

U.S. DEPARTMENT OF THE INTERIOR  
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EARTHQUAKES RECORDED BY THE SOUTH CAROLINA SEISMIC NETWORK  
[1974 – 1986]

by

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## INTRODUCTION

The South Carolina network of seismograph stations (SCNET) was deployed in 1974, after an 8 month reconnaissance survey in 1973 (Tarr, 1977). The size and configuration of the SCNET has changed with time; there are currently 19 stations operating (fig. 1, table I). Fourteen of the stations are vertical short-period seismometers and five stations (BCS, DRC, HWD, RGR, and WAS) record three components.

Although there are stations as distant as the Piedmont region northwest of Columbia, the SCNET is concentrated in the Coastal Plain, surrounding the 1886 Charleston earthquake meizoseismal ( $\text{MMI} = \text{X}$ ) region. The SCNET was deployed in order to attempt to delineate currently active faults and determine their relationship to the 1886 Charleston earthquake. Locations have been determined for 74 earthquakes recorded by the SCNET between May 28, 1974, and September 17, 1986 (Table II). Locations and fault-plane solutions presented here are based on data collected by the SCNET, supplemented by about 20 P-phase arrival times and polarities recorded by stations at the Savannah River Nuclear Plant (stations SRPN, SRPW, and SRPD) and the Georgia Institute of Technology (stations CH5 and CH6).

Phase arrival times for all 74 earthquakes have been previously reported to and included in issues of the *Southeastern U.S. Seismic Network Bulletin of Seismicity of the Southeastern United States* (SEUSSN Bulletin). Some polarities previously reported, however, were incorrect. For example, in 1984, we began recalibration of all SCNET station polarities. Stations CCS, SVS, and ZIN were found to be incorrectly manufactured, thus producing reverse polarity data since the time they were deployed. The polarity problem with ZIN was known at the time of deployment; the reverse polarities of CCS and SVS were not. Thus, polarities reported in the SEUSSN Bulletin for ZIN were reported correctly (ie. the reverse of that recorded), but those for CCS and SVS were reported incorrectly.

Originally, about half of the stations had Mark Products L4C seismometers. Since polarity questions had arisen through the years and since the polarities of L4C seismometers can not be verified with weight lifts, we began replacing all the L4C seismometers in late 1984. Currently, only station COW has a Mark Products L4C seismometer (1 Hz), station RGR has a Teledyne Geotech L13DS seismometer (4.5 Hz), station VEW has a Teledyne Geotech 20171A seismometer (1 Hz), and the remaining stations have Teledyne Geotech S13 seismometers (1 Hz). Calibration pulses are now examined every 8 hours at all stations except at the two downhole stations, RGR and VEW.

The locations and polarities reported herein were determined from original data tapes and records. Many more polarities can be read than are reported here; they can not, however, be verified. Polarities have been verified from original records by examining all the calibration pulse records that could be found, by examining all available station deployment, work, and repair reports, and, in a few cases, by examining the polarities of impulsive teleseismic signals recorded within hours or days of local earthquakes. Thus,

the polarities reported herein supercede any previously reported. Certainly the addition of phase arrival data from other temporary and permanent stations in South Carolina and surrounding states might improve the hypocenter locations and would improve the fault plane solutions. But this open-file is designed to get all of the correct SCNET polarity and location data into the public domain, not to be an interpretive scientific publication.

## EARTHQUAKE DATA

The epicenters of the 74 earthquakes are concentrated in the 1886 meizoseismal region, now called the Middleton Place-Summerville seismic zone (MPSSZ), after two local cities (fig. 2). Nearly 70 percent of the earthquakes (50) are contained in a north-south trending zone that is approximately 22 km long and 12 km wide. Four of the epicenters are located in the Adams Run (ARSZ) area southwest of the MPSSZ. Three of the ARSZ events occurred in a 2 day period of December, 1977; the fourth ARSZ earthquake occurred nearly 2 years later, in October, 1979. Another obvious cluster of earthquakes, northwest of the MPSSZ, is called the Bowman seismic zone (BSZ), again named after a local town. The BSZ contains 13 earthquakes, but most of these (9) occurred between September, 1976, and November, 1977. The average uncertainties associated with the locations of all 74 events are:

$$dx = 0.845km \quad dy = 0.956km \quad dz = 1.786km$$

$$rms = 0.149s$$

where  $dx$  is E-W (longitude),  $dy$  is N-S (latitude), and  $dz$  is depth. Hypocenter coordinates, local magnitudes ( $M_l$ ), and the uncertainties associated with the location determined for each event are presented in table II.

The depths determined for these 74 earthquakes vary between near the surface and about 12 km (fig. 2 and 3). The depths determined for the events west of  $81.0^\circ W$  are not well determined since station coverage is so sparse. The deepest hypocenter determined in the BSZ is 6.95 km (6-9-85), but almost 75 percent of the BSZ earthquakes have hypocenters shallower than 3 km. The ARSZ hypocenters are located between about 5.6 and 9.7 km deep. Only in the MPSSZ are hypocenters located as deep as 10 to 12 km. The deepest events in the MPSSZ are located on the west side of the zone; the shallowest trend north-south along the east side.

The velocity structure used to determine these depths and locations is a three-dimensional block velocity structure. Hypocenter coordinates and fault-plane solutions are notoriously structure dependent. The results presented here are the result of a progressive location-velocity structure determination process described in detail elsewhere (Roecker, 1981; Roecker, 1982; Shedlock, 1986; Shedlock and Roecker, 1987). The velocity structure determination for South Carolina will be reported in a separate journal article; the three-dimensional velocity structure used to determine these locations is the structure associated with the smallest uncertainties in location and structure. Similarly, the fault

plane solutions presented here are those determined based on the same three-dimensional structure used to determine the hypocenter parameters, although the sense of faulting for well-constrained events does not change significantly with any of the other possible one-dimensional and three-dimensional structures examined.

Although verifiable first-motion polarities were recorded by the SCNET for 53 of the 74 earthquakes, usually the polarities were readable for only a few stations per event. Thus, for many events, the phase information does not discriminate between several possible alternative fault-plane solutions (fig. 5 to 81). Only one composite fault-plane solution is presented, for four earthquakes that occurred at almost the same epicenter and within 1 min and 10 s of one another on 10-30-78. These four earthquakes may very well be explosions, since the only dilatations picked are for later phase arrivals. No documentation has been found to indicate that these earthquakes are explosions, however, so they have been included here as earthquakes.

#### ACKNOWLEDGMENTS

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## REFERENCES

- Roecker, S.W., 1981, Seismicity and tectonics of the Pamir-Hindu Kush region of central Asia: Cambridge, Mass., Massachusetts Institute of Technology Ph.D. thesis, 298 p.
- Roecker, S.W., 1982, Velocity structure of the Pamir-Hindu Kush region: Possible evidence of a subducted crust: *Journal of Geophysical Research*, v. 87, p. 945–959.
- Shedlock, K.M., 1986, Structure and tectonics of North China: Cambridge, Mass., Massachusetts Institute of Technology Ph.D. thesis, 194 p.
- Shedlock, K.M., and S.W. Roecker, 1987, Elastic wave velocity structure of the crust and upper mantle beneath the North China basin, accepted by *Journal of Geophysical Research*, May, 1987.
- Tarr, A. C., 1977, Recent seismicity near Charleston, South Carolina, and its relationship to the August 31, 1886, earthquake, in *Studies Related to the Charleston, South Carolina, Earthquake of 1886 – A Preliminary Report*, U.S. Geological Survey Professional Paper 1028, p. 43–57.

Table I

SCNET					
Station	Lat	Lon	Elev (m)	Installation	Removed
AYRT	33.0180	-80.1353	9	1-01-77	1-31-77
BCS (3-comp)	32.9807	-80.0615	12	3-31-76 3-01-83	
BOW	33.3737	-80.6430	0	10-01-77	12-01-83
CCS	32.8162	-80.2553	9	3-31-76	2-01-86
CHF	34.0247	-82.5867	152	2-14-77	11-01-83
COW	33.3842	-80.7008	60	10-01-77	
DRC (3-comp)	33.1078	-80.3885	20	3-01-83	
GVS	33.5970	-81.8528	100	5-20-74	8-09-76
HBF	32.9330	-80.3780	10	3-23-73	
HWD (3-comp)	32.7392	-80.2833	9	3-01-83	
JSC	34.2790	-81.2580	120	5-20-74	
LHS	34.4790	-80.8080	120	5-20-74	
MGS	32.8970	-80.1408	9	3-31-76	
MTT	33.7513	-81.6362	182	8-09-76	
NHS	33.1220	-79.7560	10	5-20-74	9-30-80
OSB	33.5472	-80.8445	91	4-02-77	12-01-83
OSC	33.5400	-80.8250	60	5-29-74	4-02-77
PBF	32.8628	-79.7607	-60	7-01-81	7-28-87
PBS	33.2790	-80.2640	25	5-20-74	
PMS	32.8760	-80.1353	9	12-01-77	12-30-77
PPS	32.8237	-80.0400	4	3-31-76	12-01-83
PRM	34.0833	-82.3633	254	7-04-75	
RGR (3-comp)	32.9055	-80.1938	-52	6-01-86	
ROW	33.3650	-80.7945	0	10-01-77	12-01-83
SBK	32.5672	-80.1803	-59	7-01-81	5-31-86
SBRT	33.0200	-80.2472	9	1-01-77	1-31-77
SGS	33.1930	-80.5120	25	3-08-73	
SMA	33.6280	-80.3180	30	5-20-74	7-01-75
SVS	32.9688	-80.2487	3	3-31-76	
TRK	33.1222	-79.7777	10	3-01-83	
T121	32.9320	-80.1917	9	12-01-77	12-30-77
T122	32.9468	-80.1467	9	12-01-77	12-30-77
VEW	32.7177	-79.9415	-58	7-01-81	
VRN	33.0375	-80.9417	30	12-01-79	
VSC	32.8790	-81.0500	30	5-20-74	10-31-78
WAS (3-comp)	32.8477	-80.2720	9	3-01-83	
WMS	33.4258	-80.7408	0	10-01-77	12-01-83
ZIN	33.1078	-80.1597	9	4-01-76	

Table II

SCNET Earthquakes					
Date	Time (GMT)	Latitude	Longitude	Depth	Magnitude
5-28-74	5: 1:34.16	33.375	-80.686	6.71	1.70
7- 7-74*	4: 3:35.94	32.986	-80.233	10.10	0.97
11-22-74	5:25:55.97	32.935	-80.152	7.85	3.83
11-22-74	6:22:44.30	32.908	-80.153	4.22	2.65
4-28-75	5:46:52.26	33.008	-80.223	9.23	3.11
4- 6-76	21:42:35.90	33.294	-79.742	10.18	2.18
4-28-76	6:15:53.26	33.756	-81.671	0.38	1.82
7- 3-76	9:28:42.40	33.000	-80.244	8.90	1.09
8-28-76	23:15:39.20	33.081	-80.186	1.00	0.57
9-15-76	5:15:35.17	33.146	-81.389	2.21	2.45
9-22-76	8:44:34.20	33.374	-80.710	4.60	1.77
9-22-76	8:52:21.07	33.393	-80.681	1.83	0.79
9-22-76	9:14:13.97	33.370	-80.703	2.04	1.08
9-23-76	5:40:10.37	33.377	-80.698	4.42	1.12
11-14-76*	21:12:11.53	32.968	-80.193	3.21	1.24
11-21-76	13:31:46.37	33.377	-80.703	2.20	1.30
11-22-76	0:30:51.28	33.374	-80.710	1.77	1.88
11-28-76	9:38:49.59	33.394	-80.687	3.51	0.90
1-18-77	18:29:13.68	33.051	-80.212	2.18	2.66
1-20-77	4: 5:45.26	32.927	-80.149	7.86	1.91
2-26-77	10: 9:55.78	32.924	-80.181	3.98	1.56
3-18-77	7:36: 8.25	32.937	-80.178	3.42	1.16
3-30-77	8:27:47.35	32.955	-80.186	8.44	2.91
5-31-77	23:50:13.10	32.936	-80.230	11.75	2.55
6- 5-77	0:42:29.38	33.049	-81.413	5.91	2.66
6-22-77	20:43:39.52	32.989	-80.159	3.87	2.07
8-23-77	13:44:59.67	32.937	-80.161	6.93	2.29
8-25-77	4:20: 6.97	33.383	-80.693	6.95	2.86
9- 1-77	21: 5:32.08	33.400	-80.661	6.26	1.81
11-10-77	11:24:59.72	33.385	-80.689	2.20	0.84
12-15-77	7:15:54.95	32.982	-80.263	11.53	2.04
12-15-77	19:16:43.23	32.945	-80.170	8.00	2.61
12-16-77	11:14:34.01	32.738	-80.310	7.71	2.08
12-16-77	11:25:31.54	32.733	-80.309	7.51	2.26
12-18-77	1:58:37.55	32.747	-80.287	5.58	1.76
12-20-77	23:41:22.92	33.062	-80.239	11.64	1.80
9- 7-78	22:53:22.59	33.063	-80.209	10.11	2.60
10-30-78	9:15: 6.15	33.039	-80.165	4.07	—
10-30-78	9:15:12.63	33.039	-80.159	6.69	1.86
10-30-78	9:16: 2.51	33.036	-80.155	5.42	—

Table II (cont.)

Uncertainties				Readings	
dx (km)	dy (km)	dz (km)	RMS (s)	P	S
0.840	0.790	1.569	0.110	7	7
4.215	—	—	0.347	4	1
0.611	0.971	0.832	0.112	10	0
0.572	1.496	2.315	0.056	7	2
0.874	0.948	1.194	0.170	9	1
2.156	2.188	3.110	0.073	10	2
0.332	0.421	0.805	0.104	10	5
0.523	0.579	0.956	0.065	5	2
1.235	2.901	4.406	0.471	4	1
1.237	1.132	2.333	0.133	9	8
0.334	0.352	0.769	0.075	10	8
0.998	1.060	1.868	0.126	6	5
0.592	0.592	1.711	0.192	11	10
0.580	0.658	1.343	0.069	8	6
0.713	1.066	—	0.430	7	5
0.866	0.747	2.362	0.210	9	8
0.653	0.624	1.350	0.135	11	8
0.635	0.634	1.593	0.087	7	5
0.536	1.163	2.443	0.156	14	4
0.649	0.611	0.689	0.155	12	9
0.392	0.646	1.626	0.102	8	6
0.572	0.907	4.149	0.119	6	4
0.558	0.844	0.937	0.153	15	2
0.827	1.375	1.868	0.183	9	3
1.079	1.521	1.736	0.179	10	2
0.584	0.913	2.250	0.171	9	1
0.615	0.782	1.127	0.107	8	5
0.652	0.622	1.153	0.139	14	4
0.619	0.490	0.716	0.065	9	5
0.867	1.154	1.859	0.165	6	5
0.357	0.483	0.940	0.097	14	3
0.413	0.533	0.558	0.121	16	1
0.428	0.709	0.565	0.108	21	4
0.422	0.697	0.623	0.117	21	6
0.485	0.875	0.980	0.085	9	6
1.488	1.450	4.019	0.187	7	4
0.274	0.280	0.489	0.090	19	9
0.534	0.433	1.377	0.124	9	5
0.401	0.341	1.217	0.072	8	4
0.516	0.409	1.712	0.077	6	4



Table II (cont.)

SCNET Earthquakes					
Date	Time (GMT)	Latitude	Longitude	Depth	Magnitude
10-30-78	9:16:14.14	33.032	-80.162	0.68	2.45
10-30-78	10: 4:21.35	33.064	-80.216	19.93	1.27
1-27-79	23:55:14.95	33.047	-80.173	9.33	2.80
8-11-79	2:11:56.23	32.978	-80.234	10.53	2.47
10- 5-79	23: 5:54.40	32.771	-80.287	9.62	2.13
10-21-79	7:10:28.58	32.927	-80.206	6.62	1.58
12- 7-79	5:43:34.41	33.006	-80.169	4.81	2.76
12-17-79	17:34:57.32	33.455	-80.667	0.12	1.11
7- 1-80	23:33:19.75	33.391	-80.660	2.05	1.59
9- 1-80	5:44:41.75	32.973	-80.193	7.22	2.86
2-21-81	4:48:26.54	33.615	-81.178	1.23	2.00
3-19-81	4:33:54.90	32.968	-80.183	5.38	2.27
3-26-81	9:12:50.60	32.975	-80.226	7.82	1.39
5- 3-81	4: 5:38.91	32.984	-80.229	14.85	1.01
6- 8-81*	5:10:45.18	32.921	-80.148	4.30	1.17
1-15-82	7:54: 5.32	32.900	-80.096	3.46	1.69
1-28-82	4:52:51.72	32.988	-81.380	1.41	2.40
2- 1-82	7:25:15.68	32.929	-80.154	1.00	1.95
3- 1-82	3:33:13.14	32.935	-80.143	6.08	2.82
1-31-83	23:41: 1.15	34.292	-82.414	6.72	2.80
3-22-83	12: 0: 3.60	32.936	-80.155	3.84	2.10
6-26-83	7:44:40.38	32.934	-80.149	1.52	2.00
11- 6-83	9: 2:19.94	32.937	-80.170	7.46	3.27
11- 6-83	9: 4:15.10	32.936	-80.176	6.01	2.12
11- 7-83	9:29:37.06	32.938	-80.175	7.81	1.59
9- 2-84	22:46:43.44	32.932	-80.202	8.19	0.84
5-19-85	23:29:13.83	33.016	-80.160	3.68	1.63
6- 9-85	0:38:41.61	33.244	-81.669	1.00	2.70
8- 3-85	2:43:12.11	32.961	-80.150	1.12	0.75
3- 9-86	23:49:15.45	32.981	-80.171	2.30	2.23
5- 8-86	15:45:46.46	33.003	-80.181	5.09	1.41
6-13-86	13:48:21.88	32.995	-80.190	8.88	1.07
8-17-86	20:36:32.68	32.924	-80.179	9.39	1.74
9-17-86	9:33:49.55	32.932	-80.153	6.09	2.61

\* unstable solution

Table II (cont.)

Uncertainties				Readings	
dx (km)	dy (km)	dz (km)	RMS (s)	P	S
0.443	0.440	0.760	0.114	9	5
1.054	1.430	0.788	0.077	4	1
0.843	0.691	1.187	0.167	13	4
0.597	0.630	0.962	0.083	12	6
1.214	1.606	0.952	0.123	9	5
0.781	1.280	1.564	0.111	6	4
0.434	0.357	0.672	0.109	15	12
0.619	1.033	1.046	0.165	4	2
0.568	0.728	1.981	0.192	9	6
0.439	0.594	0.588	0.092	15	2
0.204	0.217	0.335	0.048	10	6
0.626	0.648	1.127	0.169	13	5
1.424	0.977	2.007	0.160	5	4
2.485	2.674	4.088	0.106	2	2
—	—	—	0.160	3	3
0.917	1.511	4.690	0.164	3	3
0.711	1.371	1.558	0.178	12	5
0.970	0.759	2.893	0.366	3	3
1.439	1.466	2.638	0.242	5	3
3.576	4.309	5.032	0.265	5	3
0.296	0.234	1.393	0.062	6	6
1.116	0.571	0.975	0.299	12	4
0.469	0.431	1.417	0.105	11	4
0.551	0.471	1.902	0.094	9	4
0.286	0.205	0.593	0.034	6	2
1.101	1.200	2.757	0.158	8	6
0.414	0.386	1.871	0.108	13	10
2.090	2.307	2.725	0.408	6	5
0.883	1.932	—	0.193	5	4
0.416	0.457	2.955	0.129	9	7
0.927	0.875	5.790	0.193	7	5
0.952	1.093	3.651	0.133	8	4
0.932	0.823	1.235	0.193	9	7
0.704	0.730	1.030	0.144	11	8

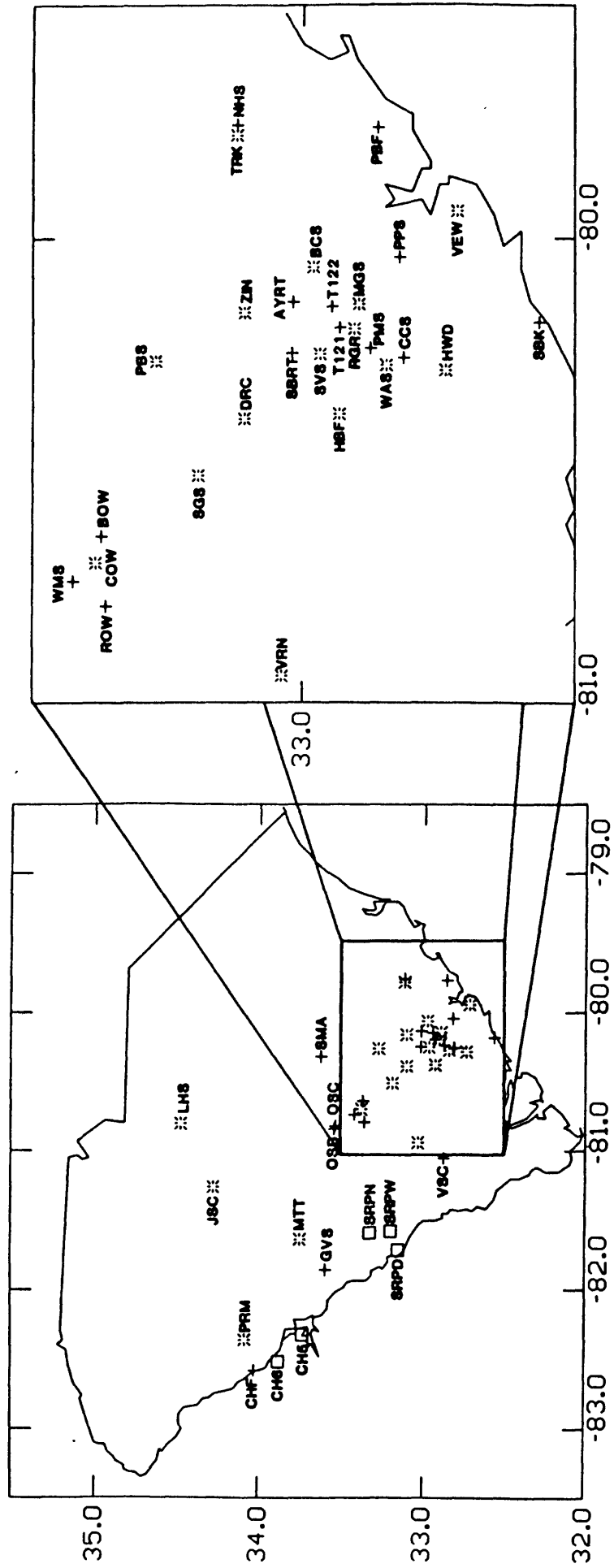


Figure 1. Map of the locations of the South Carolina seismic network (SCNET). Stars denote currently operating stations. Vertical crosses denote stations previously operating as part of the SCNET (see table I). Squares denote stations currently operated by the Savannah River Nuclear Power Plant or Georgia Institute of Technology.

# SCEVTS

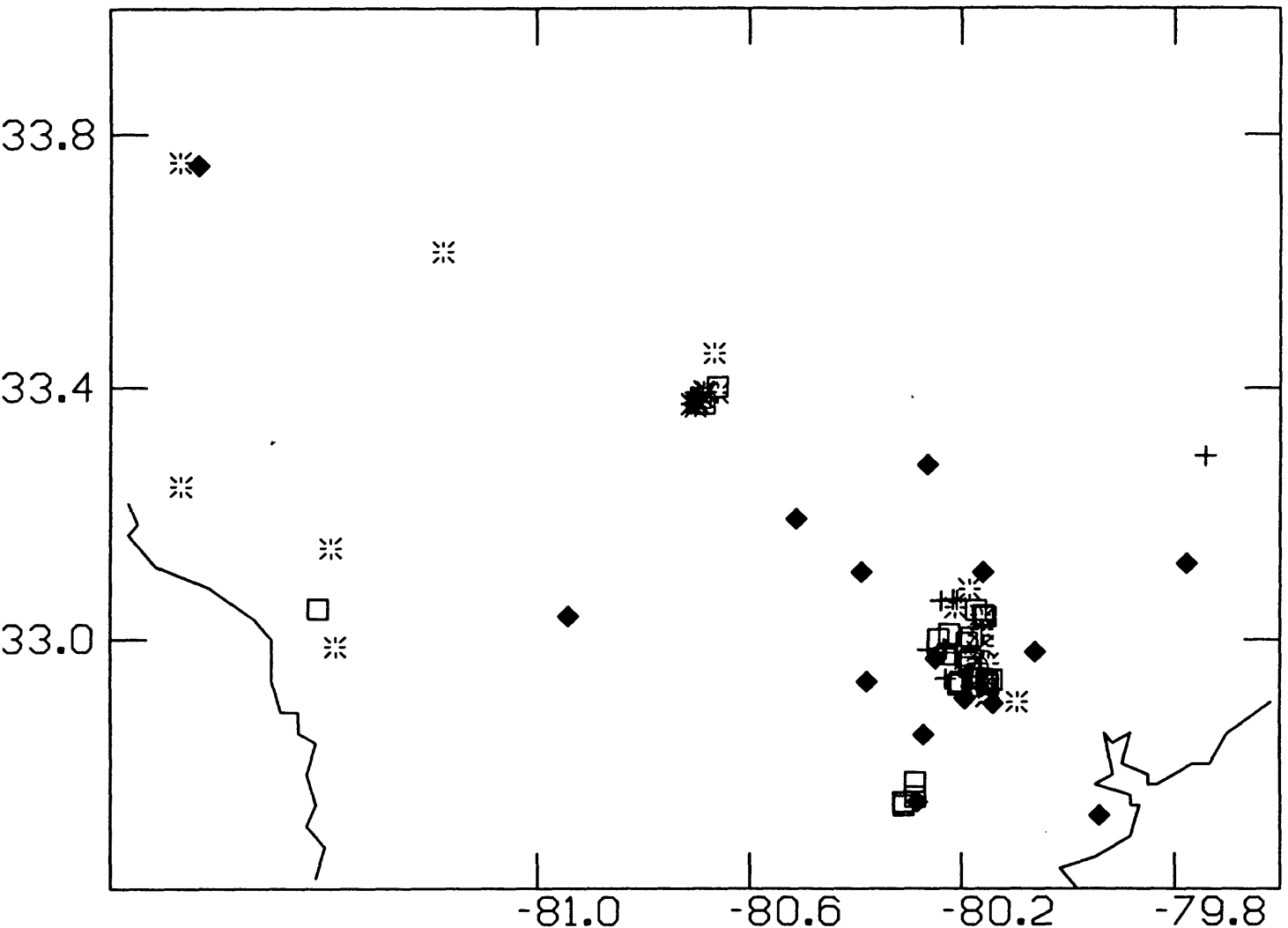


Figure 2. Map of locations of the 74 earthquakes recorded by the SCNET. The closed diamonds are currently operating stations of the SCNET. Stars denote the epicenters of earthquakes shallower than 5 km deep. Open boxes denote the epicenters of earthquakes located between 5 and 10 km deep. The locations of earthquakes deeper than 10 km are marked by vertical crosses. The cluster of epicenters near (33.4° N, 80.7° W) is the Bowman seismic zone (BSZ). The four earthquakes near (32.8° N, 80.3° W) make up the Adams Run seismic zone (ARSZ). The large cluster of epicenters centered on (33.0° N, 80.2° W) is the Middleton Place-Summerville seismic zone (MPSSZ).

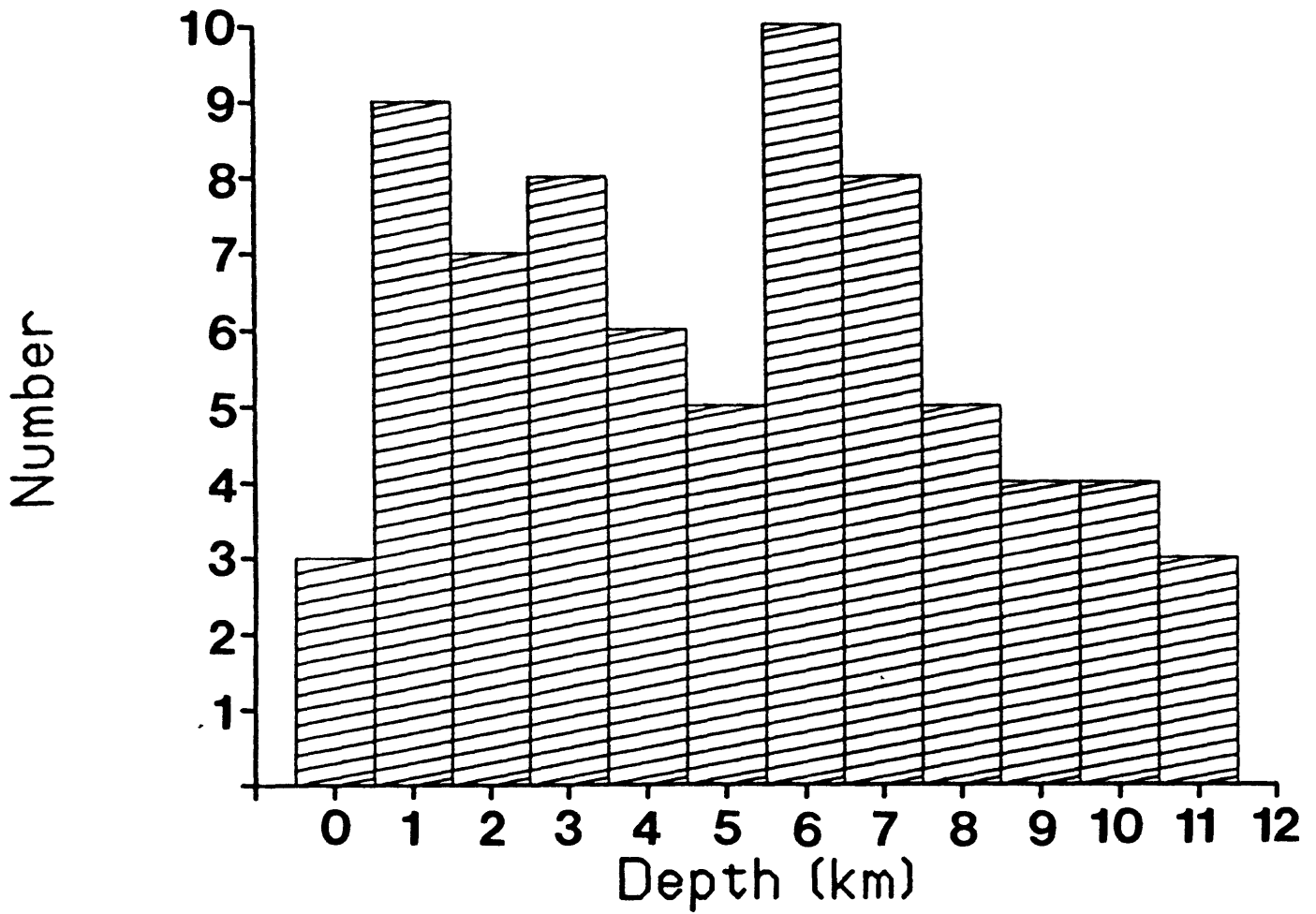
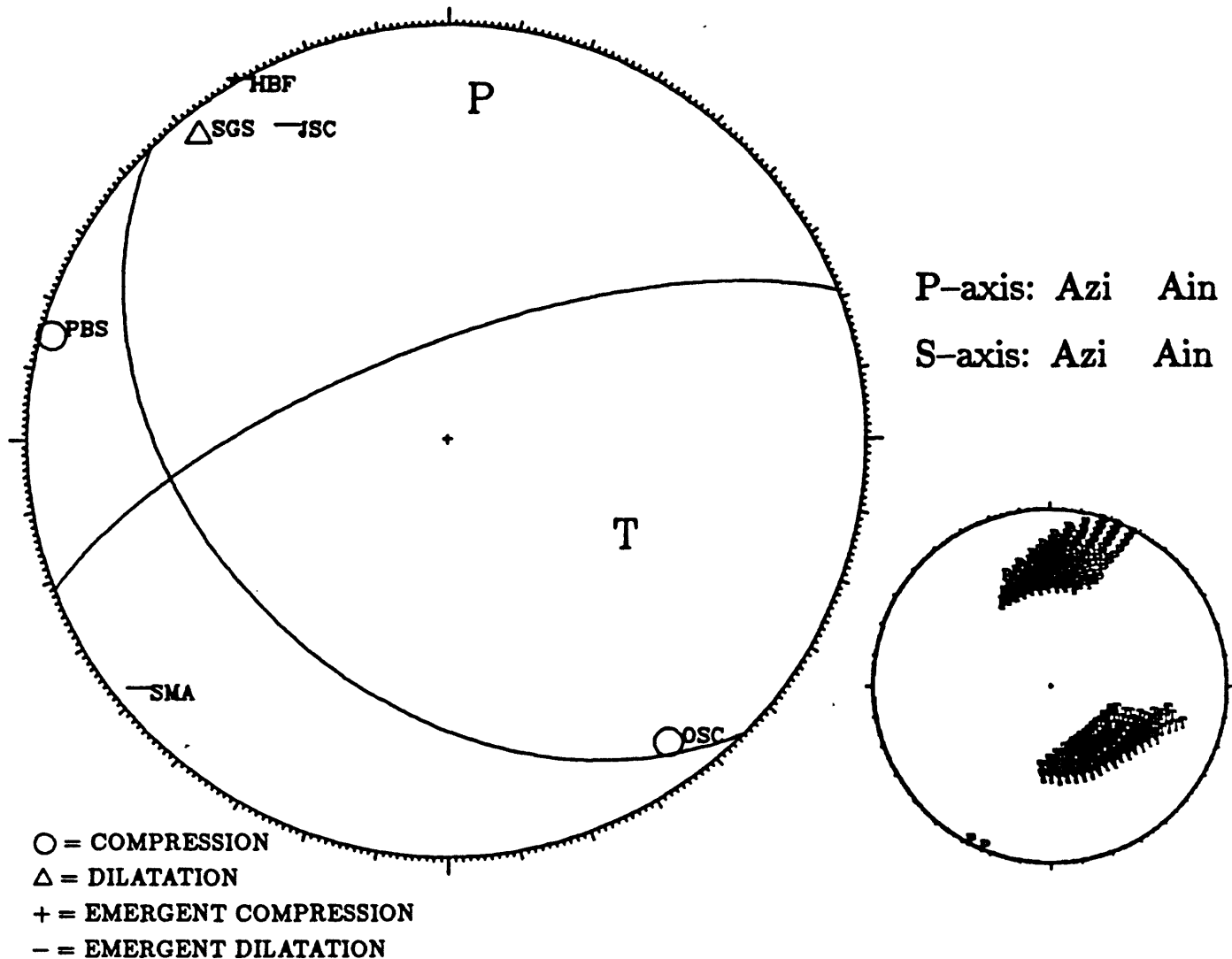


Figure 3. Histogram of the depths of 72 of the earthquakes. The earthquakes not included on this histogram occurred on 10-30-78 and 5- 3-81. They both have calculated depths greater than 14 km.

YRMODAHRMN SEC LAT LON DEPTH M<sub>L</sub> ★

Nodal planes: Strike Dip Rake Strike Dip Rake



STATION Distance (km) Azi Ain Phase info

Definitions:

Azi = Azimuth, Ain = Angle of incidence

Phase info includes:

Emergent or Impulsive

Phase weight in solution (0 highest)

★ = One of multiple solutions

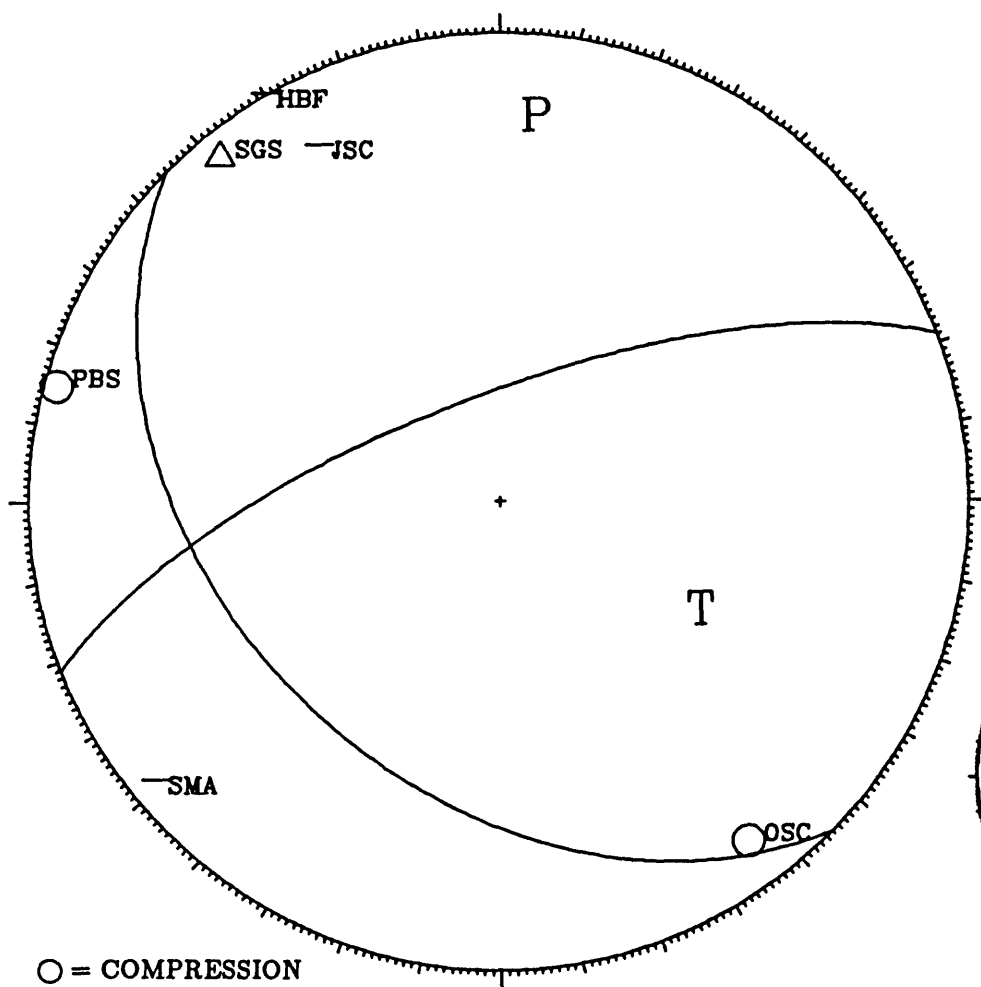
Figure 4. Template for all the fault-plane solutions that follow. A star at the end of the hypocenter coordinate line indicates that this solution is one of multiple solutions presented for this earthquake. The phase weight listed is the phase weight used in the hypocenter solution. A small vertical cross denotes the center of the large fault plane solution circle. The smaller circle contains other possible P and T axes consistent with the data.

**FIGURES 5 through 81**

Hypocenter and fault-plane solutions for earthquakes recorded by  
the SCNET, in chronological order.

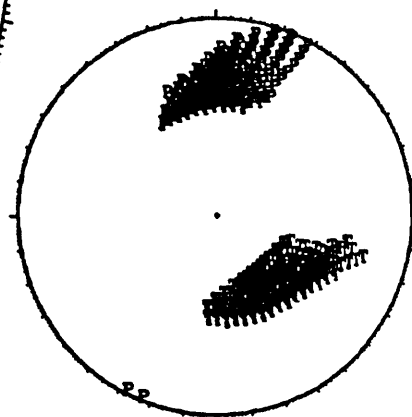
74 528 5 1 34.16 33.375 -80.686 6.71 1.70

135.0 40.0 150.0 248.9 71.3 54.0



5. 72.

118. 40.



○ = COMPRESSION

△ = DILATATION

+ = EMERGENT COMPRESSION

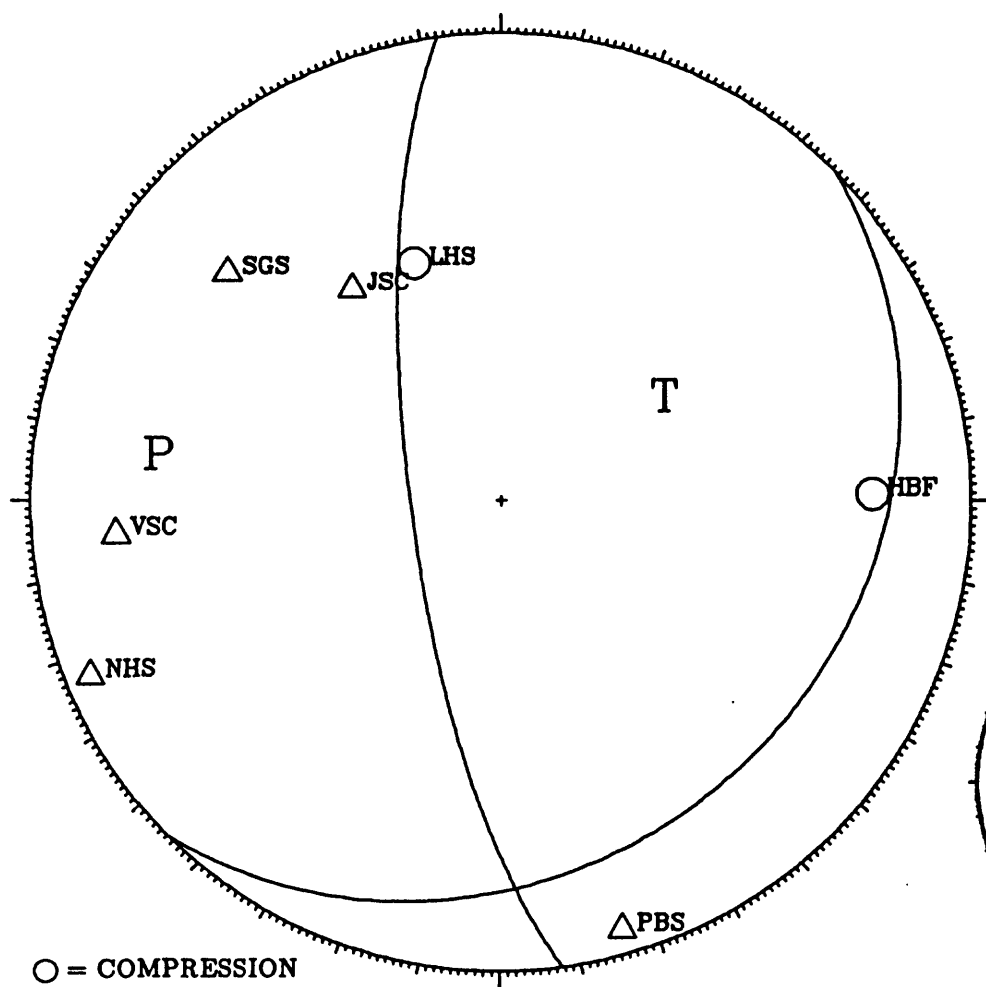
- = EMERGENT DILATATION

HBF	56.8	329	88	EP-0
JSC	113.1	332	72	EP-0
OSC	22.4	144	79	IPC0
PBS	40.7	285	87	IPC0
SGS	25.9	321	84	IPD0
SMA	44.3	230	86	EP-0



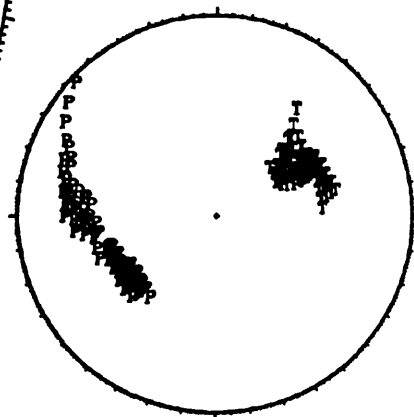
741122 525 55.97 32.935 -80.152 7.85 3.83

45.0 25.0 140.0 172.3 74.2 70.3



-82. 63.

57. 34.



