Fracture Data by Domain for the Town of Charlotte

Gale, Kim, Earle, Clark, Smith, and Peterson
Vermont Geological Survey Open File Report VG09-1, Plate 3

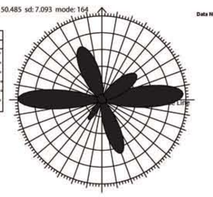
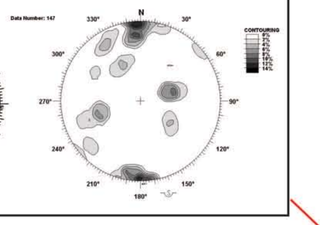
Barber Hill Domain

Frequency Gaussians
Total Data: 147 max: 15 min: 0 mean: 50.485 sd: 7.093 mode: 161

RMS = 0.2235743

GAUSSIAN PARAMETERS					
#	%	Nor. H	Max H	Azimuth	sd
1	20.89	96.85	4.045	85.68°	10.1°
2	18.75	100.00	4.177	270.7°	8.78°
3	14.02	65.93	2.754	160.2°	9.98°
4	16.83	66.56	2.780	337.7°	11.83°
5	12.90	48.49	2.025	53.77°	12.45°
6	4.057	24.88	1.039	214.2°	7.63°

Base Fit Value = 0.1999974

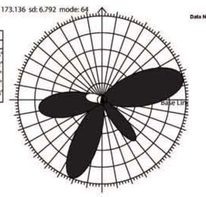
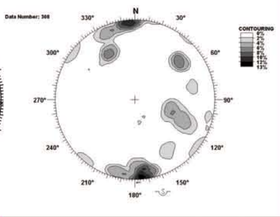
Route 7 Shale Domain

Frequency Gaussians
Total Data: 308 max: 30 min: 0 mean: 173.136 sd: 6.792 mode: 64

RMS = 0.4969564

GAUSSIAN PARAMETERS					
#	%	Nor. H	Max H	Azimuth	sd
1	21.70	99.83	7.502	201.4°	11.85
2	29.21	100.00	7.515	74.60°	15.92°
3	20.36	74.47	5.597	262.4°	14.9°
4	9.738	60.24	4.527	140.6°	8.82°
5	4.899	15.40	1.157	282.9°	17.34°

Base Fit Value = 0.4399929

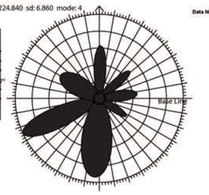
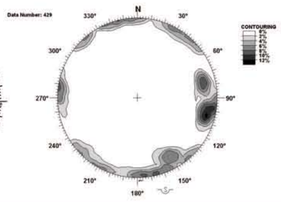
Pease Mountain + Jones Hill Domain

Frequency Gaussians
Total Data: 429 max: 28 min: 0 mean: 224.840 sd: 6.860 mode: 4

RMS = 0.5675807

GAUSSIAN PARAMETERS					
#	%	Nor. H	Max H	Azimuth	sd
1	17.35	100.00	10.43	245.3°	9.49
2	24.96	93.50	9.756	183.4°	14.6
3	8.935	59.65	6.224	1.381°	8.19°
4	14.38	49.85	5.201	300.6°	15.7°
5	5.958	44.45	4.638	48.41°	7.34°
6	7.443	40.96	4.274	83.09°	9.93
7	4.758	33.38	3.483	123.4°	7.8°

Base Fit Value = 0.8399864

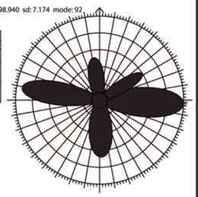
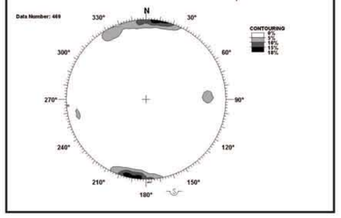
Northeast Domain

Frequency Gaussians
Total Data: 469 max: 33 min: 0 mean: 98.940 sd: 7.174 mode: 92

RMS = 0.634099

GAUSSIAN PARAMETERS					
#	%	Nor. H	Max H	Azimuth	sd
1	23.44	100.00	11.07	92.54°	13.2°
2	17.86	92.90	10.29	279.1°	10.84°
3	16.87	64.66	7.159	178.2°	14.7°
4	10.27	45.83	5.074	352.0°	12.62°
5	8.650	55.52	6.147	58.40°	8.79°

