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Density information used to construct models A-A' and B-B' is presented in two tables. Densities are reported to the nearest 10 kg/m^3. Along profile A-A', density measurements on hand samples within 6 km of the profile average 2730 ± 100 kg/m^3 for the western Peninsular Ranges (WPR), 2680 ± 50 kg/m^3 for the eastern Peninsular Ranges (EPR), and 2640 ± 80 kg/m^3 for the Little San Bernardino Mountains. The WPR densities vary more than do the EPR densities (Figure **DR** 1), reflecting the greater heterogeneity of rock types in the WPR than those in the EPR. To help choose a representative density, we used the velocity structure of Hauksson (2000) to guide us. Velocities in the upper 20 km of the WPR range from 6.2 to 6.6 km/s, in contrast with velocities of 5.8 to 6.3 km/s for the EPR and Little San Bernardino Mountains. Using the density-velocity relationship of Christensen and Mooney (1995) for crystalline rocks at 10 km depth, where ψ is density and V_p is compressional velocity,

$$\psi = 540.6 + 360.1V_p$$

WPR densities range from 2770 to 2917 kg/m^3 and EPR densities range from 2629 to 2809 kg/m^3. Note a comparison of density and velocity measured on two tonalite samples from the Sierra Nevada, sugggests that this relationship may overestimate slightly the density for a given velocity (Fliedner et al., 2000, *their* table 1). This is also apparent for granite-granodioritic rocks at 20 km depth from figure 16 of Christensen and Mooney (1995). Thus we chose densities of 2820 and 2680 kg/m^3 for WPR and EPR rocks along profile A-A'.

For the lower crust, velocities are poorly constrained, but probably range from about 6.6 to 6.8 km/s (Hauksson, 2000). Using the density-velocity relationship of Christensen and Mooney (1995) for crystalline rocks at 30 km depth, where ψ is density and V_p is compressional velocity,

$$\psi = 381.2 + 388V_p$$

densities range from 2942 to 3020 kg/m^3; we chose a density of 3000 kg/m^3 for the lower crust for the model along profile A-A'. For mantle velocities, we examined the tomographic results of Hadley and Kanamori (1977). In general the velocities are about 7.8 km/s, giving rise to a density of 3306 kg/m^3 using the density-velocity relationship of Christensen and Mooney (1995) for crystalline rocks at 40 km:

$$\psi = 5212 - 14863/V_p$$

Along profile B-B', density measurements within 6 km of the profile average 2810 ± 40 kg/m^3 for the Lakeview pluton and WPR rocks and 2680 ± 80 kg/m^3 for rocks of the San Jacinto block. Because of the relatively few and scattered values from the EPR (Figure **DR** 2), we used the Lakeview pluton average density as the reference density.

Table DR 1. Densities of rocks collected within 6 km of profile A-A'.

Rock ID	Longitude (decimal degrees)	Latitude	Density (kg/m^3)	Rock Type
Western Peninsular Ranges				
86JBB001	-117.0428	33.2212	2630	MONZONITE
86JBB002	-117.0367	33.2255	2640	MONZONITE
86JBB004	-117.0312	33.2288	2590	MONZONITE
86JBB003	-117.0305	33.2310	2810	QUARTZ DIORITE
86JBB005	-117.0232	33.2373	2870	DIORITE
86JBB006	-116.9968	33.2518	2880	DIORITE
86JBB007	-116.9922	33.2573	2810	TONALITE
86JBB008	-116.9853	33.2622	2820	TONALITE
86JBB009	-116.9803	33.2665	2770	TONALITE
86JBB011	-116.9687	33.2777	2760	TONALITE
86JBB010	-116.9597	33.2812	2740	QUARTZ DIORITE
86JBB012	-116.9525	33.2850	2720	TONALITE
86JBB013	-116.9473	33.2913	2670	QUARTZ DIORITE
86JBB014	-116.9370	33.2913	2840	TONALITE
86JBB015	-116.9287	33.3038	2780	TONALITE
86JBB016	-116.9202	33.3092	2670	GNEISS
86JBB017	-116.9012	33.3248	2680	GNEISS
86JBB018	-116.8962	33.3292	2770	QUARTZ DIORITE
86JBB024	-116.8785	33.3418	2630	TONALITE
86JJJ024	-116.9162	33.3932	2610	TONALITE
86JBB023	-116.8700	33.3482	2700	QUARTZ DIORITE
86JBB021	-116.8627	33.3535	2680	MONZONITE
86JBB020	-116.8578	33.3575	2940	DIORITE
86JBB019	-116.8495	33.3635	2700	MONZONITE
86JJJ026	-116.9085	33.4263	2700	GNEISS
86JJJ014	-116.8355	33.3633	2620	TONALITE
86JJJ015	-116.8257	33.3625	2670	TONALITE
86JJJ016	-116.8157	33.3575	2870	DIORITE
86JJJ013	-116.8295	33.3783	2720	TONALITE
86JJJ010	-116.8523	33.4012	2610	TONALITE
86JJJ011	-116.8423	33.3942	2660	GNEISS
86JJJ012	-116.8320	33.3912	2960	DIORITE
86JJJ009	-116.8443	33.4068	2600	MONZONITE
Eastern Peninsular Ranges				
86JBB034	-116.8057	33.3968	2670	TONALITE
86JBB033	-116.8005	33.4012	2630	MONZONITE
86JJJ006	-116.8223	33.4268	2640	TONALITE
86JBB032	-116.7892	33.4087	2630	MONZONITE
86JJJ007	-116.8050	33.4335	2620	TONALITE
86JBB031	-116.7815	33.4147	2670	MONZONITE
86JJJ035	-116.7622	33.3953	2630	TONALITE
86JBB030	-116.7723	33.4212	2660	TONALITE

