

Supplementary Table S1. Representative chemical EPM analysis of secondary minerals in metabasalts from the Rocas Verdes ophiolites

Chlorite

Sample No	TNO715	TNO715	FO0335B	FO0335B	FO0335C	FO0335C	FO0335D	FO0335D	FO0626A	FO0626A
Ophiolitic Complex	Tortuga	Tortuga	Carlos III	Carlos III	Carlos III	Carlos III	Carlos III	Carlos III	Capitán Aracena	Capitán Aracena
Anal. No	#18	#22	#12	#13	#35	#36	#22	#30	#25	#28
SiO2	29.44	27.08	26.80	27.43	27.17	25.88	29.34	27.47	27.13	27.46
TiO2	0.01	0.03	0.02	0.00	0.08	0.06	0.05	0.01	0.00	0.03
Al2O3	17.66	20.17	18.56	17.93	18.91	19.07	17.86	18.79	20.10	19.15
Cr2O3	0.01	0.03	0.00	0.00	0.04	0.02	0.00	0.00	0.03	0.03
FeO	18.47	20.14	27.40	27.04	25.99	26.40	23.74	24.18	21.07	21.16
MnO	0.32	0.34	0.39	0.36	0.37	0.38	0.39	0.49	0.32	0.34
MgO	22.13	20.18	15.01	15.10	15.35	15.39	16.58	17.14	19.56	19.60
H2O	11.89	11.75	11.31	11.31	11.38	11.21	11.58	11.51	11.73	11.66
Total	99.93	99.71	99.49	99.17	99.28	98.40	99.54	99.58	99.93	99.43
Si	5.937	5.531	5.682	5.819	5.726	5.535	6.076	5.724	5.550	5.651
Al(IV)	2.063	2.469	2.318	2.181	2.274	2.465	1.924	2.276	2.450	2.349
Σ	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000
Al(VI)	2.134	2.385	2.319	2.301	2.423	2.341	2.433	2.340	2.396	2.296
Cr	0.001	0.004	0.000	0.000	0.006	0.003	0.000	0.000	0.004	0.005
Ti	0.002	0.005	0.003	0.000	0.013	0.009	0.008	0.001	0.000	0.005
Fe	3.116	3.439	4.859	4.798	4.580	4.723	4.110	4.214	3.605	3.641
Mn	0.054	0.059	0.070	0.064	0.066	0.070	0.068	0.086	0.056	0.059
Mg	6.654	6.143	4.745	4.776	4.822	4.906	5.118	5.326	5.965	6.013
Σ	11.962	12.035	11.997	11.939	11.910	12.052	11.738	11.967	12.025	12.019
H	16.000	16.000	16.000	16.000	16.000	16.000	16.000	16.000	16.000	16.000

Epidote

Sample No	TNO715	TNO715	FO0335B	FO0335B	FO0335C	FO0335C	FO0335D	FO0335D	FO0626A	FO0626A
Ophiolitic Complex	Tortuga	Tortuga	Carlos III	Carlos III	Carlos III	Carlos III	Carlos III	Carlos III	Capitán Aracena	Capitán Aracena
Anal. No	#10	#20	#1	#2	#47	#51	#4	#6	#20	#32
SiO2	37.15	36.90	37.37	37.62	37.55	36.83	37.84	37.78	37.99	37.62
TiO2	0.09	0.23	0.12	0.10	0.10	0.12	0.11	0.08	0.11	0.07
Al2O3	23.23	23.41	20.54	20.58	23.51	22.73	25.15	25.75	25.26	27.65
Cr2O3	0.03	0.03	0.00	0.00	0.05	0.00	0.00	0.00	0.05	0.02
Fe2O3	13.57	13.88	16.57	16.65	13.41	13.27	11.04	10.28	10.81	7.95
Mn2O3	0.23	0.06	0.08	0.08	0.00	0.20	0.09	0.05	0.08	0.11
MgO	0.00	0.02	0.02	0.01	0.03	0.06	0.00	0.02	0.22	0.02
CaO	23.61	23.33	24.00	23.86	24.10	23.03	24.09	24.28	23.71	23.57
H2O	1.88	1.87	1.87	1.87	1.89	1.85	1.90	1.91	1.91	1.90
Total	99.85	99.74	100.60	100.79	100.65	98.12	100.23	100.15	100.15	98.91
Si	2.968	2.951	2.999	3.010	2.973	2.989	2.980	2.972	2.988	2.964
Ti	0.005	0.014	0.007	0.006	0.006	0.008	0.007	0.005	0.006	0.004
Al	2.187	2.206	1.942	1.941	2.194	2.174	2.335	2.387	2.342	2.568
Cr	0.002	0.002	0.000	0.000	0.003	0.000	0.000	0.000	0.003	0.001
Fe3	0.816	0.835	1.000	1.003	0.799	0.811	0.654	0.609	0.640	0.471
Mn3	0.014	0.004	0.005	0.005	0.000	0.013	0.006	0.003	0.005	0.006
Ca	2.020	1.998	2.063	2.045	2.045	2.002	2.033	2.047	1.999	1.990
H	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Pistacite	27.17	27.47	34.00	34.06	26.69	27.16	21.89	20.32	21.46	15.51