○ = COMPRESSION

△ = DILATATION

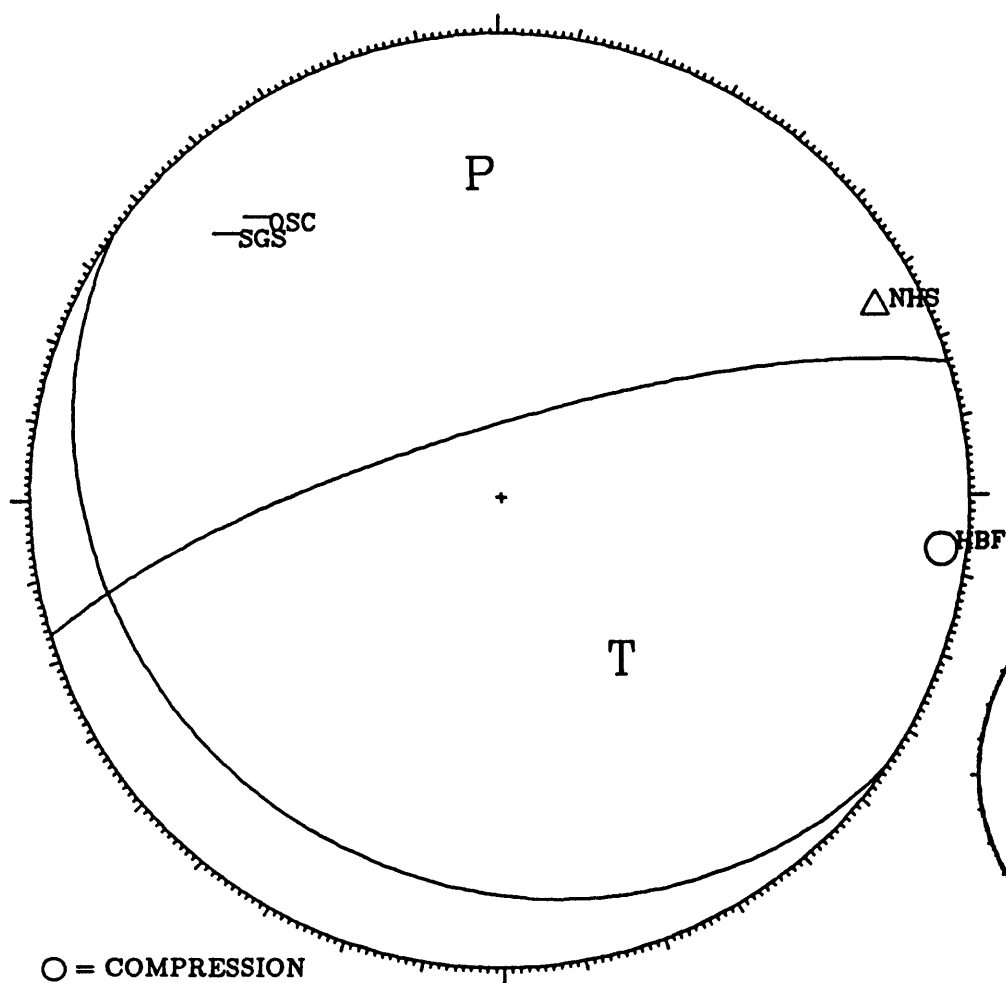
+ = EMERGENT COMPRESSION

- = EMERGENT DILATATION

HBF	21.1	89	68	IPC0
JSC	180.7	325	46	IPD0
LHS	181.7	340	45	IPC0
NHS	39.9	247	84	IPD0
PBS	39.6	164	84	IPD0
SGS	44.2	310	65	IPD0
VSC	84.2	265	71	IPD0

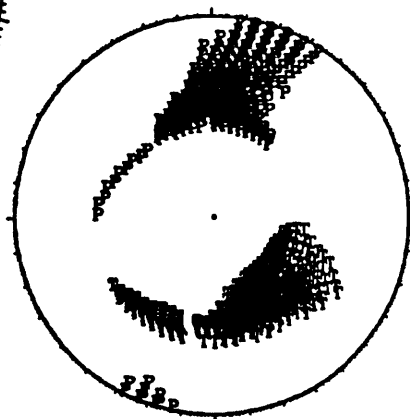
741122 622 44.30 32.908 -80.153 4.22 2.65

125.0 20.0 140.0 253.3 77.3 74.4



-4. 59.

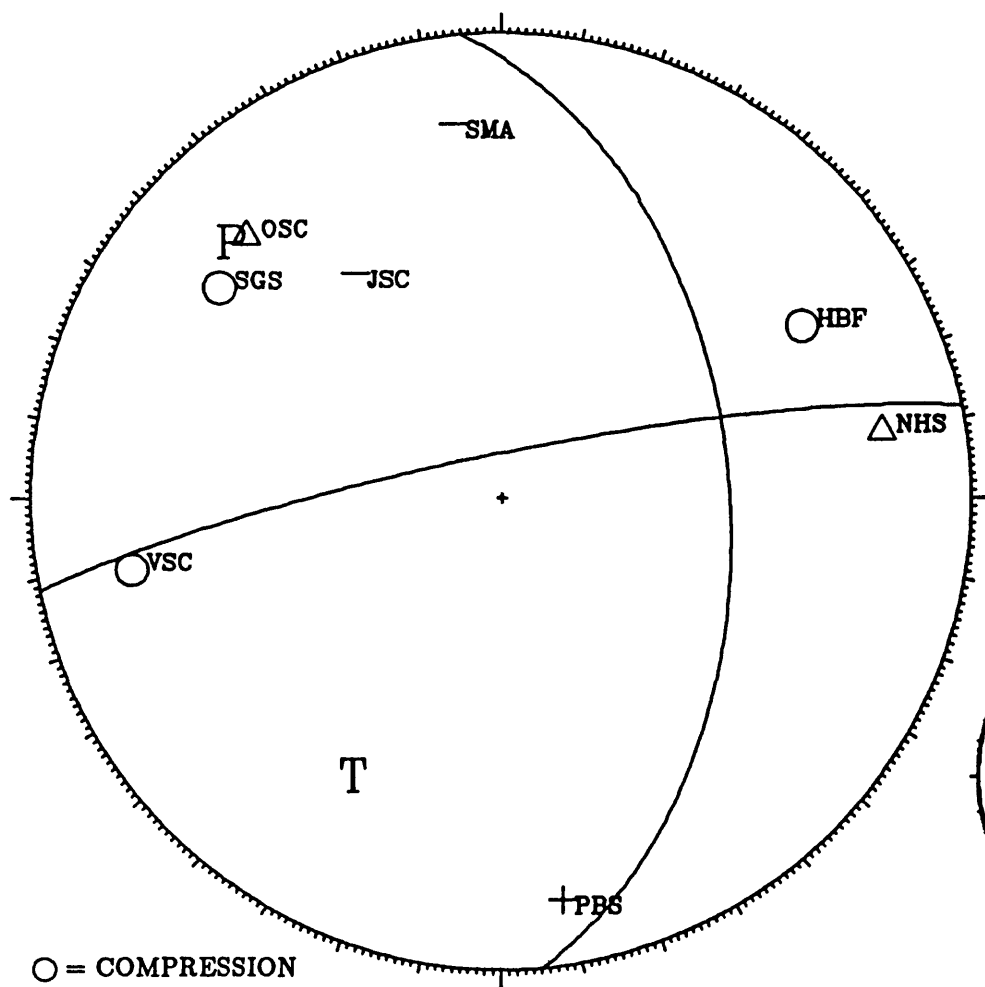
144. 35.



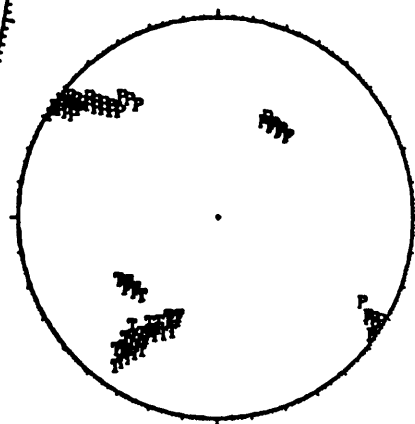
○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

HBF	21.2	97	84	IPC0
NHS	41.3	63	79	IPD0
OSC	94.0	318	67	EP-3
SGS	46.1	313	69	EP-0

75 428 546 52.26 33.008 -80.223 9.23 3.11★  
 -5.0 50.0 10.0 258.5 82.4 139.6



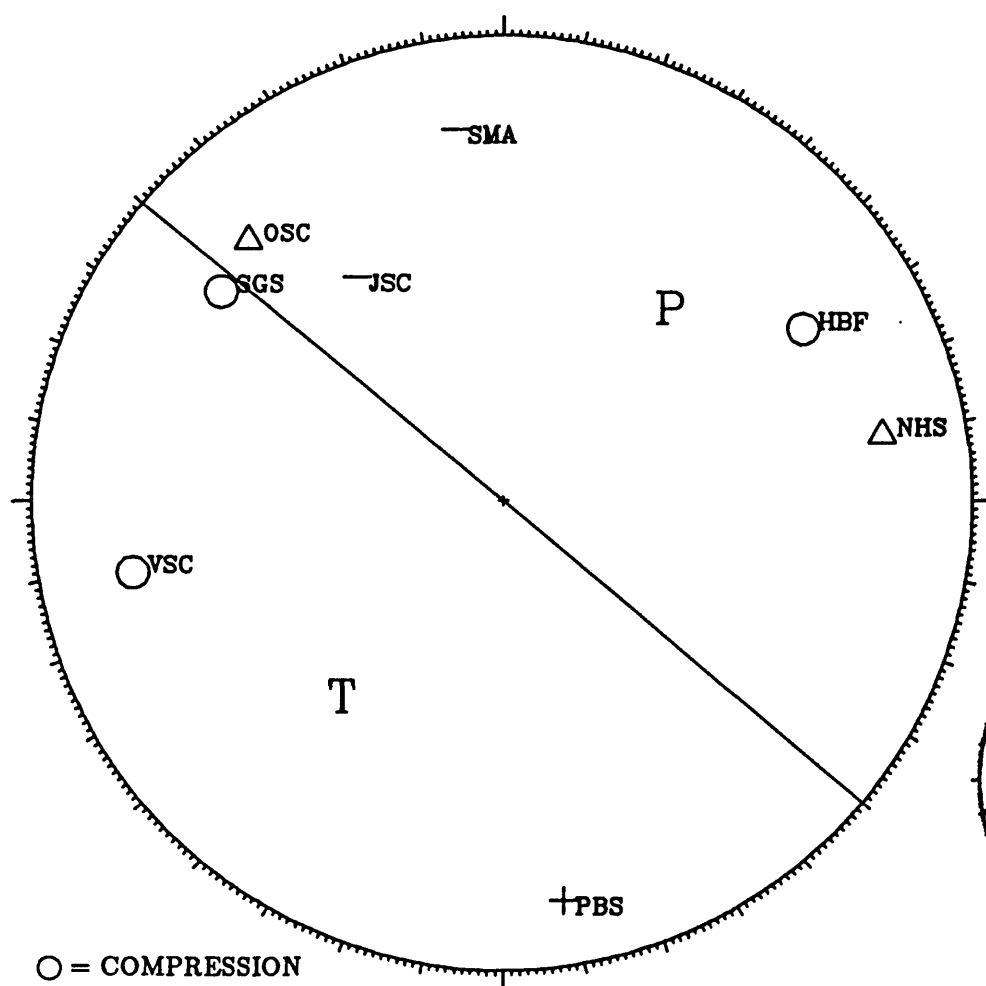
-47. 69.  
 209. 57.



○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

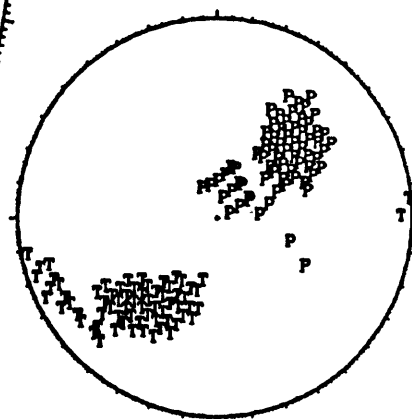
HBF	16.7	60	63	IPC0
JSC	170.3	325	46	EP-0
NHS	44.2	80	71	IPD0
OSC	81.4	316	67	IPD0
PBS	30.3	172	78	EP+0
SGS	33.9	307	64	IPC0
SMA	69.3	352	67	EP-2
VSC	78.7	259	69	IPC0

75 428 546 52.26 33.008 -80.223 9.23 3.11★  
-50.0 90.0 90.0 -5.0 0.0 45.0



40. 45.

220. 45.

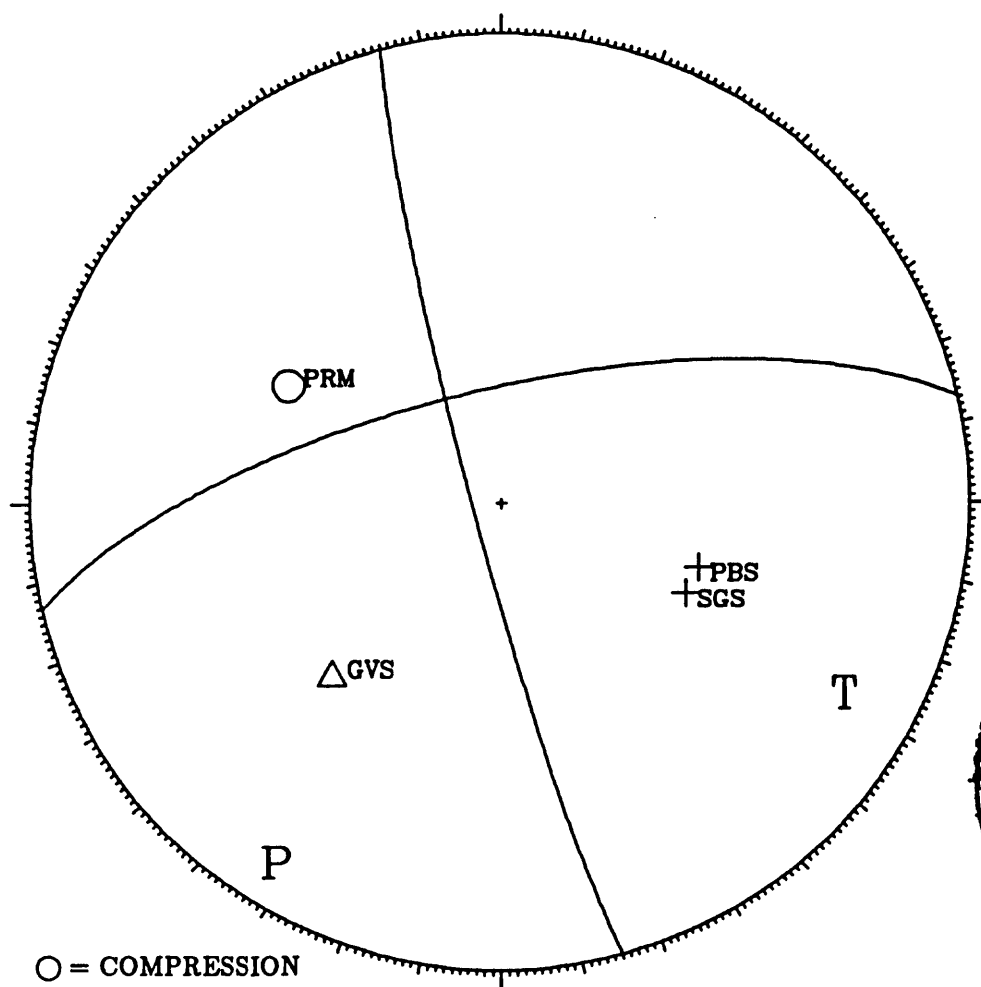


○ = COMPRESSION  
△ = DILATATION  
+ = EMERGENT COMPRESSION  
- = EMERGENT DILATATION

HBF	16.7	60	63	IPC0
JSC	170.3	325	46	EP-0
NHS	44.2	80	71	IPD0
OSC	81.4	316	67	IPD0
PBS	30.3	172	78	EP+0
SGS	33.9	307	64	IPC0
SMA	69.3	352	67	EP-2
VSC	78.7	259	69	IPC0

76 428 615 53.26 33.756 -81.671 0.38 1.82

165.0 85.0 160.0 256.8 70.1 5.3



213. 80.

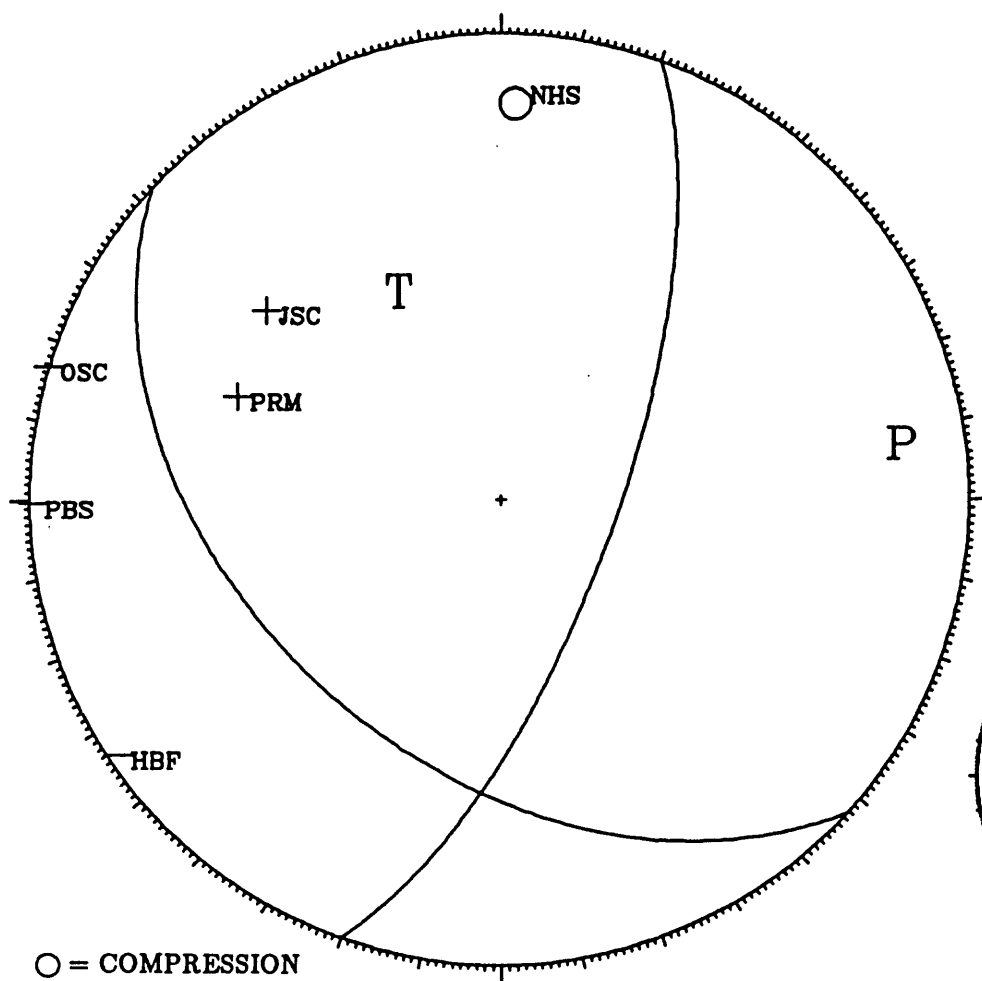
119. 72.



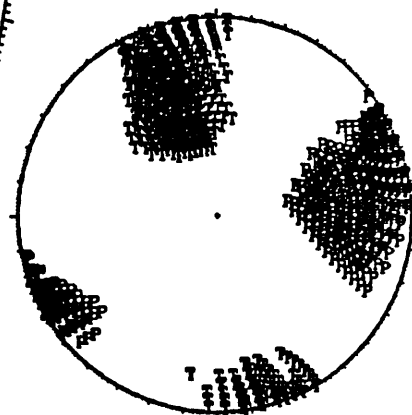
○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

GVS	24.6	224	43	IPD0
PBS	140.8	112	37	EP+0
PRM	73.1	299	43	IPC0
SGS	124.2	120	37	EP+0

76 4 62142 35.90 33.294 -79.742 10.18 2.18  
 20.0 70.0 130.0 132.2 44.0 29.5



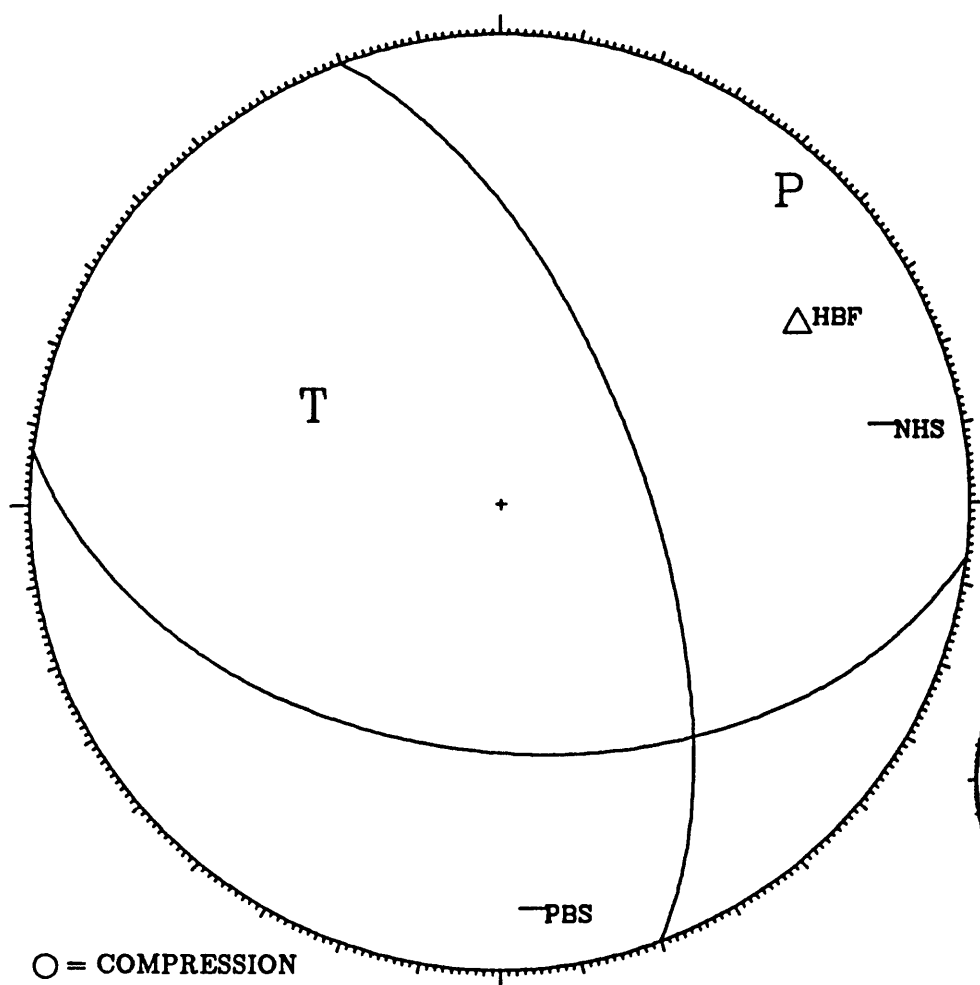
82. 75.  
 333. 41.



○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

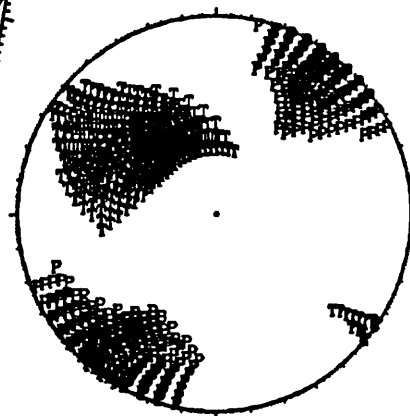
HBF	71.5	55	90	EP-2
JSC	177.8	307	53	EP+3
NHS	24.6	2	74	IPC2
OSC	104.4	105	90	EP-3
PBS	48.6	88	90	EP-2
PRM	257.8	289	50	EP+2

76 7 3 928 42.40    33.000    -80.244    8.90    1.09  
-20.0    65.0    130.0    96.7    46.0    36.0



42. 79.

298. 38.

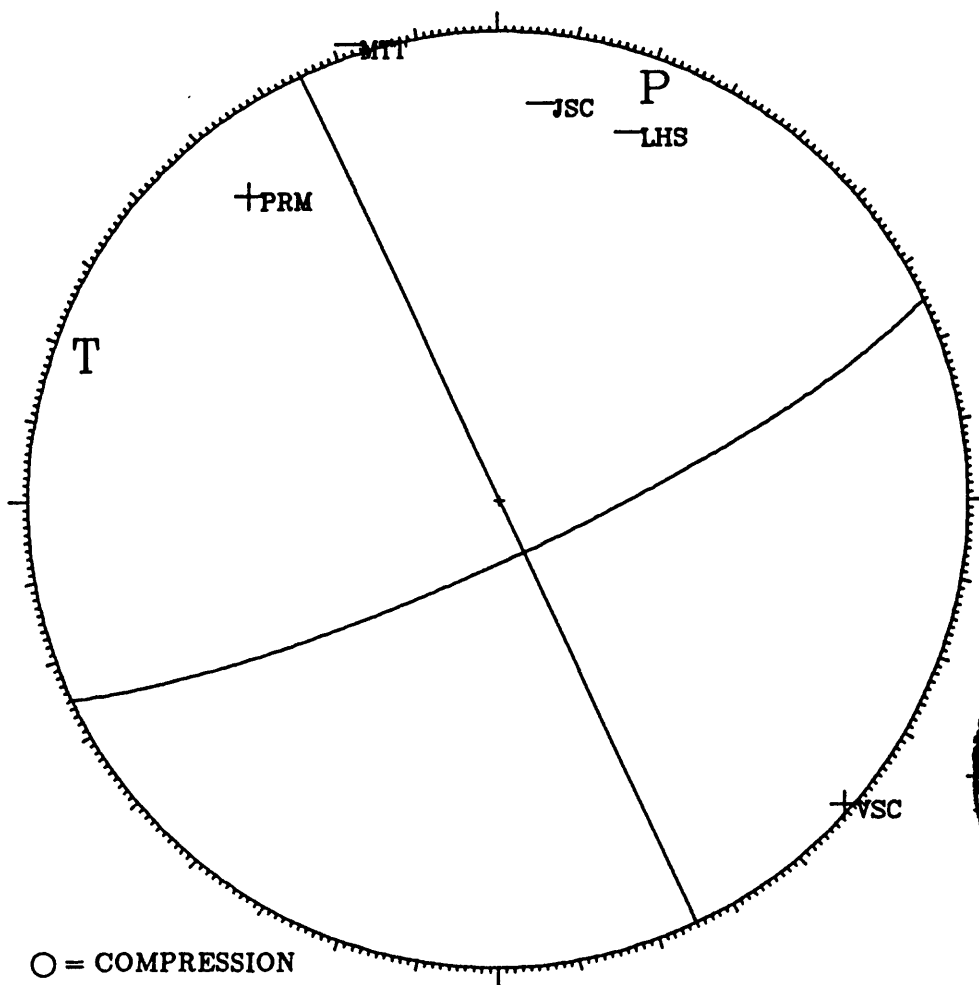


○ = COMPRESSION  
△ = DILATATION  
+ = EMERGENT COMPRESSION  
- = EMERGENT DILATATION

HBF	14.6	59	63	IPD0
NHS	46.3	80	71	EP-0
PBS	31.0	176	79	EP-0

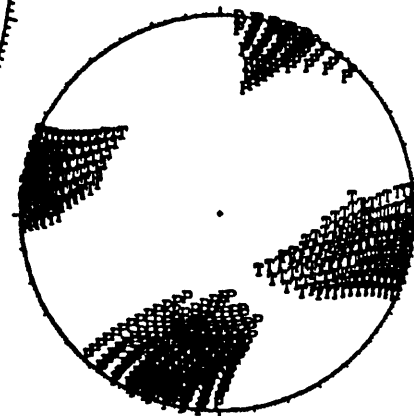
76 915 515 35.17 33.146 -81.389 2.21 2.45

-25.0 90.0 170.0 65.0 80.0 0.0



20. 83.

290. 83.



○ = COMPRESSION

△ = DILATATION

+ = EMERGENT COMPRESSION

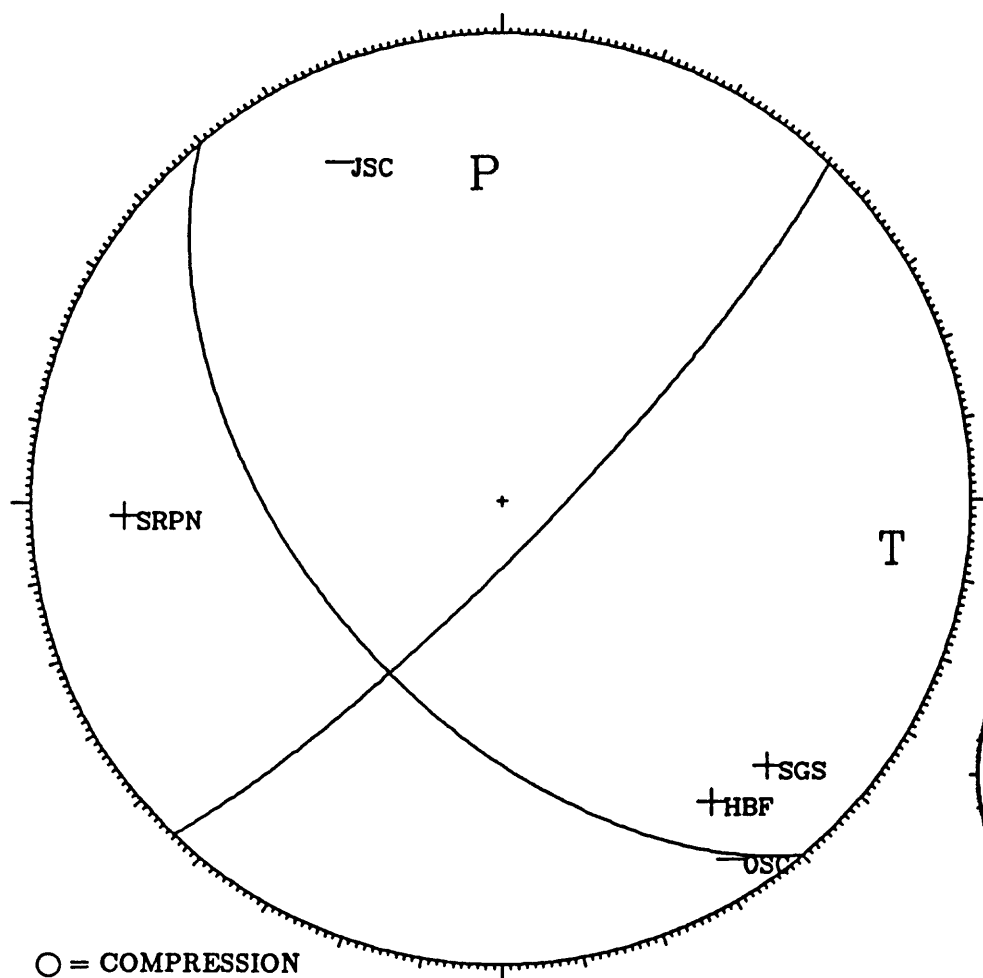
- = EMERGENT DILATATION

JSC	126.3	6	71	EP-3
LHS	157.7	20	69	EP-3
MTT	70.7	161	90	EP-2
PRM	136.8	319	71	EP+3
VSC	43.2	313	90	EP+2



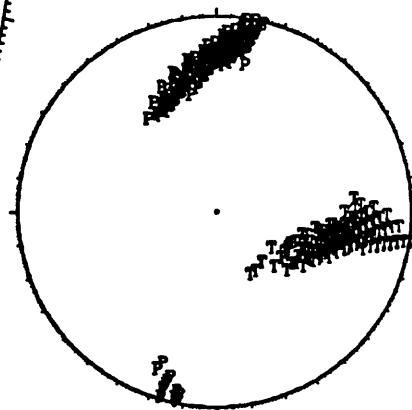
76 922 844 34.20 33.374 -80.710 4.60 1.77 ★

140.0 55.0 -170.0 44.2 81.8 -35.4



356. 60.

97. 72.



○ = COMPRESSION

△ = DILATATION

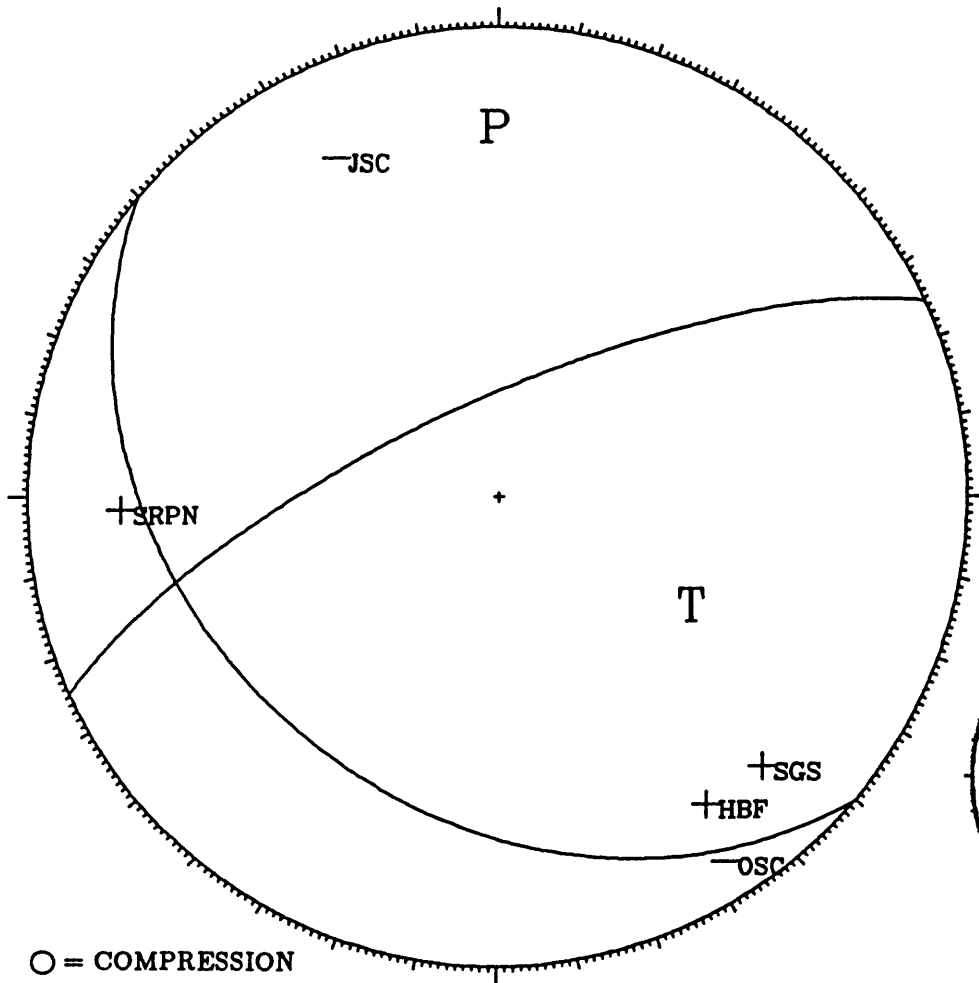
+ = EMERGENT COMPRESSION

- = EMERGENT DILATATION

HBF	57.9	147	70	EP+0
JSC	112.2	333	67	EP-0
OSC	21.3	149	83	EP-0
SGS	27.2	137	71	EP+0
SRPN	82.0	266	70	EP+0

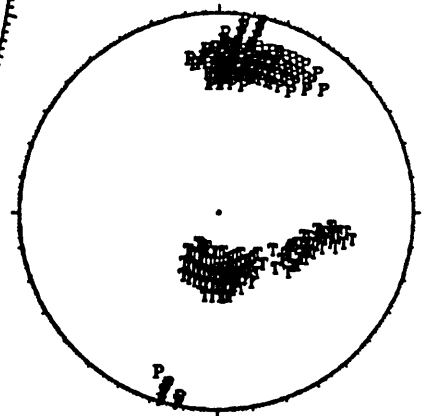
76 922 844 34.20 33.374 -80.710 4.60 1.77★

130.0 35.0 150.0 245.3 73.3 58.8



-1. 68.

119. 39.



○ = COMPRESSION

△ = DILATATION

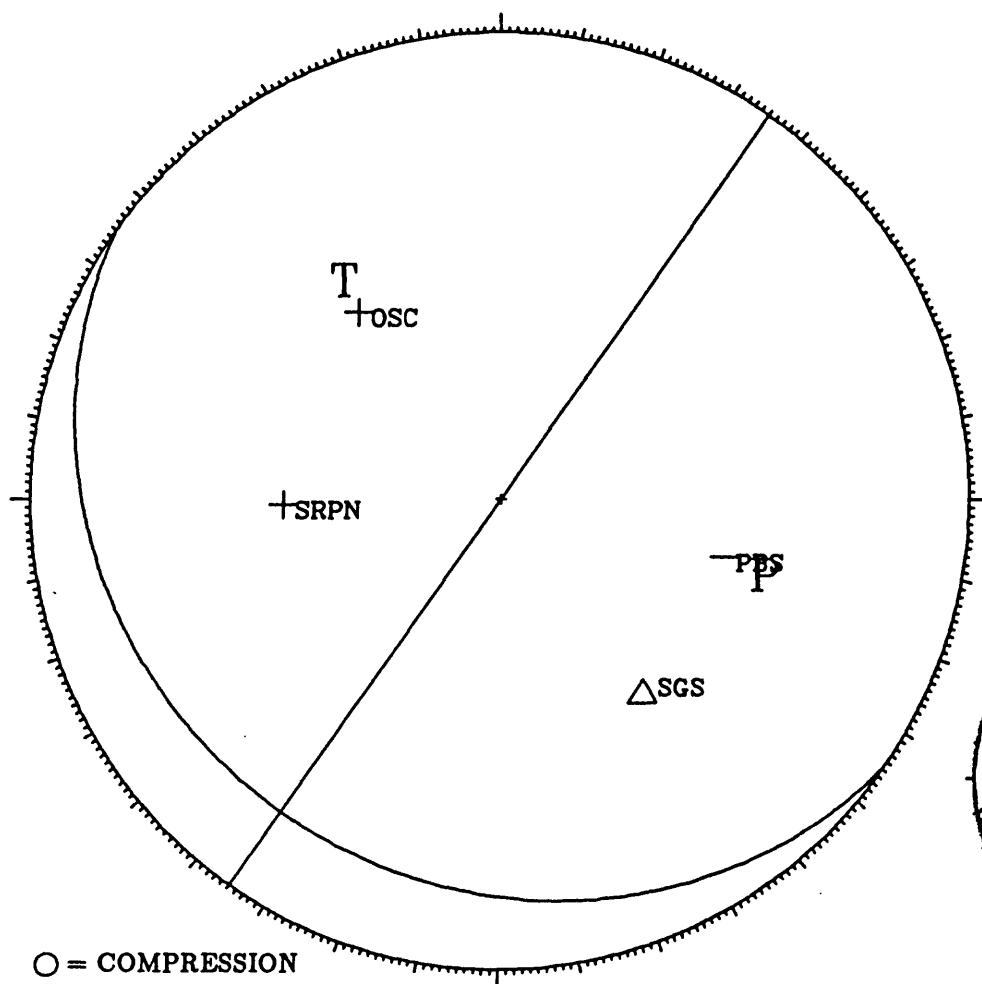
+ = EMERGENT COMPRESSION

- = EMERGENT DILATATION

HBF	57.9	147	70	EP+0
JSC	112.2	333	67	EP-0
OSC	21.3	149	83	EP-0
SGS	27.2	137	71	EP+0
SRPN	82.0	266	70	EP+0

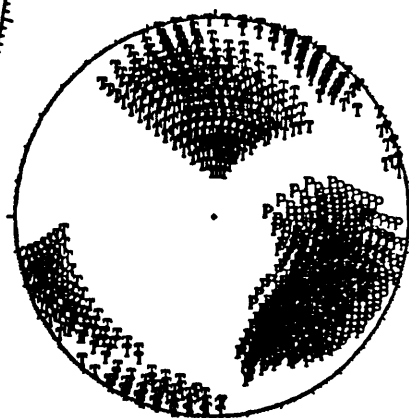
76 922 852 21.07 33.393 -80.681 1.83 0.79

35.0 90.0 110.0 125.0 20.0 0.0



106. 48.

324. 48.



○ = COMPRESSION

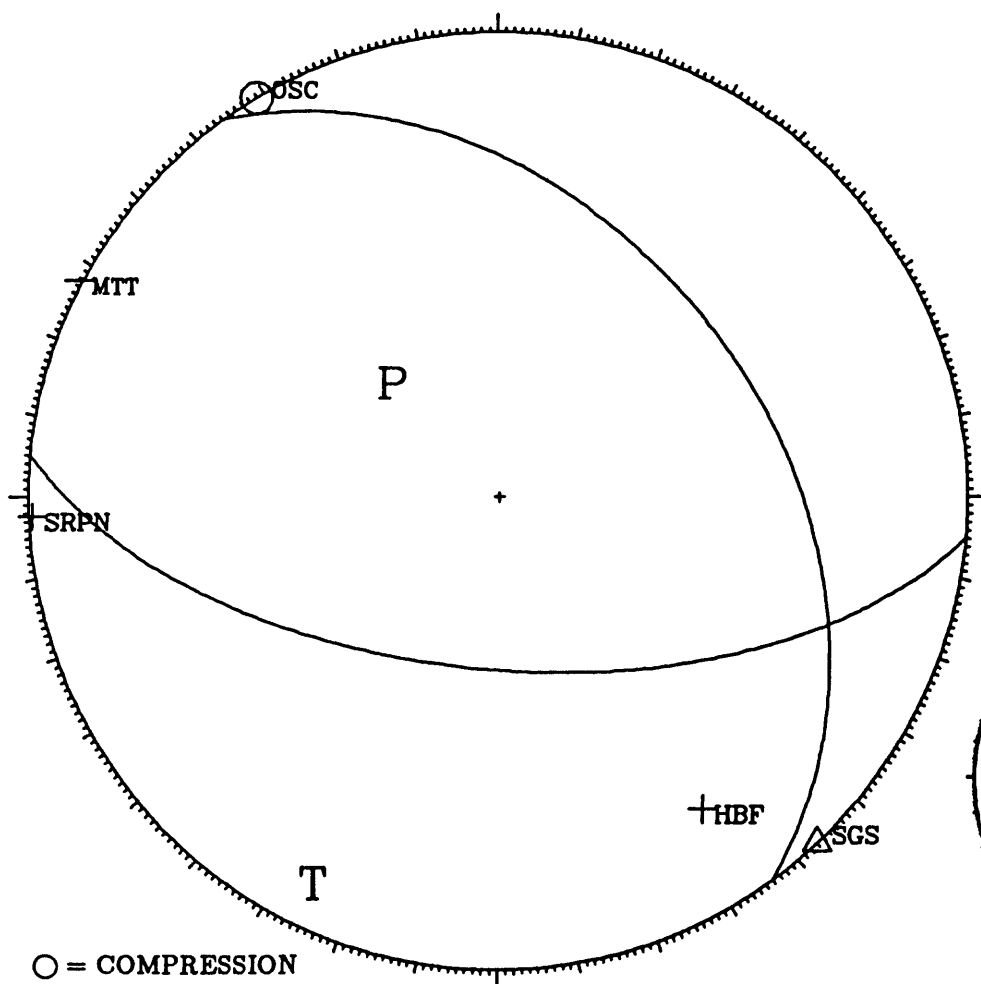
△ = DILATATION

+ = EMERGENT COMPRESSION

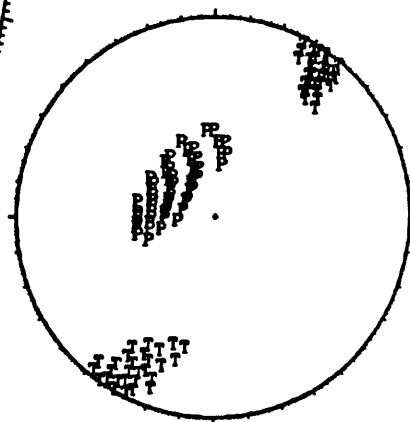
- = EMERGENT DILATATION

OSC	21.1	320	40	EP+0
PBS	40.8	108	41	EP-0
SGS	27.2	144	43	IPD2
SRPN	84.8	265	39	EP+0

76 922 914 13.97 33.370 -80.703 2.04 1.08  
 95.0 60.0 -120.0 -35.9 41.4 -49.1



316. 28.  
 206. 80.