86JJJ032	-116.7637	33.4223	2640	TONALITE
86JJJ034	-116.7513	33.4112	2690	GRANITIC
86JJJ030	-116.8027	33.4723	2670	TONALITE
86JDEN1	-116.7565	33.4355	2690	TONALITE
86JBB029	-116.7503	33.4397	2670	TONALITE
86JBB028	-116.7467	33.4407	2600	MONZONITE
86JBB027	-116.7390	33.4435	2740	TONALITE
86JBB026	-116.7372	33.4477	2700	GRANITIC
CERC063	-116.7232	33.4397	2650	METAMORPHIC?
86JBB025	-116.7322	33.4512	2660	MONZONITE
CERC062	-116.7400	33.4785	2690	GRANITIC
86JBB035	-116.7108	33.4663	2660	MONZONITE
86JBB036	-116.7062	33.4722	2610	MONZONITE
86JBB037	-116.7015	33.4778	2760	GRANITIC
86JBB038	-116.6850	33.4847	2730	TONALITE
86JBB039	-116.6760	33.4927	2570	SYENITE
86JBB045	-116.6665	33.4975	2670	TONALITE
87RCJ923	-116.7077	33.5515	2640	QUARTZ MONZONITE
87RCJ925	-116.7040	33.5580	2710	GRANODIORITE
87RCJ924	-116.7005	33.5572	2700	DIORITE DIKE
87RCJ917	-116.6652	33.5552	2670	QUARTZ MONZODIORITE
87RCJ916	-116.6655	33.5598	2770	QUARTZ DIORITE
87RCJ922	-116.6302	33.5400	2650	QUARTZ MONZODIORITE
86JBB040	-116.6218	33.5352	2690	MONZONITE
87RCJ921	-116.6228	33.5523	2680	QUARTZ MONZODIORITE
87RCJ920	-116.6123	33.5425	2760	TMDIORITE
87RCJ919	-116.6140	33.5490	2750	QUARTZ DIORITE
87RCJ915	-116.6258	33.5632	2720	DIORITIC GNEISS
87RCJ918	-116.6125	33.5515	2660	GRANODIORITE
87RCJ914	-116.6198	33.5603	2680	METAMORPHIC
87RCJ913	-116.6125	33.5572	2680	BNGNEISS
86JBB042	-116.5975	33.5493	2710	DIORITE
87RCJ912	-116.6025	33.5642	2640	BNGNEISS
87RCJ911	-116.6032	33.5673	2670	TMGRANODIORITE
87RCJ910	-116.6008	33.5680	2850	DIORITE
86JBB043	-116.5902	33.5577	2740	QUARTZ DIORITE
86JBB044	-116.5798	33.5633	2600	MONZONITE
87RCJ909	-116.5270	33.5680	2730	QUARTZ DIORITE
87RCJ908	-116.5225	33.5705	2730	QUARTZ DIORITE
87RCJ906	-116.5125	33.5687	2700	QUARTZ DIORITE
87RCJ907	-116.5140	33.5708	2710	QUARTZ DIORITE
87RCJ905	-116.5107	33.5680	2700	QUARTZ DIORITE
CERC061	-116.5158	33.5987	2690	GNEISS
CERC013	-116.4980	33.5877	2690	MARBLE
CERC060	-116.5368	33.6340	2620	GRANITIC
CERC060S	-116.5368	33.6340	2820	PLUTONIC

