	NA
67	7610735.764	321248.245	1856	NA
68	7610740.055	321247.27	1856	NA
69	7610749.22	321246.1	1856	NA
70	7610753.51	321244.54	1856	NA
71	7610757.41	321242.395	1856	NA
72	7610760.53	321239.275	1856	NA
73	7610763.066	321235.569	1856	NA
74	7610765.796	321226.794	1856	NA
75	7610766.771	321217.824	1856	NA
76	7610765.601	321181.747	1856	NA
77	7610766.381	321177.457	1856	NA
78	7610767.941	321173.167	1856	NA
79	7610773.011	321165.757	1856	NA

80	7610779.056	321158.931	1856	NA
81	7610781.201	321155.031	1856	NA
82	7610781.591	321152.886	1856	NA
83	7610781.201	321150.741	1856	NA
84	7610778.471	321147.036	1856	NA
85	7610768.526	321137.676	1856	NA
86	7610765.601	321134.165	1856	NA
87	7610764.236	321130.07	1856	NA
88	7610766.186	321111.934	1856	NA
89	7610773.206	321085.998	1856	NA
90	7610774.571	321058.892	1856	NA
91	7610776.131	321050.117	1856	NA
92	7610782.761	321033.346	1856	NA
93	7610795.827	321009.555	1856	NA
94	7610798.752	321006.24	1856	NA
95	7610802.457	321003.705	1856	NA
96	7610814.938	320998.635	1856	NA
97	7610880.46	320858.034	1856	NA
98	7610876.17	320856.279	1856	NA
99	7610874.025	320856.474	1856	NA
100	7610871.88	320857.254	1856	NA
101	7610868.76	320860.569	1856	NA
102	7610864.08	320873.44	1856	NA
103	7610861.154	320876.56	1856	NA
104	7610848.674	320882.41	1856	NA
105	7610841.264	320887.285	1856	NA
106	7610827.808	320899.181	1856	NA
107	7610823.713	320901.131	1856	NA
108	7610819.033	320902.106	1856	NA
109	7610814.548	320901.911	1856	NA
110	7610810.257	320902.691	1856	NA
111	7610806.552	320905.226	1856	NA
112	7610804.212	320909.126	1856	NA
113	7610800.117	320926.872	1856	NA
114	7610796.607	320935.062	1856	NA
115	7610791.342	320942.278	1856	NA
116	7610771.061	320960.218	1856	NA
117	7610768.331	320963.729	1856	NA
118	7610766.381	320967.629	1856	NA
119	7610763.261	320976.209	1856	NA
120	7610755.265	321011.505	1856	NA
121	7610751.365	321019.501	1856	NA
122	7610746.1	321026.911	1856	NA

123	7610735.959	321035.686	1856	NA
124	7610733.034	321039.002	1856	NA
125	7610724.649	321054.992	1856	NA
126	7610722.309	321063.573	1856	NA
127	7610720.554	321081.513	1856	NA
128	7610718.799	321090.484	1856	NA
129	7610711.388	321106.864	1856	NA
130	7610709.048	321115.445	1856	NA
131	7610708.853	321120.125	1856	NA
132	7610709.438	321124.61	1856	NA
133	7610711.388	321128.51	1856	NA
134	7610714.314	321131.825	1856	NA
135	7610721.139	321138.066	1856	NA
136	7610723.674	321141.966	1856	NA
137	7610725.429	321146.061	1856	NA
138	7610726.014	321150.546	1856	NA
139	7610724.844	321164.002	1856	NA
140	7610725.429	321172.972	1856	NA
141	7610732.449	321189.743	1856	NA
142	7610733.424	321194.033	1856	NA
143	7610732.839	321198.323	1856	NA
144	7610727.769	321220.554	1856	NA
145	7610725.819	321224.454	1856	NA
146	7610718.214	321235.764	1856	NA
147	7610711.193	321257.02	1856	NA
148	7610693.838	321288.612	1856	NA
149	7610690.328	321296.997	1856	NA
150	7610686.052	321304.072	1856	NA
151	7610677.885	321312.704	1856	NA
152	7610670.572	321318.759	1856	NA
153	7610655.775	321330.995	1856	NA
154	7610647.696	321338.21	1856	NA
155	7610661.856	321352.769	1857	NA
156	7610680.187	321338.144	1857	NA
157	7610688.378	321329.758	1857	NA
158	7610695.398	321320.398	1857	NA
159	7610727.379	321257.41	1857	NA
160	7610770.866	321191.693	1857	NA
161	7610771.256	321185.842	1857	NA
162	7610773.011	321180.187	1857	NA
163	7610775.546	321175.117	1857	NA
164	7610779.056	321170.047	1857	NA
165	7610782.956	321165.757	1857	NA