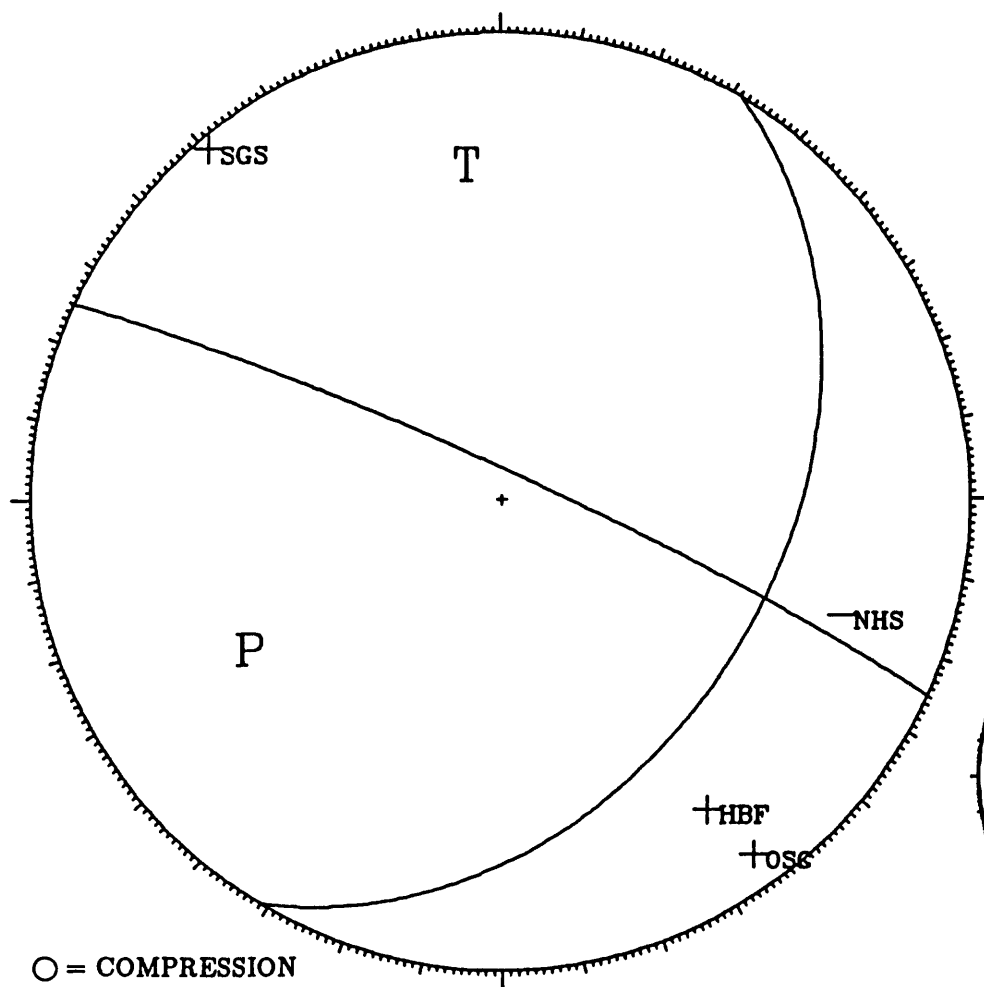


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

HBF	57.1	148	70	EP+0
MTT	96.1	116	90	EP-0
OSC	22.0	149	90	IPC0
SGS	26.5	317	90	IPD0
SRPN	82.6	86	90	EP+0

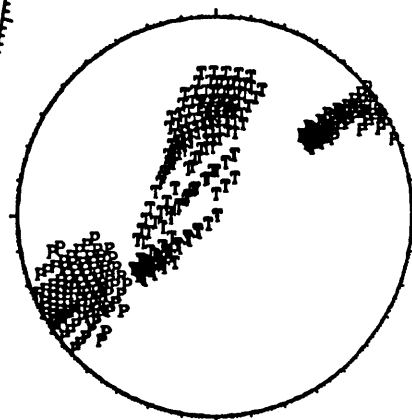
76 923 540 10.37 33.377 -80.698 4.42 1.12★

-65.0 85.0 -50.0 30.9 40.3 -172.2



240. 53.

354. 61.



○ = COMPRESSION

△ = DILATATION

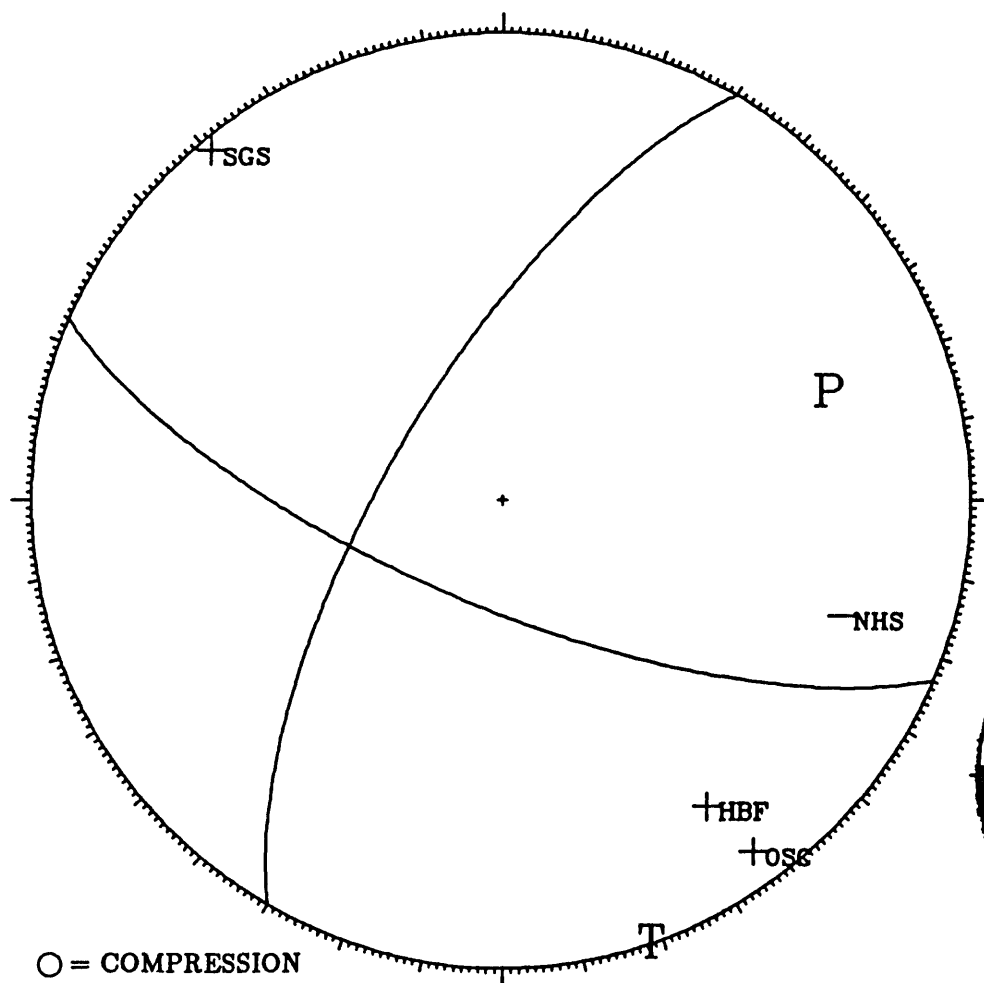
+ = EMERGENT COMPRESSION

- = EMERGENT DILATATION

HBF	57.6	148	70	EP+2
NHS	94.2	111	66	EP-3
OSC	21.6	146	84	EP+0
SGS	26.7	319	85	EP+2

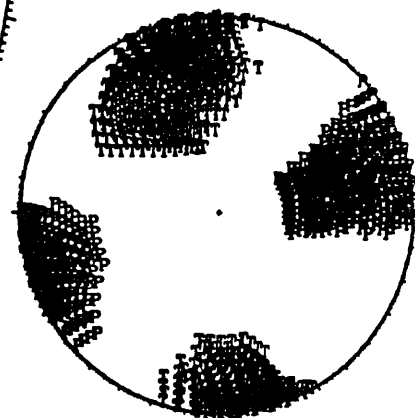
76 923 540 10.37 33.377 -80.698 4.42 1.12★

210.0 70.0 -160.0 112.9 71.3 -21.2



71. 62.

162. 89.



○ = COMPRESSION

△ = DILATATION

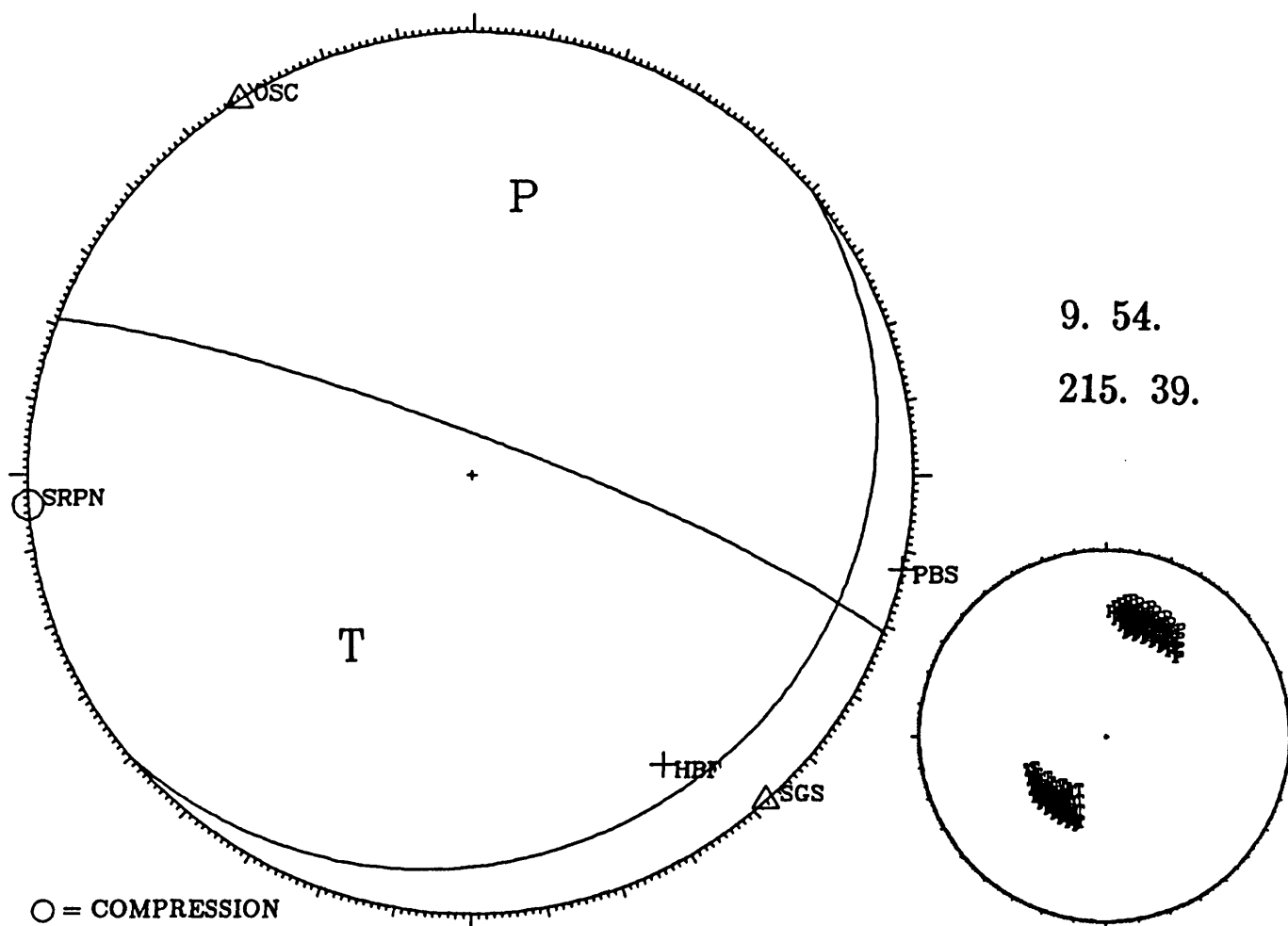
+ = EMERGENT COMPRESSION

- = EMERGENT DILATATION

<b>HBF</b>	57.6	148	70	EP+2
<b>NHS</b>	94.2	111	66	EP-3
<b>OSC</b>	21.6	146	84	EP+0
<b>SGS</b>	26.7	319	85	EP+2

7611211331 46.37 33.377 -80.703 2.20 1.30 ★

50.0 15.0 30.0 -69.1 82.6 103.1



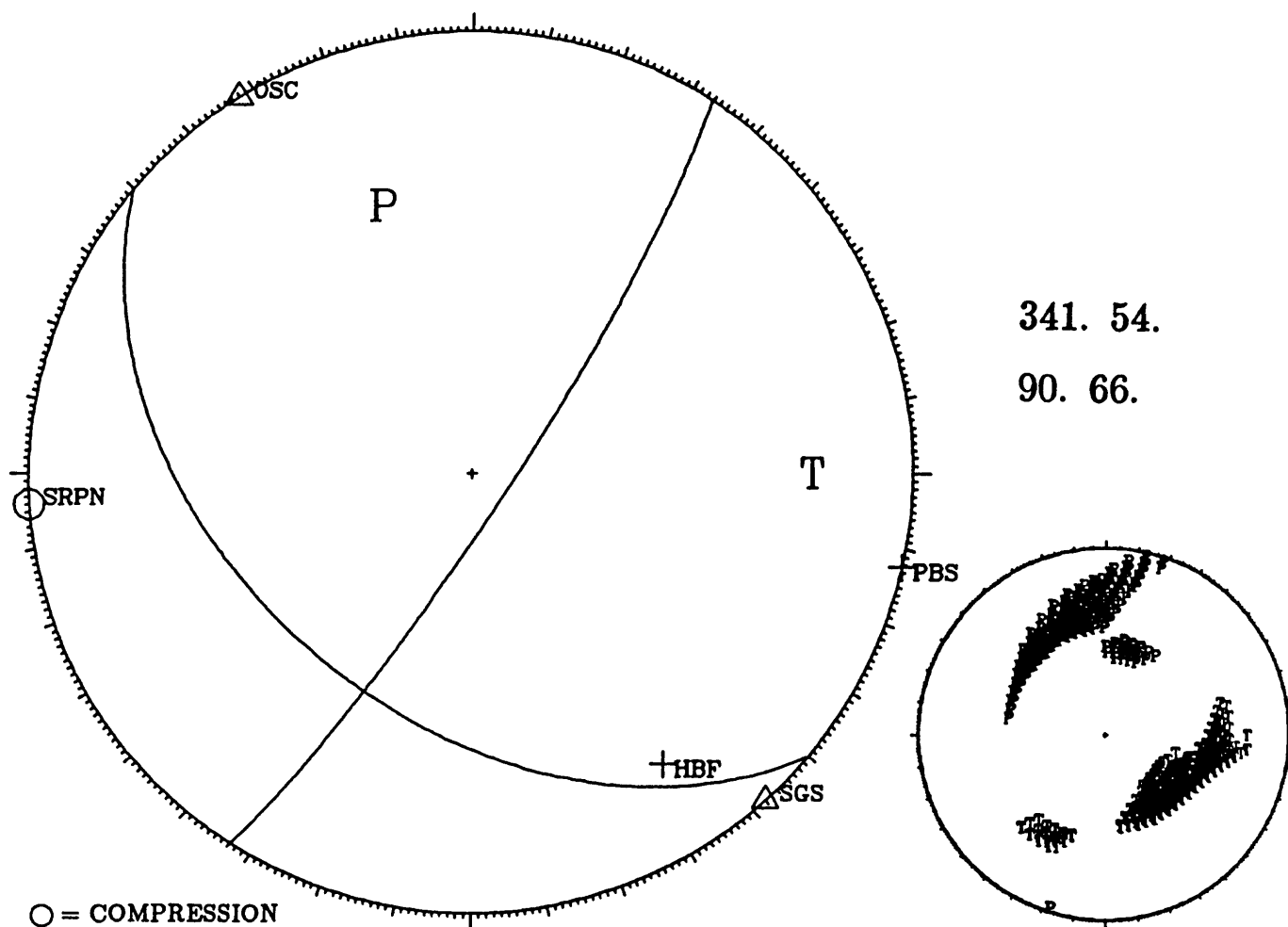
9. 54.

215. 39.

○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

HBF	57.8	148	70	EP+0
OSC	21.3	148	90	IPD0
PBS	42.3	284	90	EP+0
SGS	27.0	318	90	IPD0
SRPN	82.7	86	90	IPC0

7611211331 46.37 33.377 -80.703 2.20 1.30★  
 130.0 45.0 -170.0 32.9 82.9 -45.4



341. 54.  
 90. 66.

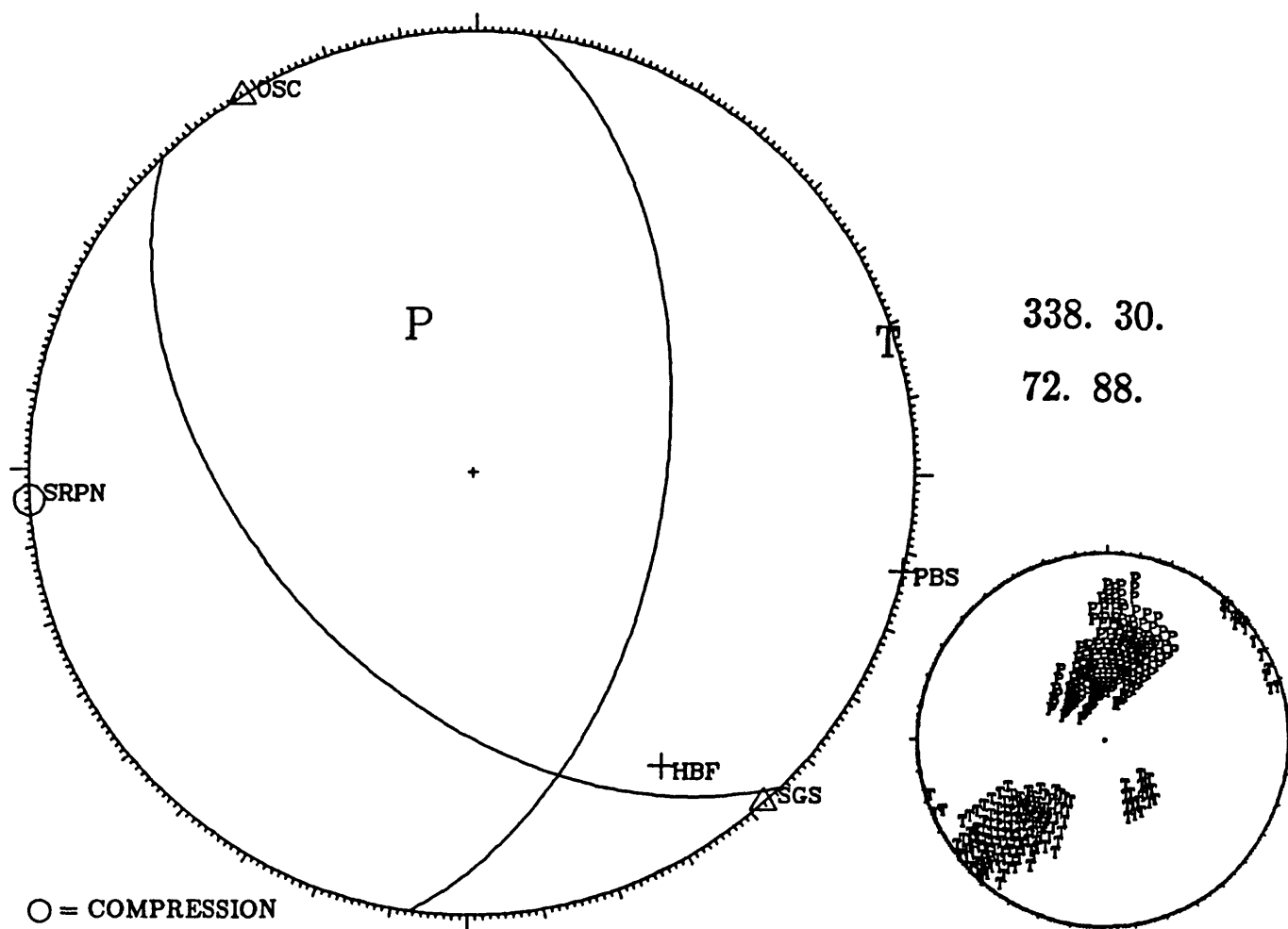
○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

HBF	57.8	148	70	EP+0
OSC	21.3	148	90	IPD0
PBS	42.3	284	90	EP+0
SGS	27.0	318	90	IPD0
SRPN	82.7	86	90	IPC0



7611211331 46.37 33.377 -80.703 2.20 1.30★

135.0 50.0 -130.0 7.5 54.1 -52.5

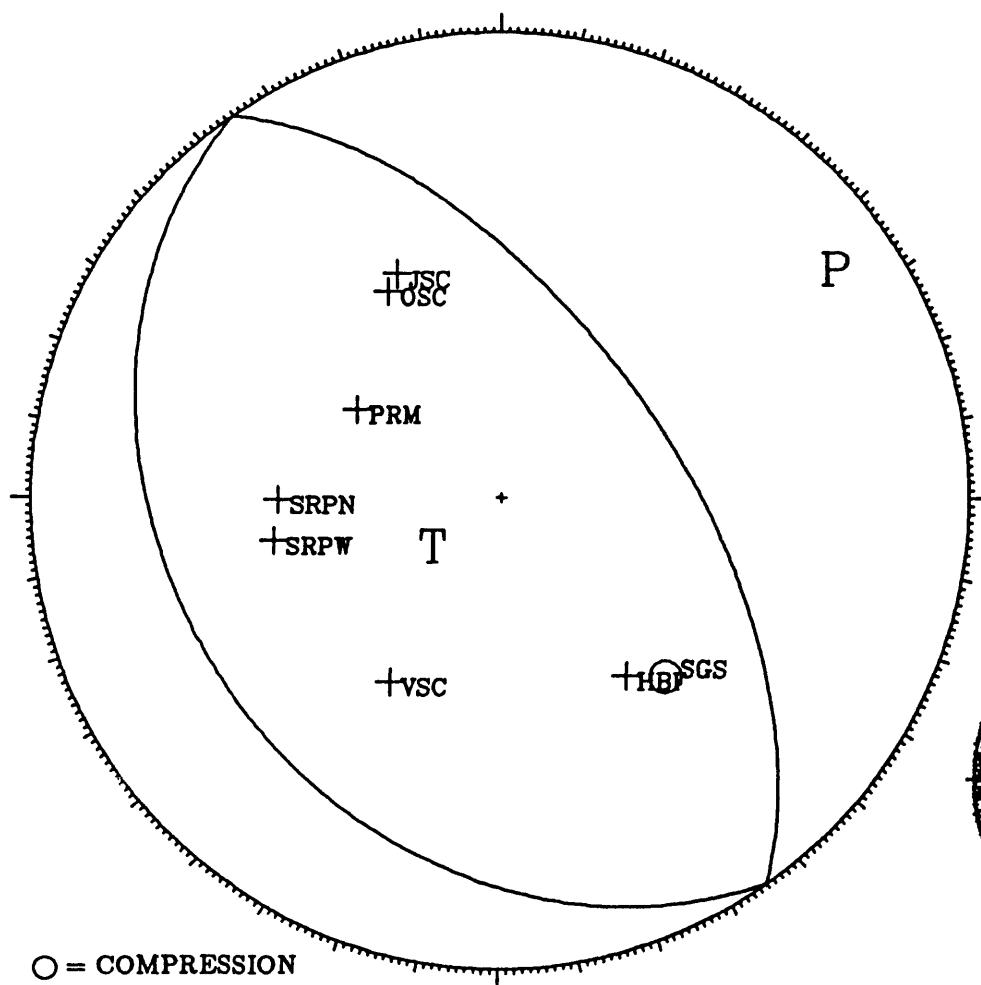


O = COMPRESSION  
 Δ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

HBF	57.8	148	70	EP+0
OSC	21.3	148	90	IPD0
PBS	42.3	284	90	EP+0
SGS	27.0	318	90	IPD0
SRPN	82.7	86	90	IPC0

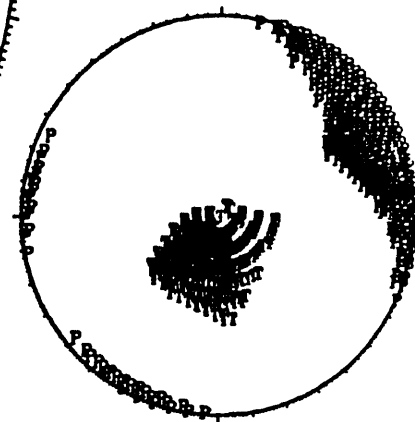
761122 030 51.28 33.374 -80.710 1.77 1.88

145.0 30.0 90.0 -35.0 60.0 90.0



55. 75.

235. 15.



○ = COMPRESSION

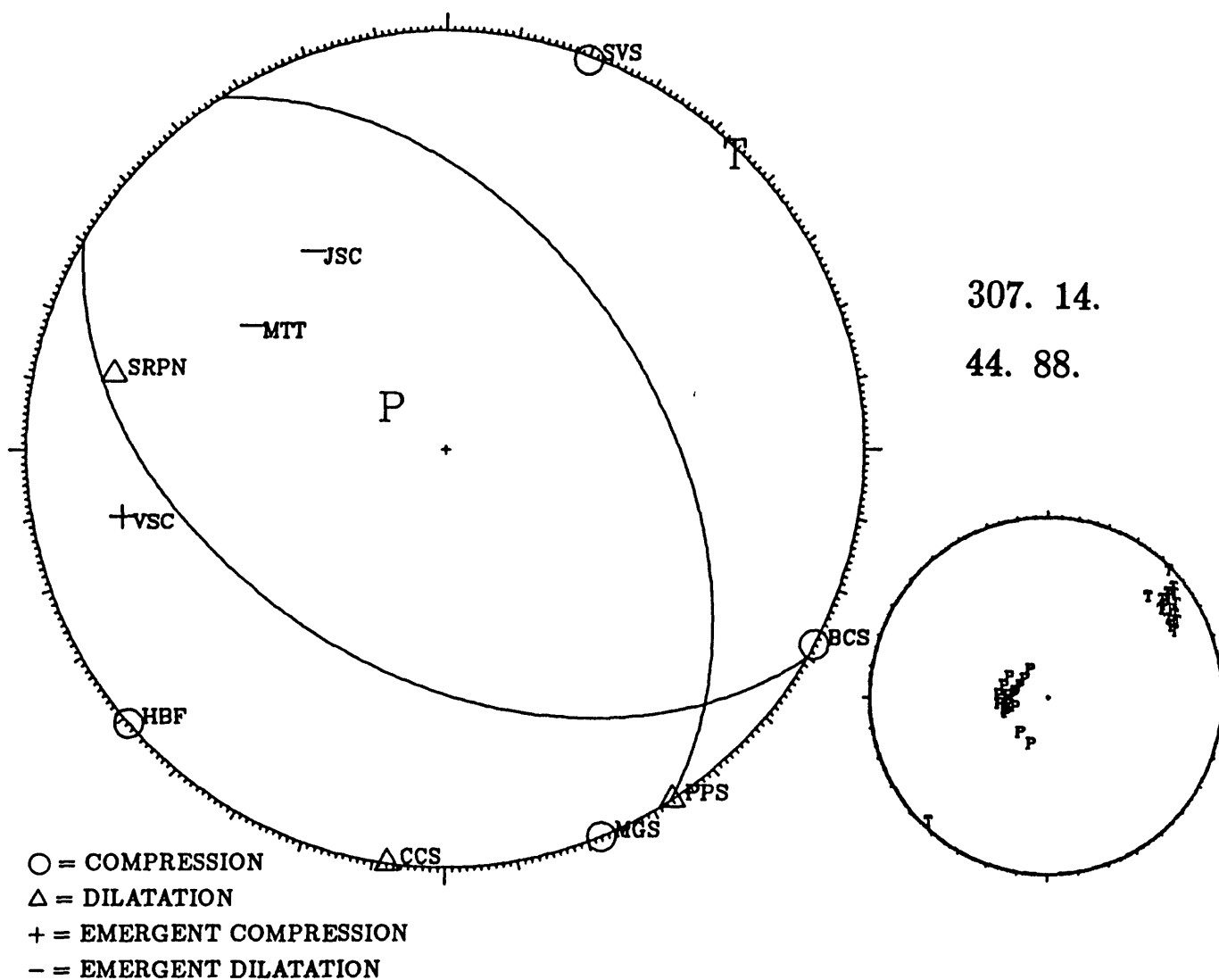
△ = DILATATION

+ = EMERGENT COMPRESSION

- = EMERGENT DILATATION

HBF	57.9	147	40	EP+0
JSC	112.2	333	42	EP+0
OSC	21.3	329	40	EP+0
PRM	171.5	297	29	EP+3
SGS	27.2	137	43	IPC0
SRPN	82.0	266	40	EP+0
SRPW	83.2	256	42	EP+2
VSC	63.5	210	40	EP+0

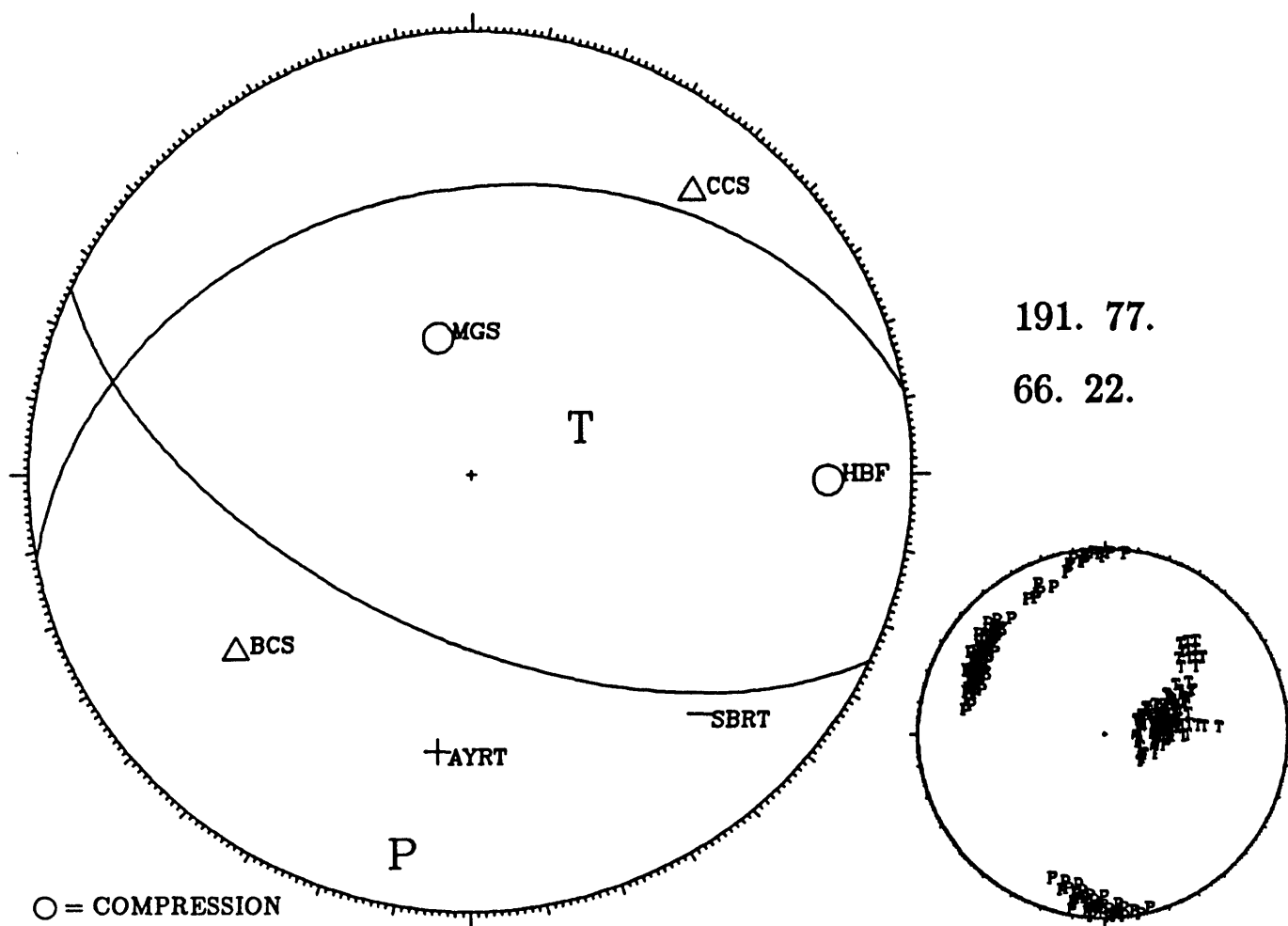
120.0      45.0      -110.0                      -32.8      48.4      -71.1



<b>BCS</b>	<b>16.1</b>	<b>298</b>	<b>90</b>	<b>IPC0</b>
<b>CCS</b>	<b>26.4</b>	<b>8</b>	<b>90</b>	<b>IPD0</b>
<b>HBF</b>	<b>20.3</b>	<b>49</b>	<b>90</b>	<b>IPC0</b>
<b>JSC</b>	<b>167.0</b>	<b>324</b>	<b>46</b>	<b>EP-2</b>
<b>MGS</b>	<b>18.3</b>	<b>338</b>	<b>90</b>	<b>IPC0</b>
<b>MTT</b>	<b>153.3</b>	<b>300</b>	<b>45</b>	<b>EP-3</b>
<b>PPS</b>	<b>29.9</b>	<b>327</b>	<b>90</b>	<b>IPD0</b>
<b>SRPN</b>	<b>131.9</b>	<b>283</b>	<b>70</b>	<b>IPD0</b>
<b>SVS</b>	<b>9.7</b>	<b>20</b>	<b>89</b>	<b>IPC0</b>
<b>VSC</b>	<b>80.7</b>	<b>256</b>	<b>69</b>	<b>EP+3</b>

77 120 4 5 45.26 32.927 -80.149 7.86 1.91★

115.0 60.0 110.0 258.9 35.5 59.4



191. 77.

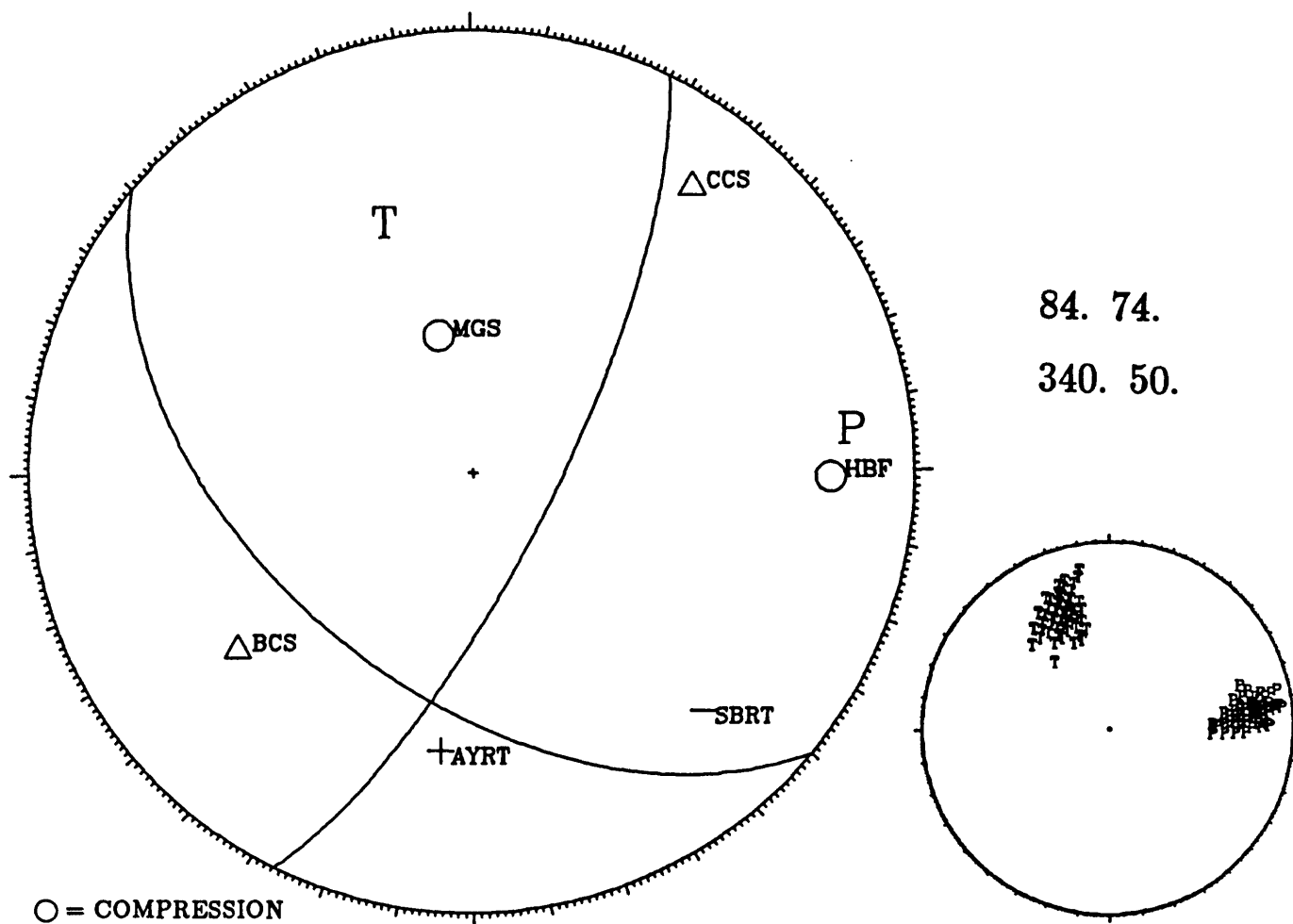
66. 22.

○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

AYRT	10.2	187	56	EP+0
BCS	10.1	233	56	IPD0
CCS	15.8	38	70	IPD0
HBF	21.4	91	70	IPC0
MGS	3.4	346	26	IPC0
SBRT	13.8	138	66	IP-0

77 120 4 5 45.26 32.927 -80.149 7.86 1.91★

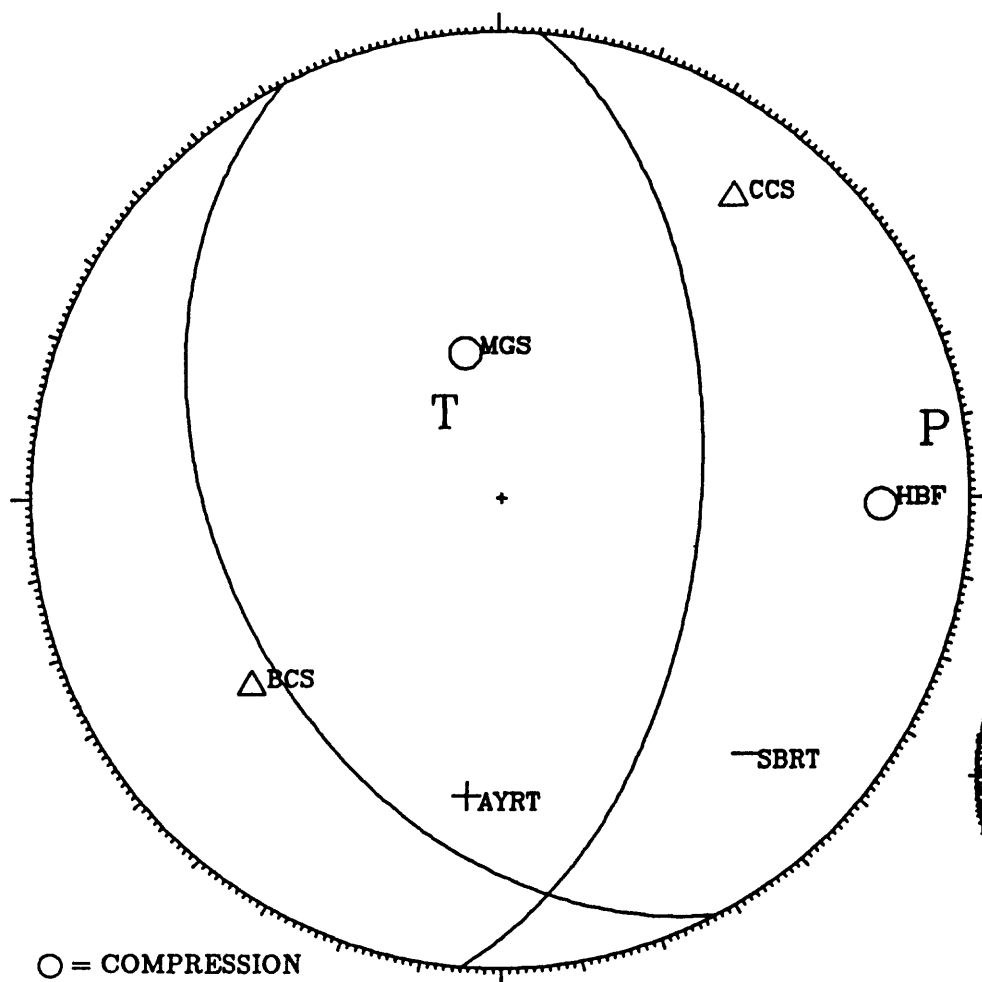
130.0 50.0 20.0 26.8 74.8 138.2



○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

AYRT	10.2	187	56	EP+0
BCS	10.1	233	56	IPD0
CCS	15.8	38	70	IPD0
HBF	21.4	91	70	IPC0
MGS	3.4	346	26	IPC0
SBRT	13.8	138	66	IP-0

77 120 4 5 45.26 32.927 -80.149 7.86 1.91★  
 5.0 55.0 110.0 152.6 39.7 64.0



81. 82.  
 326. 18.