CERC054B	-116.5010	33.6547	2710	METAMORPHIC
CERC054A	-116.5010	33.6547	2740	LIMESTONE
CERC055	-116.4343	33.7152	2630	ADAMELLITE?
Little San Bernardino Mountains				
CERC038	-116.1847	33.8623	2610	GRANITIC
87RJT023	-116.1860	33.9272	2600	GRANITE
87RJT022	-116.1735	33.9362	2700	QUARTZ DIORITE
RPLSB021	-116.1582	33.9510	2750	QUARTZOSE GNEISS
RPHEX004	-116.0718	33.9270	2760	GARNET GRANULITE
RPHEX002	-116.0530	33.9240	2680	GARNET GRANULITE
87RJT019	-116.0662	33.9935	2590	MONZONITE
87RJT018	-116.0602	33.9973	2550	MONZONITE
87RJT015	-116.0130	33.9813	2540	MONZONITE

Table DR 2. Densities of rocks collected within 6 km of profile B-B'.

Rock ID	Longitude (decimal degrees)	Latitude	Density (kg/m^3)	Rock Type
92VEL019	-117.1620	33.7203	2700	METASEDIMENTARY
92VEL019	-117.1620	33.7203	2690	METASEDIMENTARY
92VEL019	-117.1620	33.7203	2710	GRANITIC
92VEL019	-117.1620	33.7203	2720	GRANITIC
92VEL019	-117.1620	33.7203	2680	GRANITIC
92VEL019	-117.1620	33.7203	2700	METASEDIMENTARY
92VEL019	-117.1620	33.7203	2680	METASEDIMENTARY
LVRS-5	-117.1305	33.7380	2670	GRANITIC
LVRS-6	-117.1287	33.7370	2700	PLUTONIC
LVD001	-117.0767	33.7412	2870	Lakeview Pluton (Morton et al., 1969)
LVD002	-117.0727	33.7453	2820	Lakeview Pluton (Morton et al., 1969)
LVD003	-117.0820	33.7448	2820	Lakeview Pluton (Morton et al., 1969)
LVD004	-117.0685	33.7490	2820	Lakeview Pluton (Morton et al., 1969)
LVD005	-117.0780	33.7487	2800	Lakeview Pluton (Morton et al., 1969)
LVD006	-117.0865	33.7483	2800	Lakeview Pluton (Morton et al., 1969)
LVD007	-117.0732	33.7528	2830	Lakeview Pluton (Morton et al., 1969)
LVD008	-117.0822	33.7525	2800	Lakeview Pluton (Morton et al., 1969)
LVD009	-117.0917	33.7517	2810	Lakeview Pluton (Morton et al., 1969)
LVD010	-117.0688	33.7570	2800	Lakeview Pluton (Morton et al., 1969)
LVD011	-117.0780	33.7563	2800	Lakeview Pluton (Morton et al., 1969)
LVD012	-117.0873	33.7560	2790	Lakeview Pluton (Morton et al., 1969)
LVD013	-117.0965	33.7555	2820	Lakeview Pluton (Morton et al., 1969)
LVD014	-117.1055	33.7553	2800	Lakeview Pluton (Morton et al., 1969)
LVD015	-117.1147	33.7548	2830	Lakeview Pluton (Morton et al., 1969)
LVD016	-117.0738	33.7602	2790	Lakeview Pluton (Morton et al., 1969)
LVD017	-117.0827	33.7600	2820	Lakeview Pluton (Morton et al., 1969)
LVD018	-117.0920	33.7597	2830	Lakeview Pluton (Morton et al., 1969)

