

```
>> queryCRUST1
loading CRUST1.0 structure C1
Enter lat (or just return to quit) : 15.5
Enter lon (or just return to quit) : 16.5

Query CRUST1.0 at lat=15.500000 lon=16.500000
```

switch
lambda/mu!

```
CRUST1.0 CELL CENTERED AT CLAT = 15.5 CLON = 16.5
mean surface height: 0.290 km
-- LAYER TYPE ---
```

	Vp	Vs	rho	bottom	thick	mu	lambda	E	nu
	km/s	km/s	g/cm3	km	km	GPa	GPa	Gpa	
sediments 1	3.40	1.73	2.29	-0.21	0.50	12.765	6.854	18.167	0.325
sediments 2	4.80	2.74	2.50	-0.51	0.30	20.062	18.769	47.235	0.258
cryst. crust 1	6.20	3.54	2.72	-13.49	12.98	36.385	34.086	85.771	0.258
cryst. crust 2	6.50	3.74	2.82	-26.10	12.61	40.255	39.445	98.813	0.253
cryst. crust 3	7.10	4.05	3.00	-38.71	12.61	52.815	49.208	123.889	0.259
uppermost mantle	8.10	4.50	3.34			83.867	67.635	172.711	0.277

```
Enter lat (or just return to quit) : 1.1
Enter lon (or just return to quit) : -40.1
```

```
Query CRUST1.0 at lat=1.100000 lon=-40.100000
```

```
CRUST1.0 CELL CENTERED AT CLAT = 1.5 CLON = -40.5
mean surface height: 0.000 km
-- LAYER TYPE ---
```

	Vp	Vs	rho	bottom	thick	mu	lambda	E	nu
	km/s	km/s	g/cm3	km	km	GPa	GPa	Gpa	
water	1.50	0.00	1.02	-4.37	4.37	2.295	0.000	0.000	0.500
sediments 1	2.00	0.55	1.93	-5.37	1.00	6.552	0.584	1.704	0.459
cryst. crust 1	5.00	2.70	2.55	-6.06	0.69	26.571	18.590	48.116	0.294
cryst. crust 2	6.50	3.70	2.85	-7.59	1.53	42.380	39.017	98.347	0.260
cryst. crust 3	7.10	4.05	3.05	-12.31	4.72	53.695	50.028	125.954	0.259
uppermost mantle	8.11	4.50	3.34			84.409	67.635	172.818	0.278

```
Enter lat (or just return to quit) : 70
Enter lon (or just return to quit) : -45.1
```

```
Query CRUST1.0 at lat=70.000000 lon=-45.100000
This pt is associated with 2 CRUST1.0 cells
```

```
CRUST1.0 CELL CENTERED AT CLAT = 69.5 CLON = -45.5
mean surface height: 2.140 km
-- LAYER TYPE ---
```

	Vp	Vs	rho	bottom	thick	mu	lambda	E	nu
	km/s	km/s	g/cm3	km	km	GPa	GPa	Gpa	
ice	3.81	1.94	0.92	-0.04	2.18	6.430	3.463	9.176	0.325
sediments 1	3.20	1.59	2.26	-0.05	0.01	11.715	5.714	15.268	0.336
cryst. crust 1	6.20	3.60	2.76	-13.51	13.46	34.555	35.770	89.115	0.246
cryst. crust 2	6.40	3.70	2.81	-26.98	13.47	38.160	38.469	96.095	0.249
cryst. crust 3	6.80	3.90	2.91	-40.86	13.88	46.036	44.261	111.088	0.255
uppermost mantle	8.22	4.56	3.38			87.816	70.282	179.603	0.278

```
CRUST1.0 CELL CENTERED AT CLAT = 70.5 CLON = -45.5
mean surface height: 2.350 km
-- LAYER TYPE ---
```

	Vp	Vs	rho	bottom	thick	mu	lambda	E	nu
	km/s	km/s	g/cm3	km	km	GPa	GPa	Gpa	
ice	3.81	1.94	0.92	0.07	2.28	6.430	3.463	9.176	0.325
sediments 1	3.20	1.59	2.26	0.06	0.01	11.715	5.714	15.268	0.336
cryst. crust 1	6.20	3.60	2.76	-12.71	12.77	34.555	35.770	89.115	0.246

cryst. crust 2	6.40	3.70	2.81	-25.49	12.78	38.160	38.469	96.095	0.249
cryst. crust 3	6.80	3.90	2.91	-38.65	13.16	46.036	44.261	111.088	0.255
uppermost mantle	8.25	4.57	3.39			89.132	70.800	181.057	0.279

Enter lat (or just return to quit) : -19
 Enter lon (or just return to quit) : -68

Query CRUST1.0 at lat=-19.000000 lon=-68.000000
 This pt is associated with 4 CRUST1.0 cells

CRUST1.0 CELL CENTERED AT CLAT = -19.5 CLON = -68.5

mean surface height: 4.000 km

-- LAYER TYPE ---	Vp	Vs	rho	bottom	thick	mu	lambda	E	nu
	km/s	km/s	g/cm3	km	km	GPa	GPa	Gpa	
sediments 1	2.50	1.07	2.11	3.50	0.50	8.356	2.416	6.705	0.388
cryst. crust 1	6.00	3.50	2.72	-12.75	16.25	31.280	33.320	82.774	0.242
cryst. crust 2	6.30	3.68	2.79	-32.25	19.50	35.169	37.783	93.781	0.241
cryst. crust 3	6.60	3.82	2.85	-61.50	29.25	40.969	41.588	103.815	0.248
uppermost mantle	8.18	4.54	3.37			86.573	69.461	177.461	0.277