Base Fit Value = 1.159982

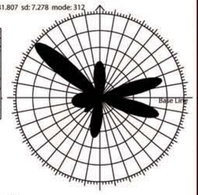
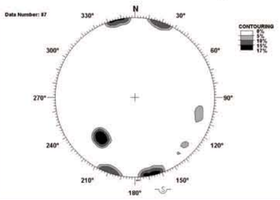
Northern Lakeshore Domain

Frequency Gaussians
Total Data: 87 max: 16 min: 0 mean: -41.807 sd: 7.278 mode: 312

RMS = 0.0826878

GAUSSIAN PARAMETERS					
#	%	Nor. H	Max H	Azimuth	sd
1	18.46	100.00	2.272	310.0°	7.71°
2	13.79	75.81	2.101	74.04°	7.59°
3	14.49	71.63	1.986	106.3°	8.46°
4	11.09	45.60	1.264	188.6°	10.07°
5	11.36	40.66	1.127	-0.7564°	11.67°
6	14.42	30.77	0.8530	261.9°	19.55°
7	4.404	21.23	0.5884	227.4°	8.66°

Base Fit Value = 0.1199981

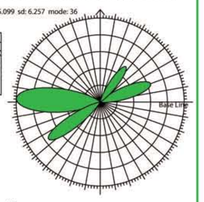
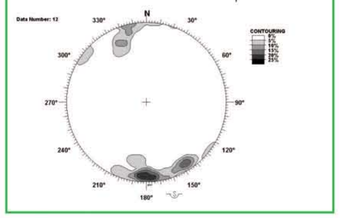
Mesozoic Alkalic Dike Orientations

Frequency Gaussians
Total Data: 14 max: 1 min: 0 mean: -75.099 sd: 6.257 mode: 36

RMS = 8.96979E-03

GAUSSIAN PARAMETERS					
#	%	Nor. H	Max H	Azimuth	sd
1	42.73	100.00	0.6868	272.3°	11.59°
2	22.55	75.85	0.5209	234.3°	8.05°
3	21.84	63.92	0.4390	70.12°	9.27°
4	14.59	52.05	0.3575	35.91°	7.6°

Base Fit Value = 0.001

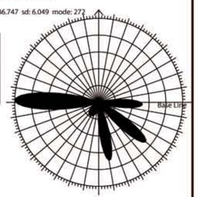
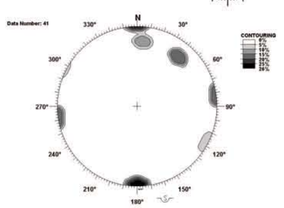
Wings Point Domain