LVD019	-117.1017	33.7593	2820	Lakeview Pluton (Morton et al., 1969)
LVD020	-117.1100	33.7590	2830	Lakeview Pluton (Morton et al., 1969)
LVD021	-117.1197	33.7587	2800	Lakeview Pluton (Morton et al., 1969)
LVD022	-117.1297	33.7587	2840	Lakeview Pluton (Morton et al., 1969)
LVD023	-117.1435	33.7617	2850	Lakeview Pluton (Morton et al., 1969)
LVD024	-117.1528	33.7617	2870	Lakeview Pluton (Morton et al., 1969)
LVD025	-117.0792	33.7640	2810	Lakeview Pluton (Morton et al., 1969)
LVD026	-117.0878	33.7638	2820	Lakeview Pluton (Morton et al., 1969)
LVD027	-117.0967	33.7633	2810	Lakeview Pluton (Morton et al., 1969)
LVD028	-117.1062	33.7628	2850	Lakeview Pluton (Morton et al., 1969)
LVD029	-117.1150	33.7628	2800	Lakeview Pluton (Morton et al., 1969)
LVD030	-117.1252	33.7628	2840	Lakeview Pluton (Morton et al., 1969)
LVD031	-117.1337	33.7622	2840	Lakeview Pluton (Morton et al., 1969)
LVD032	-117.1485	33.7652	2800	Lakeview Pluton (Morton et al., 1969)
LVD033	-117.1572	33.7648	2810	Lakeview Pluton (Morton et al., 1969)
LVD034	-117.0602	33.7652	2810	Lakeview Pluton (Morton et al., 1969)
LVD035	-117.0697	33.7647	2810	Lakeview Pluton (Morton et al., 1969)
LVD036	-117.0565	33.7688	2780	Lakeview Pluton (Morton et al., 1969)
LVD037	-117.0653	33.7688	2790	Lakeview Pluton (Morton et al., 1969)
LVD038	-117.0745	33.7683	2810	Lakeview Pluton (Morton et al., 1969)
LVD039	-117.0830	33.7678	2830	Lakeview Pluton (Morton et al., 1969)
LVD040	-117.0925	33.7675	2750	Lakeview Pluton (Morton et al., 1969)
LVD041	-117.1017	33.7672	2850	Lakeview Pluton (Morton et al., 1969)
LVD042	-117.1107	33.7668	2790	Lakeview Pluton (Morton et al., 1969)
LVD043	-117.1205	33.7667	2810	Lakeview Pluton (Morton et al., 1969)
LVD044	-117.1297	33.7663	2790	Lakeview Pluton (Morton et al., 1969)
LVD045	-117.1388	33.7658	2810	Lakeview Pluton (Morton et al., 1969)
LVD046	-117.1623	33.7682	2800	Lakeview Pluton (Morton et al., 1969)
LVD047	-117.1442	33.7692	2810	Lakeview Pluton (Morton et al., 1969)
LVD048	-117.1532	33.7688	2820	Lakeview Pluton (Morton et al., 1969)
LVD049	-117.0608	33.7728	2800	Lakeview Pluton (Morton et al., 1969)
LVD050	-117.0703	33.7723	2760	Lakeview Pluton (Morton et al., 1969)
LVD051	-117.0887	33.7718	2830	Lakeview Pluton (Morton et al., 1969)
LVD052	-117.0975	33.7713	2810	Lakeview Pluton (Morton et al., 1969)
LVD053	-117.1068	33.7710	2810	Lakeview Pluton (Morton et al., 1969)
LVD054	-117.1163	33.7710	2790	Lakeview Pluton (Morton et al., 1969)
LVD055	-117.1255	33.7703	2810	Lakeview Pluton (Morton et al., 1969)
LVD056	-117.1343	33.7695	2810	Lakeview Pluton (Morton et al., 1969)
LVD057	-117.0660	33.7762	2810	Lakeview Pluton (Morton et al., 1969)
LVD058	-117.0750	33.7760	2800	Lakeview Pluton (Morton et al., 1969)
LVD059	-117.0843	33.7757	2890	Lakeview Pluton (Morton et al., 1969)
LVD060	-117.1025	33.7750	2890	Lakeview Pluton (Morton et al., 1969)
LVD061	-117.1123	33.7747	2790	Lakeview Pluton (Morton et al., 1969)
LVD062	-117.1210	33.7742	2800	Lakeview Pluton (Morton et al., 1969)
LVD063	-117.1300	33.7738	2790	Lakeview Pluton (Morton et al., 1969)
LVD064	-117.1395	33.7735	2790	Lakeview Pluton (Morton et al., 1969)