Pumpellyite

Sample No	FO0626A	FO0626A
Ophiolitic Complex	Capitán Aracer	Capitán Aracena
Anal. No	#37	#38
SiO2	37.00	36.86
TiO2	0.03	0.05
Al2O3	26.03	25.31
Cr2O3	0.04	0.06
FeO	0.66	0.95
Fe2O3	2.91	3.13
MnO	0.07	0.13
MgO	3.29	3.22
CaO	23.54	23.30
H2O	1.89	1.87
Total	95.48	94.90
Si	5.882	5.910
Al(IV)	0.118	0.090
Σ	6.000	6.000
Ti	0.004	0.006
Al(VI)	4.758	4.692
Cr	0.005	0.008
Fe3	0.348	0.378
Σ	5.114	5.084
Fe2	0.088	0.127
Mn	0.009	0.018
Mg	0.779	0.769
Σ	0.876	0.914
Ca	4.009	4.002
H	2.000	2.000

Supplementary Table S2. Major and trace element whole rock compositions for different lithologies of the Capitán Aracena, Carlos III and Tortuga ophiolites

Sample No	FO0626	FO0657	FO0658	FO0335b	FO0336	FO0337	FO0653	FO0656	FO0659	FO0662
Geographic coordinates	54°19'08.2``S 71°01'07.2``W	54°11'15.1``S 71°32'59.5``W	54°11'06.8``S 71°32'52.2``W	53°36'23.5``S 72°17'39.3``W	53°39'08.7``S 72°15'16.6``W	53°40'11.2``S 72°18'00.3``W	54°11'31.8``S 71°33'59.8``W	54°11'15.1``S 71°32'59.5``W	54°11'06.8``S 71°32'52.2``W	54°13'09.1``S 71° 35'50.4``W
Age	Late Jurassic	Late Jurassic	Late Jurassic	Late Jurassic	Late Jurassic	Late Jurassic	Late Jurassic	Late Jurassic	Late Jurassic	Late Jurassic
Ophiolitic Complex	Capitán Aracena	Capitán Aracena	Capitán Aracena	Carlos III	Carlos III	Carlos III	Capitán Aracena	Capitán Aracena	Capitán Aracena	Capitán Aracena
Rock type	Volcanic	Volcanic	Volcanic	Volcanic	Volcanic	Volcanic	Dike	Dike	Dike	Metamorphic
Lithology	Pillow basalt	Basalt	Pillow basalt	Basalt	Basalt	Basalt	Basalt	Basalt	Basalt	Greenschist
Major oxides										
SiO ₂	47.7	50.71	51.5	52.95	50.5	50.2	47.02	49.2	52.38	46.88
TiO ₂	1.61	0.8	1.02	1.48	2.41	1.73	2.23	1.3	2.22	1.3
Al ₂ O ₃	16	15.4	14.2	14	13	14.1	14.6	15.5	12.5	15.2
Fe ₂ O ₃	2.53	2.2	3.13	2.15	4.23	2.11	4.58	2.1	3.86	3.35
FeO	7.72	8.52	8.88	9.16	10.28	11.48	11.08	8.68	12.76	7.84
MnO	0.14	0.2	0.21	0.19	0.25	0.22	0.23	0.17	0.22	0.21
MgO	6.85	6.61	6.47	5.43	3.72	5.78	5.78	7.92	3.55	8.38
CaO	9.78	8.43	7.59	6.81	7	5.04	6.28	8.16	5.44	7.45
Na ₂ O	3.86	5.09	5.01	3.99	3.85	4.21	4.69	4.23	4.63	3.17
K ₂ O	0.2	0.28	0.23	0.04	0.52	0.1	0.37	0.7	0.53	1.3
P ₂ O ₅	0.21	0.18	0.17	0.29	0.72	0.37	0.31	0.24	0.41	0.23
LOI	3.24	1.39	1.14	3.33	3.17	4.28	2.55	1.56	1.11	4.54
Total	99.84	99.81	99.55	99.82	99.65	99.62	99.72	99.76	99.61	99.85
Trace elements										
Sr	212	33	116	80	228	49	38	122	55	140
Y	31	16	22	33	65	27	46	27	85	33
Nb										
Zr	102	43	57	104	152	93	170	100	233	91
Ba	17	59	21	24	229	18	59	155	250	395
La	6.6	4.6	6.8	17	18	16	7.8	10	14	10
Ce	17	9.8	16	35	47	35	23	25	37	24
Nd	14	7.3	12	22	34	23	20	18	33	17
Sm	4.22	1.89	2.88	5.43	9.09	5.25	5.42	3.68	9.64	4.15
Eu	1.39	0.54	0.9	1.57	3.16	1.7	1.63	1.34	2.86	1.55
Gd	4.61	2.48	3.17	5.95	10.75	4.72	6.43	4.13	12.89	5.07
Dy	5.61	3.04	4.04	6.02	12.24	5.35	8.53	5.05	16.1	6.25
Ho	1.18	0.68	0.92	1.32	2.57	1.16	1.88	1.09	3.58	1.37
Er	3.36	1.88	2.55	3.87	7	3.18	4.96	2.76	10.62	4.14
Yb	3.38	1.89	2.51	3.83	6.98	3.17	5.01	2.84	10.6	4.05
Lu	0.51	0.3	0.4	0.59	1.07	0.5	0.74	0.45	1.58	0.64
Hf	3.8	2	2.7	5	5.2	4	4	3.1	7.6	3.8
Ta										
Sc	37	36	43	48	43	42	40	42	39	53
V	268	265	292	285	226	390	481	294	325	315
Co	35	25	32	29	26	25	36	33	34	31
Ni	181	71	86	15	26	9	17	106	17	143
Cu	135	12	<2	14	58	<2	4	51	36	31
Zn	84	82	129	136	134	138	118	92	159	98
Th										
Cr	269	140	164	16	28	5	22	193	14	258