166	7610792.902	321159.321	1857	NA
167	7610794.267	321156.591	1857	NA
168	7610794.267	321153.666	1857	NA
169	7610793.097	321150.936	1857	NA
170	7610791.147	321148.791	1857	NA
171	7610786.076	321145.476	1857	NA
172	7610916.537	320774.961	1857	NA
173	7610910.881	320777.886	1857	NA
174	7610908.541	320779.446	1857	NA
175	7610906.786	320781.396	1857	NA
176	7610904.836	320786.661	1857	NA
177	7610902.496	320798.752	1857	NA
178	7610899.766	320804.017	1857	NA
179	7610896.256	320808.697	1857	NA
180	7610891.576	320812.598	1857	NA
181	7610886.31	320814.938	1857	NA
182	7610874.61	320816.888	1857	NA
183	7610869.93	320820.203	1857	NA
184	7610866.225	320825.078	1857	NA
185	7610864.47	320830.733	1857	NA
186	7610760.335	320968.214	1857	NA
187	7610758.58	320973.869	1857	NA
188	7610756.24	320985.374	1857	NA
189	7610754.095	320990.835	1857	NA
190	7610648.039	321337.665	1857	NA
191	7610661.466	321353.354	1858	NA
192	7610895.281	321219.774	1858	NA
193	7610897.231	321217.044	1858	NA
194	7610898.206	321214.119	1858	NA
195	7610897.816	321207.293	1858	NA
196	7610895.086	321201.248	1858	NA
197	7610886.505	321191.108	1858	NA
198	7610884.555	321184.672	1858	NA
199	7610885.14	321164.587	1858	NA
200	7610884.165	321161.271	1858	NA
201	7610878.705	321153.081	1858	NA
202	7610878.51	321149.766	1858	NA
203	7610879.485	321146.451	1858	NA
204	7610881.24	321143.331	1858	NA
205	7610883.58	321140.796	1858	NA
206	7610889.236	321137.09	1858	NA
207	7610902.886	321134.36	1858	NA
208	7610906.006	321133.58	1858	NA

209	7610908.931	321132.41	1858	NA
210	7610917.707	321122.465	1858	NA
211	7610923.752	321119.735	1858	NA
212	7610930.382	321118.37	1858	NA
213	7610949.493	321112.715	1858	NA
214	7610962.949	321112.129	1858	NA
215	7610965.874	321110.764	1858	NA
216	7610968.019	321108.034	1858	NA
217	7610969.384	321104.914	1858	NA
218	7610969.384	321101.404	1858	NA
219	7610968.604	321098.089	1858	NA
220	7610966.849	321095.164	1858	NA
221	7610958.073	321085.218	1858	NA
222	7610954.758	321079.368	1858	NA
223	7610713.534	321160.491	1859	NA
224	7610712.949	321154.056	1859	NA
225	7610710.608	321148.206	1859	NA
226	7610701.638	321138.846	1859	NA
227	7610727.769	320936.427	1859	NA
228	7610731.864	320931.747	1859	NA
229	7610737.324	320928.627	1859	NA
230	7610762.285	320922.777	1859	NA
231	7610767.941	320919.852	1859	NA
232	7610772.816	320915.562	1859	NA
233	7610775.936	320910.101	1859	NA
234	7610783.736	320872.855	1859	NA
235	7610783.931	320834.828	1859	NA
236	7610785.296	320828.588	1859	NA
237	7610787.637	320822.543	1859	NA
238	7610791.342	320817.278	1859	NA
239	7610795.827	320812.988	1859	NA
240	7610807.137	320806.552	1859	NA
241	7610812.012	320802.652	1859	NA
242	7610818.448	320791.927	1859	NA
243	7610822.348	320786.856	1859	NA
244	7610827.808	320783.736	1859	NA
245	7610834.048	320781.396	1859	NA
246	7610858.034	320773.791	1859	NA
247	7610863.885	320770.476	1859	NA
248	7610868.76	320766.381	1859	NA
249	7610870.32	320763.846	1859	NA
250	7610871.49	320761.115	1859	NA
251	7610872.075	320754.68	1859	NA