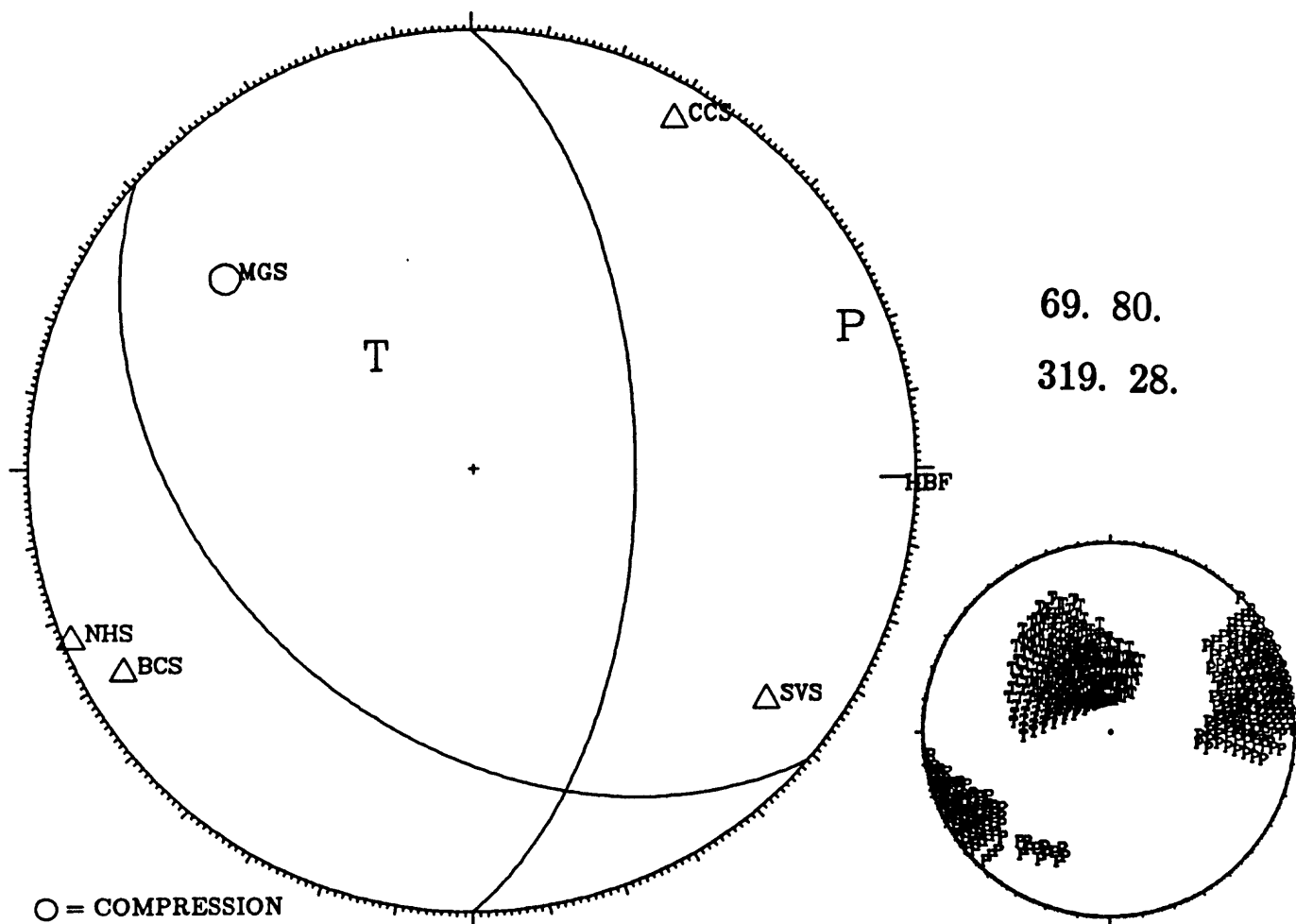


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

AYRT	10.2	187	56	EP+0
BCS	10.1	233	56	IPD0
CCS	15.8	38	70	IPD0
HBF	21.4	91	70	IPC0
MGS	3.4	346	26	IPC0
SBRT	13.8	138	66	IP-0

77 22610 9 55.78 32.924 -80.181 3.98 1.56

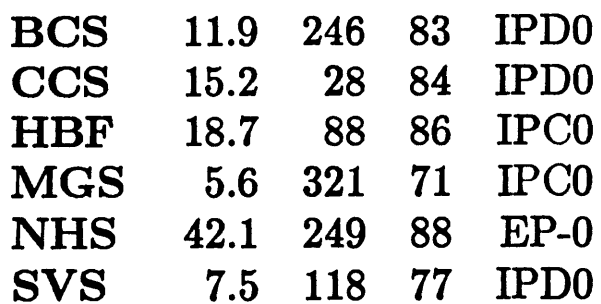
0.0 60.0 120.0 130.9 41.4 49.1



○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BCS	12.8	240	80	IPD0
CCS	13.8	30	81	IPD0
HBF	18.5	93	84	EP-0
MGS	4.8	308	60	IPC0
NHS	42.9	247	88	IPD0
SVS	8.1	128	73	IPD0

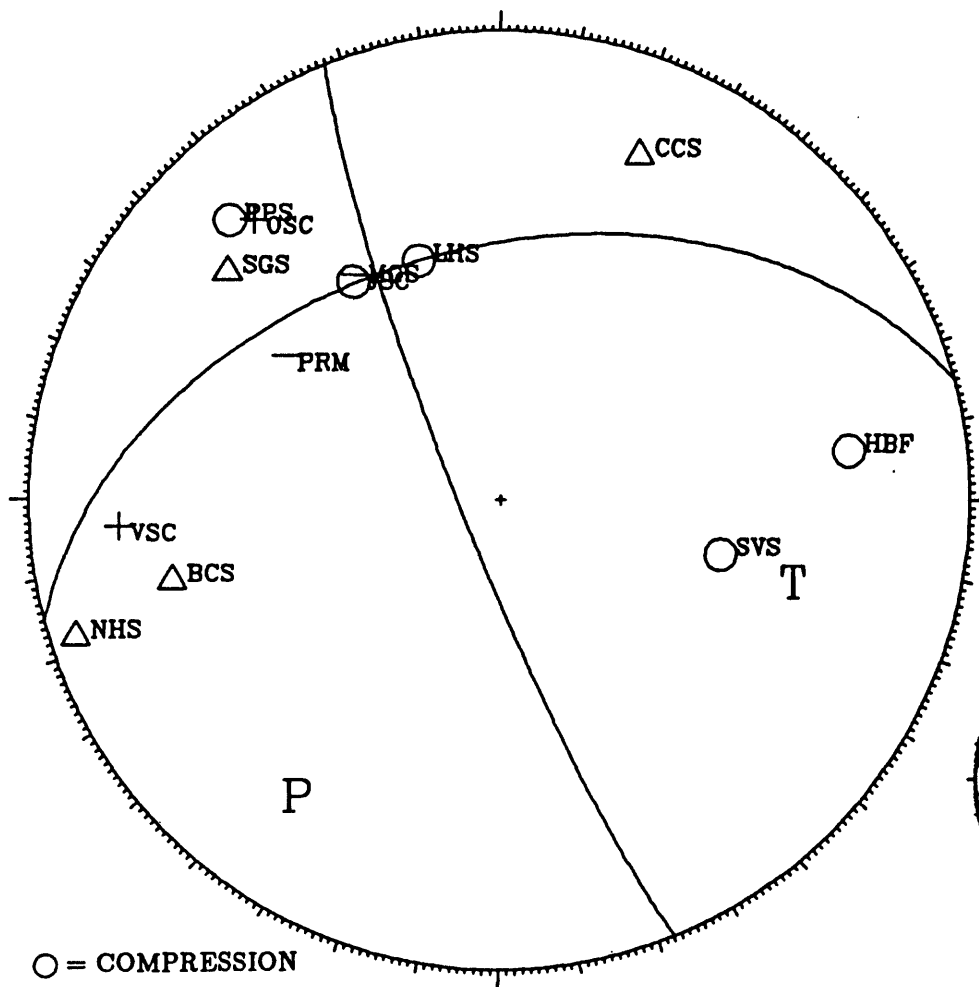
85.0	70.0	70.0	-48.2	28.0	133.2
------	------	------	-------	------	-------





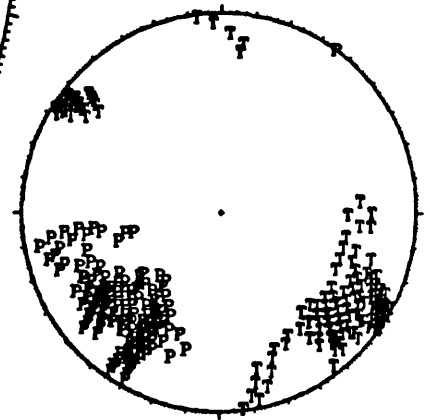
77 330 827 47.35 32.955 -80.186 8.44 2.91★

255.0 45.0 10.0 157.9 82.9 134.6



-145. 66.

106. 54.

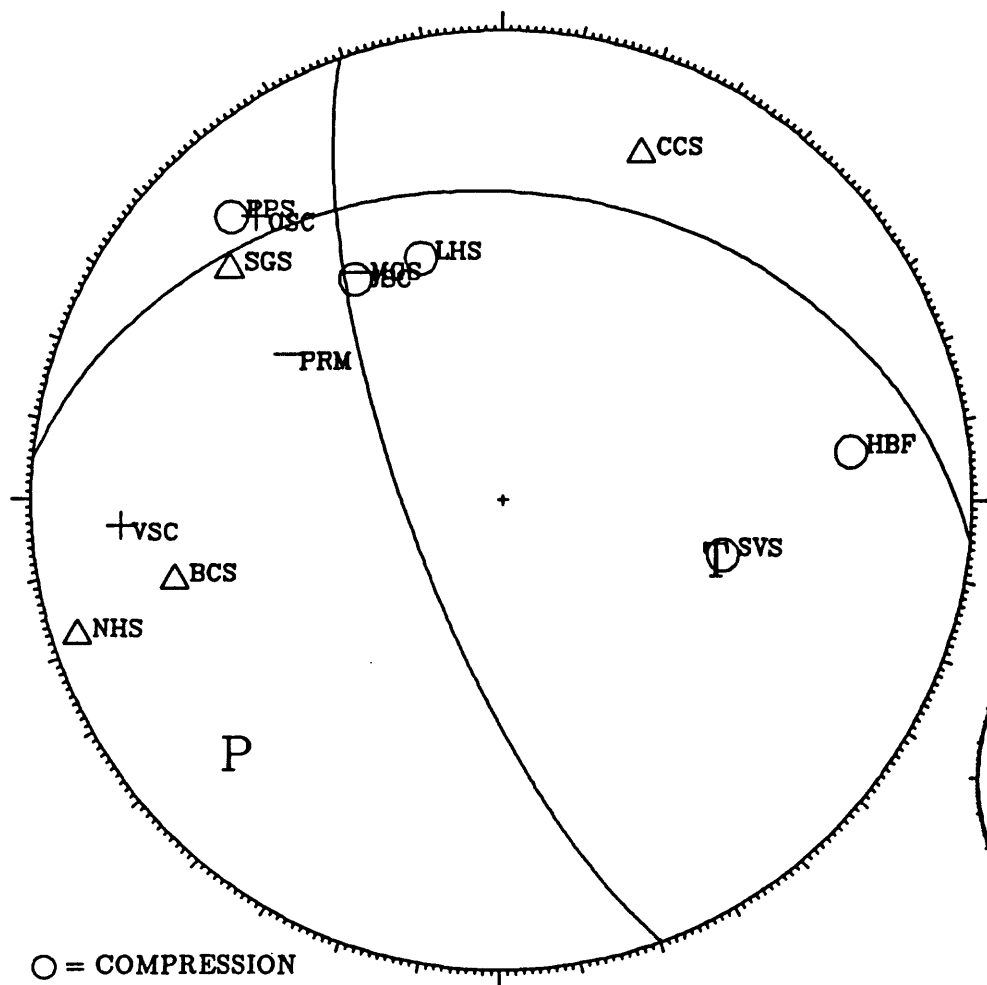


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BCS	12.0	256	61	IPD0
CCS	16.7	22	68	IPD0
HBF	18.1	82	64	IPC0
JSC	177.1	325	46	EP-0
LHS	178.5	341	45	EPC0
MGS	7.7	326	47	IPC0
NHS	42.2	252	84	IPD0
OSC	88.0	317	67	EP+0
PPS	20.0	316	72	IPC0
PRM	237.0	301	45	EP-3
SGS	40.3	310	65	IPD0
SVS	6.1	104	40	IPC0
VSC	81.3	264	71	EP+0

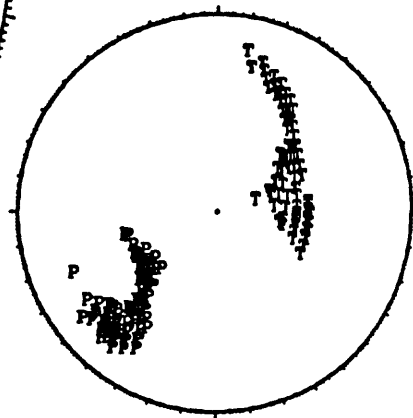
77 330 827 47.35 32.955 -80.186 8.44 2.91★

-85.0 35.0 30.0 159.7 73.3 121.2



-134. 68.

106. 39.

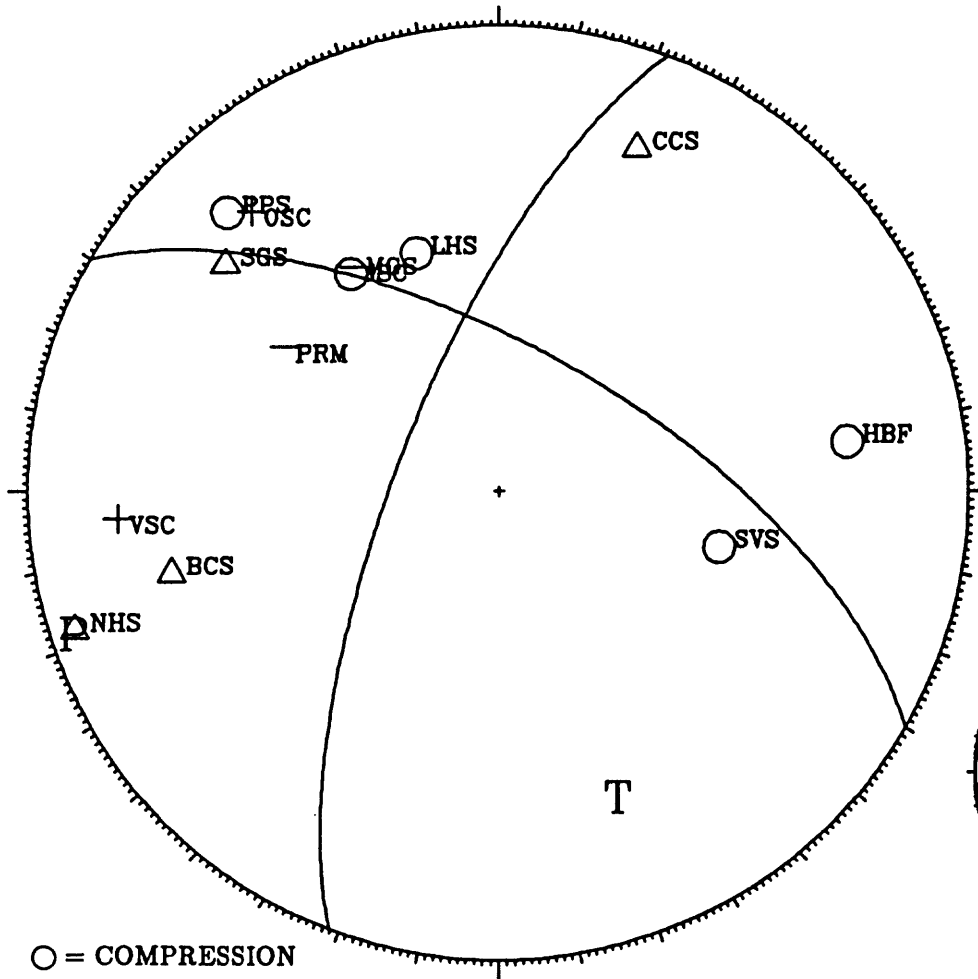


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BCS	12.0	256	61	IPD0
CCS	16.7	22	68	IPD0
HBF	18.1	82	64	IPC0
JSC	177.1	325	46	EP-0
LHS	178.5	341	45	EPC0
MGS	7.7	326	47	IPC0
NHS	42.2	252	84	IPD0
OSC	88.0	317	67	EP+0
PPS	20.0	316	72	IPC0
PRM	237.0	301	45	EP-3
SGS	40.3	310	65	IPD0
SVS	6.1	104	40	IPC0
VSC	81.3	264	71	EP+0

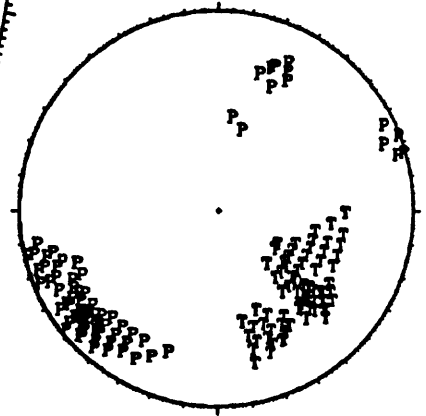
77 330 827 47.35 32.955 -80.186 8.44 2.91★

-60.0 65.0 20.0 201.3 71.9 153.6



-108. 85.

159. 59.

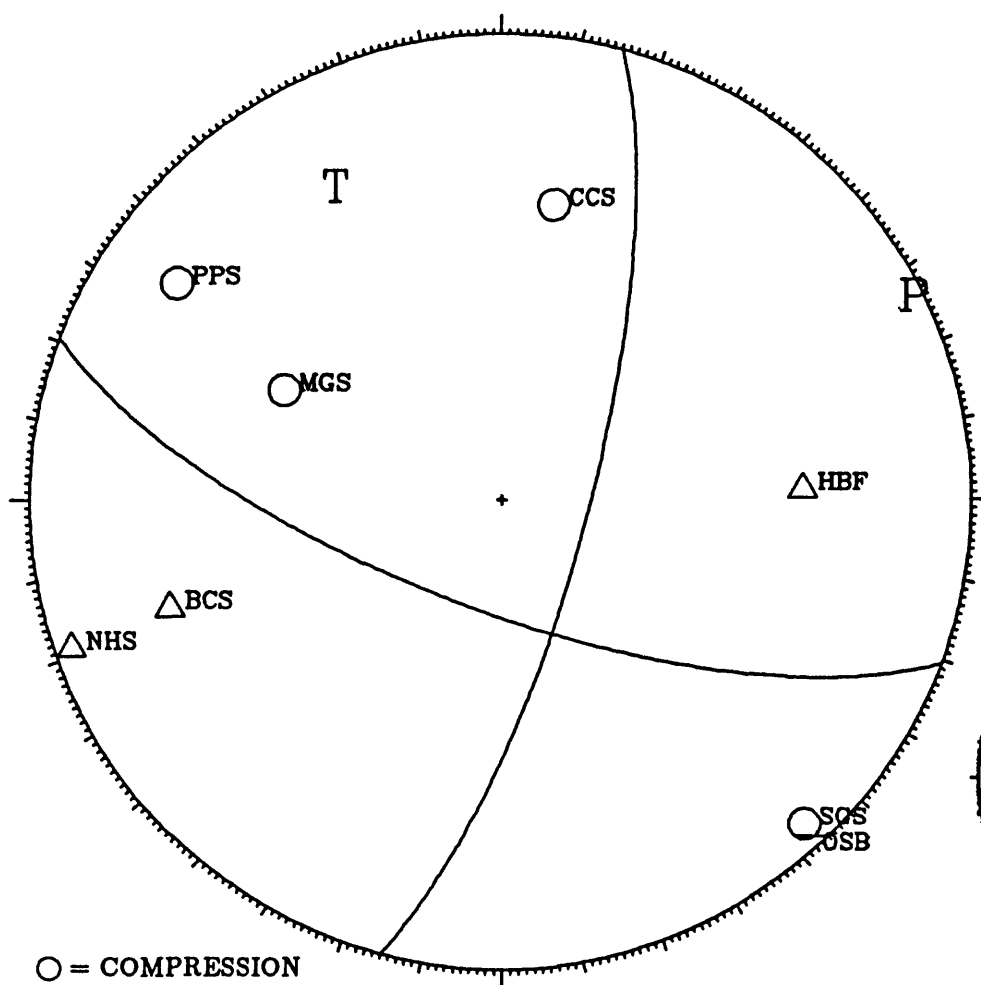


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BCS	12.0	256	61	IPD0
CCS	16.7	22	68	IPD0
HBF	18.1	82	64	IPC0
JSC	177.1	325	46	EP-0
LHS	178.5	341	45	EPC0
MGS	7.7	326	47	IPC0
NHS	42.2	252	84	IPD0
OSC	88.0	317	67	EP+0
PPS	20.0	316	72	IPC0
PRM	237.0	301	45	EP-3
SGS	40.3	310	65	IPD0
SVS	6.1	104	40	IPC0
VSC	81.3	264	71	EP+0

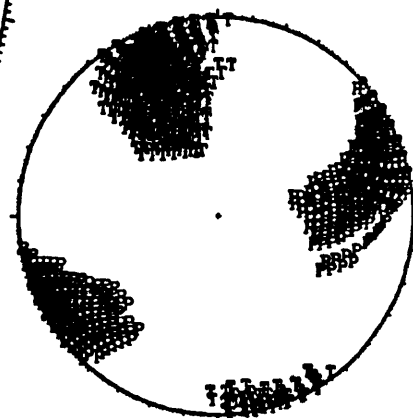
77 5312350 13.10 32.936 -80.230 11.75 2.55

15.0 75.0 160.0 110.4 70.7 15.9



63. 87.

332. 65.



○ = COMPRESSION

△ = DILATATION

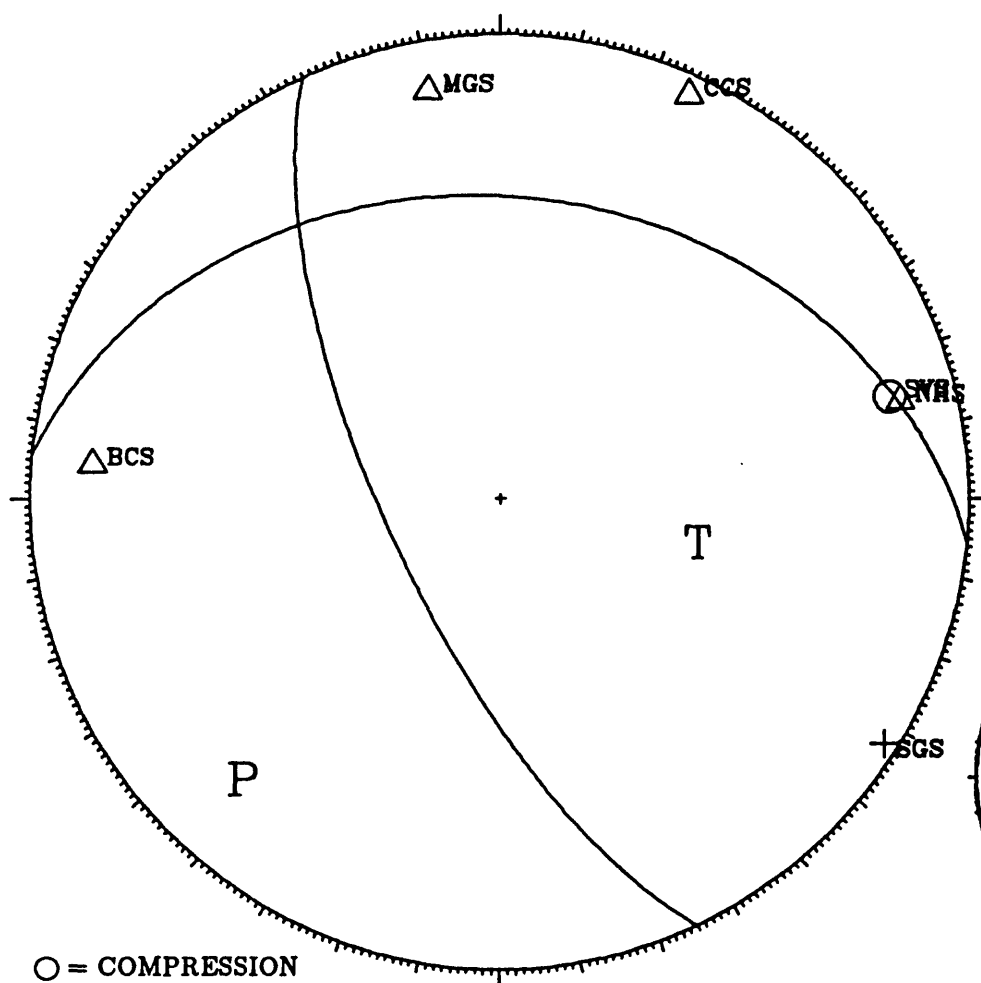
+ = EMERGENT COMPRESSION

- = EMERGENT DILATATION

BCS	16.5	252	63	IPD0
CCS	13.5	10	54	IPC0
HBF	13.8	88	54	IPD0
MGS	9.4	297	43	IPC0
NHS	46.7	251	86	IPD0
OSB	88.7	139	89	EP-0
PPS	21.7	304	72	IPC0
SGS	38.8	137	84	IPC0

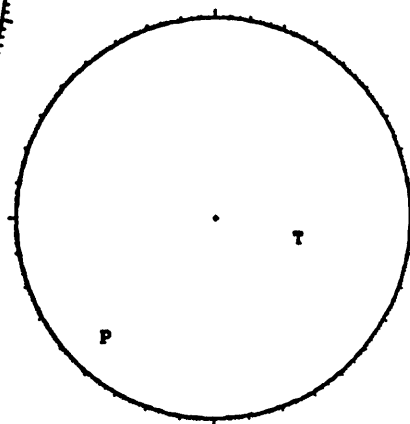
77 6222043 39.52 32.989 -80.159 3.87 2.07

155.0 70.0 120.0 -84.4 35.5 36.1



223. 71.

103. 35.



○ = COMPRESSION

Δ = DILATATION

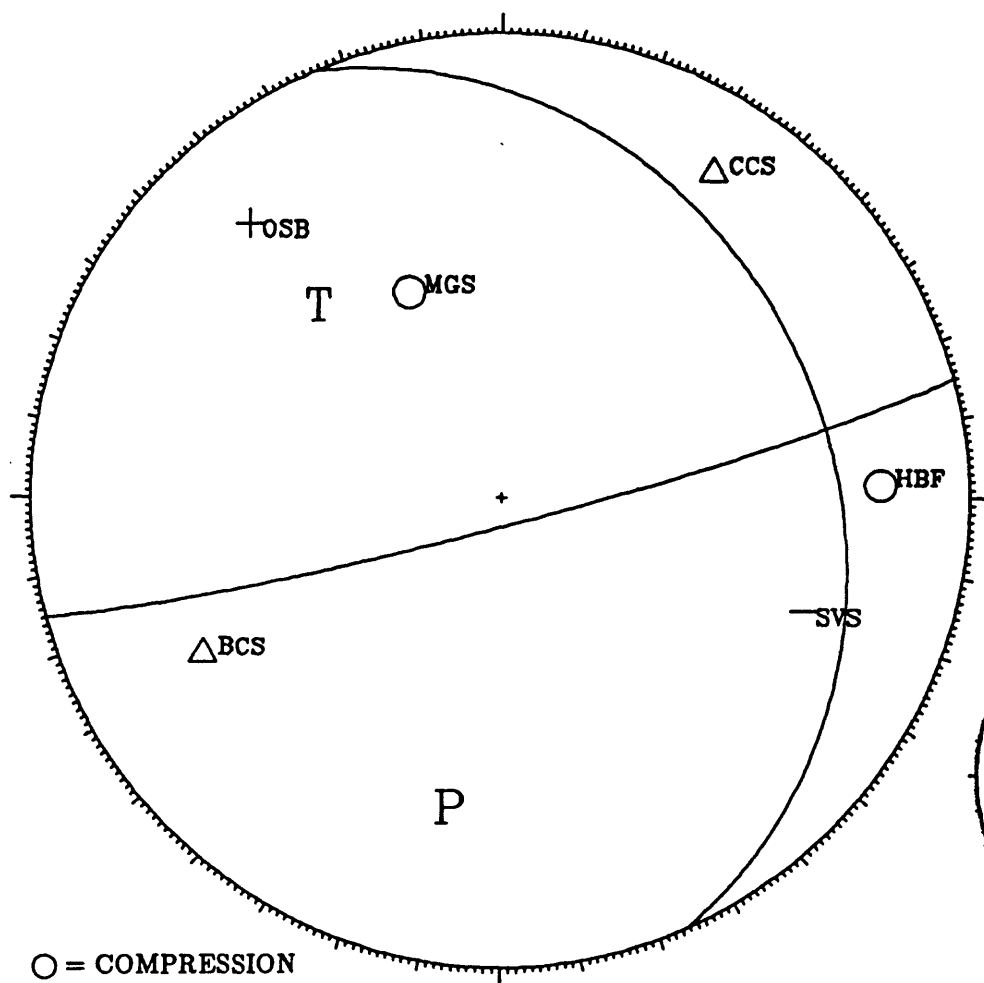
+ = EMERGENT COMPRESSION

- = EMERGENT DILATATION

BCS	9.2	275	76	IPD0
CCS	21.2	25	85	IPD0
MGS	10.3	350	78	IPD0
NHS	38.7	76	77	IPD0
SGS	40.0	124	88	EP+0
SVS	8.7	75	75	IPC0

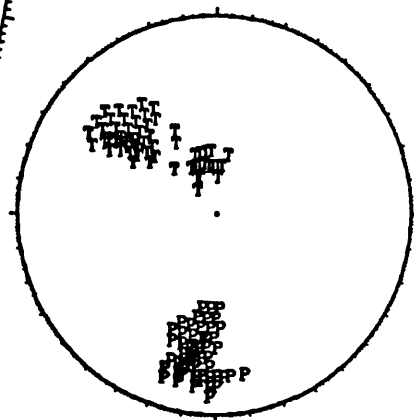
77 8231344 59.67 32.937 -80.161 6.93 2.29

75.0 85.0 60.0 -23.6 30.4 170.1



190. 57.

316. 48.



○ = COMPRESSION

△ = DILATATION

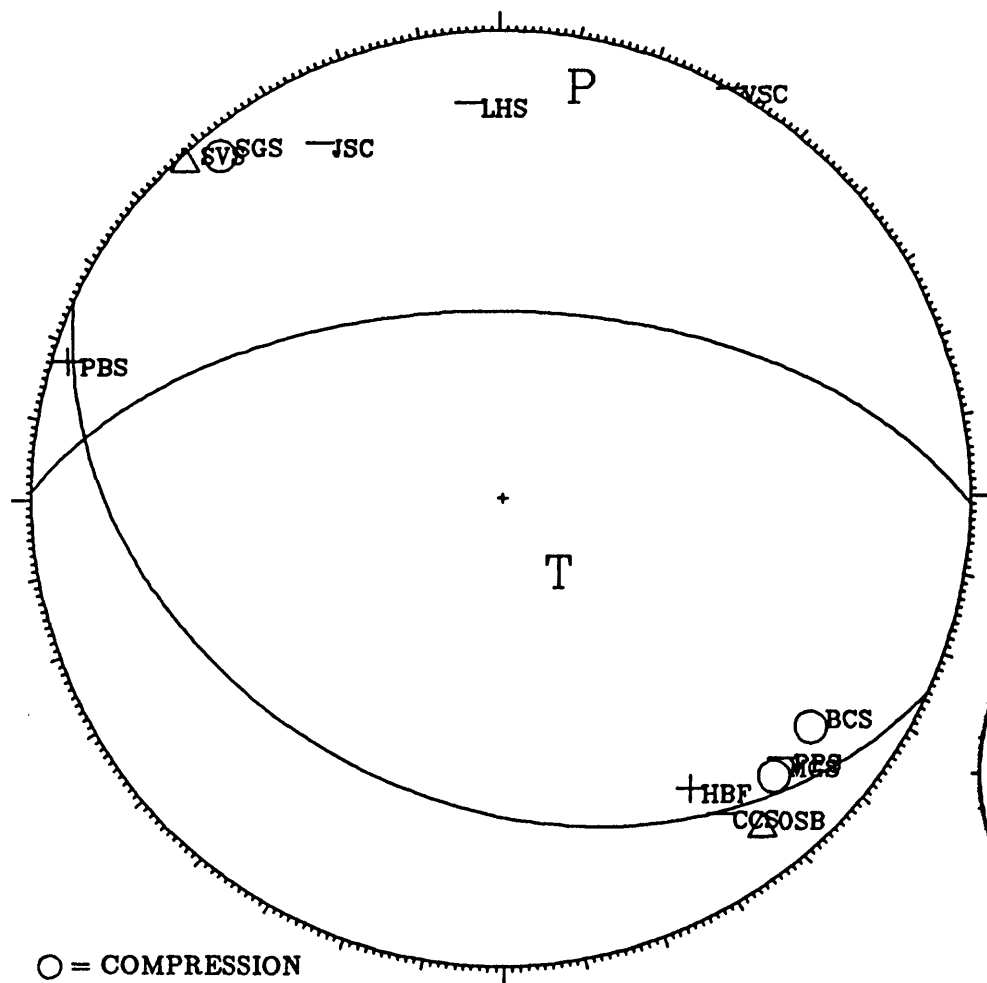
+ = EMERGENT COMPRESSION

- = EMERGENT DILATATION

BCS	10.5	242	61	IPD0
CCS	16.0	33	72	IPD0
HBF	20.3	88	70	IPC0
MGS	4.8	336	40	IPC0
OSB	92.9	316	67	EP+0
SVS	8.9	113	59	EP-0

77 825 420 6.97 33.383 -80.693 6.95 2.86★

115.0 35.0 110.0 -89.0 57.4 76.5



11. 79.

145. 16.

○ = COMPRESSION

△ = DILATATION

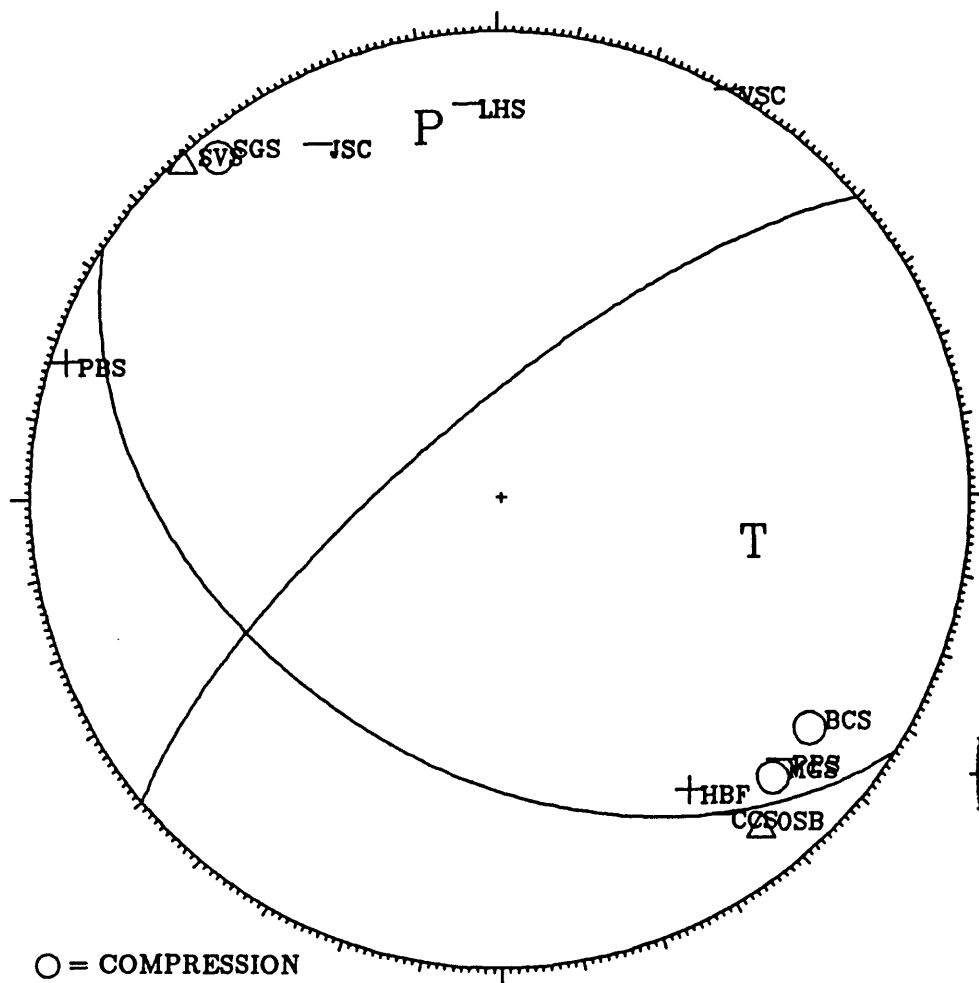
+ = EMERGENT COMPRESSION

- = EMERGENT DILATATION

BCS	73.9	127	71	IPC0
CCS	75.0	147	73	EP-0
HBF	57.9	149	65	EP+0
JSC	112.0	332	72	EP-0
LHS	122.0	355	71	EP-2
MGS	74.6	136	72	IPC0
OSB	23.0	142	79	IPD0
PBS	41.6	286	86	EP+0
PPS	87.0	135	72	EP-0
SGS	27.0	321	84	IPC0
SVS	61.8	317	88	IPD0
VSC	65.2	30	87	EP-0

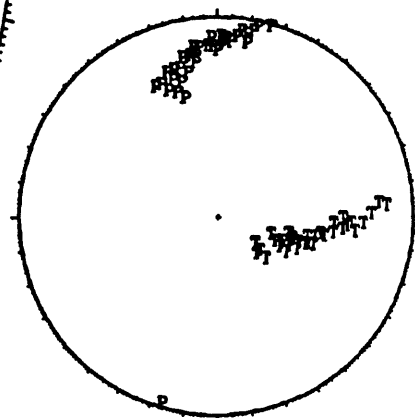
77 825 420 6.97 33.383 -80.693 6.95 2.86★

230.0 75.0 50.0 122.9 42.3 157.4



349. 70.

100. 45.



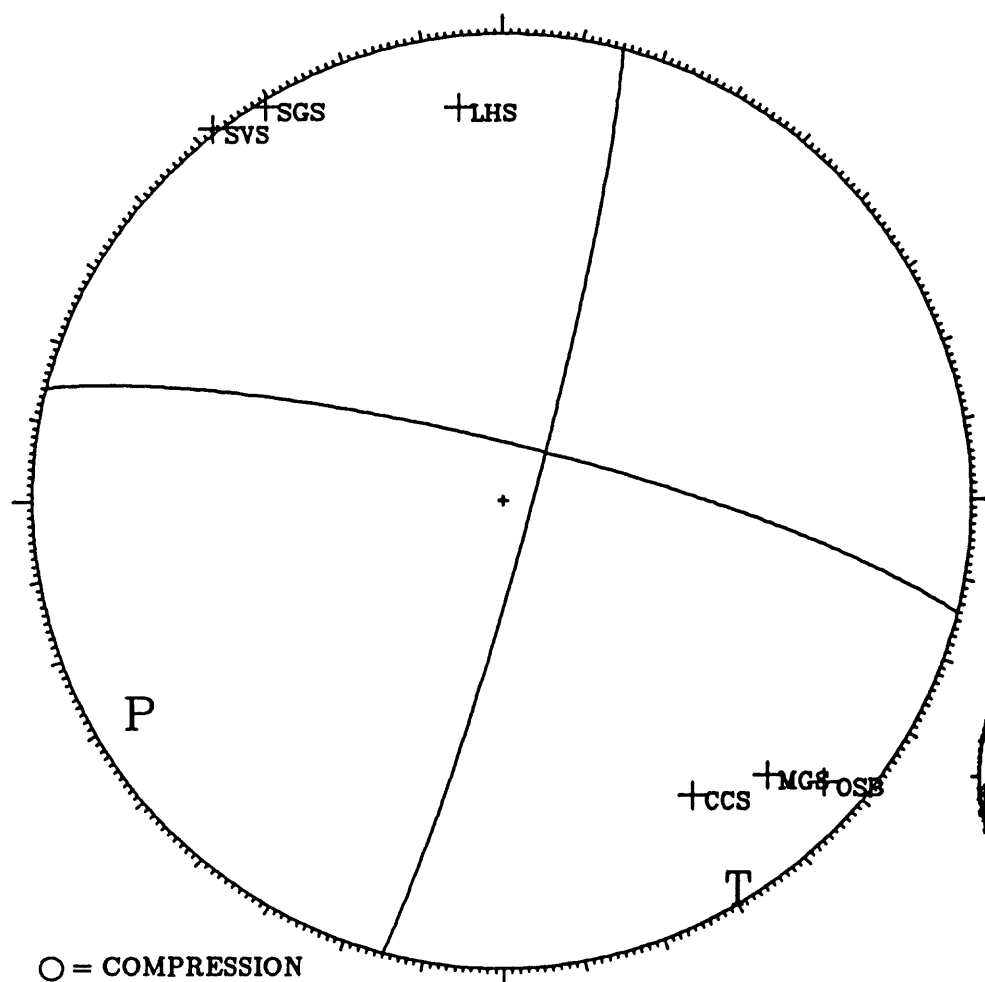
○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BCS	73.9	127	71	IPC0
CCS	75.0	147	73	EP-0
HBF	57.9	149	65	EP+0
JSC	112.0	332	72	EP-0
LHS	122.0	355	71	EP-2
MGS	74.6	136	72	IPC0
OSB	23.0	142	79	IPD0
PBS	41.6	286	86	EP+0
PPS	87.0	135	72	EP-0
SGS	27.0	321	84	IPC0
SVS	61.8	317	88	IPD0
VSC	65.2	30	87	EP-0



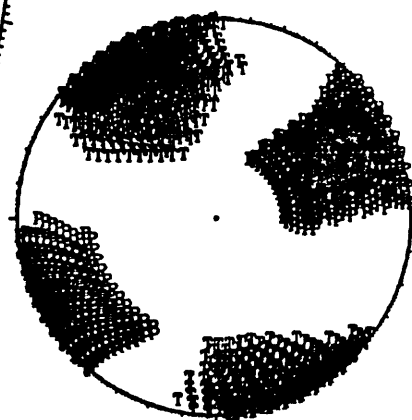
77 9 121 5 32.08 33.400 -80.661 6.26 1.81

15.0 85.0 -170.0 -75.9 80.0 -5.1



240. 79.

149. 87.