Datum of geographic coordinates is WGS84.

Supplementary Table S3. SHRIMP U-Pb zircon data of Late Jurassic - Early Cretaceous rocks in the Rocas Verdes ophiolites and an associated plutonic rock

Grain spot	U (ppm)	Th (ppm)	Th/U	²⁰⁶ Pb*/ ²⁰⁶ Pb	²⁰⁴ Pb/ ²⁰⁶ Pb	f ₂₀₆ %	Total		Radiogenic		Age (Ma)			
							²³⁸ U/ ²⁰⁶ Pb	±	²⁰⁷ Pb/ ²⁰⁶ Pb	±	²⁰⁶ Pb/ ²³⁸ U	±		
Medium-grained gabbro (FO0671); 54°03'10.2"S - 71°41'31.2"W.														
1.1	361	137	0.38	7.5	0.001091	0.94	41.60	0.54	0.0566	0.0013	0.0238	0.0003	151.7	2.0
2.1*	908	516	0.57	19.8	0.000114	0.39	39.42	0.44	0.0524	0.0008	0.0253	0.0003	160.9	1.8
3.1	367	184	0.50	7.7	0.001500	0.78	41.24	0.53	0.0553	0.0013	0.0241	0.0003	153.3	2.0
4.1*	899	502	0.56	19.4	0.000429	0.13	39.78	0.45	0.0503	0.0008	0.0251	0.0003	159.8	1.8
5.1*	916	372	0.41	20.3	0.000597	0.29	38.85	0.45	0.0516	0.0008	0.0257	0.0003	163.4	1.9
6.1*	1995	1285	0.64	44.5	0.000217	0.09	38.55	0.41	0.0501	0.0005	0.0259	0.0003	164.9	1.7
7.1	437	151	0.35	9.2	0.001000	0.92	40.72	0.51	0.0565	0.0012	0.0243	0.0003	155.0	1.9
8.1*	961	426	0.44	21.4	0.000463	0.35	38.63	0.44	0.0521	0.0008	0.0258	0.0003	164.2	1.9
9.1*	1368	766	0.56	29.7	0.000236	0.24	39.64	0.43	0.0512	0.0006	0.0252	0.0003	160.2	1.7
10.1*	891	612	0.69	19.1	0.000638	0.16	40.07	0.45	0.0505	0.0008	0.0249	0.0003	158.6	1.8
11.1*	1092	496	0.45	23.8	0.000424	0.17	39.47	0.44	0.0506	0.0007	0.0253	0.0003	161.0	1.8
12.1	363	416	0.43	20.2	0.000103	0.27	40.90	0.46	0.0513	0.0011	0.0244	0.0003	155.3	1.7
13.1	147	46	0.31	3.2	0.001563	2.13	39.93	0.66	0.0661	0.0023	0.0245	0.0004	156.1	2.6
Coarse-grained leucogranite (FO0667); 54°04'03.7"S - 71°53'02.0"W.														
1.1	393	350	0.89	8.2	0.000422	0.08	41.35	0.52	0.0498	0.0011	0.0242	0.0003	153.9	1.9
2.1	1698	871	0.51	36.1	0.001254	0.68	40.36	0.44	0.0705	0.0047	0.0241	0.0003	153.6	1.9
3.1	2850	1012	0.36	59.3	0.000008	0.08	41.26	0.43	0.0498	0.0004	0.0242	0.0003	154.2	1.6
4.1	139	116	0.83	2.9	0.000367	0.32	41.47	0.65	0.0517	0.0019	0.0240	0.0004	153.1	2.4
5.1	747	334	0.45	15.6	0.000058	<0.01	41.15	0.46	0.0492	0.0008	0.0243	0.0003	154.8	1.7
6.1	2246	909	0.40	48.7	0.001496	2.64	39.64	0.41	0.0702	0.0006	0.0246	0.0003	156.4	1.6
7.1	367	150	0.41	7.7	0.000173	0.29	41.08	0.51	0.0515	0.0011	0.0243	0.0003	154.6	1.9
8.1	3157	1197	0.38	66.2	0.000019	<0.01	41.00	0.42	0.0488	0.0004	0.0244	0.0003	155.4	1.6