LVD065	-117.1488	33.7732	2790	Lakeview Pluton (Morton et al., 1969)
LVD066	-117.0565	33.7767	2800	Lakeview Pluton (Morton et al., 1969)
LVD067	-117.0527	33.7810	2790	Lakeview Pluton (Morton et al., 1969)
LVD068	-117.0618	33.7805	2820	Lakeview Pluton (Morton et al., 1969)
LVD069	-117.0712	33.7803	2800	Lakeview Pluton (Morton et al., 1969)
LVD070	-117.0800	33.7797	2840	Lakeview Pluton (Morton et al., 1969)
LVD071	-117.0890	33.7790	2820	Lakeview Pluton (Morton et al., 1969)
LVD072	-117.0982	33.7790	2820	Lakeview Pluton (Morton et al., 1969)
LVD073	-117.1077	33.7787	2820	Lakeview Pluton (Morton et al., 1969)
LVD074	-117.1168	33.7782	2850	Lakeview Pluton (Morton et al., 1969)
LVD075	-117.1258	33.7780	2780	Lakeview Pluton (Morton et al., 1969)
LVD076	-117.1352	33.7775	2780	Lakeview Pluton (Morton et al., 1969)
LVD077	-117.1443	33.7772	2780	Lakeview Pluton (Morton et al., 1969)
LVD078	-117.1538	33.7765	2810	Lakeview Pluton (Morton et al., 1969)
LVD079	-117.0573	33.7845	2810	Lakeview Pluton (Morton et al., 1969)
LVD080	-117.0665	33.7840	2790	Lakeview Pluton (Morton et al., 1969)
LVD081	-117.0757	33.7837	2800	Lakeview Pluton (Morton et al., 1969)
LVD082	-117.0848	33.7835	2850	Lakeview Pluton (Morton et al., 1969)
LVD083	-117.0942	33.7828	2800	Lakeview Pluton (Morton et al., 1969)
LVD084	-117.1035	33.7827	2840	Lakeview Pluton (Morton et al., 1969)
LVD085	-117.1122	33.7825	2840	Lakeview Pluton (Morton et al., 1969)
LVD086	-117.1217	33.7820	2820	Lakeview Pluton (Morton et al., 1969)
LVD087	-117.1310	33.7813	2800	Lakeview Pluton (Morton et al., 1969)
LVD088	-117.1402	33.7813	2800	Lakeview Pluton (Morton et al., 1969)
LVD089	-117.1493	33.7807	2770	Lakeview Pluton (Morton et al., 1969)
LVD090	-117.0530	33.7885	2740	Lakeview Pluton (Morton et al., 1969)
LVD091	-117.0625	33.7882	2820	Lakeview Pluton (Morton et al., 1969)
LVD092	-117.0713	33.7877	2820	Lakeview Pluton (Morton et al., 1969)
LVD093	-117.0807	33.7875	2850	Lakeview Pluton (Morton et al., 1969)
LVD094	-117.0897	33.7870	2830	Lakeview Pluton (Morton et al., 1969)
LVD095	-117.0990	33.7867	2810	Lakeview Pluton (Morton et al., 1969)
LVD096	-117.1085	33.7863	2840	Lakeview Pluton (Morton et al., 1969)
LVD097	-117.1170	33.7860	2840	Lakeview Pluton (Morton et al., 1969)
LVD098	-117.1265	33.7857	2800	Lakeview Pluton (Morton et al., 1969)
LVD099	-117.1357	33.7855	2730	Lakeview Pluton (Morton et al., 1969)
LVD100	-117.1445	33.7850	2790	Lakeview Pluton (Morton et al., 1969)
LVD101	-117.0585	33.7923	2820	Lakeview Pluton (Morton et al., 1969)
LVD102	-117.0673	33.7917	2810	Lakeview Pluton (Morton et al., 1969)
LVD103	-117.0763	33.7913	2930	Lakeview Pluton (Morton et al., 1969)
LVD104	-117.0855	33.7910	2860	Lakeview Pluton (Morton et al., 1969)
LVD105	-117.0945	33.7905	2820	Lakeview Pluton (Morton et al., 1969)
LVD106	-117.1037	33.7903	2820	Lakeview Pluton (Morton et al., 1969)
LVD107	-117.1128	33.7898	2840	Lakeview Pluton (Morton et al., 1969)
LVD160	-117.1217	33.7897	2790	Lakeview Pluton (Morton et al., 1969)
LVD161	-117.1315	33.7892	2800	Lakeview Pluton (Morton et al., 1969)
LVD162	-117.1405	33.7888	2790	Lakeview Pluton (Morton et al., 1969)