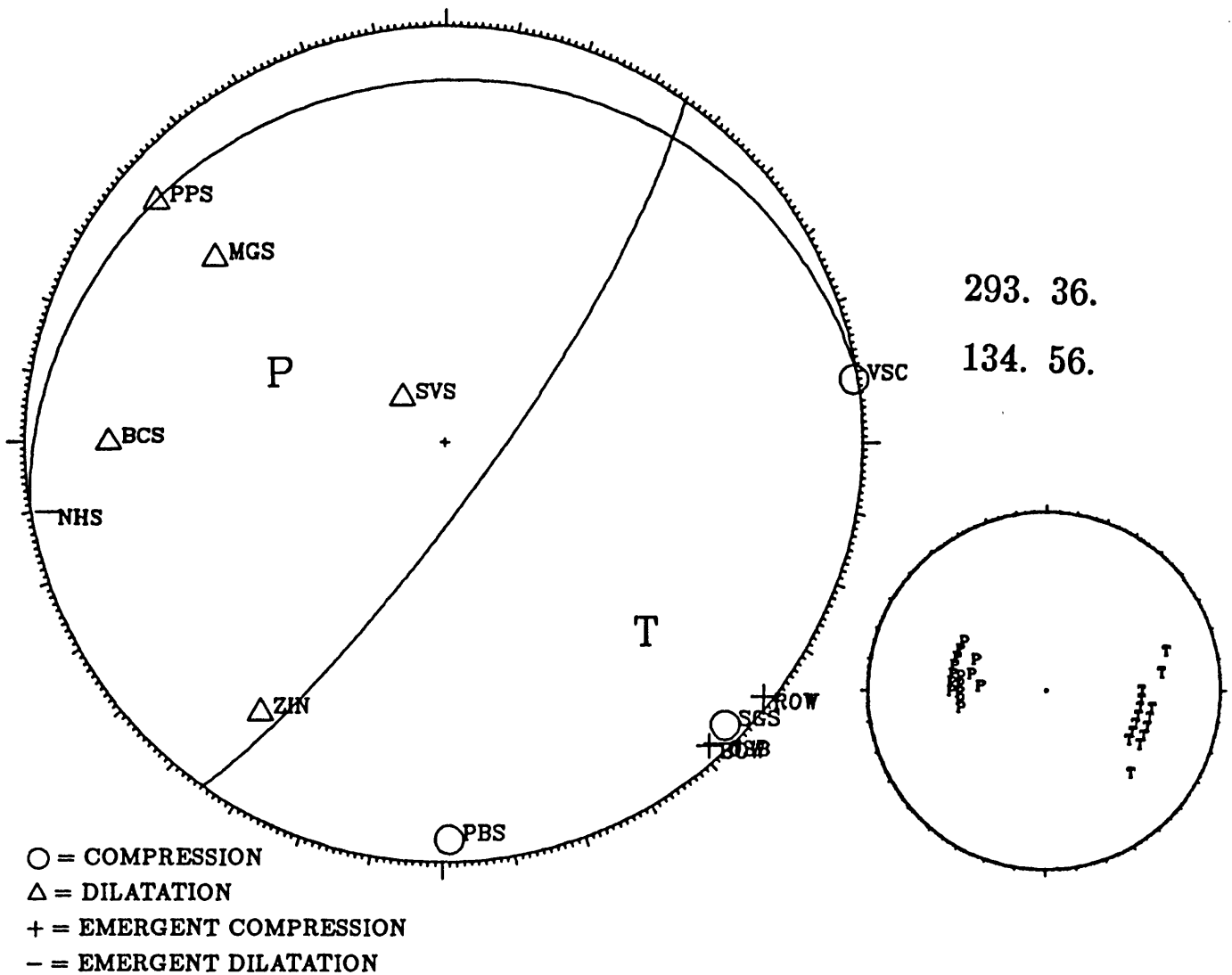


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

CCS	75.0	149	66	EP+0
LHS	120.4	353	71	EP+0
MGS	73.9	138	72	EP+0
OSB	23.6	133	82	EP+0
SGS	26.8	328	86	EP+0
SVS	61.4	321	89	EP+0

771215 715 54.95 32.982 -80.263 11.53 2.04★

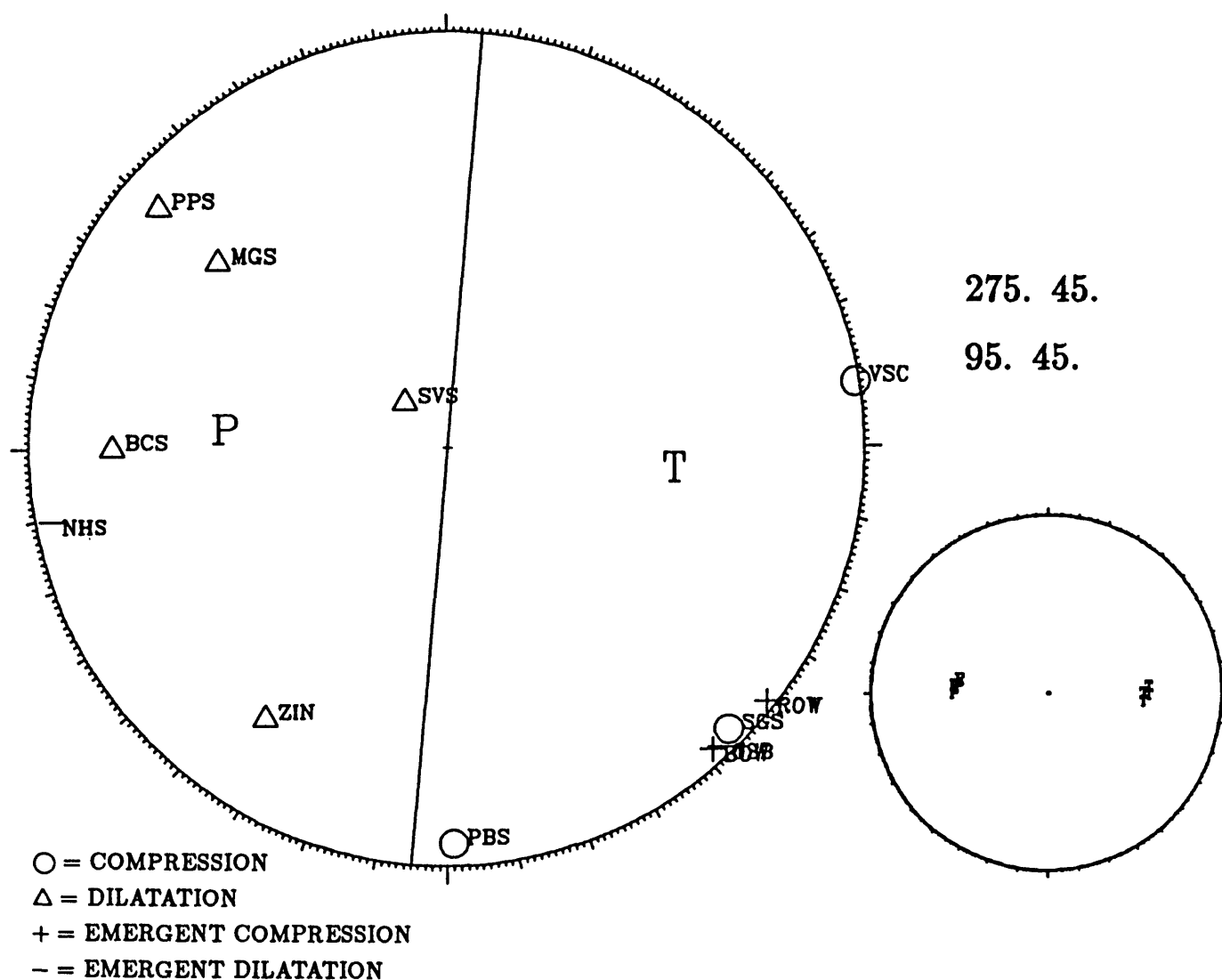
35.0 80.0 -100.0 260.4 14.1 -45.4



BCS	18.8	270	69	IPD0
BOW	56.1	140	88	EP+0
MGS	14.8	309	60	IPD0
NHS	48.4	258	87	EP-0
OSB	82.8	139	89	EP-0
PBS	32.9	179	84	IPC0
PPS	27.3	310	79	IPD0
ROW	65.2	130	89	EP+0
SGS	33.0	135	85	IPC0
SVS	2.0	317	12	IPD0
VSC	74.5	81	89	IPC0
ZIN	17.0	214	67	IPD0

771215 715 54.95 32.982 -80.263 11.53 2.04★

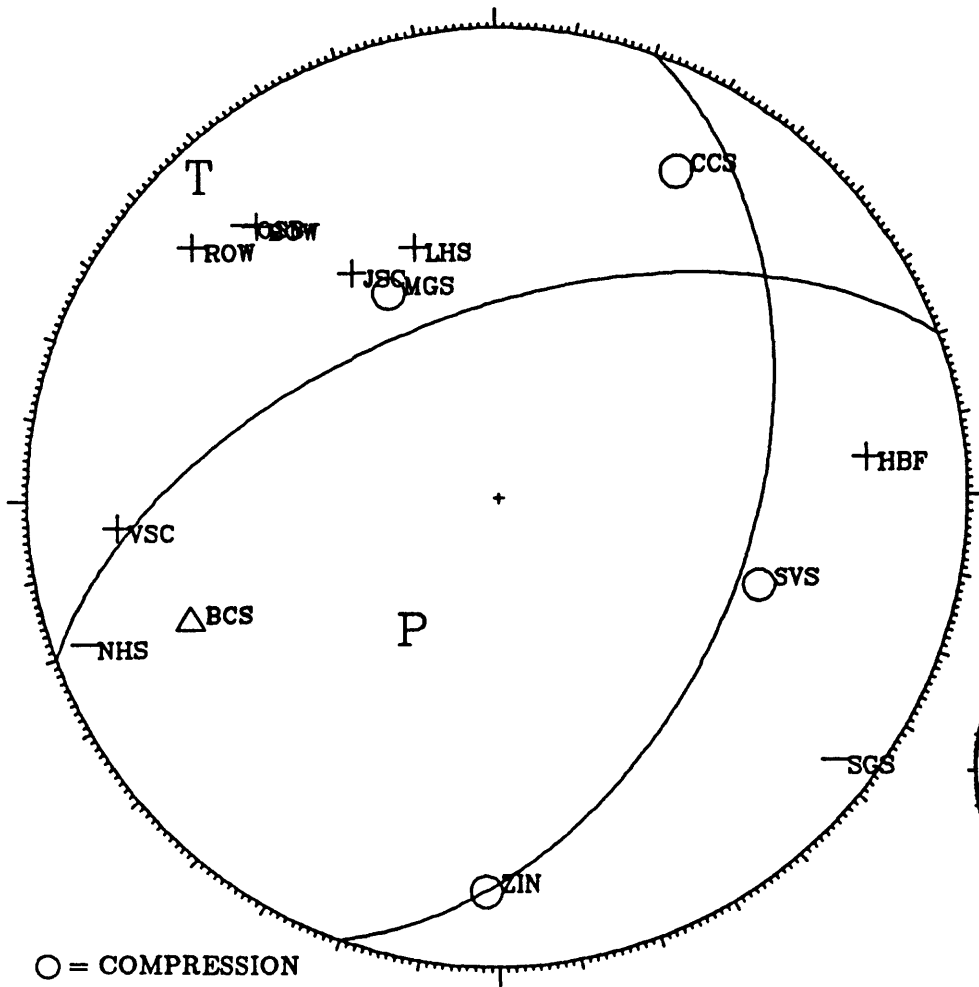
5.0 90.0 -90.0 -40.0 0.0 -45.0



BCS	18.8	270	69	IPD0
BOW	56.1	140	88	EP+0
MGS	14.8	309	60	IPD0
NHS	48.4	258	87	EP-0
OSB	82.8	139	89	EP-0
PBS	32.9	179	84	IPC0
PPS	27.3	310	79	IPD0
ROW	65.2	130	89	EP+0
SGS	33.0	135	85	IPC0
SVS	2.0	317	12	IPD0
VSC	74.5	81	89	IPC0
ZIN	17.0	214	67	IPD0

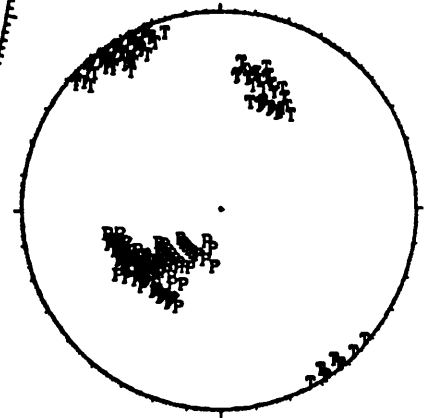
7712151916 43.23 32.945 -80.170 8.00 2.61★

20.0 45.0 -130.0 249.9 57.2 -57.3



214. 28.

-43. 83.

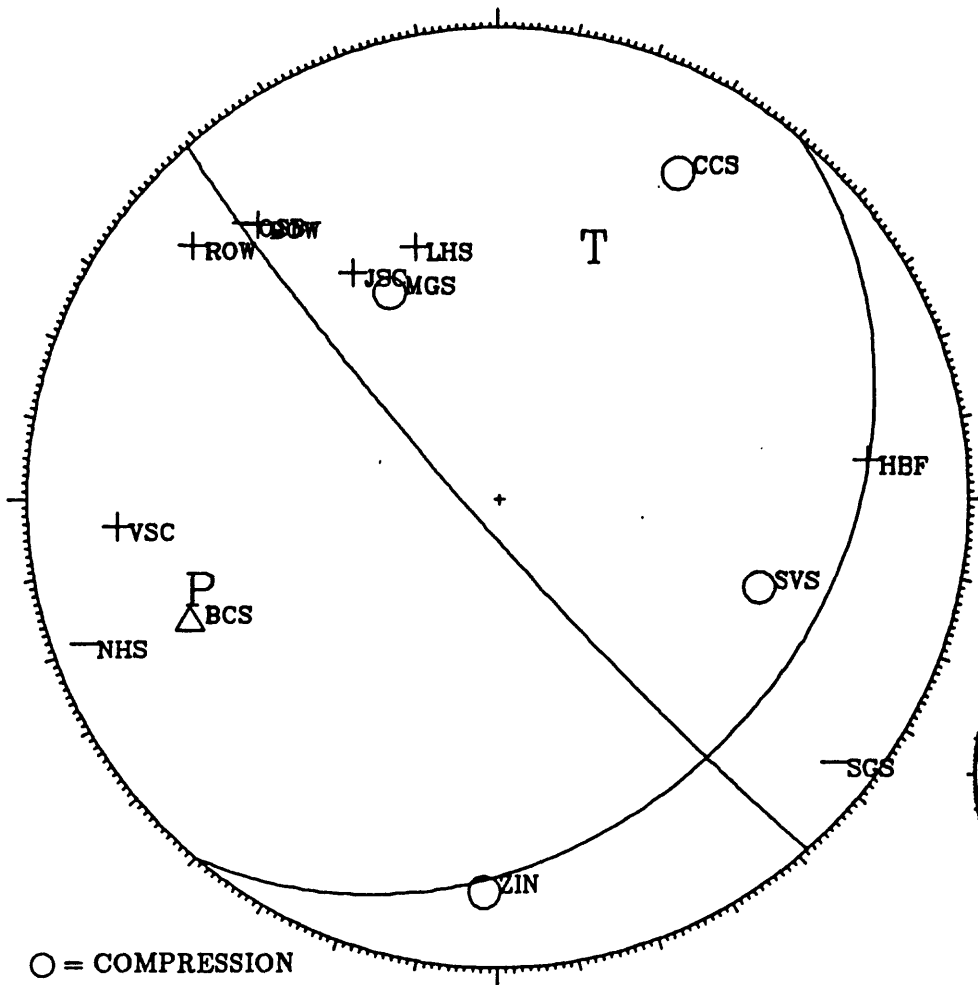


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BCS	10.9	248	60	IPD0
BOW	64.9	317	65	EP+0
CCS	16.4	29	68	IPC0
HBF	19.5	86	67	EP+0
JSC	178.9	325	46	EP+0
LHS	180.1	340	45	EP+0
MGS	6.0	332	41	IPC0
NHS	41.1	249	84	EP-0
OSB	91.7	316	67	EP-0
ROW	74.6	308	72	EP+0
SGS	42.2	130	82	EPD0
SVS	7.8	109	49	IPC0
VSC	82.7	264	71	EP+0
ZIN	18.1	182	73	IPC0

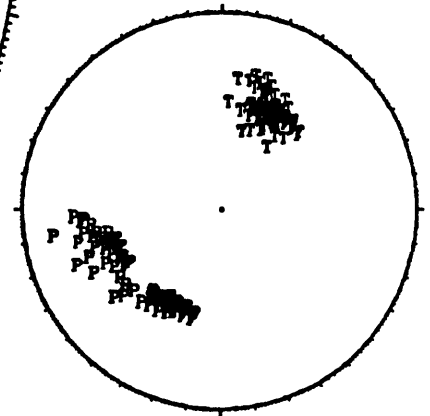
7712151916 43.23 32.945 -80.170 8.00 2.61★

40.0 30.0 170.0 138.7 85.0 60.4



-107. 57.

20. 48.

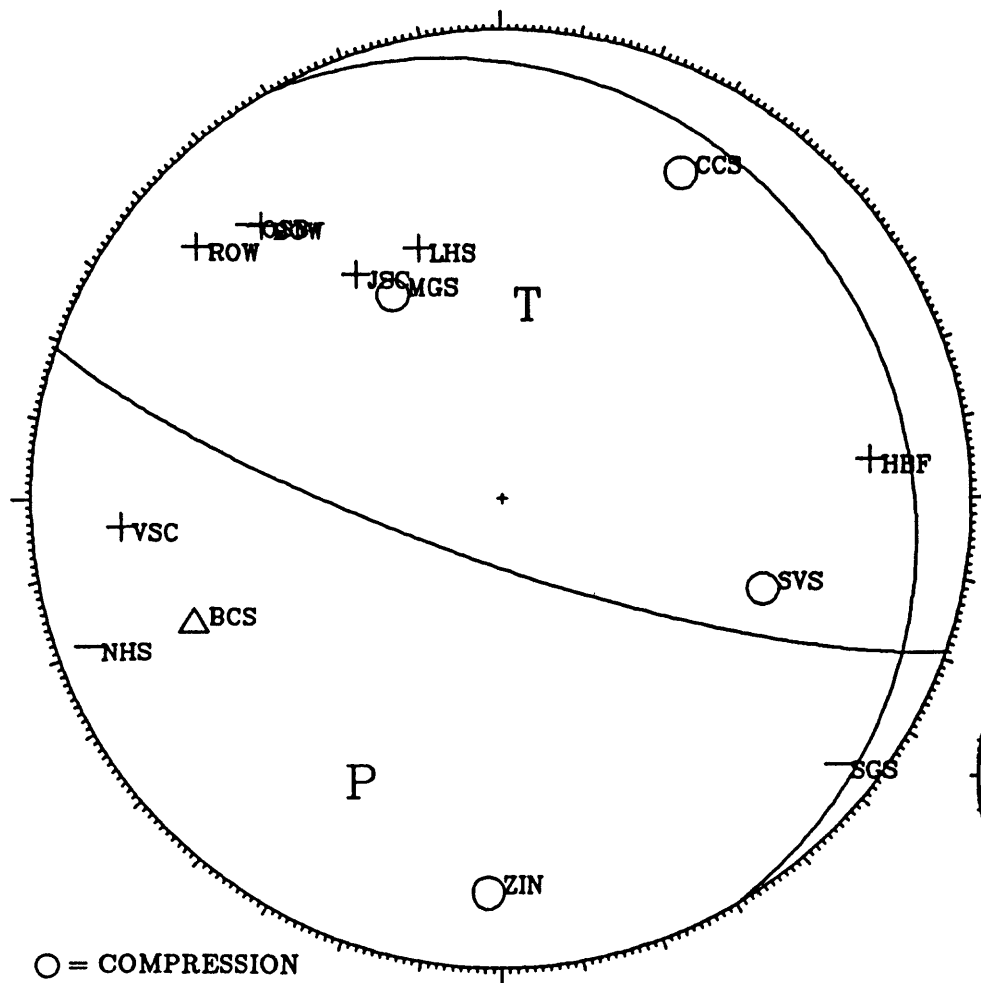


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BCS	10.9	248	60	IPD0
BOW	64.9	317	65	EP+0
CCS	16.4	29	68	IPC0
HBF	19.5	86	67	EP+0
JSC	178.9	325	46	EP+0
LHS	180.1	340	45	EP+0
MGS	6.0	332	41	IPC0
NHS	41.1	249	84	EP-0
OSB	91.7	316	67	EP-0
ROW	74.6	308	72	EP+0
SGS	42.2	130	82	EPD0
SVS	7.8	109	49	IPC0
VSC	82.7	264	71	EP+0
ZIN	18.1	182	73	IPC0

7712151916 43.23 32.945 -80.170 8.00 2.61★

-30.0 15.0 130.0 109.0 78.6 80.2



-153. 57.

7. 35.

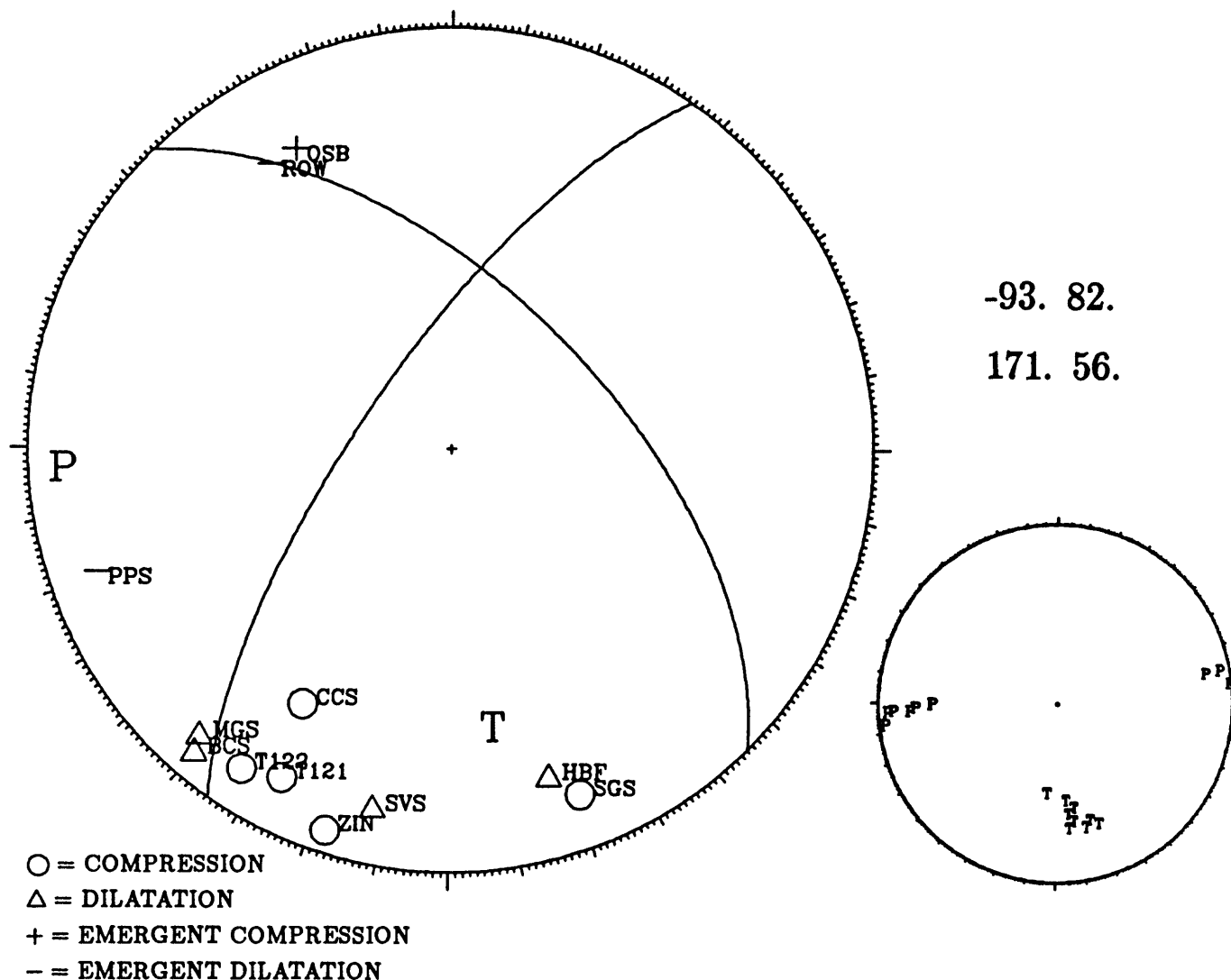


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BCS	10.9	248	60	IPD0
BOW	64.9	317	65	EP+0
CCS	16.4	29	68	IPC0
HBF	19.5	86	67	EP+0
JSC	178.9	325	46	EP+0
LHS	180.1	340	45	EP+0
MGS	6.0	332	41	IPC0
NHS	41.1	249	84	EP-0
OSB	91.7	316	67	EP-0
ROW	74.6	308	72	EP+0
SGS	42.2	130	82	EPD0
SVS	7.8	109	49	IPC0
VSC	82.7	264	71	EP+0
ZIN	18.1	182	73	IPC0

7712161114 34.01 32.738 -80.310 7.71 2.08★

-45.0 60.0 20.0 214.7 72.8 148.4

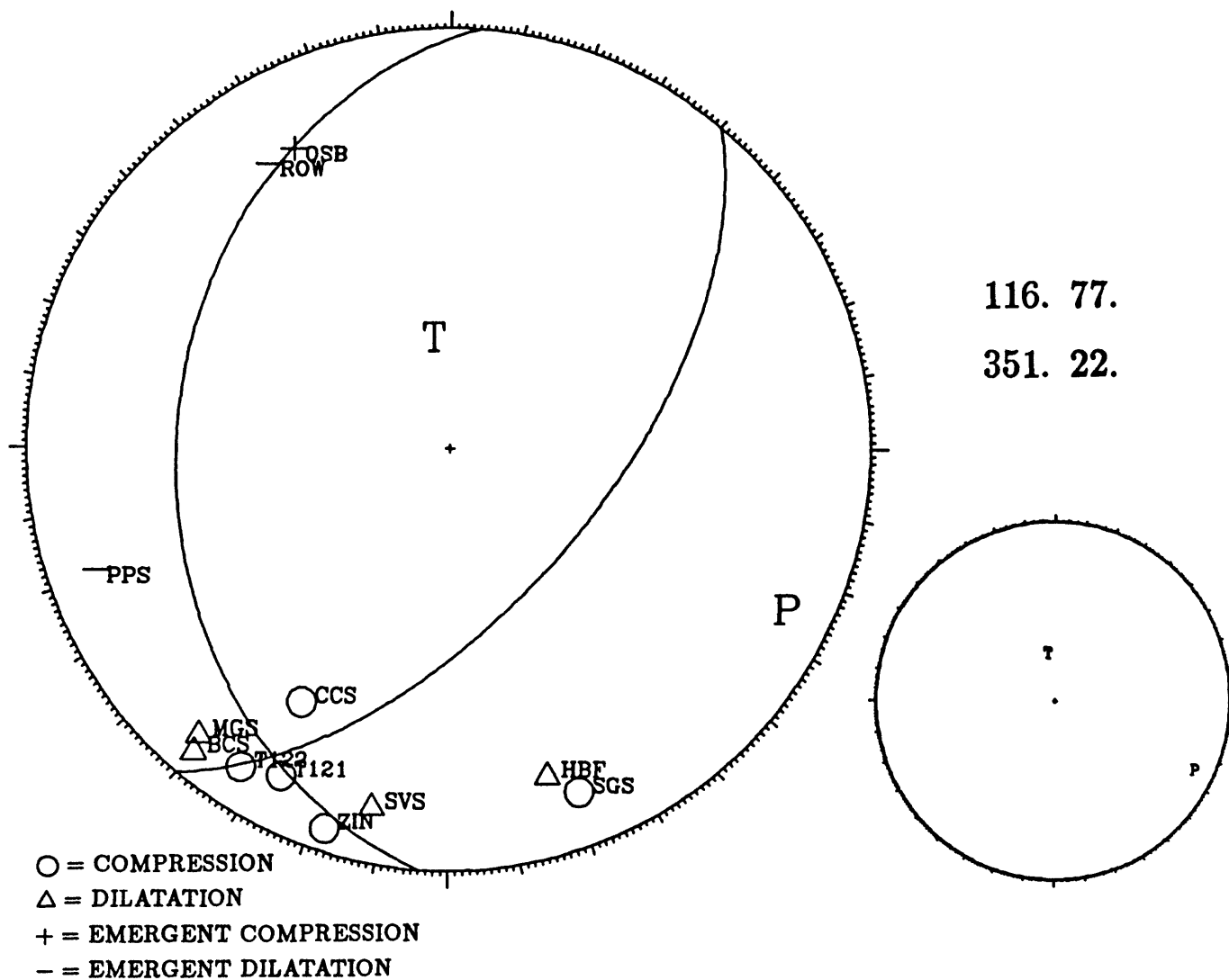


-93. 82.  
171. 56.

BCS	35.5	220	83	IPD0
CCS	10.1	210	59	IPC0
HBF	22.5	163	70	IPD0
MGS	23.7	221	79	IPD0
OSB	102.6	331	67	EP+2
PPS	27.0	249	79	EPD0
ROW	82.9	326	67	EP-0
SGS	53.9	159	76	IPC0
SVS	26.2	192	76	IPD0
T121	24.2	207	76	IPC0
T122	27.7	213	79	IPC0
ZIN	43.3	198	84	EPC0

7712161114 34.01 32.738 -80.310 7.71 2.08★

40.0 60.0 110.0 183.9 35.5 59.4

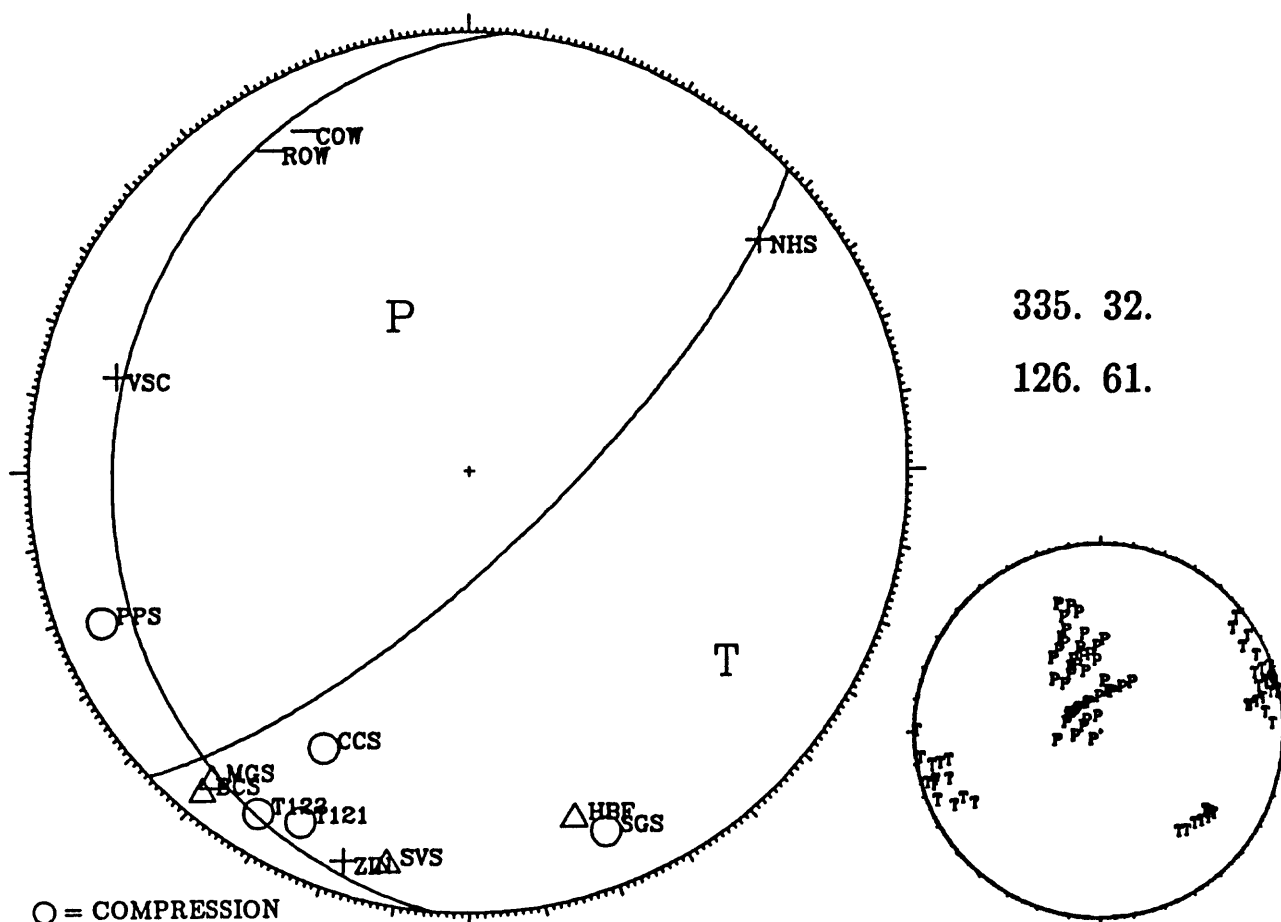


BCS	35.5	220	83	IPD0
CCS	10.1	210	59	IPC0
HBF	22.5	163	70	IPD0
MGS	23.7	221	79	IPD0
OSB	102.6	331	67	EP+2
PPS	27.0	249	79	EPD0
ROW	82.9	326	67	EP-0
SGS	53.9	159	76	IPC0
SVS	26.2	192	76	IPD0
T121	24.2	207	76	IPC0
T122	27.7	213	79	IPC0
ZIN	43.3	198	84	EPC0



7712161125 31.54 32.733 -80.309 7.51 2.26★

185.0 20.0 -130.0 46.8 74.8 -76.8



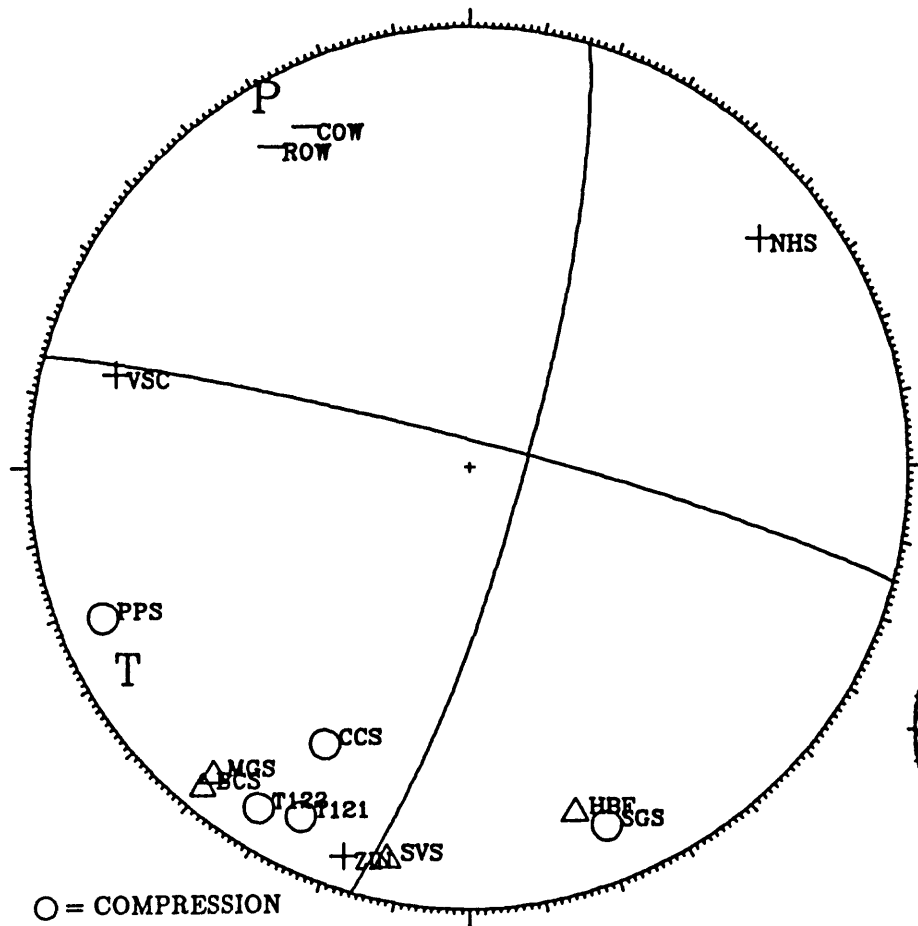
335. 32.

126. 61.

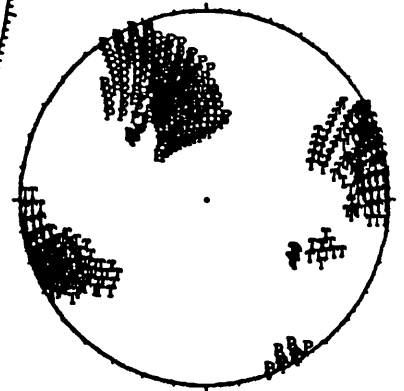
○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BCS	35.9	220	84	IPD0
CCS	10.5	208	60	IPC0
COW	80.9	333	73	EP-0
HBF	23.1	163	71	IPD0
MGS	24.0	220	80	IPD0
NHS	63.8	53	71	EP+0
PPS	27.1	248	79	EPC0
ROW	83.4	327	73	EP-0
SGS	54.4	159	76	IPC0
SVS	26.8	192	80	IPD0
T121	24.6	206	77	IPC0
T122	28.1	212	80	IPC0
VSC	71.2	283	72	EP+0
ZIN	43.8	198	85	EP+0

7712161125 31.54 32.733 -80.309 7.51 2.26★  
 -75.0 85.0 170.0 15.9 80.0 5.1



331. 87.  
 240. 79.

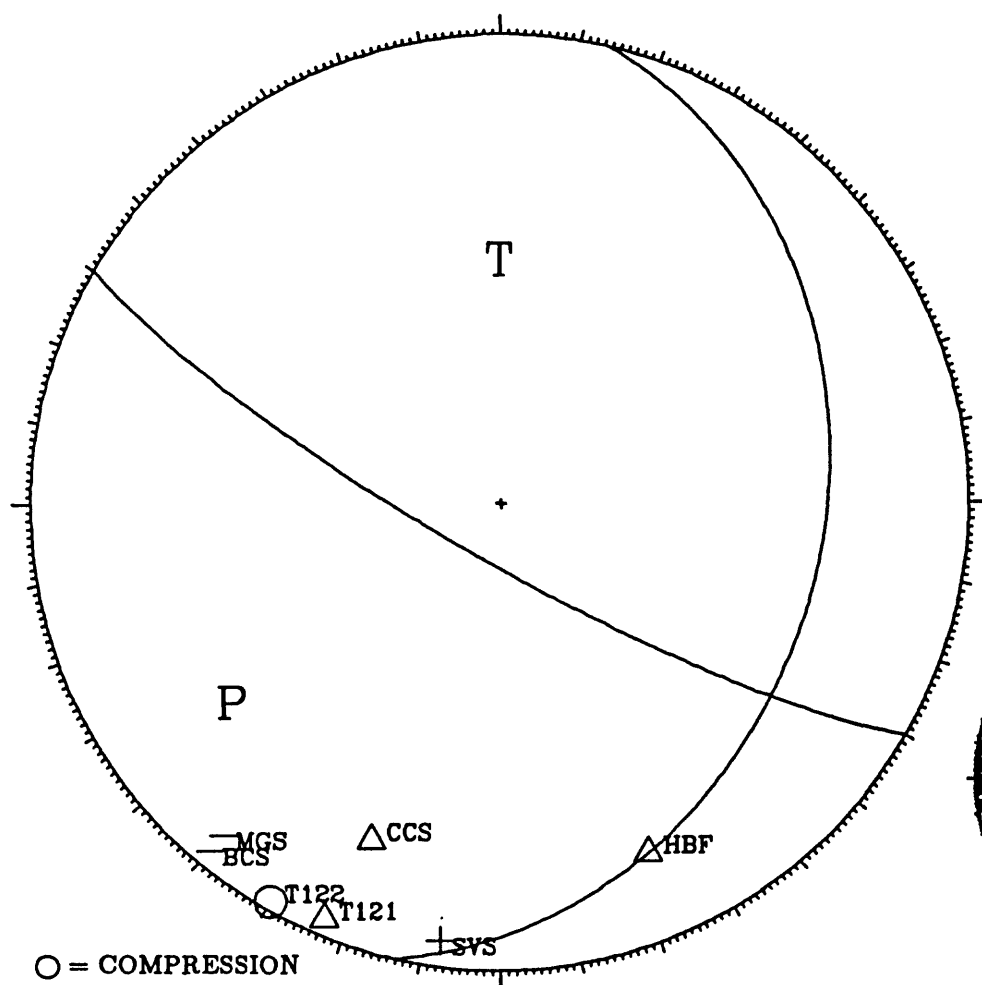


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BCS	35.9	220	84	IPD0
CCS	10.5	208	60	IPC0
COW	80.9	333	73	EP-0
HBF	23.1	163	71	IPD0
MGS	24.0	220	80	IPD0
NHS	63.8	53	71	EP+0
PPS	27.1	248	79	EPC0
ROW	83.4	327	73	EP-0
SGS	54.4	159	76	IPC0
SVS	26.8	192	80	IPD0
T121	24.6	206	77	IPC0
T122	28.1	212	80	IPC0
VSC	71.2	283	72	EP+0
ZIN	43.8	198	85	EP+0

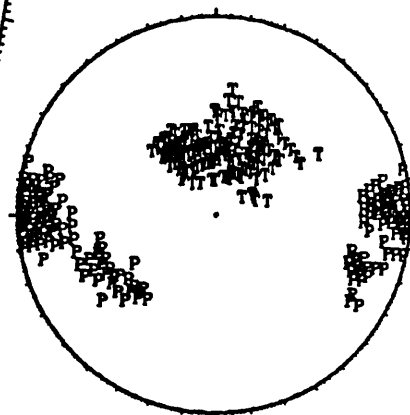
771218 158 37.55 32.747 -80.287 5.58 1.76★

120.0 80.0 60.0 13.3 31.5 160.6



234. 61.

359. 43.

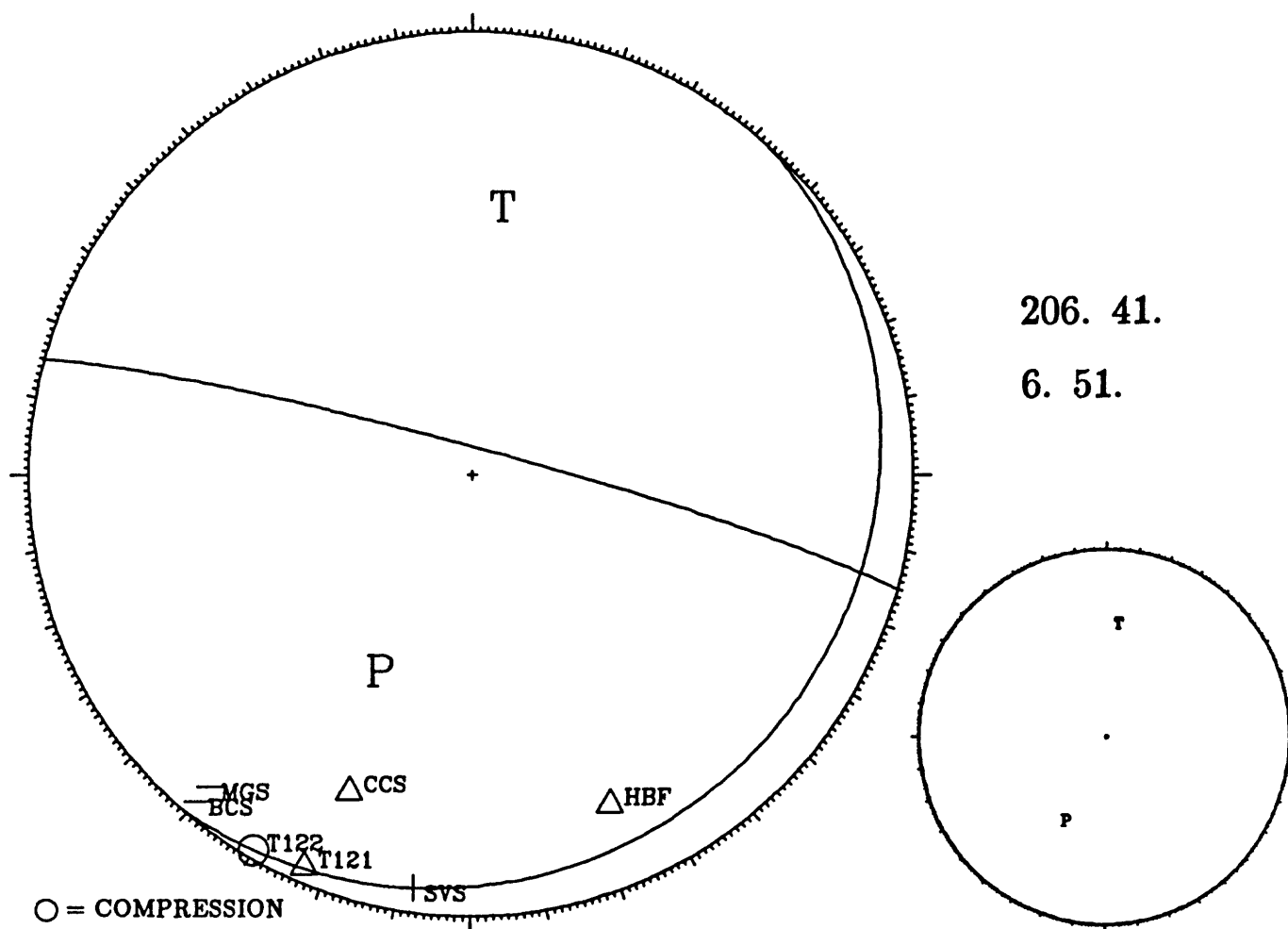


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BCS	33.4	219	89	EP-0
CCS	8.2	201	66	IPD0
HBF	22.3	157	70	IPD0
MGS	21.5	219	84	EP-0
SVS	24.9	188	87	EP+0
T121	22.4	203	86	IPD0
T122	25.7	210	88	IPC0

771218 158 37.55 32.747 -80.287 5.58 1.76★

-75.0 85.0 -80.0 41.3 11.2 -153.3



206. 41.