9.1	2984	2088	0.70	62.4	0.000056	<0.01	41.11	0.42	0.0492	0.0004	0.0243	0.0003	154.9	1.6
10.1	505	162	0.32	10.5	0.000175	0.09	41.22	0.49	0.0498	0.0010	0.0242	0.0003	154.4	1.8
11.1*	1397	641	0.46	29.9	0.003038	5.32	40.13	0.43	0.0914	0.0015	0.0236	0.0003	150.3	1.6
12.1	477	198	0.41	10.2	0.001095	2.27	40.16	0.48	0.0672	0.0011	0.0243	0.0003	155.0	1.8
Cherty layer overlying pillow basalts (FO0829); 54°58'49.9"S - 69°58'20.5"W.														
1.1	194	172	0.89	4	0.000481	0.90	45.41	0.72	0.0560	0.0019	0.0218	0.0003	139	2
2.1	671	53	0.08	25	0.000084	0.18	23.07	0.25	0.0532	0.0007	0.0433	0.0005	273	3
3.1	527	112	0.21	80	<0.01	5.682	0.076	0.0744	0.0011	0.1760	0.0024	0.0024	1045	13
4.1	1636	1062	0.65	32	0.000058	-0.08	44.07	0.47	0.0483	0.0006	0.0227	0.0002	145	2
5.1	3007	5559	1.85	47	-	<0.01	54.57	0.58	0.0481	0.0005	0.0183	0.0002	117	1
6.1	125	97	0.78	2	0.000827	0.66	46.73	0.79	0.0540	0.0023	0.0213	0.0004	136	2
7.1	39	53	1.36	1	0.000433	1.47	32.81	0.77	0.0616	0.0038	0.0300	0.0007	191	5
8.1	423	64	0.15	17	-	0.19	21.49	0.25	0.0537	0.0009	0.0464	0.0005	293	3
9.1	197	158	0.80	4	-	0.68	47.64	0.76	0.0541	0.0019	0.0208	0.0003	133	2
10.1	485	308	0.63	33	0.000064	0.19	12.65	0.14	0.0585	0.0007	0.0789	0.0009	489	5
11.1	338	141	0.42	6	0.000381	0.13	47.42	0.63	0.0498	0.0023	0.0211	0.0003	134	2
12.1	262	244	0.93	5	0.000208	0.64	46.40	0.64	0.0538	0.0016	0.0214	0.0003	137	2
13.1	243	155	0.64	19	-	0.17	11.07	0.15	0.0601	0.0008	0.0902	0.0013	557	7
14.1	233	165	0.71	4	-	0.03	46.26	0.66	0.0490	0.0016	0.0216	0.0003	138	2
15.1	304	226	0.74	11	0.000292	0.25	24.84	0.30	0.0533	0.0010	0.0402	0.0005	254	3
16.1	465	122	0.26	64	0.000025	0.04	6.282	0.087	0.0712	0.0005	0.1591	0.0022	952	12
17.1	244	134	0.55	19	-	<0.01	11.10	0.13	0.0576	0.0008	0.0902	0.0011	557	6
18.1	428	310	0.73	28	0.000046	0.21	13.17	0.15	0.0581	0.0007	0.0758	0.0009	471	5
19.1	471	61	0.13	46	0.000030	0.58	8.746	0.095	0.0673	0.0006	0.1137	0.0013	694	7
20.1	809	294	0.36	16	0.000310	0.43	44.36	0.72	0.0523	0.0009	0.0224	0.0004	143	2
21.1	292	51	0.17	41	0.000101	0.17	6.109	0.068	0.0827	0.0008	0.1634	0.0018	976	10
22.1	146	96	0.66	3	0.000399	0.36	44.33	0.74	0.0517	0.0020	0.0225	0.0004	143	2
23.1	280	134	0.48	5	0.000437	0.36	45.09	0.61	0.0517	0.0015	0.0221	0.0003	141	2
24.1	288	223	0.78	10	0.000101	<0.01	24.65	0.36	0.0507	0.0011	0.0406	0.0006	257	4