252	7610870.32	320741.615	1859	NA
253	7610868.175	320735.764	1859	NA
254	7610886.115	320718.214	1859	NA
255	7610889.236	320718.994	1859	NA
256	7610892.161	320718.799	1859	NA
257	7610897.426	320715.094	1859	NA
258	7611012.676	320630.07	1859	NA
259	7611013.651	320627.145	1859	NA
260	7611013.651	320623.83	1859	NA
261	7611012.676	320620.71	1859	NA
262	7611011.115	320617.785	1859	NA
263	7611008.775	320615.64	1859	NA
264	7611006.045	320614.08	1859	NA
265	7610999.805	320612.91	1859	NA
266	7610993.37	320613.885	1859	NA
267	7610975.039	320618.76	1859	NA
268	7610962.363	320618.565	1859	NA
269	7610937.012	320615.445	1859	NA
270	7610898.401	320619.15	1859	NA
271	7610892.551	320621.1	1859	NA
272	7610887.48	320624.415	1859	NA
273	7610883.775	320629.29	1859	NA
274	7610880.655	320635.14	1859	NA
275	7610869.93	320665.952	1859	NA
276	7610867.005	320671.412	1859	NA
277	7610864.86	320673.557	1859	NA
278	7610862.129	320674.922	1859	NA
279	7610855.694	320676.482	1859	NA
280	7610849.259	320677.067	1859	NA
281	7610843.019	320676.482	1859	NA
282	7610837.168	320674.142	1859	NA
283	7610825.858	320668.097	1859	NA
284	7610819.618	320666.927	1859	NA
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693	7610680.382	321076.638	1862	NA
694	7610685.452	321112.129	1862	NA
695	7610684.672	321125.39	1862	NA
696	7610685.452	321129.68	1862	NA
697	7610687.012	321133.97	1862	NA
698	7610694.618	321144.891	1862	NA
699	7610701.248	321151.131	1862	NA
700	7610703.003	321154.836	1862	NA
701	7610703.003	321168.682	1862	NA
702	7610703.978	321172.972	1862	NA
703	7610705.733	321177.067	1862	NA
704	7610710.413	321184.672	1862	NA
705	7610716.654	321191.108	1862	NA
706	7610718.994	321194.813	1862	NA
707	7610720.749	321198.908	1862	NA
708	7610720.19	321206.522	1862	NA
709	7610708.637	321224.128	1862	NA
710	7610706.2	321234.873	1862	NA
711	7610697.987	321264.217	1862	NA
712	7610691.91	321283.713	1862	NA
713	7610687.345	321294.617	1862	NA
714	7610683.165	321302.918	1862	NA
715	7610677.273	321311.824	1862	NA
716	7610675.247	321313.517	1862	NA
717	7610663.113	321323.278	1862	NA
718	7610648.166	321336.541	1862	NA
719	7610662.246	321354.524	1863	NA
720	7610669.295	321349.033	1863	NA
721	7610677.399	321343.712	1863	NA
722	7610699.493	321329.563	1863	NA
723	7610708.268	321326.638	1863	NA
724	7610712.168	321324.883	1863	NA