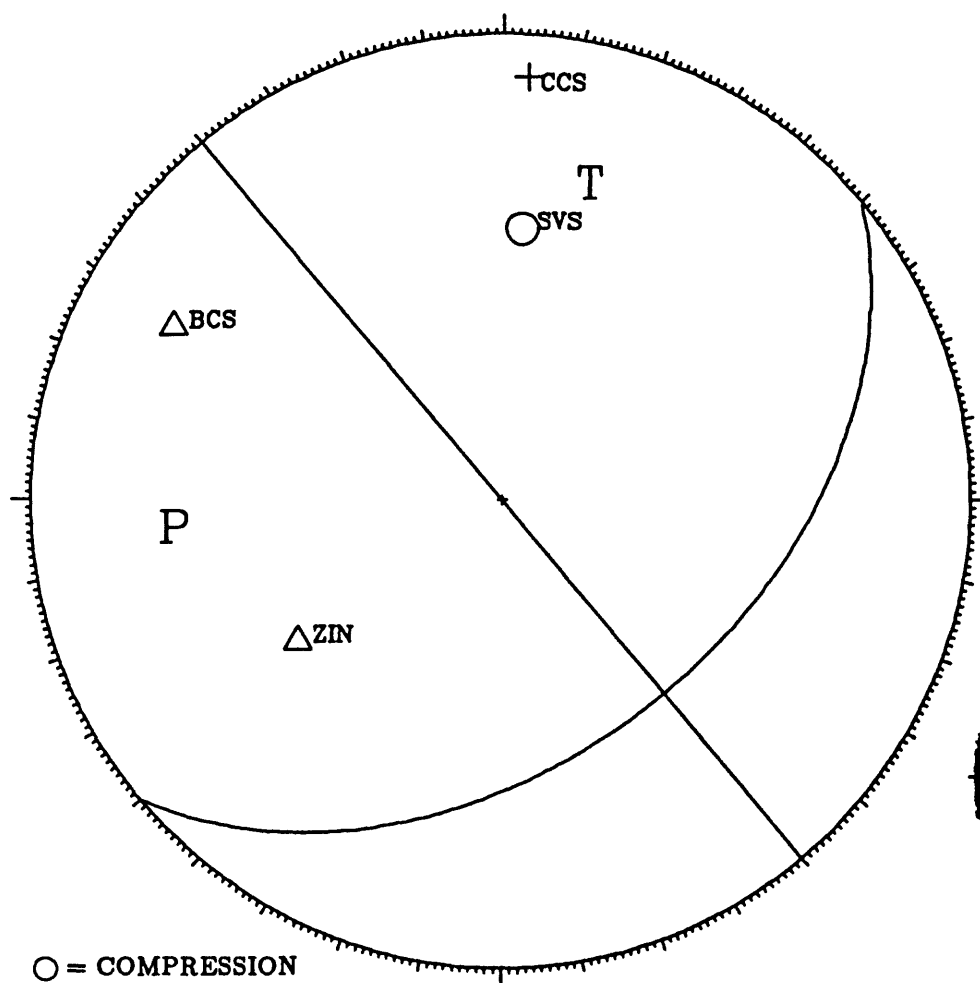
6. 51.

○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BCS	33.4	219	89	EP-0
CCS	8.2	201	66	IPD0
HBF	22.3	157	70	IPD0
MGS	21.5	219	84	EP-0
SVS	24.9	188	87	EP+0
T121	22.4	203	86	IPD0
T122	25.7	210	88	IPC0

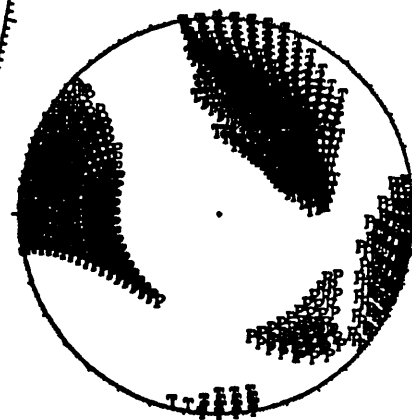
7712202341 22.92 33.062 -80.239 11.64 1.80

50.0 45.0 180.0 140.0 90.0 45.0



-95. 60.

15. 60.



○ = COMPRESSION

△ = DILATATION

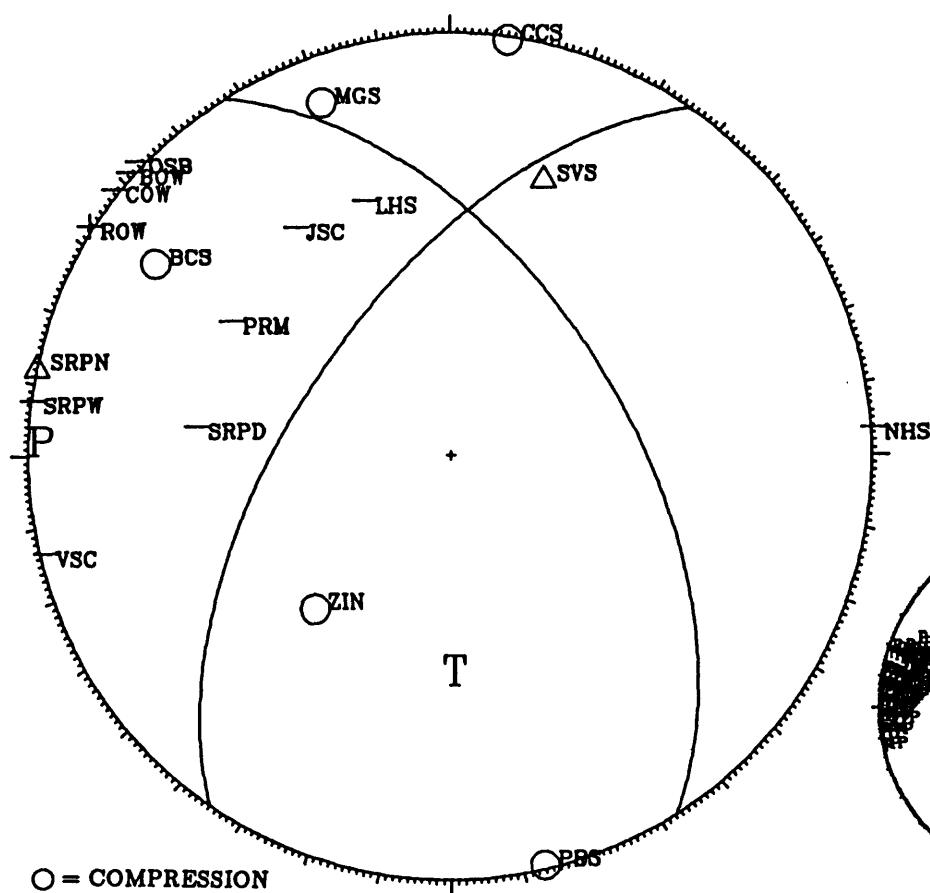
+ = EMERGENT COMPRESSION

- = EMERGENT DILATATION

BCS	18.9	298	68	IPD0
CCS	27.3	3	77	EP+0
SVS	10.4	4	49	IPC0
ZIN	9.0	235	44	IPD0

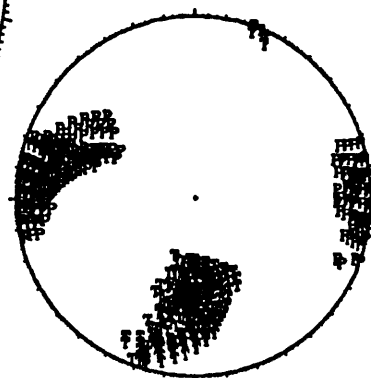
78 9 72253 22.59 33.063 -80.209 10.11 2.60

215.0 60.0 140.0 -32.2 56.2 37.0



272. 88.

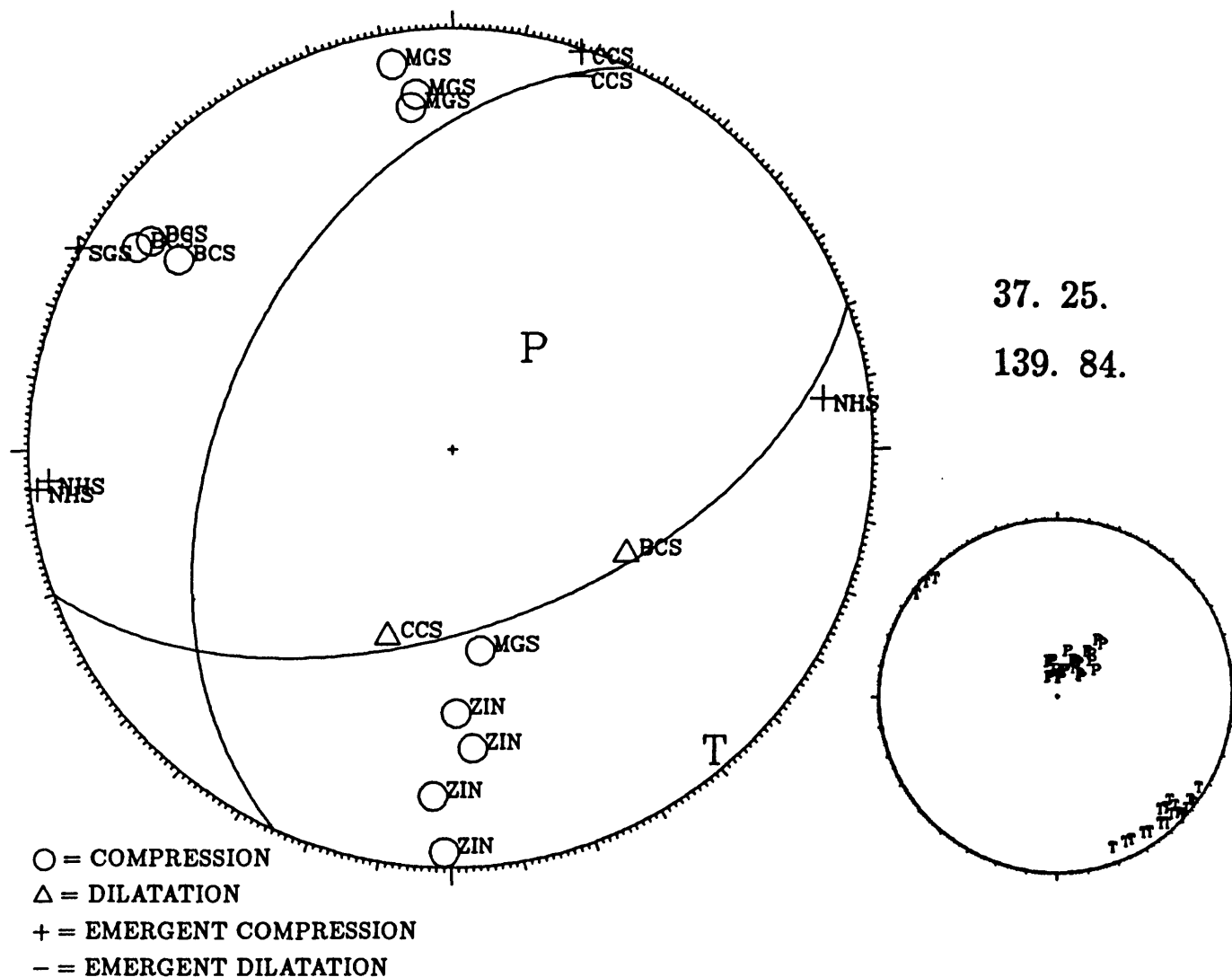
180. 42.



○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

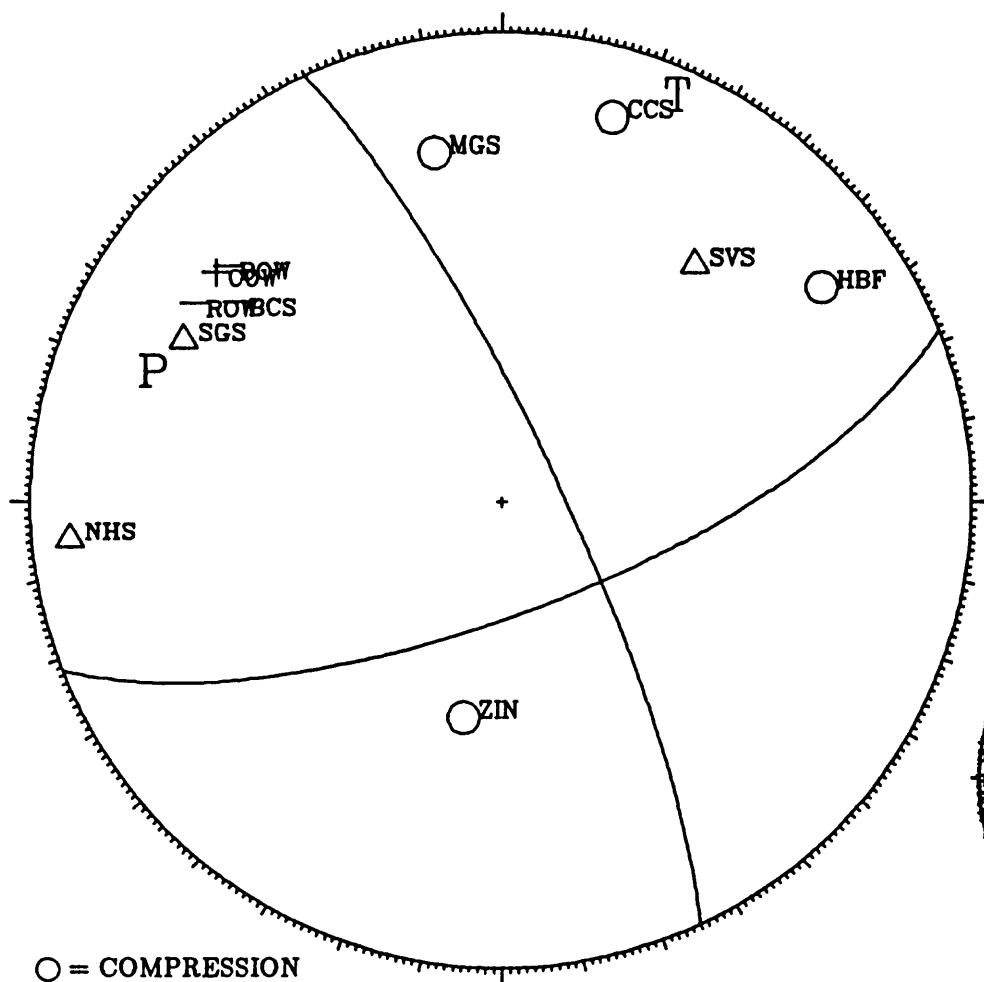
BCS	16.6	303	72	IPC0
BOW	53.1	130	90	EP-0
CCS	27.7	8	89	IPC0
COW	58.0	127	90	EP-0
JSC	166.0	324	53	EPD3
LHS	166.5	340	51	EP-3
MGS	19.5	340	78	IPC0
NHS	42.3	268	90	EPD0
OSB	79.9	132	90	EPD3
PBS	24.5	167	89	IPC0
PRM	229.0	299	50	EP-0
ROW	64.0	121	90	EP+0
SRPD	140.7	274	51	EP-0
SRPN	131.9	102	90	IPD0
SRPW	128.6	96	90	EP-0
SVS	11.1	19	58	IPD0
VSC	81.3	75	90	EPD0
ZIN	6.8	222	40	IPC0

781030	915	6.15	33.039	-80.165	4.07	—
781030	915	12.63	33.039	-80.159	6.69	1.86
781030	916	2.51	33.036	-80.155	5.42	—
781030	916	14.14	33.032	-80.162	0.68	2.45
70.0	55.0	-60.0	204.8	44.8	-125.5	



BCS	11.7	303	78	IPC0	BCS	10.7	305	76	IPC0
CCS	26.1	18	86	EP+0	MGS	15.5	354	74	IPC0
MGS	15.9	351	82	IPC0	NHS	37.5	263	89	EP+0
NHS	38.4	84	77	EP+0	SGS	37.6	117	90	EP+2
ZIN	7.6	183	72	IPC0	ZIN	8.0	176	61	IPC0
BCS	11.2	305	68	IPC0	BCS	11.0	121	40	IPD0
CCS	26.3	19	80	EP-0	CCS	25.5	199	39	IPD0
MGS	15.8	353	71	IPC0	MGS	15.1	172	40	IPC0
NHS	37.8	264	86	EP+0	ZIN	8.4	181	86	IPC0
ZIN	7.6	179	53	IPC0					

79 1272355 14.95 33.047 -80.173 9.33 2.80  
 -25.0 80.0 -20.0 68.6 70.3 -169.4



290. 69.  
 23. 83.

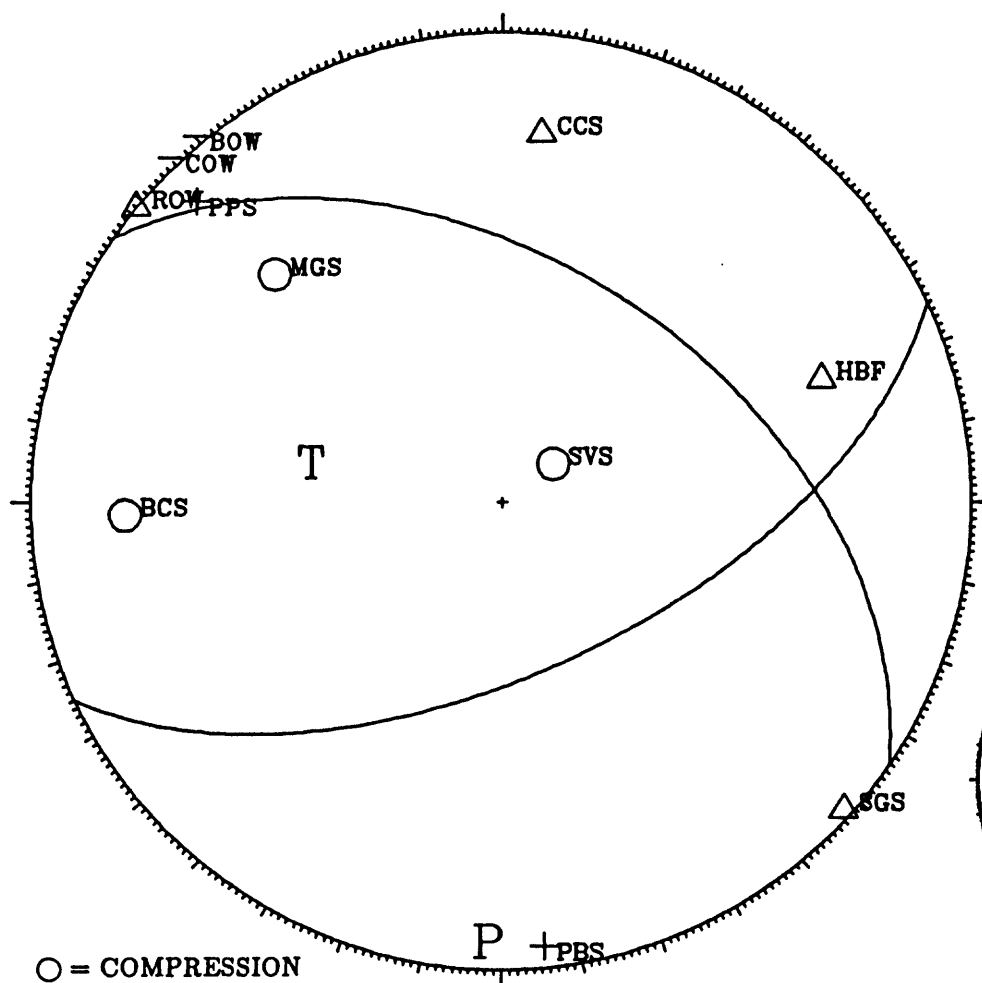


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

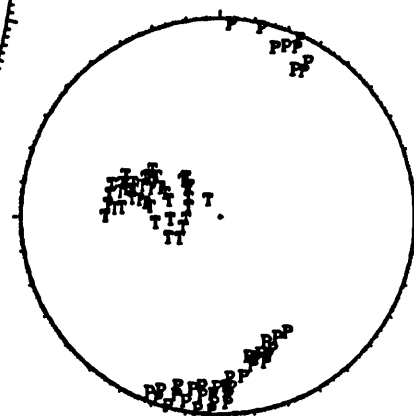
BCS	12.8	305	59	EPD0
BOW	56.9	309	65	EP-2
CCS	26.7	16	74	IPC0
COW	61.8	307	66	EP+0
HBF	22.9	56	71	IPC0
MGS	16.9	349	65	IPC0
NHS	39.0	265	81	IPD0
ROW	67.8	301	66	EP-0
SGS	35.6	297	65	IPD0
SVS	11.2	39	55	IPD0
ZIN	6.9	190	39	IPC0



79 811 211 56.23 32.978 -80.234 10.53 2.47 ★  
 65.0 60.0 50.0 -55.8 48.4 138.1



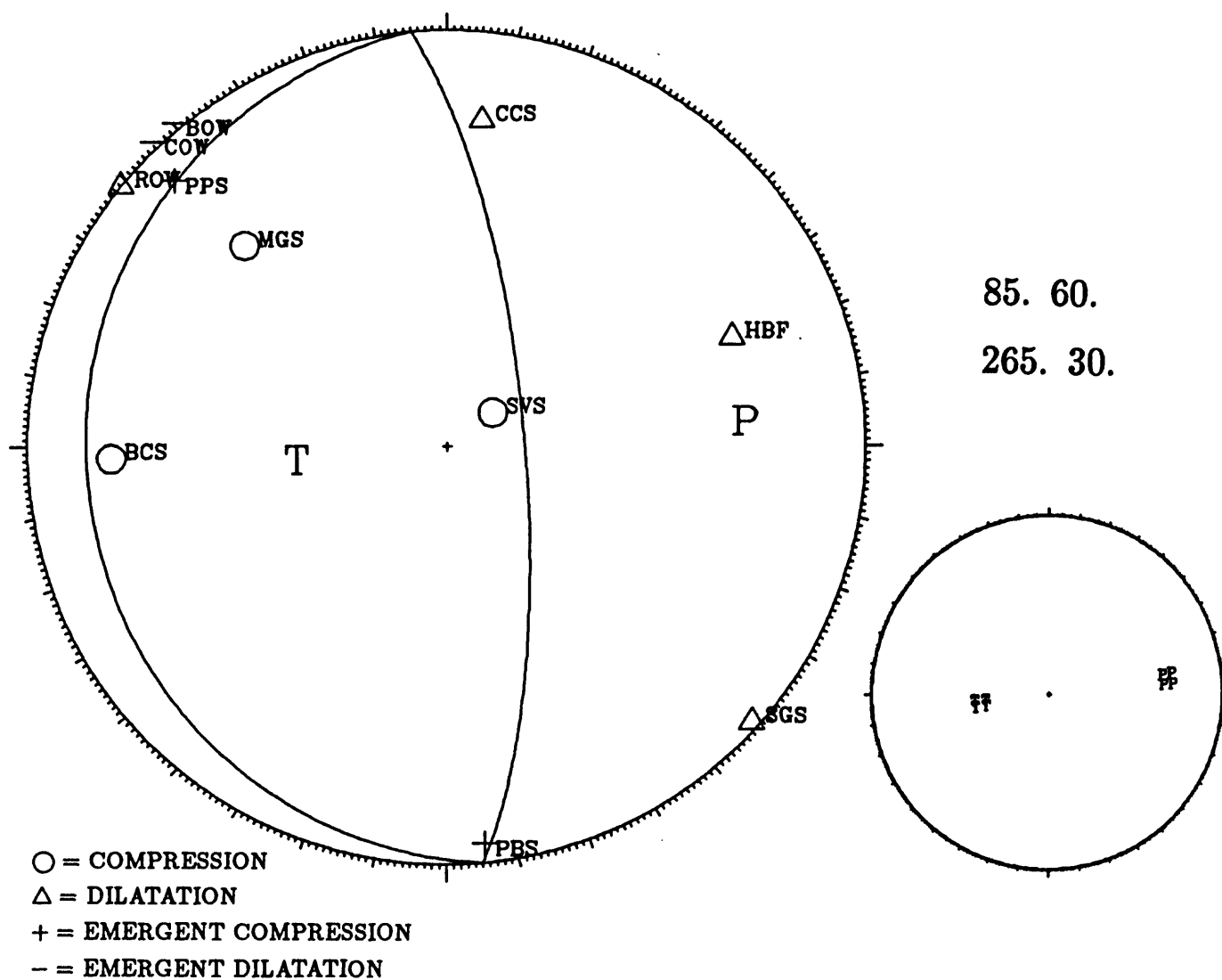
182. 83.  
 282. 35.



○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BCS	16.1	268	69	IPC0
BOW	58.1	139	90	EP-0
CCS	18.1	6	68	IPD0
COW	62.6	135	90	EP-0
HBF	14.4	69	62	IPD0
MGS	12.5	315	58	IPC0
PBS	33.5	175	88	EP+2
PPS	25.0	313	79	EP+0
ROW	67.6	129	90	IPD0
SGS	35.3	132	88	IPD0
SVS	1.7	53	11	IPC0

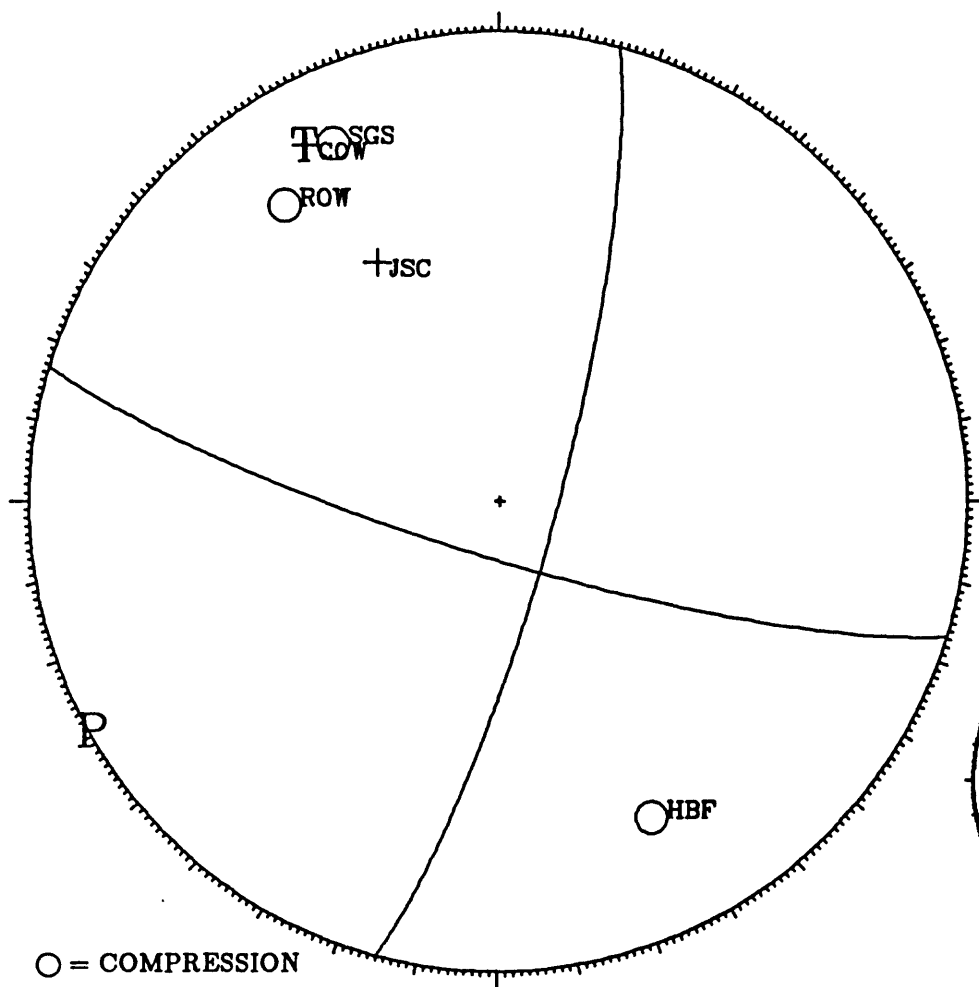
79 811 211 56.23 32.978 -80.234 10.53 2.47 ★  
 -5.0 75.0 90.0 175.0 15.0 90.0



BCS	16.1	268	69	IPC0
BOW	58.1	139	90	EP-0
CCS	18.1	6	68	IPD0
COW	62.6	135	90	EP-0
HBF	14.4	69	62	IPD0
MGS	12.5	315	58	IPC0
PBS	33.5	175	88	EP+2
PPS	25.0	313	79	EP+0
ROW	67.6	129	90	IPD0
SGS	35.3	132	88	IPD0
SVS	1.7	53	11	IPC0

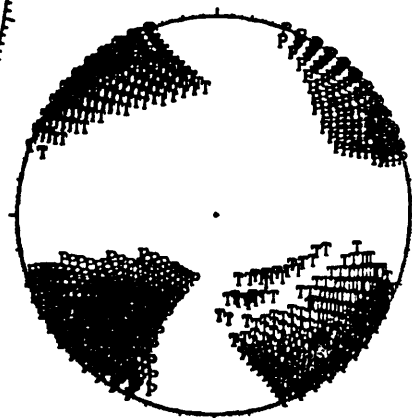
7910 523 5 54.40 32.771 -80.287 9.62 2.13

15.0 80.0 170.0 106.8 80.2 10.2



-119. 90.

331. 76.



○ = COMPRESSION

△ = DILATATION

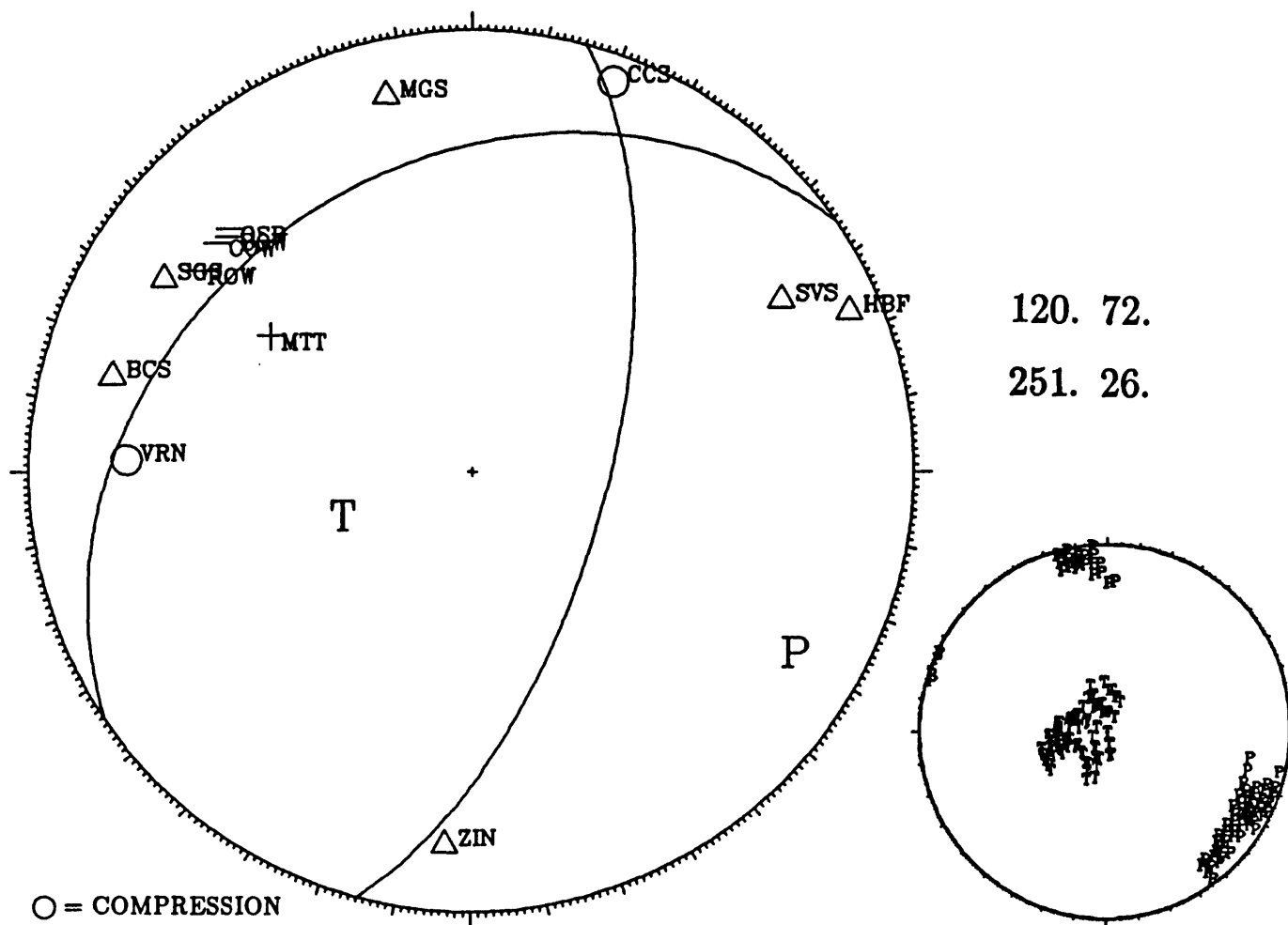
+ = EMERGENT COMPRESSION

- = EMERGENT DILATATION

COW	78.2	330	73	EP+0
HBF	19.9	154	64	IPC0
JSC	189.7	331	46	EP+0
ROW	81.1	324	67	IPC0
SGS	51.3	335	73	IPC0

7912 7 543 34.41 33.006 -80.169 4.81 2.76★

15.0 65.0 70.0 235.7 31.6 126.3



120. 72.

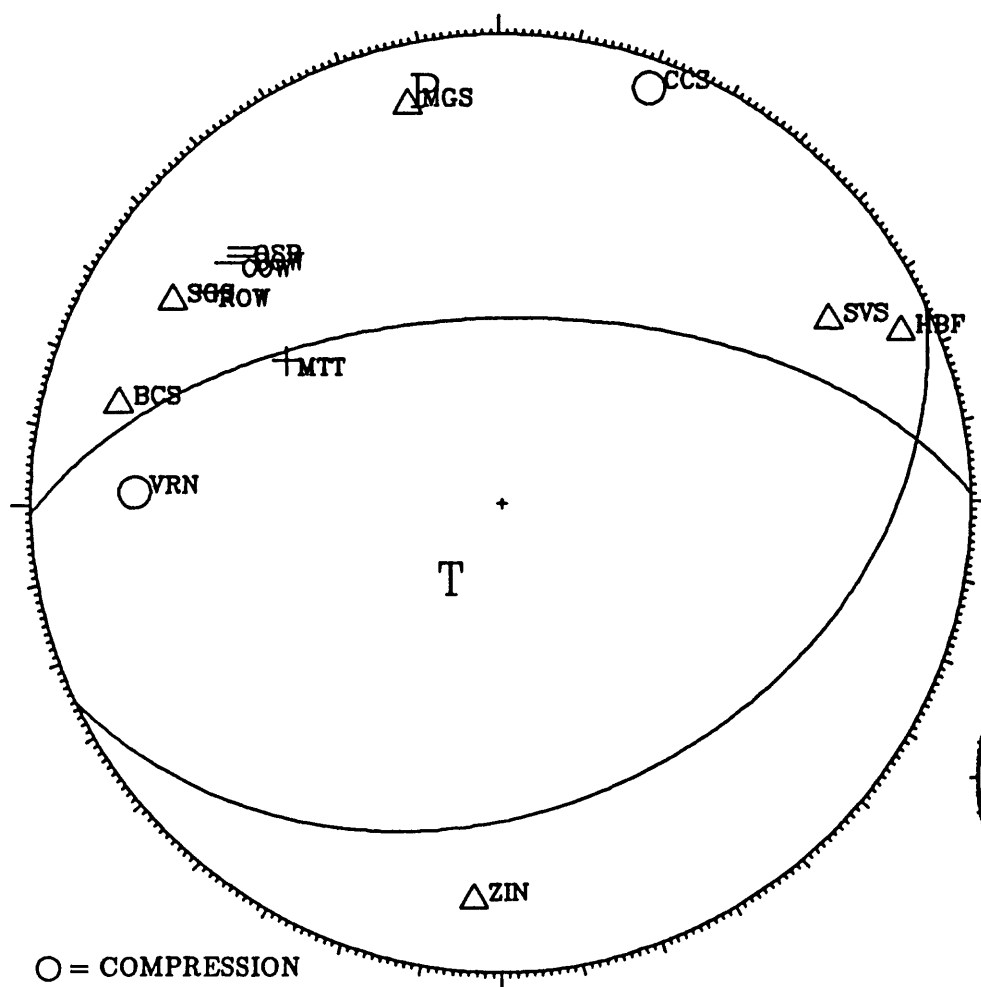
251. 26.

○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BCS	10.4	285	73	IPD0
BOW	60.1	312	64	EP-0
CCS	22.5	20	83	IPC0
COW	64.9	310	65	EP-0
HBF	21.1	67	82	IPD2
MGS	12.4	347	76	IPD0
MTT	159.3	301	45	EP+0
OSB	86.9	313	65	EP-0
ROW	70.6	304	65	EP-0
SGS	38.2	302	71	IPD0
SVS	8.5	61	69	IPD0
VRN	72.3	272	67	IPC0
ZIN	11.3	184	74	IPD0

7912 7 543 34.41 33.006 -80.169 4.81 2.76 ★

65.0 35.0 70.0 269.0 57.4 103.5



-11. 79.

215. 16.

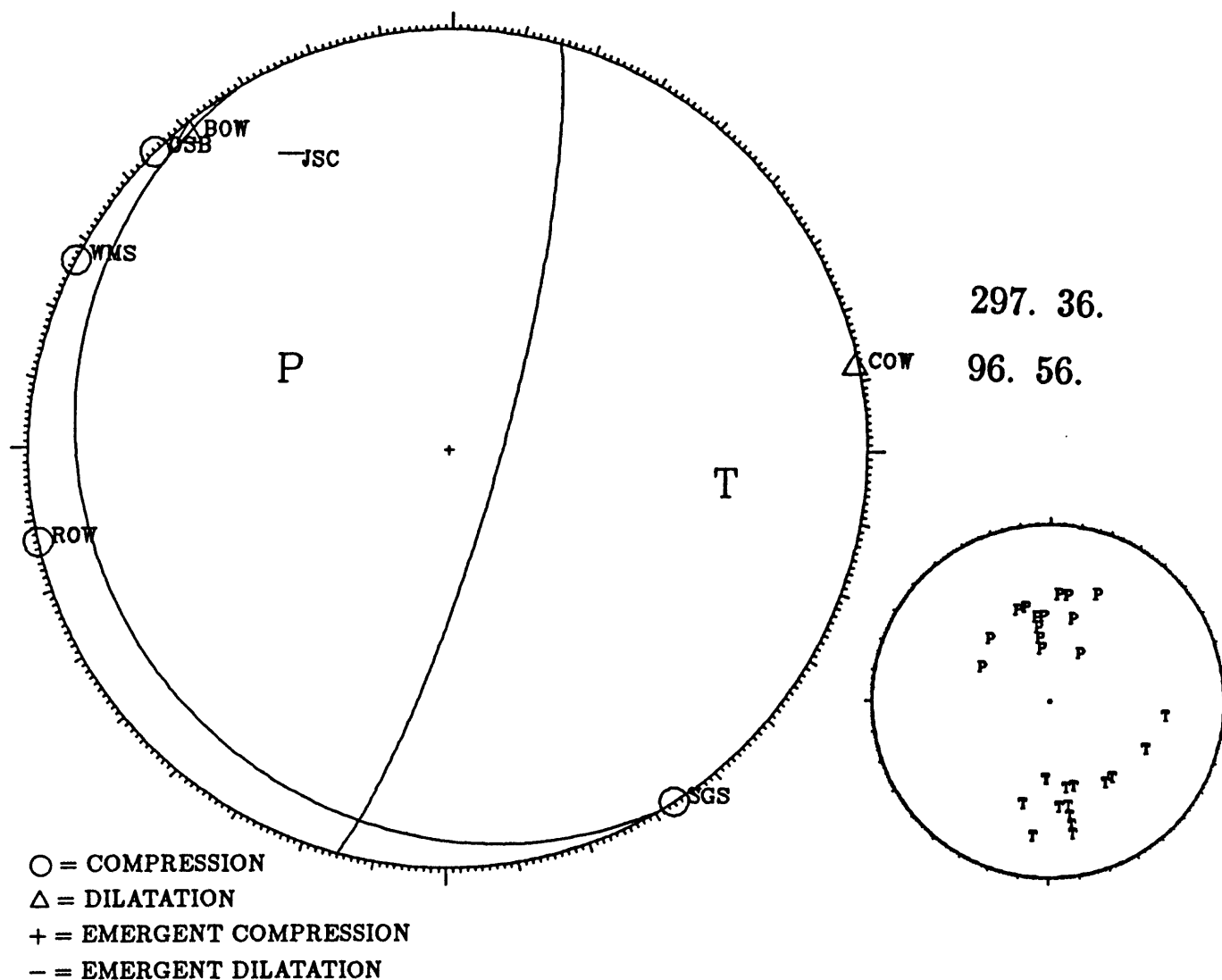


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BCS	10.4	285	73	IPD0
BOW	60.1	312	64	EP-0
CCS	22.5	20	83	IPC0
COW	64.9	310	65	EP-0
HBF	21.1	67	82	IPD2
MGS	12.4	347	76	IPD0
MTT	159.3	301	45	EP+0
OSB	86.9	313	65	EP-0
ROW	70.6	304	65	EP-0
SGS	38.2	302	71	IPD0
SVS	8.5	61	69	IPD0
VRN	72.3	272	67	IPC0
ZIN	11.3	184	74	IPD0

80 7 12333 19.75 33.391 -80.660 2.05 1.59

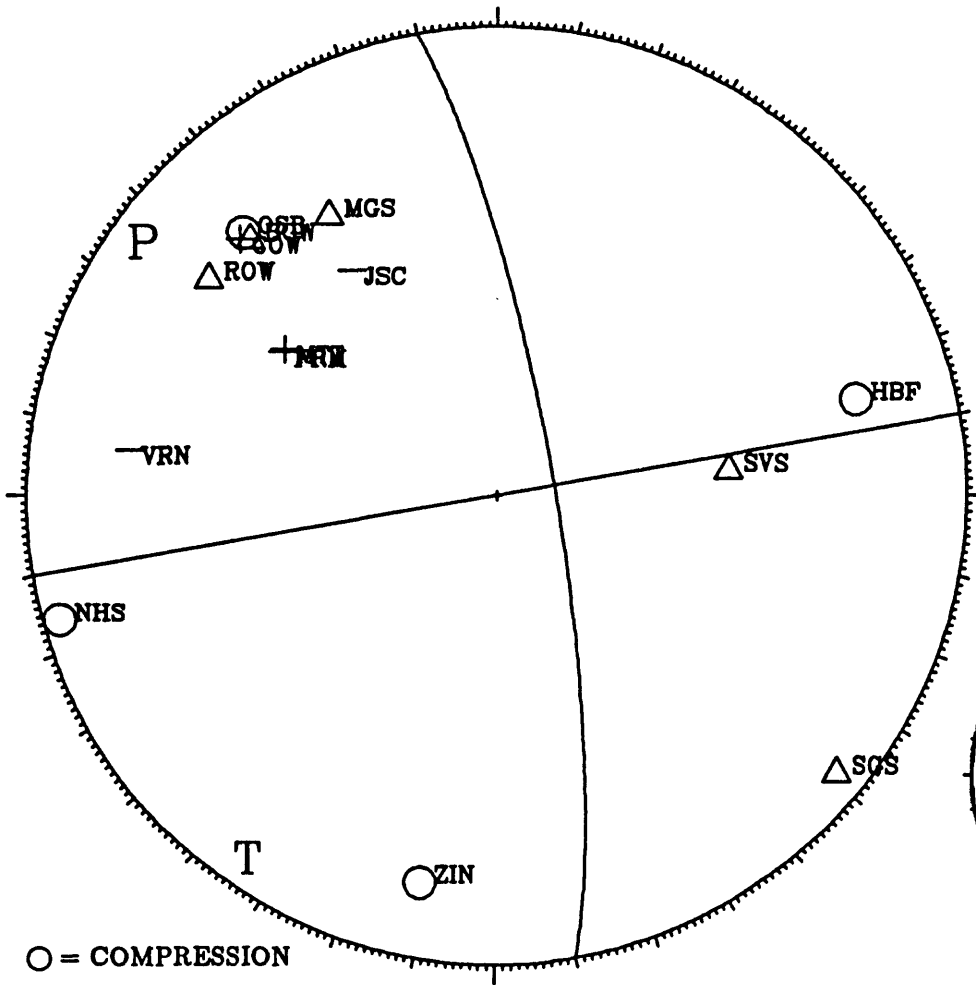
15.0 80.0 -80.0 149.6 14.1 -134.6



BOW	2.5	320	87	IPD0
COW	3.9	78	89	IPD0
JSC	112.7	330	67	EP-3
OSB	24.3	135	90	IPC0
ROW	12.9	77	90	IPC0
SGS	25.9	327	90	IPC0
WMS	8.4	117	90	IPC0

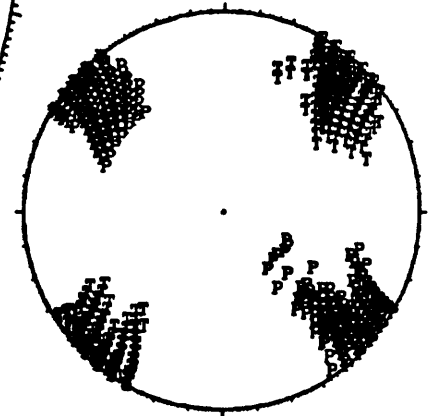
80 9 1 544 41.75 32.973 -80.193 7.22 2.86★

80.0 90.0 -170.0 -10.0 80.0 0.0



305. 83.