LVD108	-117.1493	33.7892	2790	Lakeview Pluton (Morton et al., 1969)
LVD109	-117.0537	33.7963	2800	Lakeview Pluton (Morton et al., 1969)
LVD110	-117.0628	33.7957	2850	Lakeview Pluton (Morton et al., 1969)
LVD111	-117.0717	33.7955	2820	Lakeview Pluton (Morton et al., 1969)
LVD112	-117.0810	33.7948	2840	Lakeview Pluton (Morton et al., 1969)
LVD113	-117.0902	33.7945	2860	Lakeview Pluton (Morton et al., 1969)
LVD114	-117.0993	33.7943	2820	Lakeview Pluton (Morton et al., 1969)
LVD115	-117.1085	33.7937	2840	Lakeview Pluton (Morton et al., 1969)
LVD116	-117.1178	33.7937	2820	Lakeview Pluton (Morton et al., 1969)
LVD117	-117.1268	33.7937	2800	Lakeview Pluton (Morton et al., 1969)
LVD118	-117.1360	33.7932	2820	Lakeview Pluton (Morton et al., 1969)
LVD119	-117.1457	33.7928	2800	Lakeview Pluton (Morton et al., 1969)
LVD120	-117.0587	33.7998	2810	Lakeview Pluton (Morton et al., 1969)
LVD121	-117.0680	33.7993	2840	Lakeview Pluton (Morton et al., 1969)
LVD122	-117.0772	33.7993	2860	Lakeview Pluton (Morton et al., 1969)
LVD123	-117.0852	33.7985	2820	Lakeview Pluton (Morton et al., 1969)
LVD124	-117.0953	33.7983	2860	Lakeview Pluton (Morton et al., 1969)
LVD125	-117.1038	33.7980	2820	Lakeview Pluton (Morton et al., 1969)
LVD126	-117.1123	33.7970	2800	Lakeview Pluton (Morton et al., 1969)
LVD127	-117.1232	33.7972	2780	Lakeview Pluton (Morton et al., 1969)
LVD128	-117.1318	33.7973	2780	Lakeview Pluton (Morton et al., 1969)
LVD129	-117.1410	33.7968	2770	Lakeview Pluton (Morton et al., 1969)
LVD130	-117.0537	33.8040	2810	Lakeview Pluton (Morton et al., 1969)
LVD131	-117.0635	33.8035	2840	Lakeview Pluton (Morton et al., 1969)
LVD132	-117.0727	33.8033	2840	Lakeview Pluton (Morton et al., 1969)
LVD133	-117.0818	33.8032	2850	Lakeview Pluton (Morton et al., 1969)
LVD134	-117.1002	33.8022	2840	Lakeview Pluton (Morton et al., 1969)
LVD135	-117.1353	33.8002	2800	Lakeview Pluton (Morton et al., 1969)
LVD136	-117.0592	33.8077	2810	Lakeview Pluton (Morton et al., 1969)
LVD137	-117.0685	33.8073	2810	Lakeview Pluton (Morton et al., 1969)
LVD138	-117.0778	33.8068	2830	Lakeview Pluton (Morton et al., 1969)
LVD139	-117.0867	33.8065	2870	Lakeview Pluton (Morton et al., 1969)
LVD140	-117.0545	33.8115	2830	Lakeview Pluton (Morton et al., 1969)
LVD141	-117.0640	33.8112	2840	Lakeview Pluton (Morton et al., 1969)
LVD142	-117.0730	33.8108	2830	Lakeview Pluton (Morton et al., 1969)
LVD143	-117.0825	33.8105	2830	Lakeview Pluton (Morton et al., 1969)
LVD144	-117.0595	33.8155	2810	Lakeview Pluton (Morton et al., 1969)
LVD145	-117.0687	33.8150	2840	Lakeview Pluton (Morton et al., 1969)
LVD146	-117.0787	33.8145	2830	Lakeview Pluton (Morton et al., 1969)
LVD147	-117.0873	33.8140	2880	Lakeview Pluton (Morton et al., 1969)
LVD148	-117.0647	33.8190	2830	Lakeview Pluton (Morton et al., 1969)
LVD149	-117.0740	33.8187	2890	Lakeview Pluton (Morton et al., 1969)
LVD150	-117.0833	33.8182	2830	Lakeview Pluton (Morton et al., 1969)
LVD151	-117.0920	33.8180	2900	Lakeview Pluton (Morton et al., 1969)
LVD152	-117.0602	33.8230	2820	Lakeview Pluton (Morton et al., 1969)
LVD153	-117.0698	33.8228	2830	Lakeview Pluton (Morton et al., 1969)