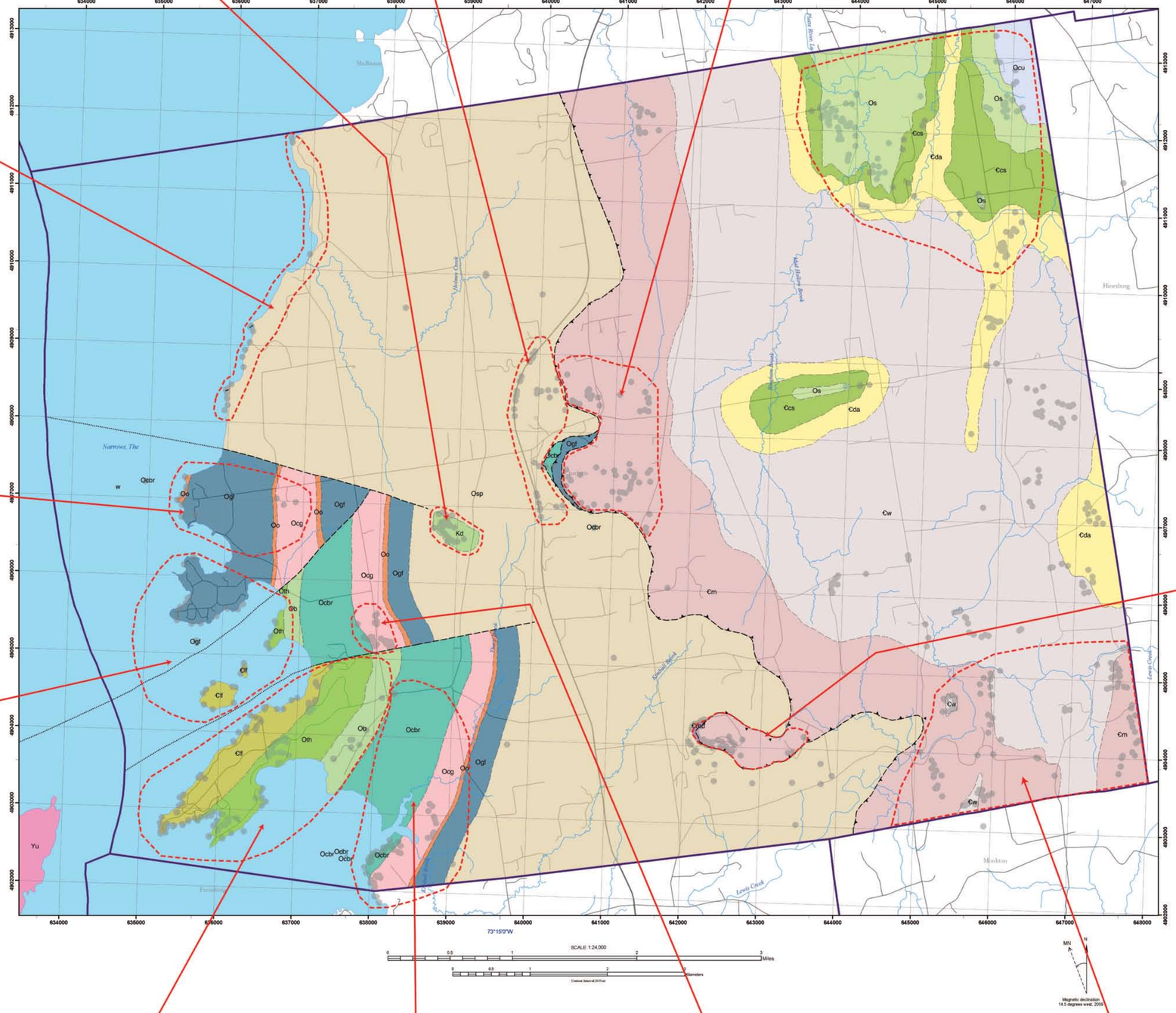
Frequency Gaussians
Total Data: 41 max: 10 min: 0 mean: 186.747 sd: 6.049 mode: 272

RMS = 9.80486E-02

GAUSSIAN PARAMETERS					
#	%	Nor. H	Max H	Azimuth	sd
1	29.59	100.00	2.049	271.4°	7.88°
2	17.69	70.45	1.444	169.4°	6.69°
3	19.81	73.23	1.501	130.0°	7.2°
4	14.82	52.19	1.070	92.66°	7.56°
5	14.38	18.72	0.3836	212.5°	20.43°

Base Fit Value = 0.001



Mt. Philo Domain

Frequency Gaussians
Total Data: 897 max: 59 min: 0 mean: 17.349 sd: 7.467 mode: 228

RMS = 1.9829

GAUSSIAN PARAMETERS					
#	%	Nor. H	Max H	Azimuth	sd
1	24.40	100.00	20.67	221.2°	14.09°
2	16.80	76.73	15.86	64.86°	12.64°
3	18.52	73.63	15.09	6.735°	14.63°
4	4.475	40.05	8.276	275.2°	6.47°

Base Fit Value = 2.91995

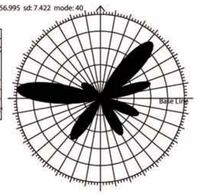
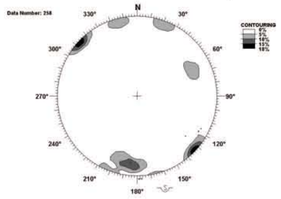
Converse Bay- Cedar Beach Peninsula Domain

Frequency Gaussians
Total Data: 258 max: 23 min: 0 mean: 56.995 sd: 7.422 mode: 40

RMS = 0.2194296

GAUSSIAN PARAMETERS					
#	%	Nor. H	Max H	Azimuth	sd
1	22.55	100.00	8.372	276.3°	9.25°
2	21.19	90.50	7.577	42.76°	9.6°
3	14.07	59.46	4.979	215.4°	9.7°
4	11.00	49.43	4.138	112.8°	9.13°
5	11.81	50.34	4.215	149.6°	9.61°
6	11.03	62.06	5.196	73.33°	7.29°
7	9.756	27.99	2.343	308.6°	14.28°