725	7610718.214	321318.058	1863	NA
726	7610726.209	321314.353	1863	NA
727	7610728.939	321310.842	1863	NA
728	7610730.499	321306.357	1863	NA
729	7610731.279	321301.677	1863	NA
730	7610730.889	321283.931	1863	NA
731	7610731.669	321274.961	1863	NA
732	7610733.034	321270.476	1863	NA
733	7610735.959	321266.966	1863	NA
734	7610737.91	321265.796	1863	NA
735	7610740.055	321265.601	1863	NA
736	7610817.473	321341.654	1863	NA
737	7610820.593	321344.774	1863	NA
738	7610822.543	321348.674	1863	NA
739	7610832.488	321374.025	1863	NA
740	7610835.413	321377.535	1863	NA
741	7610839.704	321379.29	1863	NA
742	7610841.654	321378.9	1863	NA
743	7610847.699	321375.585	1863	NA
744	7610852.379	321375.585	1863	NA
745	7610856.279	321378.12	1863	NA
746	7610858.619	321381.825	1863	NA
747	7610859.789	321386.31	1863	NA
748	7610860.179	321395.476	1863	NA
749	7610860.959	321399.766	1863	NA
750	7610866.615	321406.786	1863	NA
751	7610869.345	321410.881	1863	NA
752	7610881.63	321373.05	1863	NA
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754	7610888.261	321371.295	1863	NA
755	7610931.162	321314.548	1863	NA
756	7610927.262	321311.622	1863	NA
757	7610922.972	321311.037	1863	NA
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761	7610898.401	321318.253	1863	NA
762	7610894.306	321319.618	1863	NA
763	7610886.115	321324.103	1863	NA
764	7610881.825	321324.298	1863	NA
765	7610877.34	321323.128	1863	NA
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769	7610998.05	321257.41	1863	NA
770	7610993.955	321255.265	1863	NA
771	7610989.665	321254.095	1863	NA
772	7610980.499	321253.12	1863	NA
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777	7610942.668	321249.805	1863	NA
778	7610938.963	321246.88	1863	NA
779	7610934.867	321245.515	1863	NA
780	7610930.577	321245.125	1863	NA
781	7610917.122	321247.27	1863	NA
782	7610912.441	321247.27	1863	NA
783	7610910.101	321246.685	1863	NA
784	7610908.541	321245.515	1863	NA
785	7610906.591	321241.225	1863	NA
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787	7610907.956	321231.669	1863	NA
788	7610918.292	321216.849	1863	NA
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790	7611141.186	321063.183	1863	NA
791	7611143.916	321059.477	1863	NA
792	7611148.011	321051.482	1863	NA
793	7611166.342	321000.78	1863	NA
794	7611167.512	320992.005	1863	NA
795	7611165.172	320956.123	1863	NA
796	7611163.417	320947.153	1863	NA
797	7611153.276	320922.192	1863	NA
798	7611150.546	320913.612	1863	NA
799	7611148.986	320904.641	1863	NA
800	7611147.816	320859.789	1863	NA
801	7611151.716	320833.268	1863	NA
802	7611152.496	320797.192	1863	NA
803	7611160.686	320762.285	1863	NA
804	7611161.661	320753.315	1863	NA
805	7611160.686	320744.15	1863	NA
806	7611159.321	320739.86	1863	NA
807	7611157.371	320735.959	1863	NA
808	7611152.496	320728.354	1863	NA
809	7611149.376	320719.969	1863	NA
810	7611144.891	320693.253	1863	NA

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812	7611150.936	320648.596	1863	NA
813	7611166.342	320606.279	1863	NA
814	7611175.702	320571.568	1863	NA
815	7611190.328	320539.002	1863	NA
816	7611197.348	320512.871	1863	NA
817	7611197.738	320508.19	1863	NA
818	7611197.543	320503.9	1863	NA
819	7611196.178	320499.415	1863	NA
820	7611192.083	320491.615	1863	NA
821	7611191.303	320487.129	1863	NA
822	7611192.278	320482.449	1863	NA
823	7611194.228	320478.549	1863	NA
824	7611205.343	320464.509	1863	NA
825	7611208.268	320455.928	1863	NA
826	7611210.023	320447.153	1863	NA
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828	7611218.214	320431.357	1863	NA
829	7611230.694	320418.097	1863	NA
830	7611234.399	320415.757	1863	NA
831	7611238.69	320414.392	1863	NA
832	7611127.73	320027.106	1863	NA
833	7611119.15	320031.201	1863	NA
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837	7611106.084	320026.716	1863	NA
838	7611105.694	320024.571	1863	NA
839	7611107.254	320015.601	1863	NA
840	7611115.64	319989.275	1863	NA
841	7611116.225	319984.789	1863	NA
842	7611115.445	319980.499	1863	NA
843	7611112.715	319977.184	1863	NA
844	7611109.009	319974.454	1863	NA
845	7611085.803	319960.608	1863	NA
846	7611081.513	319959.633	1863	NA
847	7611077.028	319959.633	1863	NA
848	7611067.863	319960.608	1863	NA
849	7611063.573	319960.218	1863	NA
850	7611059.477	319958.658	1863	NA
851	7611037.832	319942.278	1863	NA
852	7611033.541	319940.328	1863	NA
853	7611029.251	319939.158	1863	NA