Notes: 1. Uncertainties given at the one σ level.
 2. Error in Temora reference zircon calibration was 0.60% for the analytical session.
 3. f₂₀₆ % denotes the percentage of ²⁰⁶Pb that is common Pb.
 4. Correction for common Pb for the U/Pb data has been made using the measured ²³⁸U/²⁰⁶Pb and ²⁰⁷Pb/²⁰⁶Pb ratios following Tera and Wasserburg (1972) as outlined in Williams (1998).

Notes: 1. Uncertainties given at the one σ level.
 2. Error in Temora reference zircon calibration was 0.48% for the analytical session.
 3. f₂₀₆ % denotes the percentage of ²⁰⁶Pb that is common Pb.
 4. Correction for common Pb for the U/Pb data has been made using the measured ²³⁸U/²⁰⁶Pb and ²⁰⁷Pb/²⁰⁶Pb ratios following Tera and Wasserburg (1972) as outlined in Williams (1998).

Notes: 1. Uncertainties given at the one σ level.
 2. Error in Temora reference zircon calibration was 0.59% for the analytical session.
 3. f₂₀₆ % denotes the percentage of ²⁰⁶Pb that is common Pb.
 4. For areas older than ~800 Ma correction for common Pb made using the measured ²⁰⁴Pb/²⁰⁶Pb ratio.
 5. For areas younger than ~800 Ma correction for common Pb made using the measured ²³⁸U/²⁰⁶Pb and ²⁰⁷Pb/²⁰⁶Pb ratios following Tera and Wasserburg (1972) as outlined in Williams (1998).
 6. For % Disc, 0% denotes a concordant analysis.

*: denotes analyses excluded in the age calculation.
 Datum of geographic coordinates is WGS84.

Supplementary Table S4a. SHRIMP U-Pb results for titanite in sheared silicic metatuffs from the metamorphic sole thrust of the Rocas Verdes ophiolites

area. spot	U (ppm)	Th (ppm)	Th/U	²⁰⁶ Pb* (ppm)	²⁰⁴ Pb/ ²⁰⁶ Pb	± 2σ error	f ₂₀₆ %	Radiogenic		Age (Ma)		
								²⁰⁶ Pb/ ²³⁸ U	± 2σ error	²⁰⁶ Pb/ ²³⁸ U	± 2σ error	
Phyllonite (FC0851); 51°31'14.4"S - 73°34'14.4"W												
9.1	220	45	0.20	7.2	0.023542	0.001312	43.5	0.0214	0.0008	136	5	
9.2	58	86	1.48	18.1	0.051589	0.001420	93.3	0.0241	0.0032	154	20	
9.3*	50	56	1.13	16.6	0.049068	0.001295	87.8	0.0473	0.0047	298	29	
15.1*	54	80	1.47	20.0	0.050365	0.001235	90.1	0.0422	0.0044	266	27	
18.1*	44	64	1.44	12.7	0.049859	0.001199	90.0	0.0335	0.0033	212	20	
25.1*	39	44	1.14	10.1	0.048304	0.001369	87.1	0.0388	0.0038	245	24	
26.1*	66	39	0.60	7.6	0.044377	0.001609	81.3	0.0254	0.0023	161	15	
27.1	61	69	1.14	16.3	0.051455	0.001503	93.5	0.0203	0.0028	130	18	
28.1	58	100	1.73	16.6	0.051824	0.001217	94.0	0.0200	0.0023	128	15	
29.1	199	70	0.35	8.8	0.030965	0.001576	57.1	0.0220	0.0011	140	7	
30.1	234	51	0.22	8.1	0.026442	0.001087	48.9	0.0206	0.0007	132	4	
31.1	79	47	0.60	5.9	0.041181	0.001666	75.8	0.0211	0.0017	135	11	