LVD154	-117.0788	33.8223	2850	Lakeview Pluton (Morton et al., 1969)
LVD155	-117.0658	33.8267	2840	Lakeview Pluton (Morton et al., 1969)
LVD156	-117.0745	33.8267	2820	Lakeview Pluton (Morton et al., 1969)
LVD157	-117.0705	33.8302	2840	Lakeview Pluton (Morton et al., 1969)
LVD158	-117.0792	33.8300	2830	Lakeview Pluton (Morton et al., 1969)
LVD159	-117.0748	33.8342	2820	Lakeview Pluton (Morton et al., 1969)
92VEL017	-117.1465	33.7593	2970	GABBRO
92VEL017	-117.1465	33.7593	3010	GABBRO
PB0502	-117.1552	33.7722	2790	GRANITIC
LVRS-1	-117.0995	33.7323	2680	SCHIST
LVRS-2	-117.0833	33.7553	2770	GRANITIC
LVRS-3	-117.0928	33.7578	2770	GRANITIC
LVRS-4A	-117.0597	33.7520	2810	PLUTONIC
LVRS-4B	-117.0597	33.7520	2760	PLUTONIC
San Jacinto block				
R010	-117.0433	33.8698	2750	TONALITE
R010	-117.0433	33.8698	2860	TONALITE
02010	-117.0542	33.8960	2600	WEATHERED GRANITIC
SGP180	-117.0465	33.8913	2630	GRANITIC
R001	-117.0040	33.8683	2630	WEATHERED GRANITIC
SGP097	-116.9735	33.8723	2710	MARBLE
SGP097	-116.9735	33.8723	2620	GRANITIC
SGP097	-116.9735	33.8723	2630	QUARTZITE
SGP096	-116.9827	33.8793	2700	GRANITIC
SGP095	-116.9750	33.8912	2660	WEATHERED GRANITIC
SGP094	-116.9952	33.9083	2670	GRANITIC