854	7611024.961	319939.548	1863	NA
855	7611021.061	319941.108	1863	NA
856	7611005.265	319951.248	1863	NA
857	7610996.88	319954.563	1863	NA
858	7610988.105	319956.123	1863	NA
859	7610979.134	319955.928	1863	NA
860	7610970.359	319953.588	1863	NA
861	7610962.559	319948.908	1863	NA
862	7610956.123	319942.863	1863	NA
863	7610945.203	319928.432	1863	NA
864	7610932.137	319904.836	1863	NA
865	7610930.382	319896.061	1863	NA
866	7610928.822	319891.771	1863	NA
867	7610926.482	319887.871	1863	NA
868	7610925.312	319883.775	1863	NA
869	7610925.897	319879.095	1863	NA
870	7610925.312	319874.805	1863	NA
871	7610923.167	319870.905	1863	NA
872	7610891.966	319914.002	1863	NA
873	7610891.771	319918.487	1863	NA
874	7610851.599	320095.554	1863	NA
875	7610851.794	320100.039	1863	NA
876	7610856.864	320112.715	1863	NA
877	7610856.864	320117.395	1863	NA
878	7610855.889	320119.345	1863	NA
879	7610854.524	320120.905	1863	NA
880	7610850.039	320122.465	1863	NA
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886	7610819.423	320124.025	1863	NA
887	7610817.278	320127.535	1863	NA
888	7610817.278	320131.825	1863	NA
889	7610820.593	320141.186	1863	NA
890	7610828.978	320156.786	1863	NA
891	7610839.704	320171.217	1863	NA
892	7610852.184	320184.282	1863	NA
893	7610856.474	320192.083	1863	NA
894	7610859.399	320200.468	1863	NA
895	7610868.565	320235.374	1863	NA
896	7610869.345	320244.345	1863	NA

897	7610868.76	320253.315	1863	NA
898	7610858.424	320287.637	1863	NA
899	7610847.894	320312.402	1863	NA
900	7610845.749	320330.148	1863	NA
901	7610843.604	320338.924	1863	NA
902	7610836.583	320355.694	1863	NA
903	7610834.243	320364.275	1863	NA
904	7610827.808	320381.045	1863	NA
905	7610827.028	320389.821	1863	NA
906	7610829.173	320425.897	1863	NA
907	7610828.198	320434.867	1863	NA
908	7610826.833	320439.158	1863	NA
909	7610824.688	320442.863	1863	NA
910	7610805.967	320462.754	1863	NA
911	7610800.897	320470.164	1863	NA
912	7610803.822	320582.098	1863	NA
913	7610795.437	320598.089	1863	NA
914	7610792.512	320601.404	1863	NA
915	7610788.807	320604.134	1863	NA
916	7610776.131	320609.594	1863	NA
917	7610773.011	320612.52	1863	NA
918	7610767.551	320619.735	1863	NA
919	7610764.041	320622.465	1863	NA
920	7610751.755	320628.705	1863	NA
921	7610748.245	320631.63	1863	NA
922	7610746.685	320635.53	1863	NA
923	7610746.49	320640.016	1863	NA
924	7610745.515	320644.696	1863	NA
925	7610743.175	320648.206	1863	NA
926	7610739.275	320650.936	1863	NA
927	7610731.084	320654.446	1863	NA
928	7610727.769	320657.956	1863	NA
929	7610725.819	320661.856	1863	NA
930	7610723.089	320670.632	1863	NA
931	7610719.774	320688.378	1863	NA
932	7610712.168	320704.563	1863	NA
933	7610709.243	320712.949	1863	NA
934	7610708.853	320730.889	1863	NA
935	7610705.928	320739.665	1863	NA
936	7610705.733	320743.955	1863	NA
937	7610707.683	320752.925	1863	NA
938	7610706.708	320757.41	1863	NA
939	7610704.758	320761.505	1863	NA