Notes:
 1. Uncertainties given at the one s level.
 2. Error in BLR-1 reference sphene U-Pb calibration was 0.88% for the analytical session. (not included in above errors but required when comparing data from different mounts).
 3. f₂₀₆ % denotes the percentage of ²⁰⁶Pb that is common Pb.
 4. Correction for common Pb has been made using the measured ²⁰⁴Pb/²⁰⁶Pb ratios
 5. Common-Pb plane intercepts at:
²⁰⁶Pb/²⁰⁴Pb = 18.68 ±0.33
²⁰⁷Pb/²⁰⁴Pb = 15.71 ±0.28
²⁰⁷Pb/²⁰⁶Pb = 0.84101
 error correl. = +0.9548
 Stacey-Kramers Age = 183 Ma
 Stacey-Kramers Mu = 10.09

*: denotes analyses excluded in the age calculation.
 Datum of geographic coordinates is WGS84.

Supplementary Table S4b. LA-MC-ICP-MS U-Pb results for titanite in pillowed metabasalts from the Tortuga Complex

area. spot	Spot size um	206Pb cps measured	²⁰⁶ Pb/ ²³⁸ U	± 2σ error	²⁰⁷ Pb/ ²⁰⁶ Pb	± 2σ error	f ₂₀₆ %	Radiogenic		Age (Ma)		
								²⁰⁶ Pb/ ²³⁸ U	± 2σ error	²⁰⁶ Pb/ ²³⁸ U	± 2σ error	
Metabasalt (TN0715A2); 55°13'17.4"S - 68°00'34.4"W												
1A	40	30597	0.1124	0.0052	0.7083	0.0095	17.6	0.01975	0.00091	126.1	5.8	
1B-1	40	26366	0.1182	0.0049	0.7130	0.0087	17.0	0.02008	0.00084	128.2	5.3	
1B-2	40	18704	0.0787	0.0025	0.6575	0.0081	23.9	0.01882	0.00059	120.2	3.8	
2A	40	20523	0.1056	0.0049	0.7134	0.0102	16.9	0.01789	0.00084	114.3	5.3	
2B	40	18001	0.1055	0.0045	0.7170	0.0101	16.5	0.01740	0.00075	111.2	4.8	
3-1	40	12286	0.1955	0.0125	0.7708	0.0092	9.8	0.01910	0.00122	122.0	7.8	
3-2	40	10134	0.1454	0.0064	0.7475	0.0102	12.7	0.01842	0.00081	117.7	5.2	
3-3	40	12486	0.1845	0.0069	0.7640	0.0090	10.6	0.01959	0.00073	125.1	4.7	
4-1	40	36893	0.2113	0.0098	0.7837	0.0085	8.2	0.01724	0.00080	110.2	5.1	
4-2	40	30367	0.1963	0.0087	0.7778	0.0091	8.9	0.01746	0.00078	111.6	5.0	
5-1	40	24018	0.0773	0.0027	0.6696	0.0084	22.4	0.01732	0.00060	110.7	3.8	
5-2	40	17793	0.0850	0.0028	0.6741	0.0078	21.8	0.01856	0.00061	118.5	3.9	
5-3	40	26113	0.1307	0.0048	0.7278	0.0085	15.1	0.01979	0.00073	126.3	4.7	
6-1	40	11865	0.1181	0.0043	0.7271	0.0088	15.2	0.01797	0.00065	114.8	4.2	
6-2	40	10440	0.1107	0.0065	0.6992	0.0090	18.7	0.02071	0.00122	132.1	7.8	
6-3	40	11096	0.1225	0.0085	0.7232	0.0085	15.7	0.01924	0.00134	122.9	8.5	

Datum of geographic coordinates is WGS84.