CRUST1.0 CELL CENTERED AT CLAT = -19.5 CLON = -67.5

mean surface height: 3.730 km

-- LAYER TYPE ---	Vp	Vs	rho	bottom	thick	mu	lambda	E	nu
	km/s	km/s	g/cm3	km	km	GPa	GPa	Gpa	
sediments 1	2.50	1.07	2.11	3.23	0.50	8.356	2.416	6.705	0.388
sediments 2	4.00	2.13	2.37	-0.77	4.00	16.415	10.752	28.002	0.302
sediments 3	5.00	2.88	2.54	-4.07	3.30	21.364	21.068	52.743	0.252
cryst. crust 1	6.00	3.50	2.72	-17.15	13.08	31.280	33.320	82.774	0.242
cryst. crust 2	6.30	3.68	2.79	-32.85	15.70	35.169	37.783	93.781	0.241
cryst. crust 3	6.60	3.82	2.85	-56.40	23.55	40.969	41.588	103.815	0.248
uppermost mantle	8.14	4.52	3.35			85.086	68.442	174.815	0.277

CRUST1.0 CELL CENTERED AT CLAT = -18.5 CLON = -68.5

mean surface height: 4.000 km

-- LAYER TYPE ---	Vp	Vs	rho	bottom	thick	mu	lambda	E	nu
	km/s	km/s	g/cm3	km	km	GPa	GPa	Gpa	
sediments 1	2.50	1.07	2.11	3.50	0.50	8.356	2.416	6.705	0.388
sediments 2	4.00	2.13	2.37	0.30	3.20	16.415	10.752	28.002	0.302
cryst. crust 1	6.00	3.50	2.72	-14.02	14.32	31.280	33.320	82.774	0.242
cryst. crust 2	6.30	3.68	2.79	-31.21	17.19	35.169	37.783	93.781	0.241
cryst. crust 3	6.60	3.82	2.85	-57.00	25.79	40.969	41.588	103.815	0.248
uppermost mantle	8.12	4.51	3.34			84.349	67.936	173.501	0.277

CRUST1.0 CELL CENTERED AT CLAT = -18.5 CLON = -67.5

mean surface height: 3.760 km

-- LAYER TYPE ---	Vp	Vs	rho	bottom	thick	mu	lambda	E	nu
	km/s	km/s	g/cm3	km	km	GPa	GPa	Gpa	
sediments 1	2.50	1.07	2.11	3.26	0.50	8.356	2.416	6.705	0.388
sediments 2	4.00	2.13	2.37	-0.74	4.00	16.415	10.752	28.002	0.302
sediments 3	5.00	2.88	2.54	-4.24	3.50	21.364	21.068	52.743	0.252
cryst. crust 1	6.00	3.50	2.72	-18.88	14.64	31.280	33.320	82.774	0.242
cryst. crust 2	6.30	3.68	2.79	-36.46	17.58	35.169	37.783	93.781	0.241
cryst. crust 3	6.60	3.82	2.85	-62.82	26.36	40.969	41.588	103.815	0.248
uppermost mantle	8.15	4.52	3.36			85.887	68.646	175.445	0.278

Enter lat (or just return to quit) : -2.9
 Enter lon (or just return to quit) : -60

Query CRUST1.0 at lat=-2.900000 lon=-60.000000
This pt is associated with 2 CRUST1.0 cells

CRUST1.0 CELL CENTERED AT CLAT = -2.5 CLON = -60.5

mean surface height: 0.070 km

-- LAYER TYPE ---	Vp	Vs	rho	bottom	thick	mu	lambda	E	nu
	km/s	km/s	g/cm3	km	km	GPa	GPa	Gpa	
sediments 1	2.50	1.07	2.11	-0.43	0.50	8.356	2.416	6.705	0.388
sediments 2	4.00	2.13	2.37	-0.63	0.20	16.415	10.752	28.002	0.302
cryst. crust 1	6.20	3.60	2.76	-11.31	10.68	34.555	35.770	89.115	0.246
cryst. crust 2	6.40	3.70	2.81	-25.04	13.73	38.160	38.469	96.095	0.249
cryst. crust 3	6.80	3.90	2.91	-38.77	13.73	46.036	44.261	111.088	0.255
uppermost mantle	8.33	4.61	3.42			91.946	72.682	185.958	0.279

CRUST1.0 CELL CENTERED AT CLAT = -2.5 CLON = -59.5

mean surface height: 0.090 km

-- LAYER TYPE ---	Vp	Vs	rho	bottom	thick	mu	lambda	E	nu
	km/s	km/s	g/cm3	km	km	GPa	GPa	Gpa	
sediments 1	2.50	1.07	2.11	-0.41	0.50	8.356	2.416	6.705	0.388
sediments 2	4.00	2.13	2.37	-1.41	1.00	16.415	10.752	28.002	0.302
cryst. crust 1	6.20	3.60	2.76	-11.63	10.22	34.555	35.770	89.115	0.246
cryst. crust 2	6.40	3.70	2.81	-24.77	13.14	38.160	38.469	96.095	0.249
cryst. crust 3	6.80	3.90	2.91	-37.91	13.14	46.036	44.261	111.088	0.255
uppermost mantle	8.34	4.62	3.42			91.884	72.998	186.675	0.279

Enter lat (or just return to quit) :

>>