940	7610701.833	320765.016	1863	NA
941	7610694.228	320770.281	1863	NA
942	7610691.303	320773.401	1863	NA
943	7610689.158	320777.301	1863	NA
944	7610682.722	320794.072	1863	NA
945	7610680.382	320802.652	1863	NA
946	7610679.602	320811.817	1863	NA
947	7610680.382	320829.758	1863	NA
948	7610679.602	320838.534	1863	NA
949	7610676.287	320846.919	1863	NA
950	7610670.827	320853.939	1863	NA
951	7610656.006	320864.665	1863	NA
952	7610649.376	320870.515	1863	NA
953	7610646.841	320874.22	1863	NA
954	7610645.086	320878.51	1863	NA
955	7610643.916	320882.995	1863	NA
956	7610643.526	320887.48	1863	NA
957	7610644.111	320891.966	1863	NA
958	7610647.426	320900.351	1863	NA
959	7610653.276	320931.357	1863	NA
960	7610655.226	320935.257	1863	NA
961	7610660.101	320942.863	1863	NA
962	7610661.661	320946.958	1863	NA
963	7610662.246	320951.443	1863	NA
964	7610662.246	320956.123	1863	NA
965	7610661.076	320964.899	1863	NA
966	7610660.881	320992.005	1863	NA
967	7610661.271	320996.49	1863	NA
968	7610663.222	321000.39	1863	NA
969	7610668.682	321007.8	1863	NA
970	7610677.368	321311.39	1863	NA
971	7610669.626	321317.345	1863	NA
972	7610658.194	321326.816	1863	NA
973	7610646.519	321337.842	1863	NA
974	7610621.88	321322.543	1884	NA
975	7610629.485	321312.793	1884	NA
976	7610647.231	321296.217	1884	NA
977	7610650.936	321291.342	1884	NA
978	7610653.666	321285.881	1884	NA
979	7610661.856	321262.676	1884	NA
980	7610663.612	321250.585	1884	NA
981	7610659.321	321214.314	1884	NA
982	7610659.516	321202.028	1884	NA

983	7610651.716	321154.056	1884	NA
984	7610638.651	321119.93	1884	NA
985	7610635.725	321114.47	1884	NA
986	7610625.195	321085.803	1884	NA
987	7610622.27	321073.908	1884	NA
988	7610619.93	321068.448	1884	NA
989	7610612.324	321058.697	1884	NA
990	7610609.399	321046.802	1884	NA
991	7610607.449	321044.657	1884	NA
992	7610601.989	321041.732	1884	NA
993	7610600.234	321039.197	1884	NA
994	7610598.284	321033.346	1884	NA
995	7610593.799	321009.36	1884	NA
996	7610591.849	321003.705	1884	NA
997	7610585.998	320992.98	1884	NA
998	7610574.688	320964.509	1884	NA
999	7610569.423	320940.913	1884	NA
1000	7610562.598	320923.947	1884	NA
1001	7610560.842	320918.097	1884	NA
1002	7610554.212	320907.761	1884	NA
1003	7610546.412	320891.186	1884	NA
1004	7610542.707	320886.31	1884	NA
1005	7610541.342	320883.58	1884	NA
1006	7610539.197	320874.805	1884	NA
1007	7610533.541	320863.69	1884	NA
1008	7610529.446	320859.594	1884	NA
1009	7610519.891	320851.989	1884	NA
1010	7610515.796	320847.309	1884	NA
1011	7610511.31	320843.409	1884	NA
1012	7610499.415	320839.704	1884	NA
1013	7610493.76	320837.168	1884	NA
1014	7610489.08	320833.463	1884	NA
1015	7610480.889	320824.298	1884	NA
1016	7610479.719	320821.373	1884	NA
1017	7610480.109	320818.253	1884	NA
1018	7610483.424	320813.378	1884	NA
1019	7610482.839	320810.257	1884	NA
1020	7610481.279	320807.722	1884	NA
1021	7610476.989	320803.237	1884	NA
1022	7610475.039	320800.702	1884	NA
1023	7610473.869	320797.972	1884	NA
1024	7610473.089	320795.047	1884	NA
1025	7610471.139	320792.707	1884	NA

