

# Title

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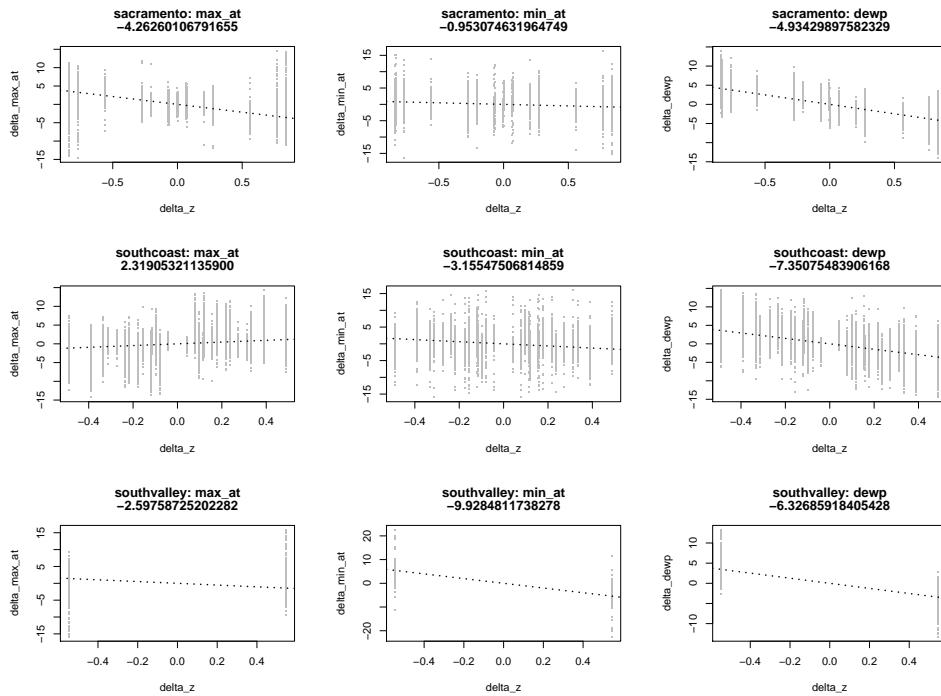


Fig. 1. Average lapse rates

Table 1  
Average monthly surface temperature lapse rate measurements [ $^{\circ}\text{C}/\text{km}$ ] for various California transects.

Month	South Coast			South Valley			Sacramento		
	$T_x$	$T_n$	$T_{dewp}$	$T_x$	$T_n$	$T_{dewp}$	$T_x$	$T_n$	$T_{dewp}$
Jan	-3.34	-3.81	-9.44	3.25	-7.29	-7.66	0.20	-1.93	-4.93
Feb	-3.13	-3.68	-10.22	-3.93	-7.50	-6.48	-4.50	-2.29	-5.62
Mar	0.46	-3.94	-7.58	-4.73	-10.39	-6.14	-5.54	-2.49	-5.49
Apr	-0.46	-3.97	-6.42	-4.67	-10.18	-5.59	-6.50	-2.84	-3.83
May	4.15	-3.09	-6.52	-3.79	-10.69	-5.65	-6.48	-2.43	-3.58
Jun	6.63	-5.31	-3.76	-3.63	-12.83	-5.09	-5.47	-1.27	-3.33
Jul	10.36	-2.38	-4.63	-2.91	-13.02	-6.46	-3.53	2.67	-4.94
Aug	9.99	-2.02	-6.04	-3.23	-12.51	-5.45	-3.09	2.38	-6.50
Sep	6.22	-0.80	-7.30	-3.17	-11.39	-5.39	-4.08	0.81	-6.97
Oct	1.56	-1.68	-5.74	-3.53	-8.34	-6.69	-4.68	-0.33	-5.27
Nov	-2.20	-3.64	-9.45	-0.94	-6.87	-8.38	-2.64	-0.55	-4.56
Dec	-3.05	-3.23	-11.06	1.62	-5.71	-8.43	-2.33	-1.74	-4.28