215. 83.

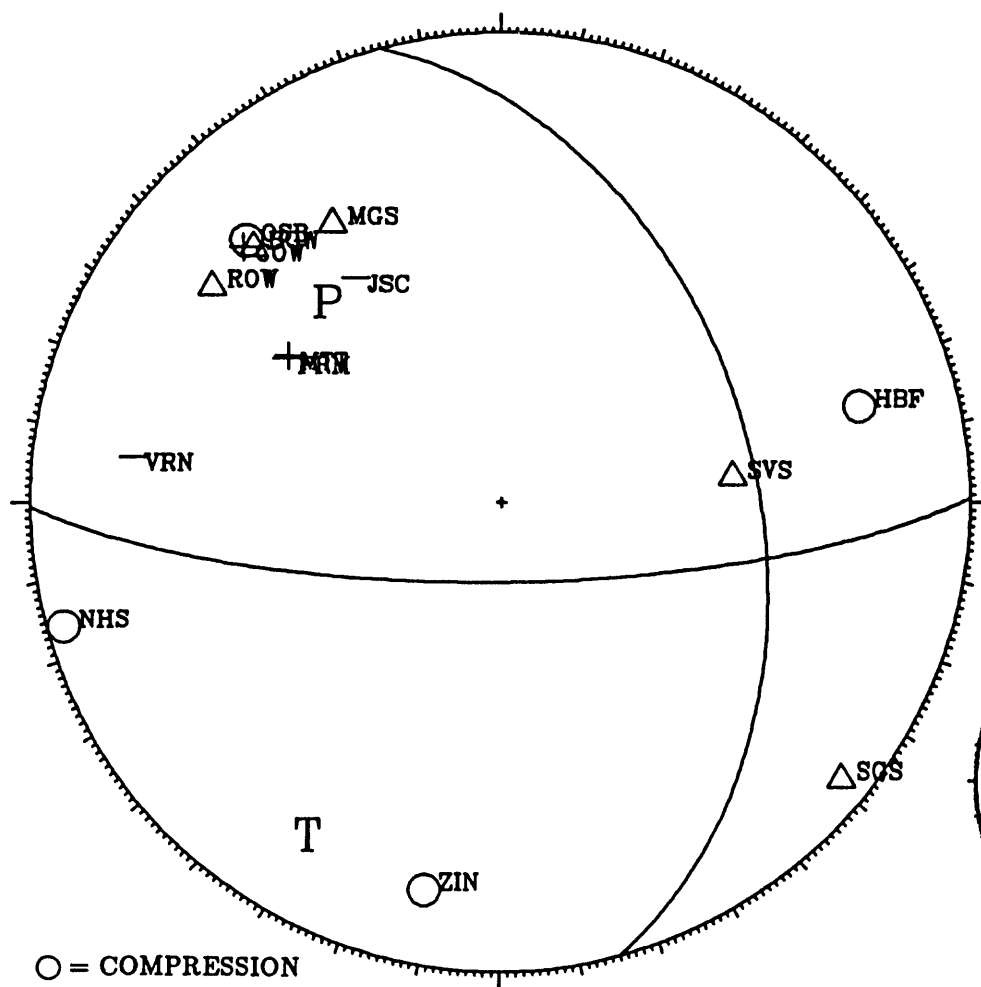


○ = COMPRESSION  
 Δ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BOW	61.1	316	65	IPD0
COW	65.7	313	65	EP+0
HBF	17.9	75	68	IPC0
JSC	175.1	325	46	EPD0
MGS	9.7	329	59	IPD0
MTT	159.3	302	45	EP+0
NHS	42.2	254	86	IPC0
OSB	87.9	316	67	EPC0
PRM	235.4	301	45	EP-0
ROW	71.0	307	66	IPD0
SGS	38.5	129	83	IPD0
SVS	5.2	84	41	IPD0
VRN	70.3	275	68	IP-0
ZIN	15.3	191	73	IPC0

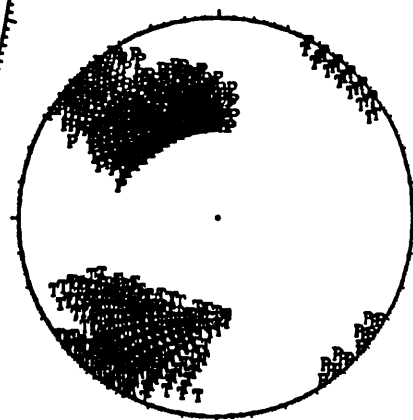
80 9 1 544 41.75 32.973 -80.193 7.22 2.86★

-15.0 45.0 -20.0 89.4 76.0 -133.2



319. 48.

-150. 71.



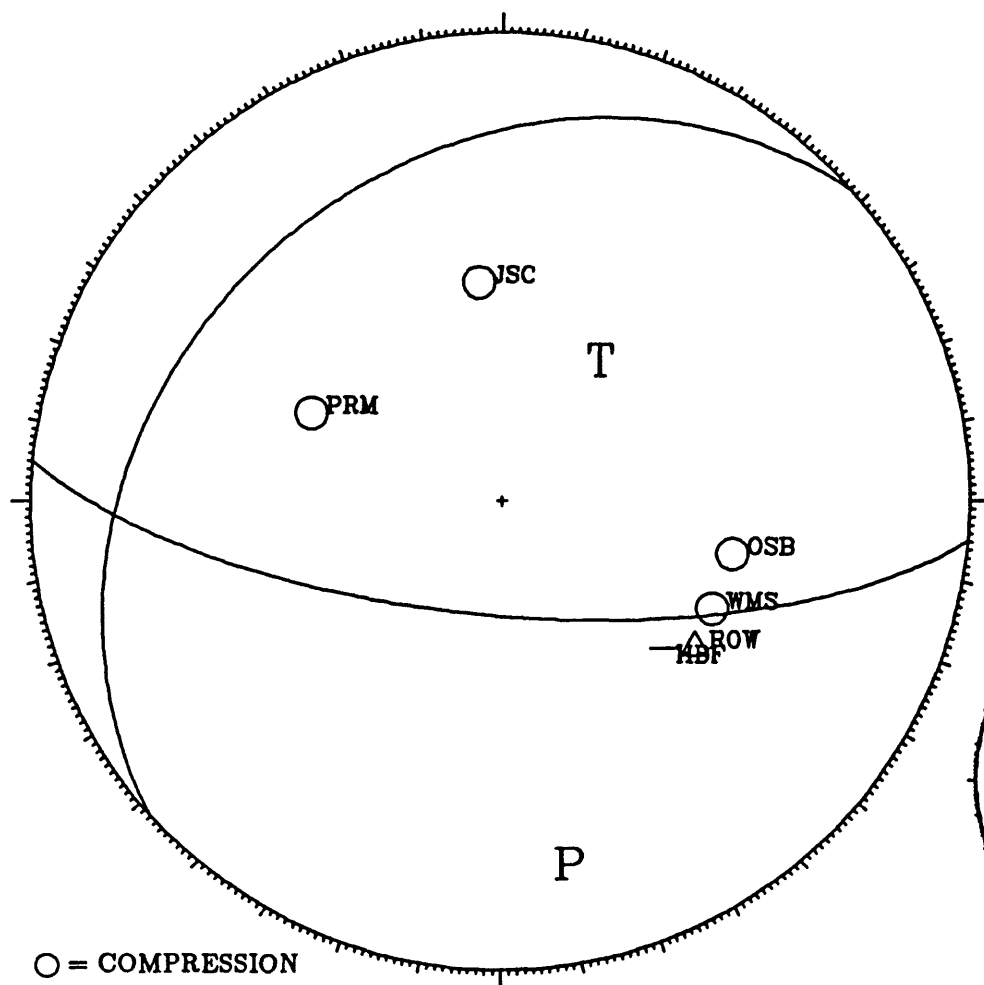
○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BOW	61.1	316	65	IPD0
COW	65.7	313	65	EP+0
HBF	17.9	75	68	IPC0
JSC	175.1	325	46	EPD0
MGS	9.7	329	59	IPD0
MTT	159.3	302	45	EP+0
NHS	42.2	254	86	IPC0
OSB	87.9	316	67	EPC0
PRM	235.4	301	45	EP-0
ROW	71.0	307	66	IPD0
SGS	38.5	129	83	IPD0
SVS	5.2	84	41	IPD0
VRN	70.3	275	68	IP-0
ZIN	15.3	191	73	IPC0



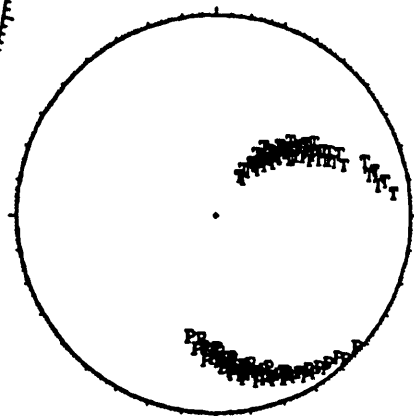
81 221 448 26.54 33.615 -81.178 1.23 2.00 ★

95.0 70.0 110.0 228.2 28.0 46.8



170. 68.

34. 30.



○ = COMPRESSION

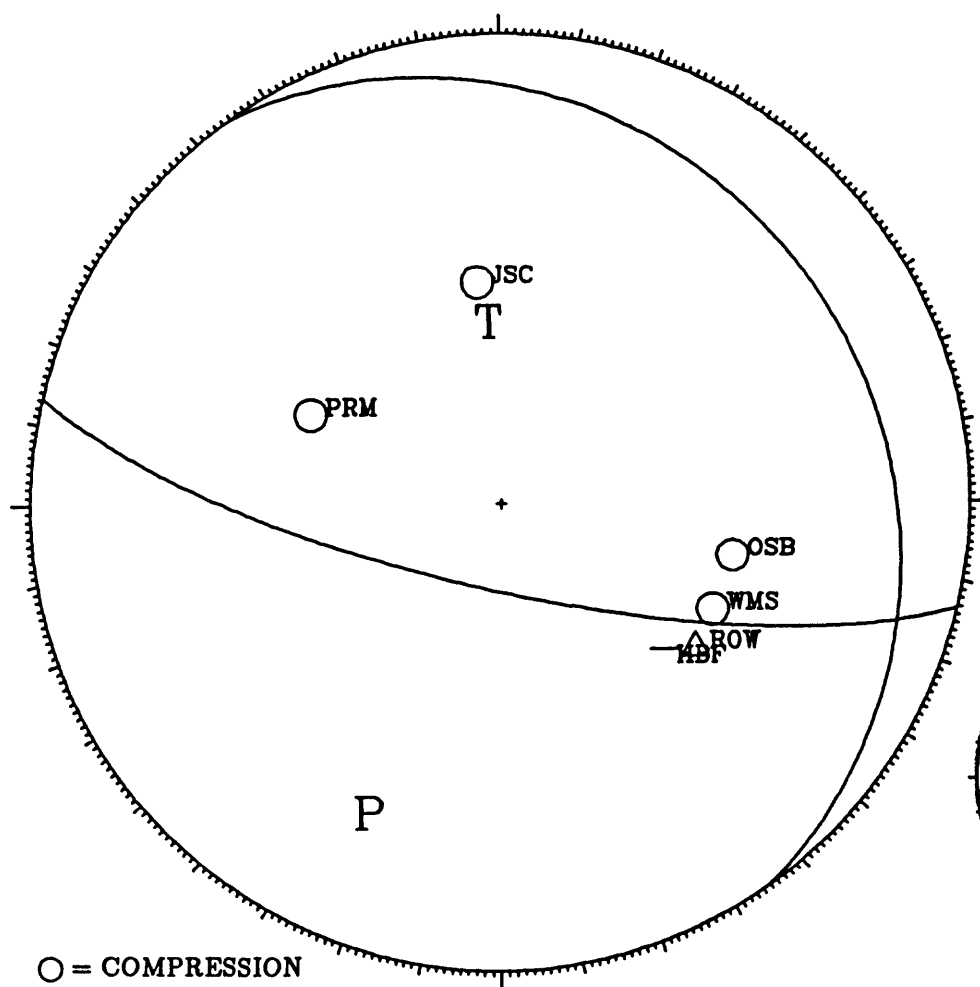
△ = DILATATION

+ = EMERGENT COMPRESSION

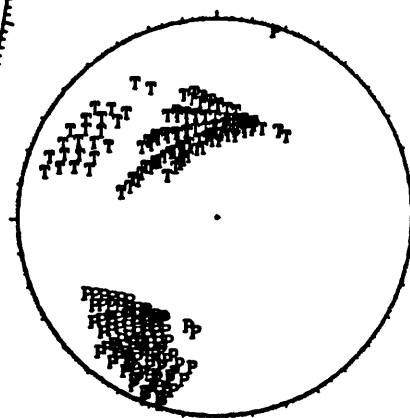
- = EMERGENT DILATATION

HBF	106.0	135	40	EP-0
JSC	74.0	354	39	IPC0
OSB	31.8	103	42	IPC0
PRM	120.8	295	37	IPC0
ROW	45.0	127	43	IPD0
WMS	45.6	117	42	IPC0

81 221 448 26.54 33.615 -81.178 1.23 2.00 ★  
 -35.0 20.0 130.0 103.2 74.8 76.8



-156. 61.  
 355. 32.

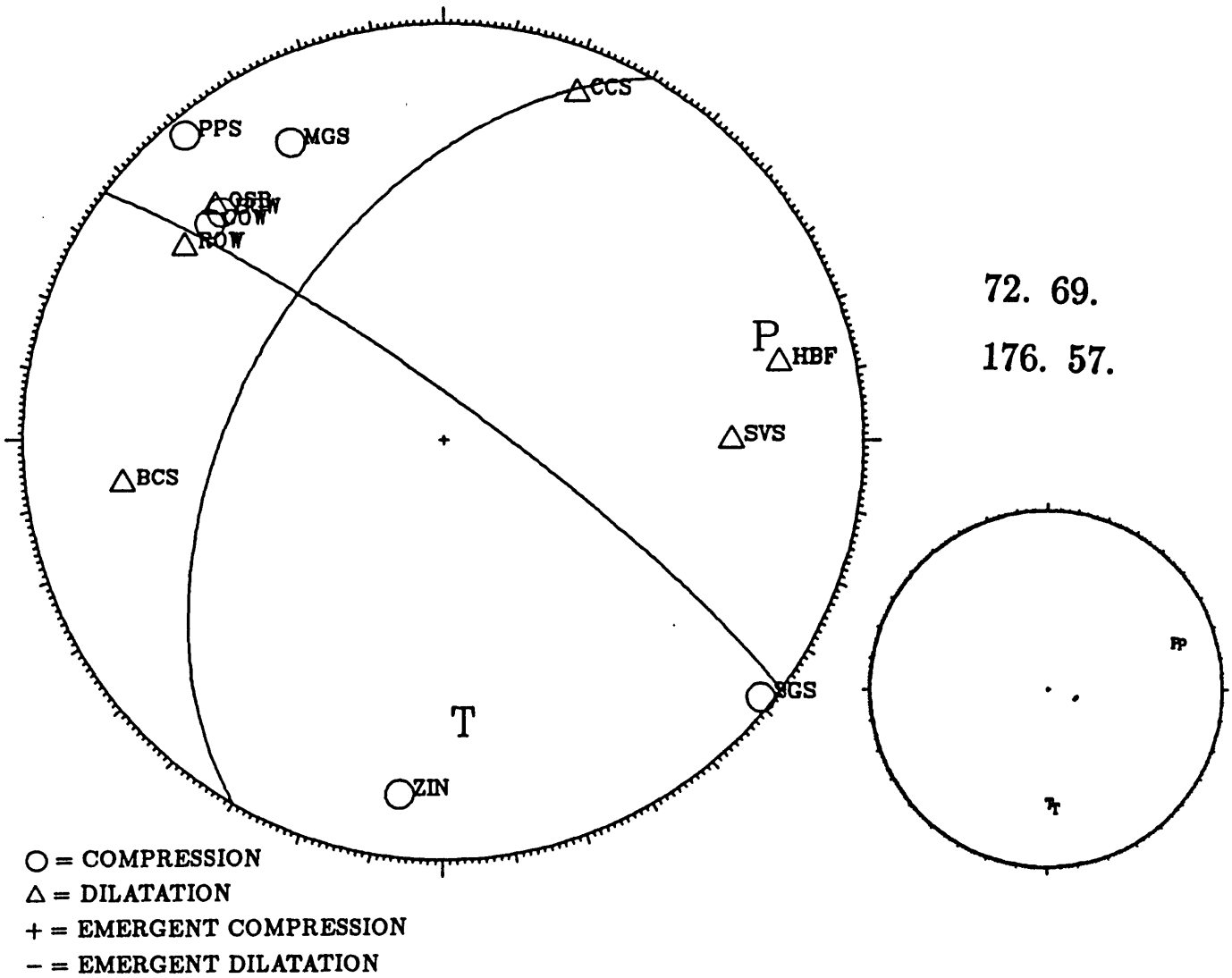


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

HBF	106.0	135	40	EP-0
JSC	74.0	354	39	IPC0
OSB	31.8	103	42	IPC0
PRM	120.8	295	37	IPC0
ROW	45.0	127	43	IPD0
WMS	45.6	117	42	IPC0

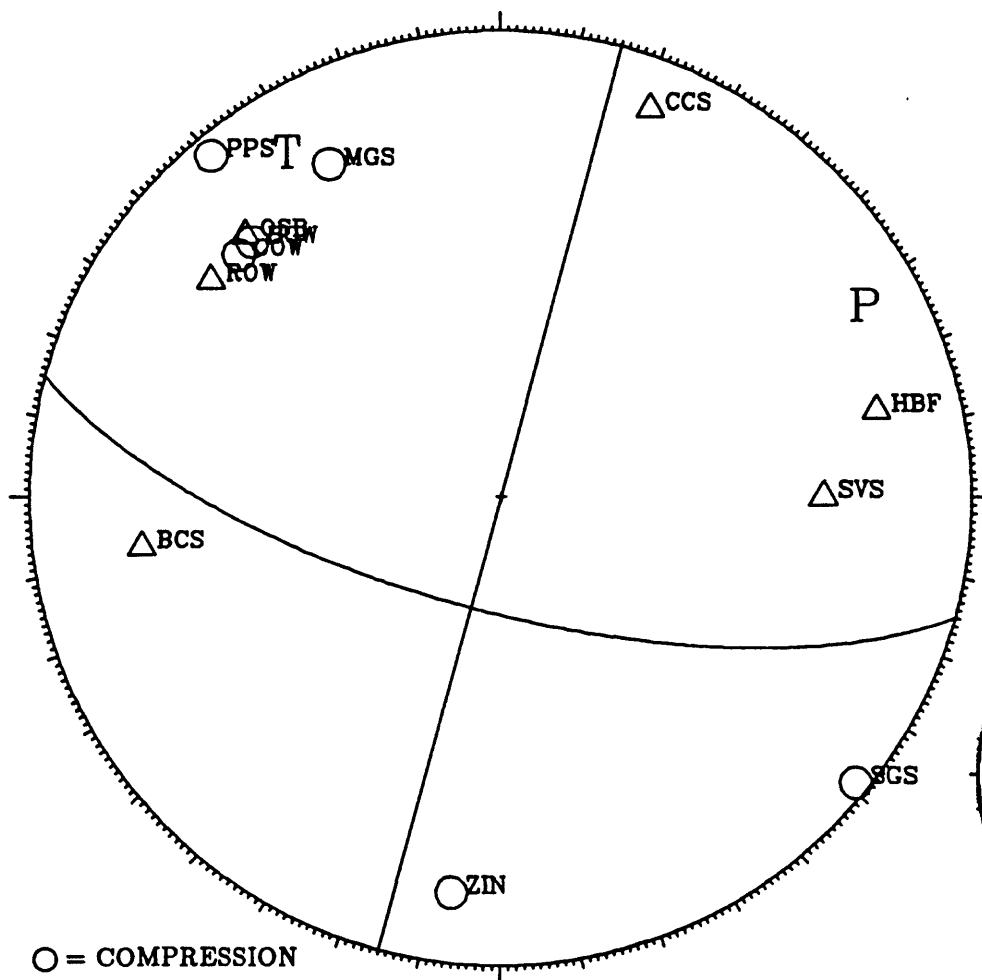
81 319 433 54.90 32.968 -80.183 5.38 2.27 ★

210.0 50.0 170.0 -53.5 82.4 40.4

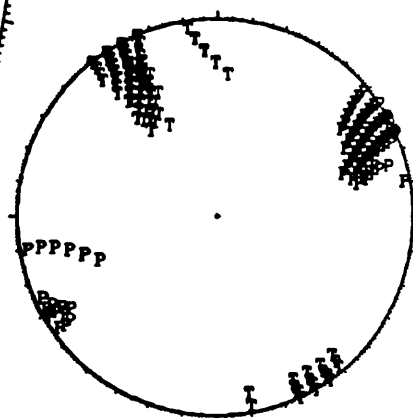


BCS	11.4	262	66	IPD0
BOW	62.2	316	65	IPC0
CCS	18.1	21	78	IPD0
COW	66.8	313	65	IPC0
HBF	18.6	77	71	IPD0
MGS	8.8	333	69	IPC0
OSB	89.0	316	67	IPD0
PPS	20.9	320	85	IPC0
ROW	72.0	307	66	IPD0
SGS	39.6	129	87	IPC0
SVS	6.1	90	58	IPD0
ZIN	15.7	187	74	IPC0

81 319 433 54.90    32.968    -80.183    5.38    2.27★  
 105.0    70.0    0.0    15.0    90.0    160.0



62. 76.  
 328. 76.

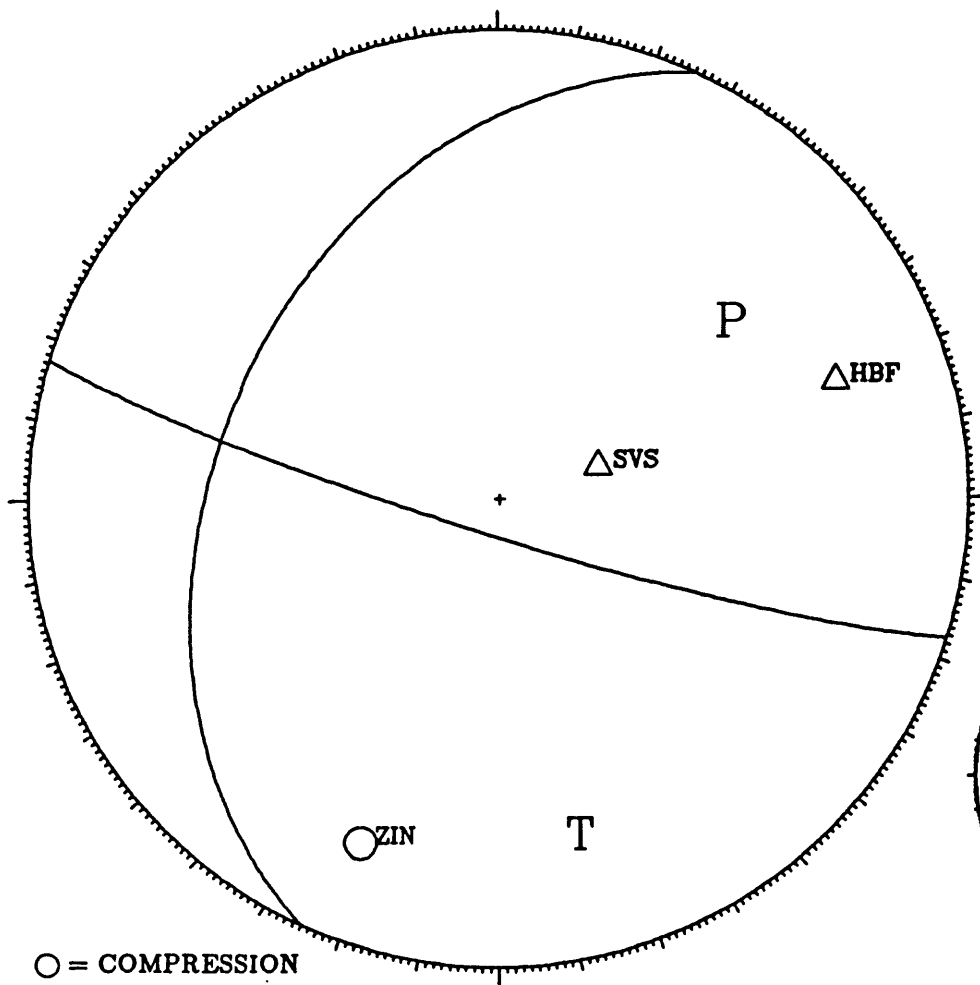


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BCS	11.4	262	66	IPD0
BOW	62.2	316	65	IPC0
CCS	18.1	21	78	IPD0
COW	66.8	313	65	IPC0
HBF	18.6	77	71	IPD0
MGS	8.8	333	69	IPC0
OSB	89.0	316	67	IPD0
PPS	20.9	320	85	IPC0
ROW	72.0	307	66	IPD0
SGS	39.6	129	87	IPC0
SVS	6.1	90	58	IPD0
ZIN	15.7	187	74	IPC0

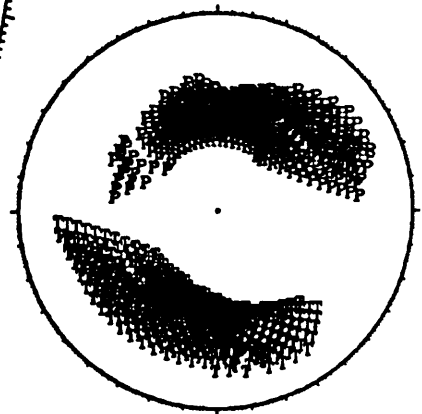
81 326 912 50.60    32.975    -80.226    7.82    1.39

205.0    40.0    -170.0    107.3    83.6    -50.4



52. 52.

167. 62.

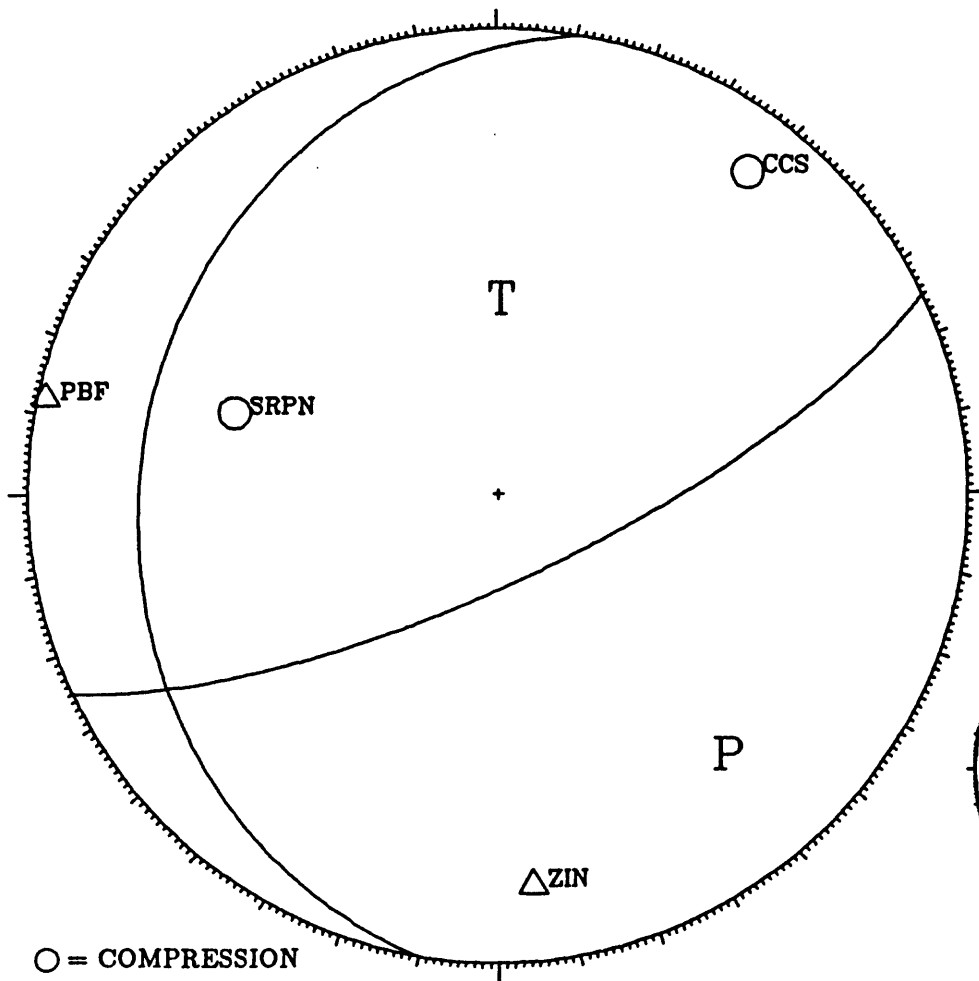


○ = COMPRESSION  
 Δ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

HBF	14.9	71	65	IPD0
SVS	2.2	72	18	IPD0
ZIN	16.0	202	68	IPC0

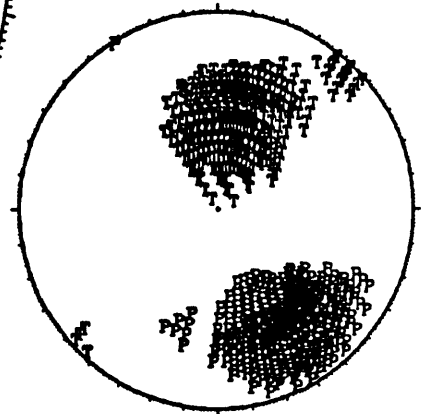
82 3 1 333 13.14 32.935 -80.143 6.08 2.82

65.0 75.0 110.0 190.4 24.8 38.1



139. 63.

0. 34.



○ = COMPRESSION

△ = DILATATION

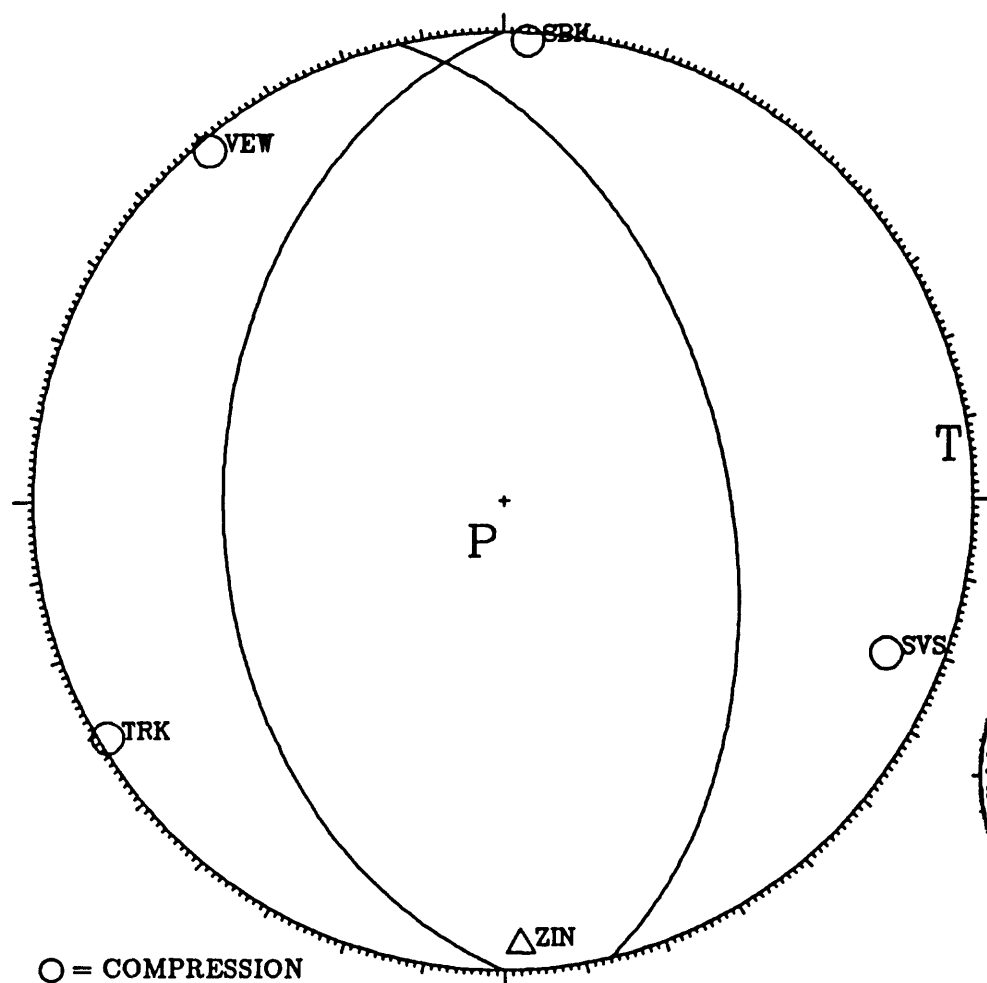
+ = EMERGENT COMPRESSION

- = EMERGENT DILATATION

CCS	16.8	38	76	IPC0
PBF	36.7	282	88	IPD0
SRPN	141.6	287	49	IPC0
ZIN	19.2	175	73	IPD0

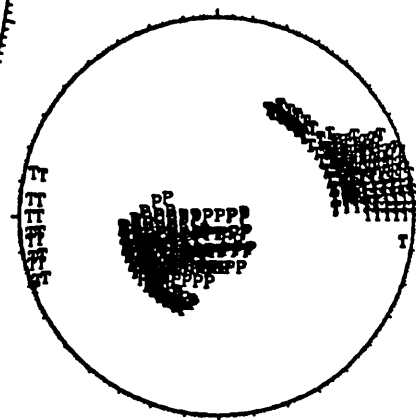
83 32212 0 3.48 32.936 -80.155 3.84 2.10

180.0 40.0 -80.0 -13.0 50.7 -98.3



213. 8.

83. 85.

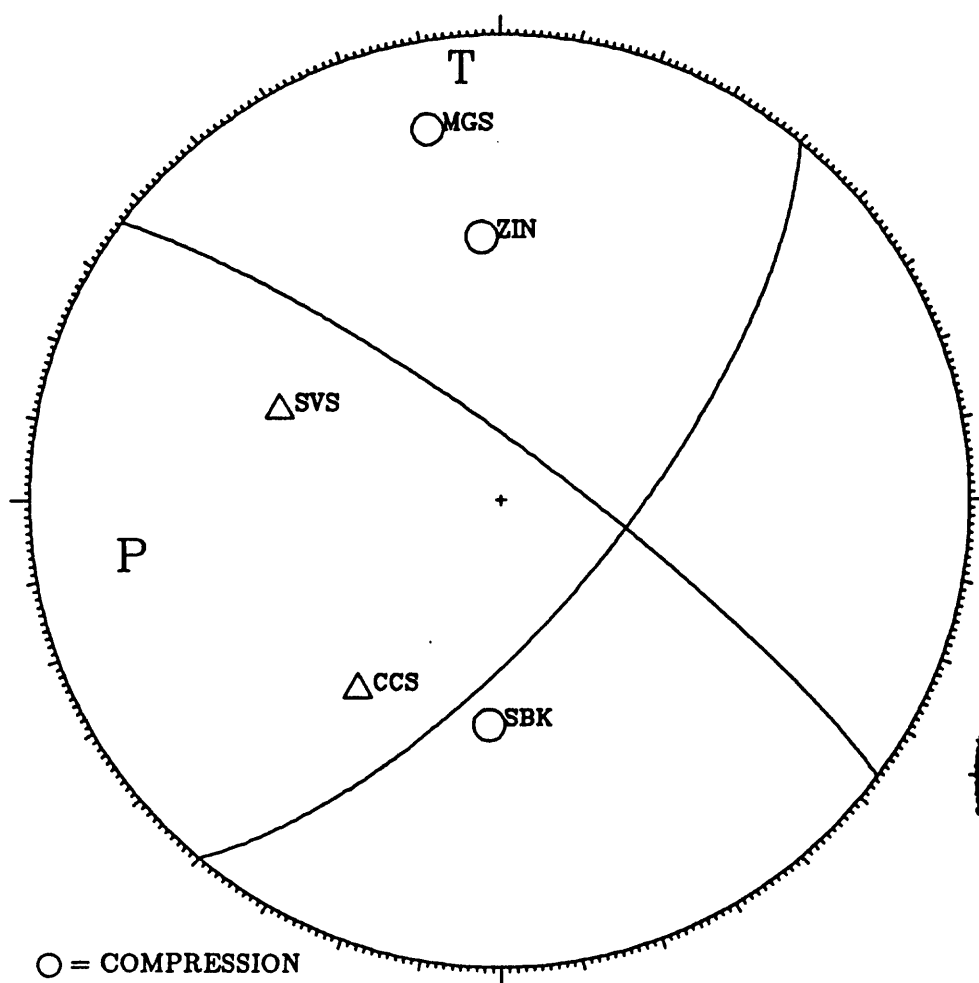


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

SBK	41.0	3	88	IPC0
SVS	9.5	112	77	IPC0
TRK	40.8	239	88	IPC0
VEW	31.5	320	87	EPC0
ZIN	19.1	178	84	IPD0

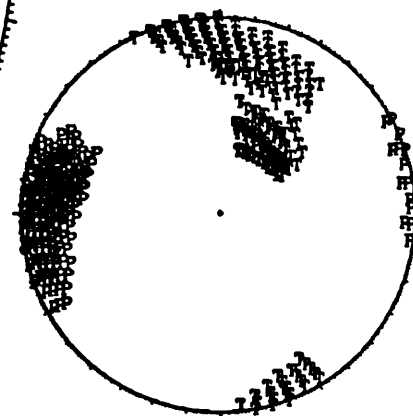
83 626 744 40.38 32.934 -80.149 1.52 2.00★

40.0 70.0 -170.0 -53.5 80.6 -20.3



262. 69.

-5. 83.

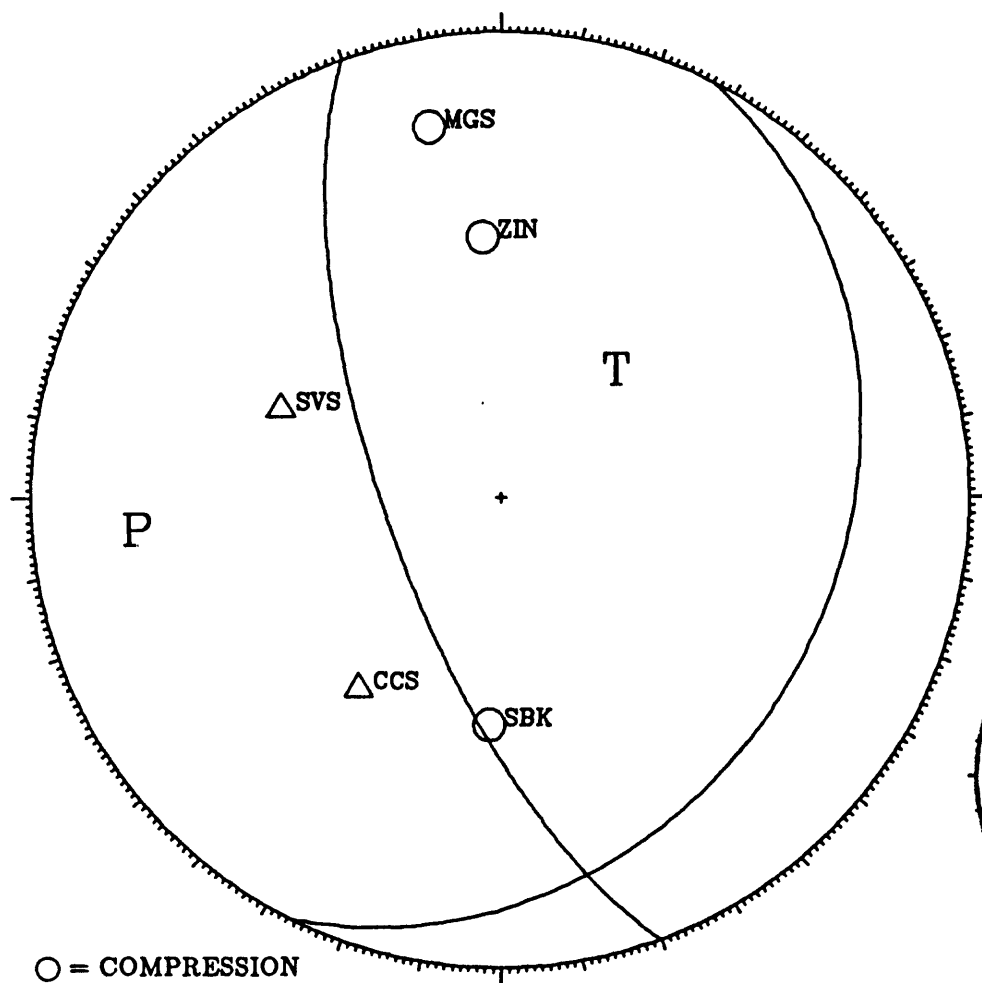


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

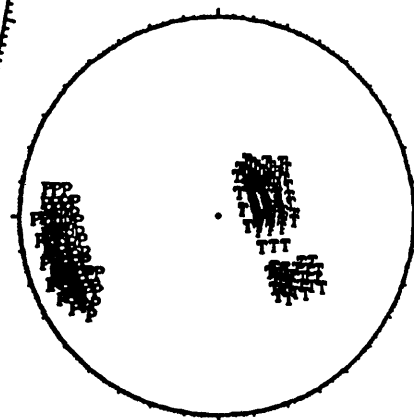
CCS	16.4	217	42	IPD0
MGS	4.2	349	70	IPC0
SBK	40.8	183	40	IPC0
SVS	10.1	292	42	IPD0
ZIN	19.3	356	47	IPC0



83 626 744 40.38 32.934 -80.149 1.52 2.00 ★  
 160.0 70.0 70.0 26.8 28.0 133.2



265. 68.  
 41. 30.