1026	7610468.799	320790.757	1884	NA
1027	7610466.849	320788.417	1884	NA
1028	7610463.729	320783.151	1884	NA
1029	7610459.633	320778.666	1884	NA
1030	7610454.368	320775.546	1884	NA
1031	7610448.518	320773.401	1884	NA
1032	7610445.983	320771.646	1884	NA
1033	7610444.423	320769.111	1884	NA
1034	7610442.863	320763.066	1884	NA
1035	7610441.693	320760.335	1884	NA
1036	7610439.938	320757.8	1884	NA
1037	7610424.922	320731.279	1884	NA
1038	7610423.557	320725.234	1884	NA
1039	7610422.387	320722.504	1884	NA
1040	7610417.317	320718.994	1884	NA
1041	7610415.367	320716.654	1884	NA
1042	7610413.456	320710.803	1884	NA
1043	7610411.115	320709.048	1884	NA
1044	7610405.265	320707.098	1884	NA
1045	7610403.51	320704.563	1884	NA
1046	7610403.51	320701.443	1884	NA
1047	7610406.24	320692.668	1884	NA
1048	7610406.435	320680.577	1884	NA
1049	7610407.605	320677.847	1884	NA
1050	7610412.285	320673.752	1884	NA
1051	7610413.456	320671.022	1884	NA
1052	7610412.871	320667.902	1884	NA
1053	7610411.31	320665.367	1884	NA
1054	7610400	320650.741	1884	NA
1055	7610394.495	320646.015	1884	NA
1056	7610389.462	320637.255	1884	NA
1057	7610386.644	320625.877	1884	NA
1058	7610386.04	320610.672	1884	NA
1059	7610387.129	320599.844	1884	NA
1060	7610389.47	320592.434	1884	NA
1061	7610389.08	320564.743	1884	NA
1062	7610388.495	320560.647	1884	NA
1063	7610387.324	320559.282	1884	NA
1064	7610385.569	320558.502	1884	NA
1065	7610383.424	320558.307	1884	NA
1066	7610381.669	320558.892	1884	NA
1067	7610377.964	320560.647	1884	NA
1068	7610376.014	320561.037	1884	NA

COORDENADAS AJUSTADAS AL SIST. WGS-84

A continuacion e muestra una lista con los puntos ajustados al sistema actual de referencia WGS-84.

N°	NORTE	ESTE	ALTURA	DESCRIPCION
1	7610283.456	321193.739	1853	NA
2	7610297.509	321176.367	1853	NA
3	7610302.969	321171.102	1853	NA
4	7610312.135	321164.277	1853	NA
5	7610314.475	321161.352	1853	NA
6	7610317.985	321154.917	1853	NA
7	7610320.715	321151.992	1853	NA
8	7610321.495	321150.432	1853	NA
9	7610320.91	321148.482	1853	NA
10	7610319.74	321147.507	1853	NA
11	7610318.375	321148.482	1853	NA
12	7610311.55	321157.842	1853	NA
13	7610289.319	321178.122	1853	NA
14	7610280.544	321184.753	1853	NA
15	7610278.32	321187.533	1853	NA
16	7610284.829	321195.873	1854	NA
17	7610300.239	321180.853	1854	NA
18	7610314.085	321164.277	1854	NA
19	7610319.74	321155.307	1854	NA
20	7610325.785	321140.486	1854	NA
21	7610332.025	321131.516	1854	NA
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