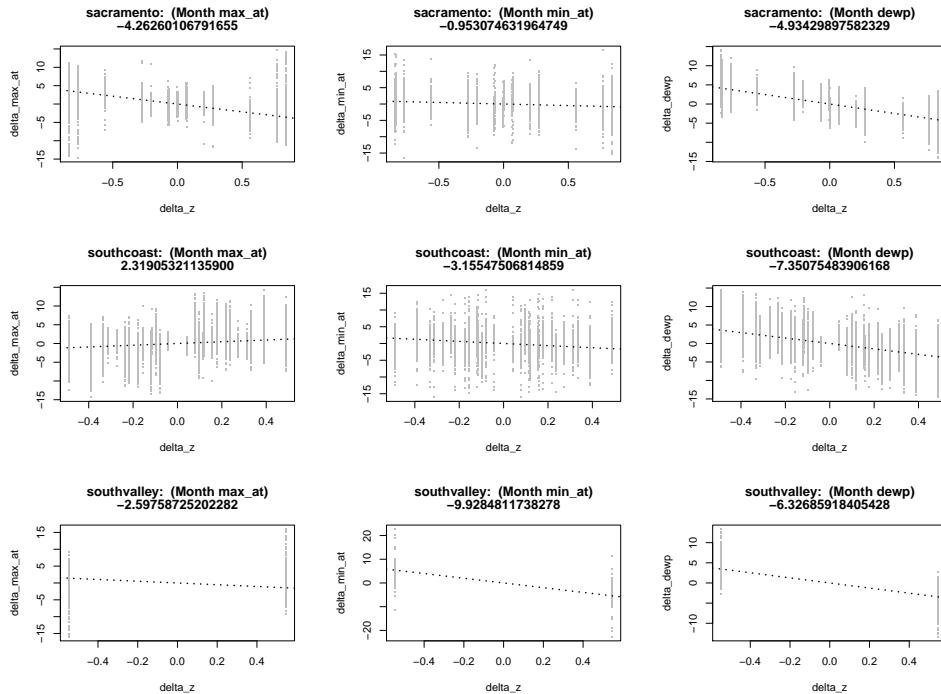


Fig. 2. Average lapse rates (Clear sky  $K > 0.85$ )

Table 2

Average monthly surface temperature lapse rate measurements [ $^{\circ}\text{C}/\text{km}$ ] for various California transects. Clear Skies only,  $K > 0.85$

Month	South Coast			South Valley			Sacramento		
	$T_x$	$T_n$	$T_{dewp}$	$T_x$	$T_n$	$T_{dewp}$	$T_x$	$T_n$	$T_{dewp}$
Jan	-3.34	-3.81	-9.44	3.25	-7.29	-7.66	0.20	-1.93	-4.93
Feb	-3.13	-3.68	-10.22	-3.93	-7.50	-6.48	-4.50	-2.29	-5.62
Mar	0.46	-3.94	-7.58	-4.73	-10.39	-6.14	-5.54	-2.49	-5.49
Apr	-0.46	-3.97	-6.42	-4.67	-10.18	-5.59	-6.50	-2.84	-3.83
May	4.15	-3.09	-6.52	-3.79	-10.69	-5.65	-6.48	-2.43	-3.58
Jun	6.63	-5.31	-3.76	-3.63	-12.83	-5.09	-5.47	-1.27	-3.33
Jul	10.36	-2.38	-4.63	-2.91	-13.02	-6.46	-3.53	2.67	-4.94
Aug	9.99	-2.02	-6.04	-3.23	-12.51	-5.45	-3.09	2.38	-6.50
Sep	6.22	-0.80	-7.30	-3.17	-11.39	-5.39	-4.08	0.81	-6.97
Oct	1.56	-1.68	-5.74	-3.53	-8.34	-6.69	-4.68	-0.33	-5.27
Nov	-2.20	-3.64	-9.45	-0.94	-6.87	-8.38	-2.64	-0.55	-4.56
Dec	-3.05	-3.23	-11.06	1.62	-5.71	-8.43	-2.33	-1.74	-4.28