Base Fit Value = 0.001

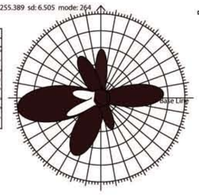
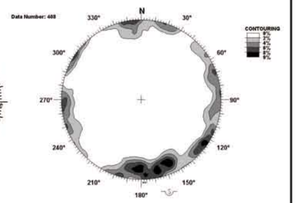
Thompson's Point Domain

Frequency Gaussians
Total Data: 408 max: 27 min: 0 mean: 255.389 sd: 6.505 mode: 264

RMS = 0.3040956

GAUSSIAN PARAMETERS					
#	%	Nor. H	Max H	Azimuth	sd
1	23.39	100.00	8.035	262.9°	15.79°
2	13.52	71.94	5.780	86.17°	12.7°
3	14.82	71.94	5.781	204.9°	13.91°
4	6.404	53.08	4.265	0.8567°	8.15°
5	8.233	50.08	4.024	332.9°	11.1°
6	4.000	26.79	2.153	280.2°	10.08°
7	4.544	32.14	2.582	159.9°	9.55°
8	4.549	39.64	3.185	243.0°	7.76°

Base Fit Value = 0.9599851

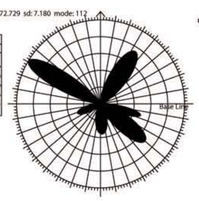
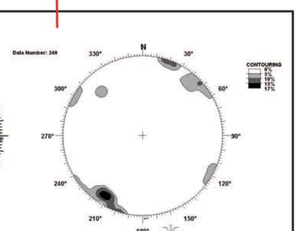
Velco Domain

Frequency Gaussians
Total Data: 249 max: 28 min: 0 mean: 72.729 sd: 7.180 mode: 112

RMS = 0.378161

GAUSSIAN PARAMETERS					
#	%	Nor. H	Max H	Azimuth	sd
1	20.37	100.00	8.139	300.8°	8.3°
2	20.51	73.99	6.022	33.64°	11.29°
3	18.46	68.01	5.535	129.9°	11.04°
4	11.88	33.64	2.738	177.3°	14.37°
5	8.159	47.78	3.889	105.9°	6.97°
6	6.510	26.90	2.190	248.1°	9.85°

Base Fit Value = 0.3199945

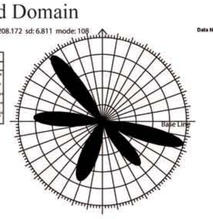
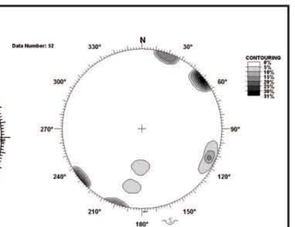
South Lake Rd Domain

Frequency Gaussians
Total Data: 52 max: 10 min: 0 mean: 208.172 sd: 6.811 mode: 108

RMS = 0.1016224

GAUSSIAN PARAMETERS					
#	%	Nor. H	Max H	Azimuth	sd
1	20.40	98.90	1.843	322.3°	7.66°
2	19.12	100.00	1.863	105.6°	7.1°
3	21.36	75.75	1.411	201.5°	10.47°
4	17.76	82.26	1.532	273.4°	8.02°
5	16.34	68.33	1.273	139.4°	8.88°

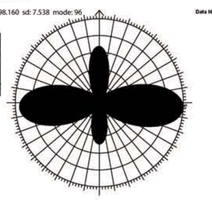
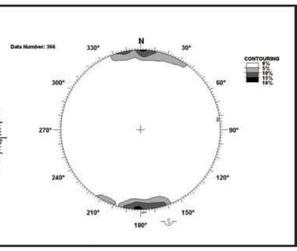
Base Fit Value = 0.001

Southeast Domain

Frequency Gaussians
Total Data: 366 max: 26 min: 0 mean: 98.160 sd: 7.538 mode: 96

RMS = 0.4724191

GAUSSIAN PARAMETERS					
#	%	Nor. H	Max H	Azimuth	sd
1	30.31	100.00	7.759	93.48°	19.01°
2	28.66	94.83	7.358	266.6°	18.95°
3	12.85	63.87	4.955	-0.5348°	12.62°
4	9.304	44.13	3.424	180.0°	13.22°

Base Fit Value = 0.799987