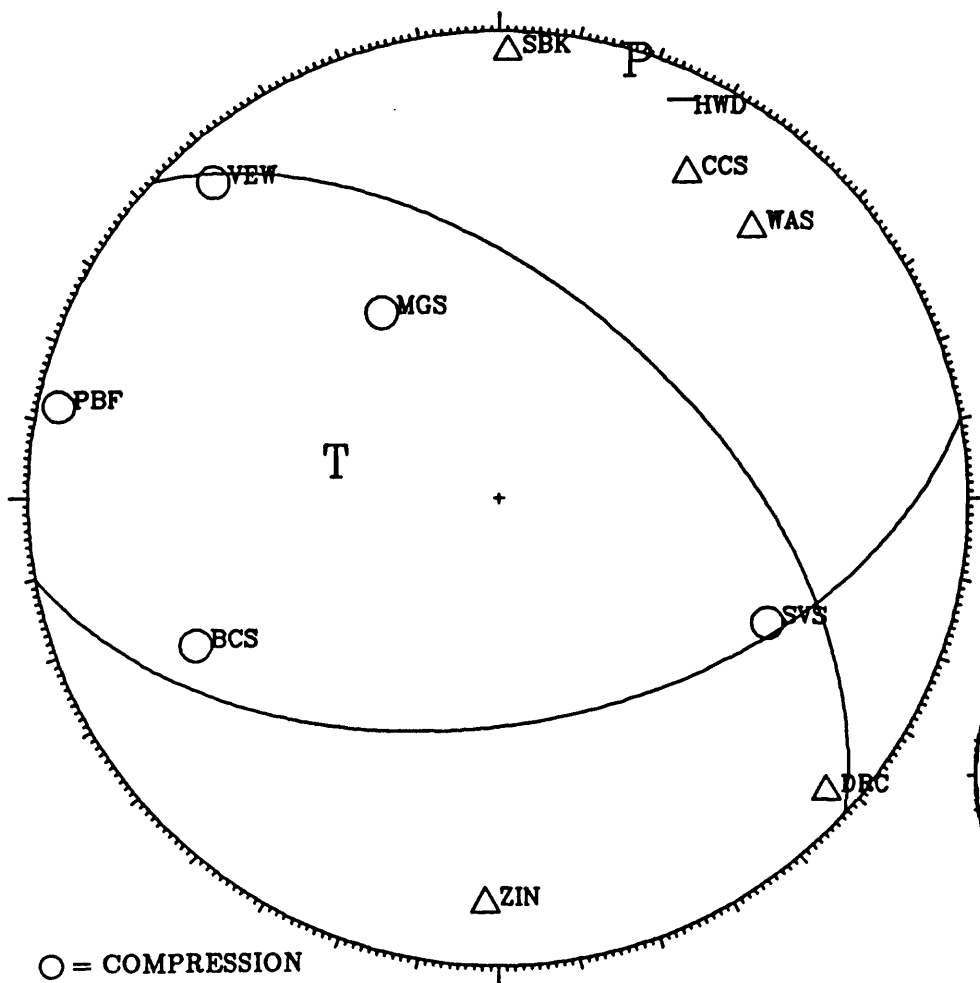


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

CCS	16.4	217	42	IPD0
MGS	4.2	349	70	IPC0
SBK	40.8	183	40	IPC0
SVS	10.1	292	42	IPD0
ZIN	19.3	356	47	IPC0

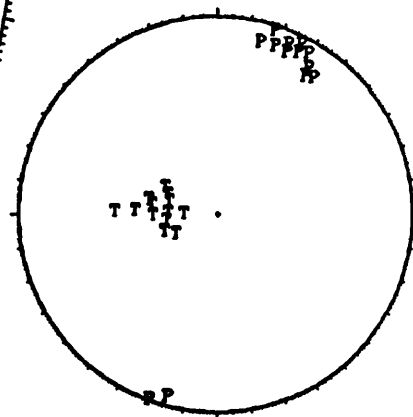
8311 6 9 2 19.94 32.937 -80.170 7.46 3.27

80.0 50.0 50.0 -47.5 54.1 127.5



17. 88.

283. 30.

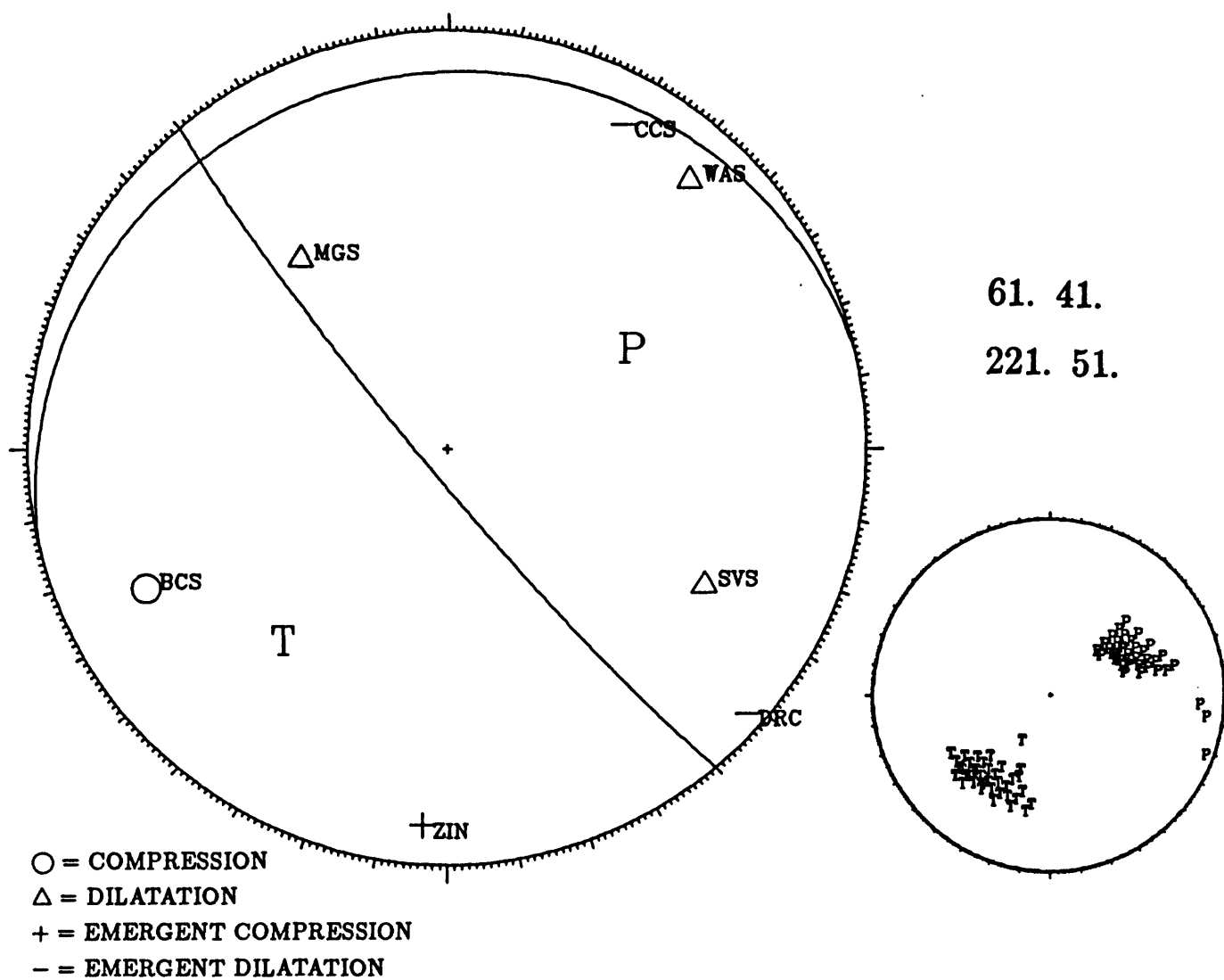


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BCS	11.2	244	61	IPC0
CCS	15.6	30	69	IPD0
DRC	27.9	132	83	IPD0
HWD	24.4	25	80	EPD0
MGS	5.2	328	39	IPC0
PBF	39.2	282	85	IPC0
SBK	41.0	1	85	IPD0
SVS	8.2	115	53	IPC0
VEW	32.4	318	80	IPC0
WAS	13.7	43	68	IPD0
ZIN	19.0	182	76	IPD0

8311 6 9 4 15.10 32.936 -80.176 6.01 2.12

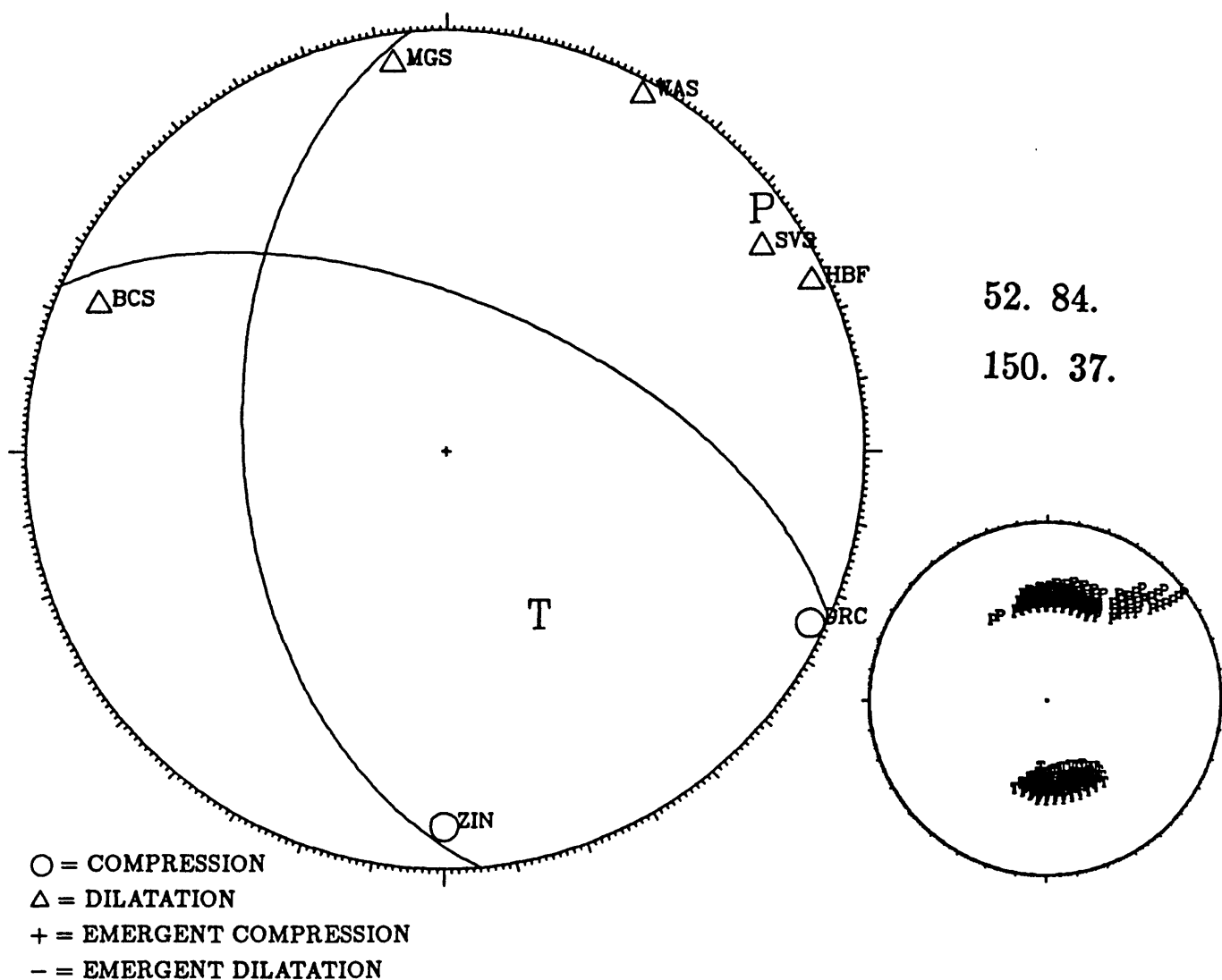
140.0 85.0 -80.0 256.3 11.2 -153.3



BCS	11.8	245	68	IPC0
CCS	15.2	29	74	EP-0
DRC	27.5	133	87	EP-0
MGS	5.4	322	48	IPD0
SVS	7.7	118	59	IPD0
WAS	13.3	42	75	IPD0
ZIN	19.1	184	83	EP+0

85 5192329 13.83 33.016 -80.160 3.68 1.63

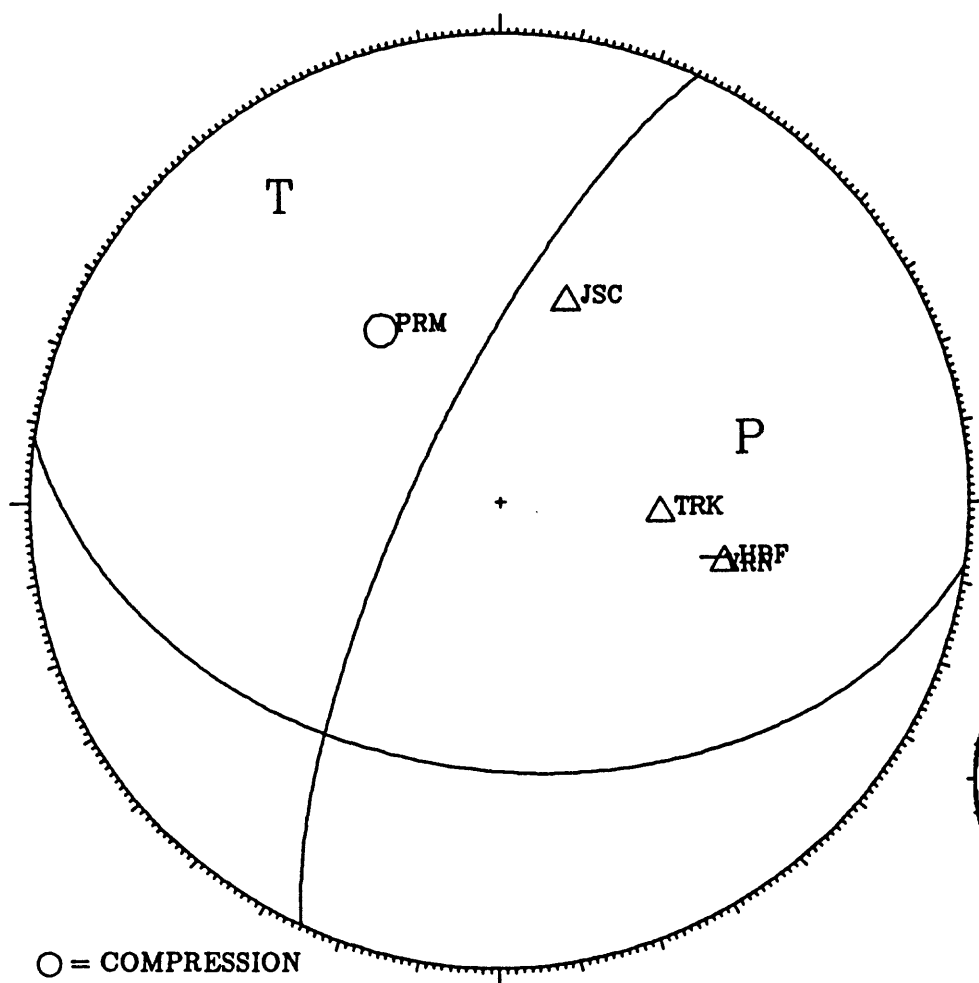
175.0 50.0 140.0 -66.7 60.5 47.6



BCS	10.0	293	79	IPD0
DRC	23.7	115	86	IPC0
HBF	22.3	65	86	IPD2
MGS	13.3	352	82	IPD0
SVS	9.8	57	79	IPD0
WAS	21.4	29	86	IPD0
ZIN	10.2	180	79	IPC0

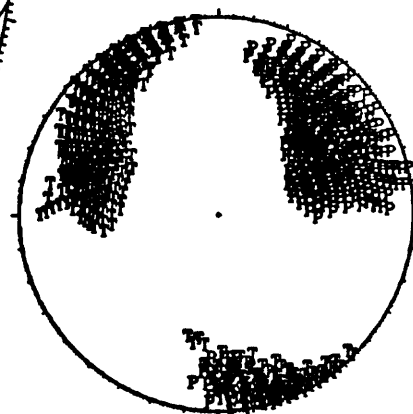
85 6 9 038 41.61 33.244 -81.669 1.00 2.70

205.0 75.0 -130.0 97.9 42.3 -22.6



75. 45.

324. 70.



○ = COMPRESSION

△ = DILATATION

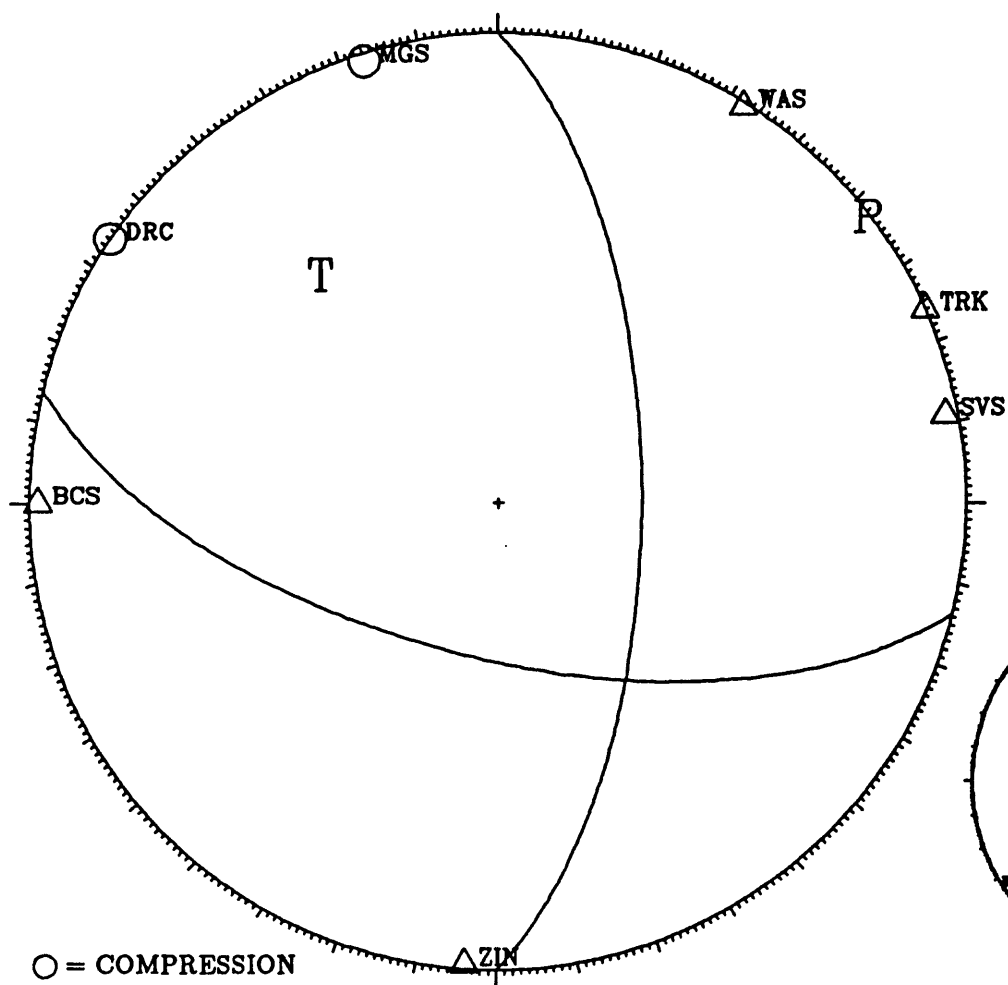
+ = EMERGENT COMPRESSION

- = EMERGENT DILATATION

HBF	125.2	105	41	IPD0
JSC	121.3	18	37	IPD0
PRM	112.4	325	37	IPC0
TRK	176.9	94	28	IPD0
VRN	71.4	108	39	EP-0

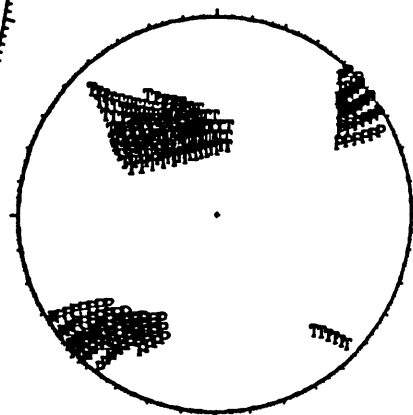
86 3 92349 15.45 32.981 -80.171 2.30 2.23

0.0 65.0 150.0 103.7 63.1 28.3



52. 89.

321. 52.

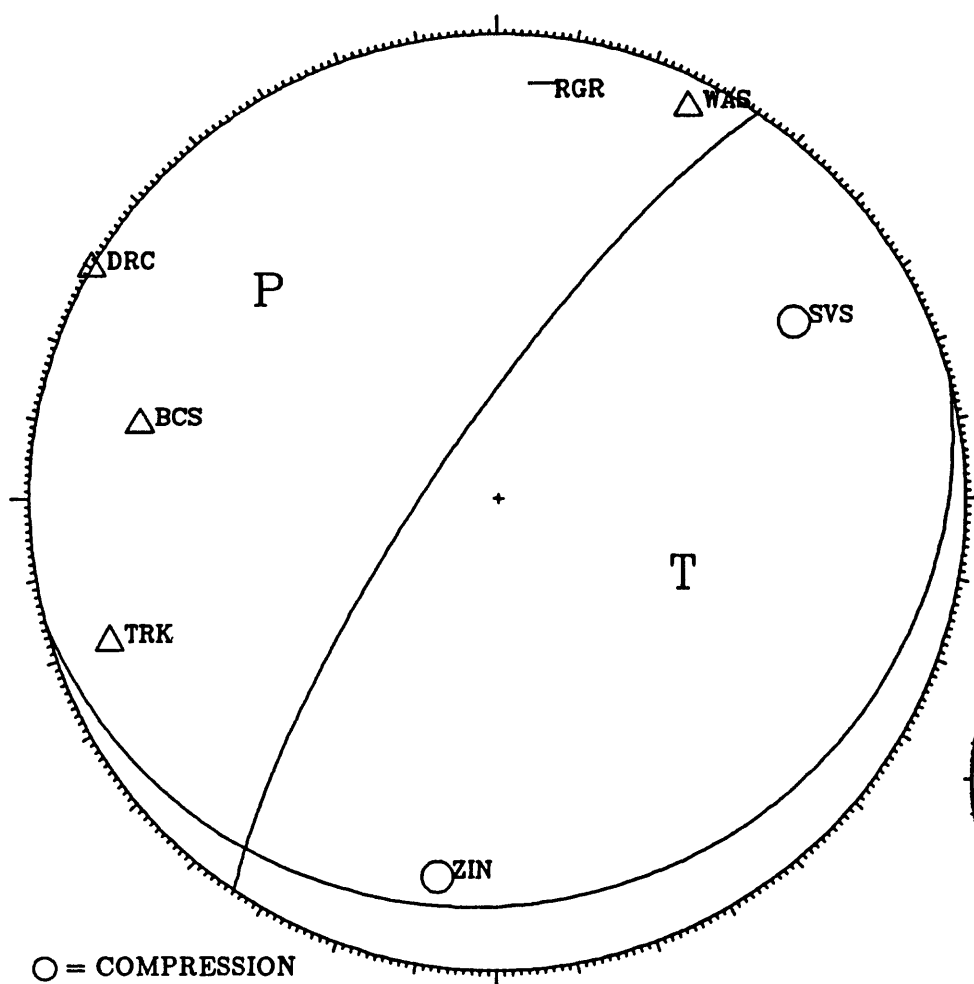


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

BCS	10.2	270	88	IPD0
DRC	24.7	124	90	IPC0
MGS	9.7	343	88	IPC0
SVS	7.4	79	87	IPD0
TRK	39.9	246	90	IPD0
WAS	17.5	32	89	IPD0
ZIN	14.1	184	89	IPD0

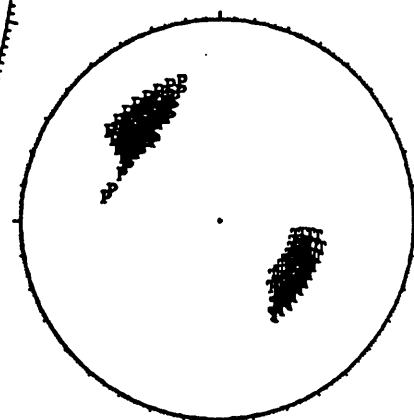
86 5 81545 46.46 33.003 -80.181 5.09 1.41

75.0 15.0 130.0 214.0 78.6 80.2



-48. 57.

112. 35.



○ = COMPRESSION

△ = DILATATION

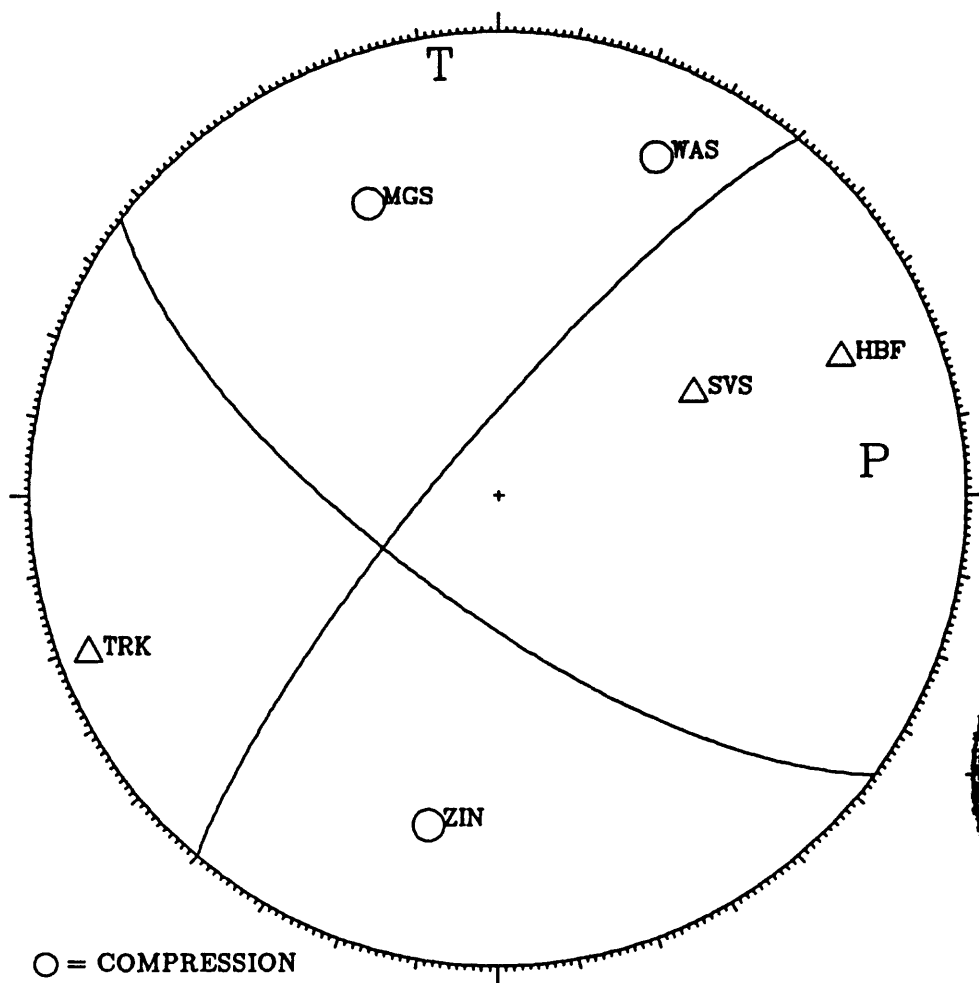
+ = EMERGENT COMPRESSION

- = EMERGENT DILATATION

BCS	11.4	282	67	IPD0
DRC	22.6	120	90	IPD0
RGR	10.9	6	76	EPD1
SVS	7.4	59	63	IPC0
TRK	39.9	250	77	IPD0
WAS	19.2	26	83	IPD0
ZIN	11.8	189	70	IPC0

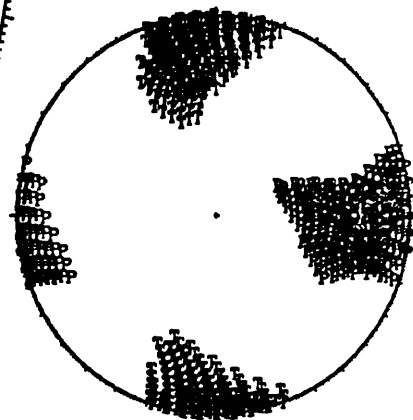
86 6131348 21.88 32.995 -80.190 8.88 1.07★

220.0 80.0 -160.0 126.4 70.3 -10.6



85. 69.

352. 83.



○ = COMPRESSION

△ = DILATATION

+ = EMERGENT COMPRESSION

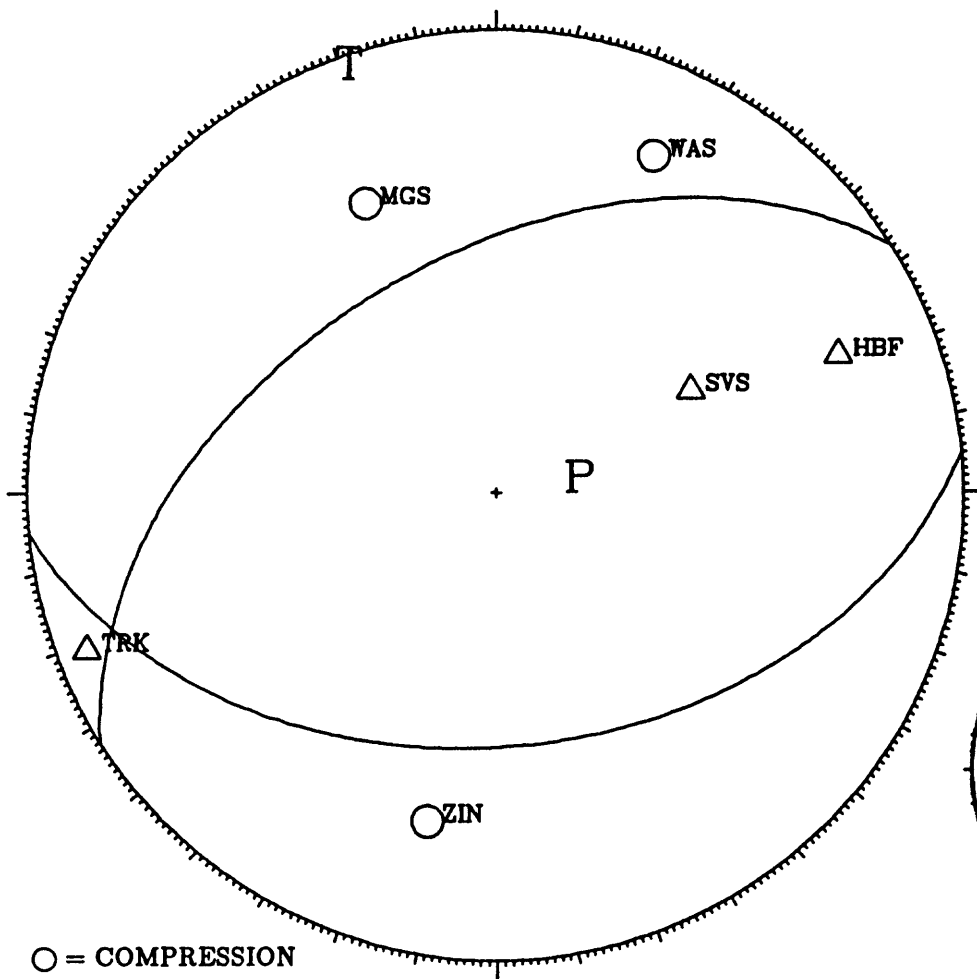
- = EMERGENT DILATATION

HBF	18.9	68	68	IPD0
MGS	11.8	336	58	IPC0
SVS	6.2	62	39	IPD0
TRK	41.0	249	83	IPD0
WAS	18.0	25	69	IPC0
ZIN	12.8	192	61	IPC0



86 6131348 21.88 32.995 -80.190 8.88 1.07 ★

85.0 45.0 -70.0 237.8 48.4 -108.9



78. 14.  
-19. 88.

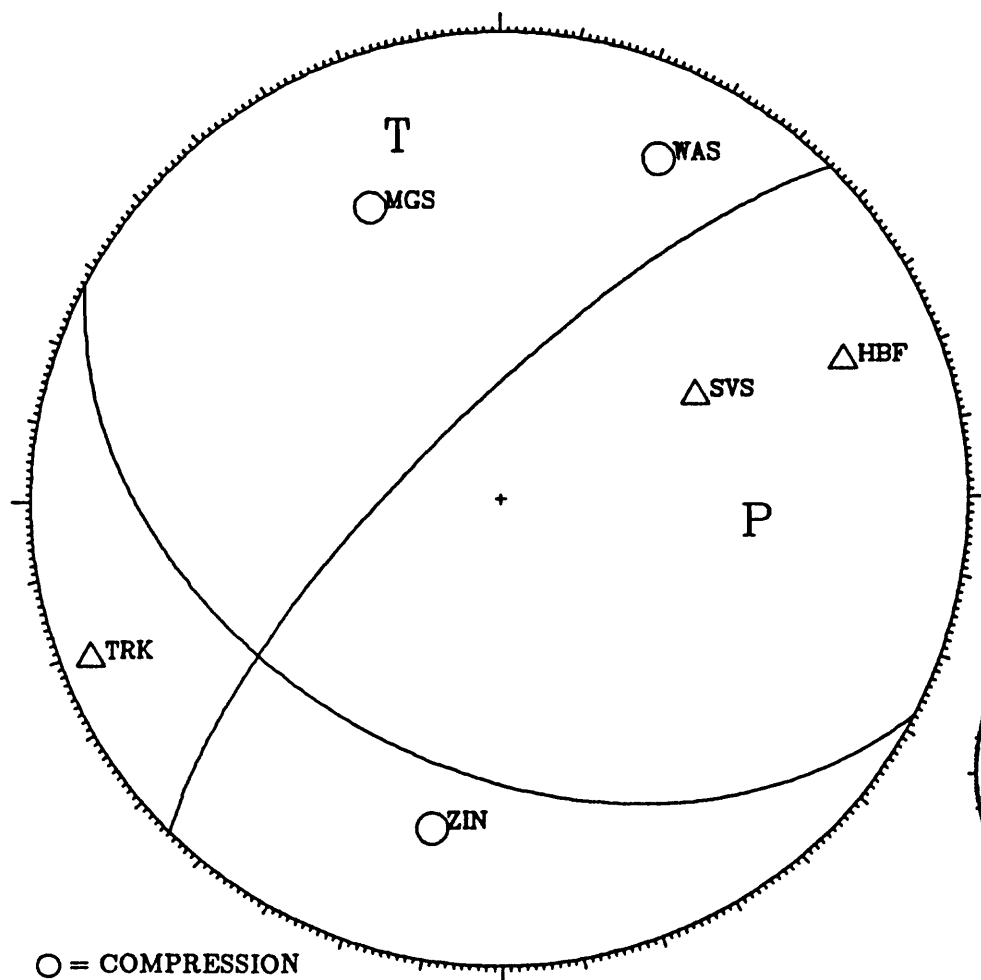


○ = COMPRESSION  
△ = DILATATION  
+ = EMERGENT COMPRESSION  
- = EMERGENT DILATATION

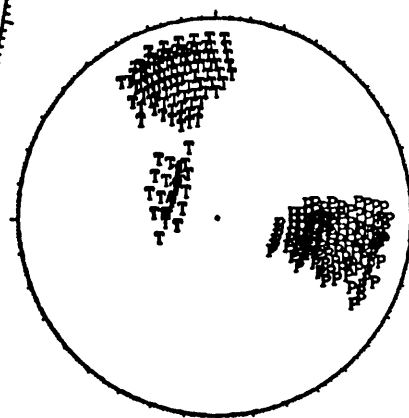
HBF	18.9	68	68	IPD0
MGS	11.8	336	58	IPC0
SVS	6.2	62	39	IPD0
TRK	41.0	249	83	IPD0
WAS	18.0	25	69	IPC0
ZIN	12.8	192	61	IPC0

86 6131348 21.88 32.995 -80.190 8.88 1.07 ★

225.0 75.0 -130.0 117.9 42.3 -22.6



95. 45.  
344. 70.

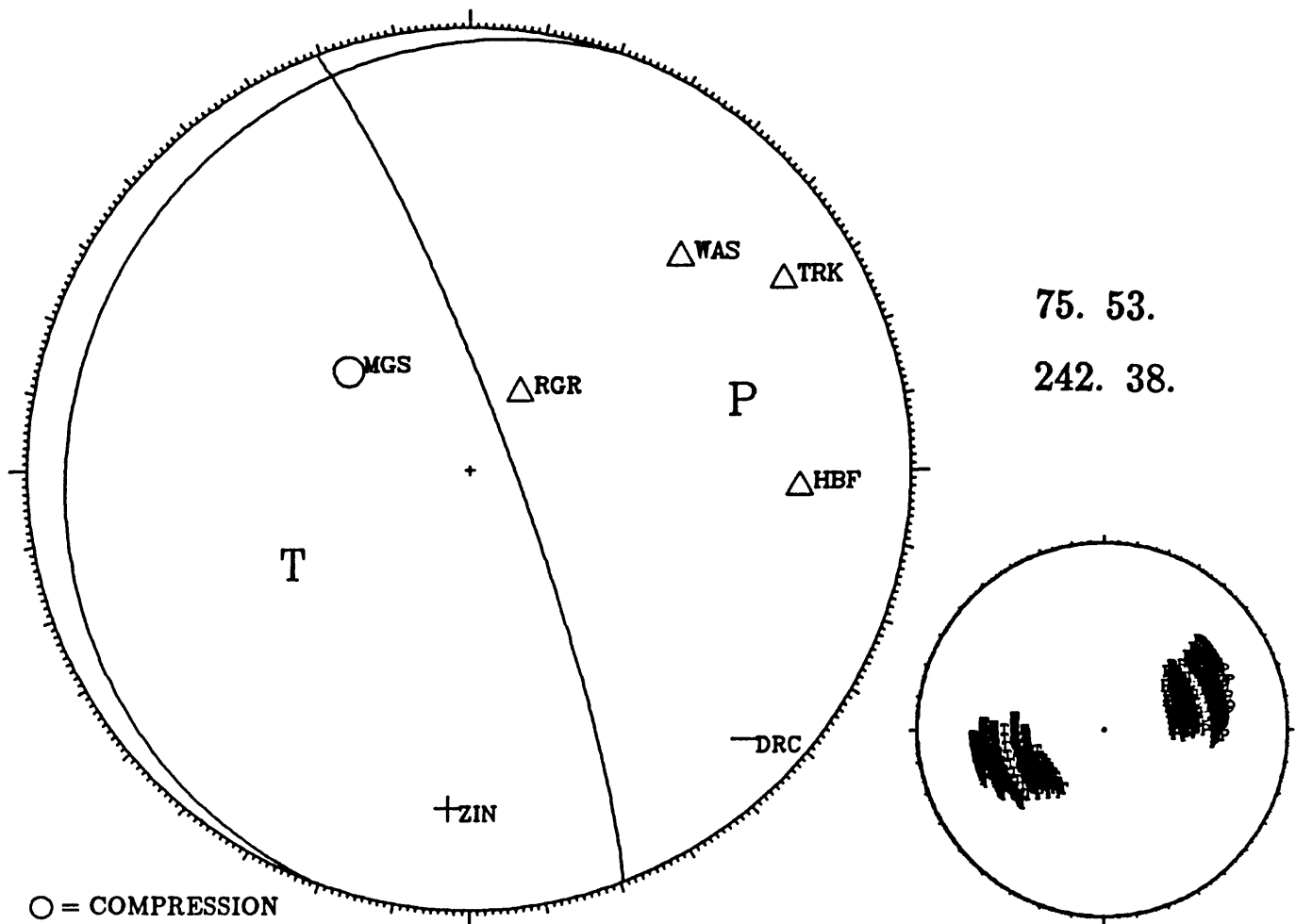


○ = COMPRESSION  
△ = DILATATION  
+ = EMERGENT COMPRESSION  
- = EMERGENT DILATATION

HBF	18.9	68	68	IPD0
MGS	11.8	336	58	IPC0
SVS	6.2	62	39	IPD0
TRK	41.0	249	83	IPD0
WAS	18.0	25	69	IPC0
ZIN	12.8	192	61	IPC0

86 8172036 32.68 32.924 -80.179 9.39 1.74

200.0 10.0 130.0 -20.4 82.4 83.5

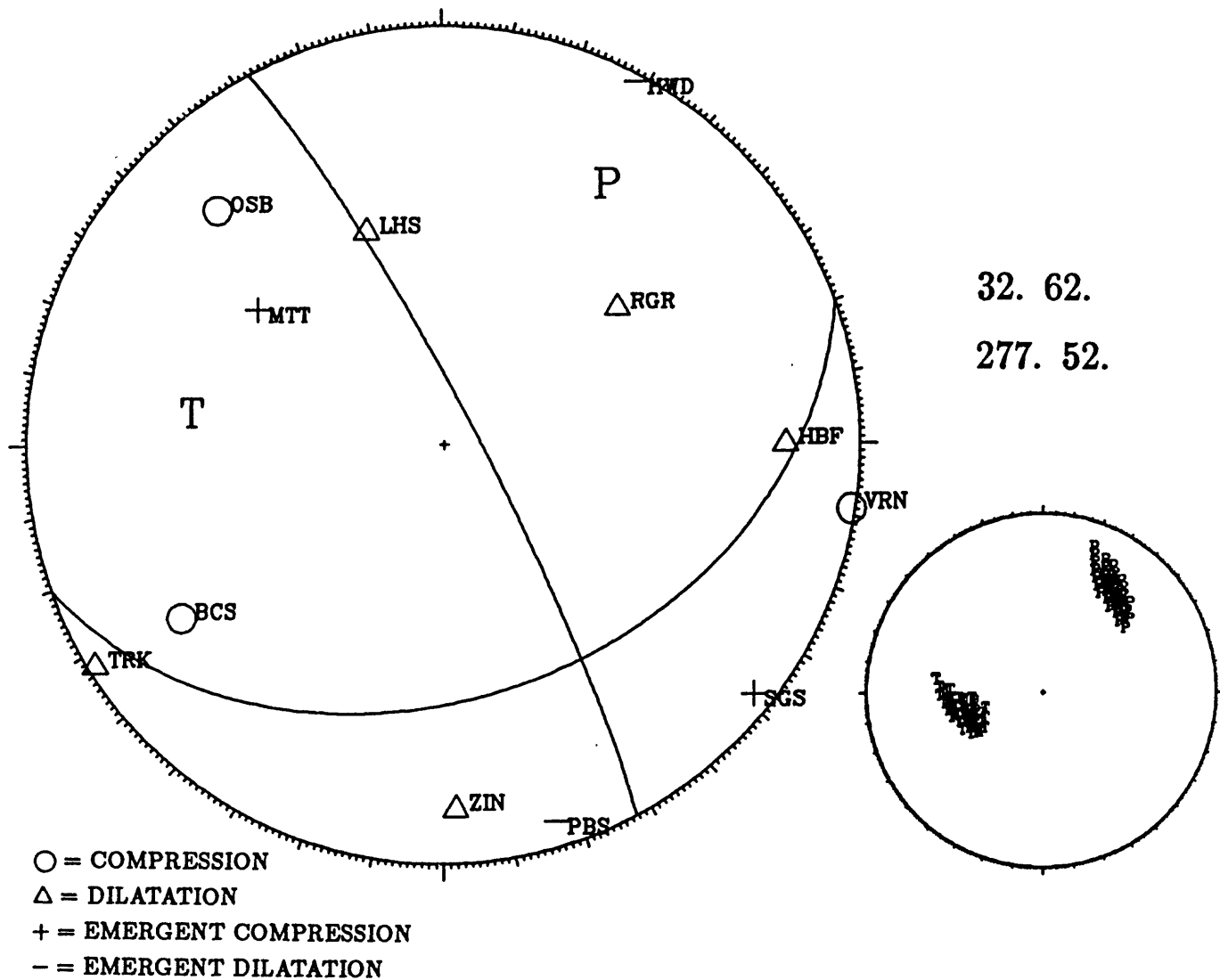


○ = COMPRESSION  
 △ = DILATATION  
 + = EMERGENT COMPRESSION  
 - = EMERGENT DILATATION

DRC	28.3	136	78	EP-0
HBF	18.6	93	64	IPD0
MGS	4.7	309	29	IPC0
RGR	2.5	33	17	IPD0
TRK	43.4	59	72	IPD0
WAS	12.1	45	57	IPD0
ZIN	20.5	184	69	EP+0

86 917 933 49.55 32.932 -80.153 6.09 2.61

70.0 40.0 10.0 -27.7 83.6 129.6



BCS	10.1	237	64	IPC0
HBF	21.0	90	71	IPD0
HWD	24.6	29	85	EPD0
LHS	182.0	340	45	IPD0
MTT	164.9	303	45	EP+0
OSB	93.8	316	67	EPC0
PBS	39.9	164	86	EPD0
RGR	4.8	52	44	IPD0
SGS	44.3	130	86	EP+0
TRK	40.8	238	88	IPD0
VRN	74.6	99	89	IPC0
ZIN	19.5	178	76	IPD0