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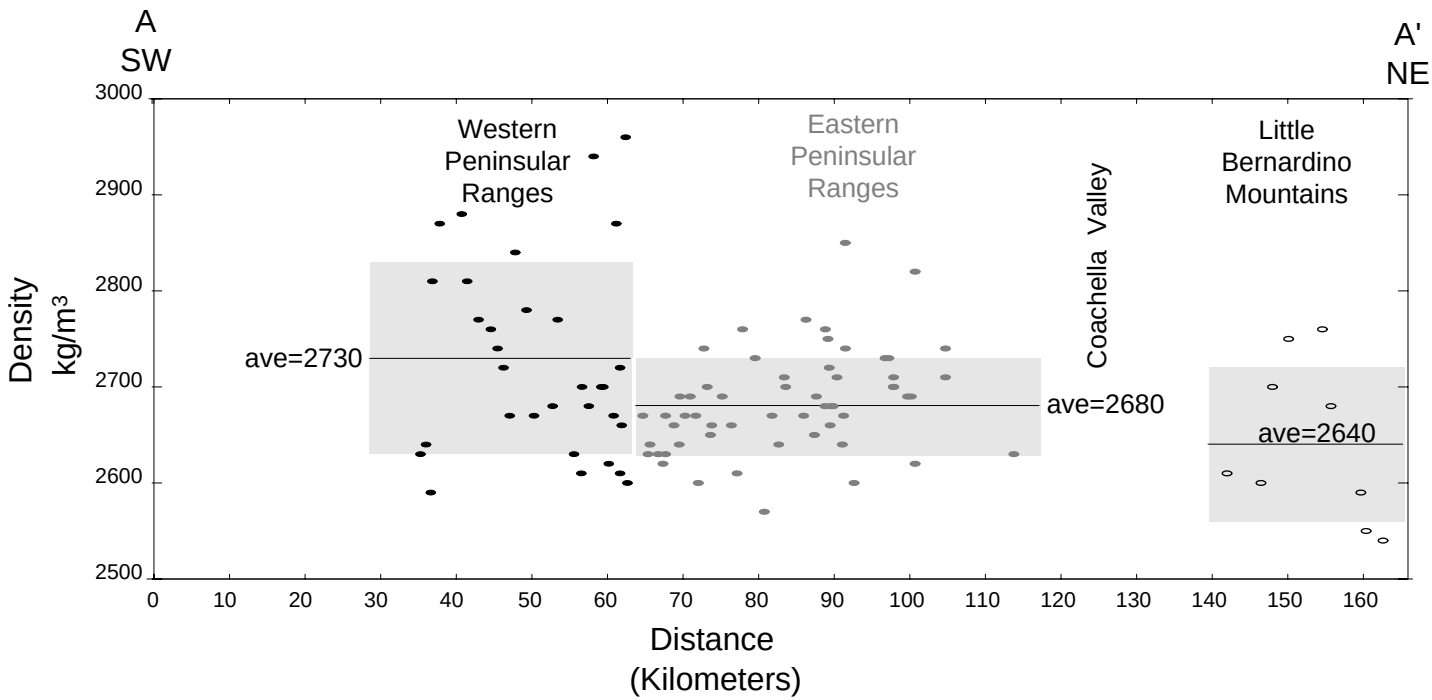
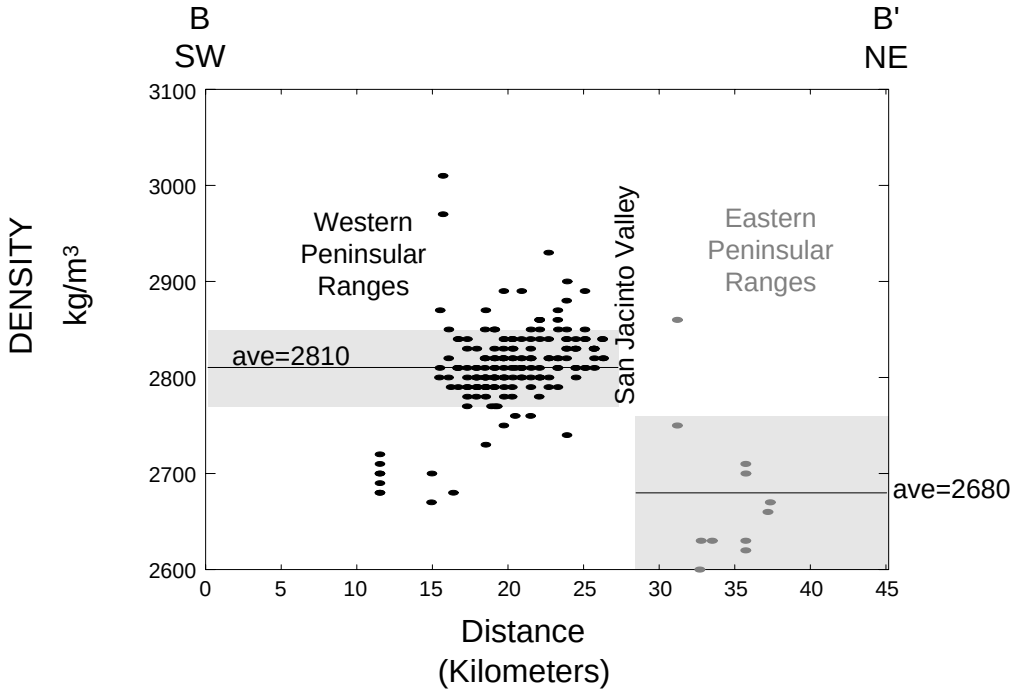


DR Figure 1. Densities within 6 km along profile A-A' (DR Table 1). Horizontal bars indicate average densities for each region; shaded regions show one standard deviation.



DR Figure 2. Densities within 6 km along profile B-B' (DR Table 2). Horizontal bars indicate average densities for each region; shaded regions show one standard deviation.