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The superstructure of meteoritic low tridymite solved by computer simulation

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Abstract

Below 107°C meteoritic tridymite transforms reversibly to the low-tridymite structure, a superstructure with a cell volume six times the volume of the orthorhombic high-tridymite cell. Low tridymite is monoclinic, space group Cc, with cell dimensions: a=18.524(4), b=5.0032(15), c=23.810(8)Å, $\beta=105.02(2)$ °. The crystal structure has been determined through computer modeling and refined using 1260 Mo $K\alpha$ reflections (R=0.069). The asymmetric unit contains 12 Si atoms and 24 O atoms. The SiO₄ tetrahedra are regular within the margin of error (mean Si-O: 1.601Å). Twenty-three of the 24 Si-O-Si angles fall in the range 142° to 159°, while one is linear (178.5°). The characteristic six-membered rings of the ideal tridymite structure are distorted into two different configurations: two-thirds have a ditrigonal shape (similar to the shape of the rings found in micas and in stuffed derivative structures of tridymite) while one-third have an oval shape (similar to those found in the low-cristobalite structure).

Introduction

In spite of its simple chemical formula, SiO2 is structurally a remarkably complex material. At least ten polymorphs have been recognized, but the crystal structures of several of these are unknown or only incompletely known. One of the unknown SiO2 structures is that of meteoritic low tridymite. Tridymite is the stable phase of SiO2 at low pressure and temperatures between 867 and 1470°C (Boyd and England, 1960). Its stability field is rapidly reduced with increasing pressure. The atomic arrangement has not been studied with modern methods at equilibrium conditions, but it is thought to be closely similar to the ideal hexagonal high-tridymite structure (Gibbs, 1926). Due to the reconstructive nature of transformations to other polymorphs, tridymite tends to persist metastably upon rapid cooling. The crystal structure at 220° has been determined using a sample from the Steinbach meteorite (Dollase, 1967). This structure is orthorhombic, C2221, with an atomic arrangement slightly distorted from the ideal hexagonal structure. Below about 107°C this tridymite undergoes a reversible displacive transformation to the low-tridymite structure. The structural relaxation occurring at the transformation results in the formation of a superstructure with a cell volume six times the volume of the orthorhombic cell.

The meteoritic low tridymite is different from terrestrial low tridymite, which has the diffraction aspect F^{***} , orthorhombic (Gardner and Appleman, 1974). The structure of one such terrestrial tridymite has been solved by Konnert and Appleman (1975) in a triclinic F1 cell.

To date no systematic method has been presented for the solution of superstructures, although many different techniques have been applied with varying degrees of success. Most of the methods employed the diffraction evidence itself, although this presents a problem, as superstructures are characterized by a small set of intense substructure peaks (containing primarily information on the average structure) and a larger set of much weaker superstructure reflections which contain information about the deviations between the various sub-cells comprising the true cell.

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			5 2	3245299 25.3011	26.6910 18.2906
		5	5 2 5 3 5 5	47.9044	53.2479
				48.8997	48,9140
		5	5 15	27.6583	29.6606
		∞ 6	0 -24	56.3600	61.3738
		6 6	0 +22 0 +20	45.6519 17.8365	48.8887
	-	6	ŏ -îĕ	141.7089	146.7594
		6	0 -16	62,6765	61.0286
		6	0 -14	15.1387	11.8642
		6	0 -12	4886504	48.7243
		6 6	0 -10 0 -6	30.9323 10.8491	30.6341
		6	0 -4	16.9460	3.6277 16.0020
			0 -2	7.4329	49.2352
			CALL THE PERSON OF THE PERSON	120.5039	110.2147
6		6	0 2	12.5648	10.8856
		6	0 4	16.7626	16,9679 84,9047
	· /	6	0 6 0 8	92.1845 92.875A	91.9558
		6	0 10	92.8754 50.3664	50.3382
		6	0 12	159.0945	50.3382 153.3460
	-	6	0 14	43.6875	44.5278
		6	0 16 0 28	25.5530 26.5321	26.2055
		6	2 -20	26.5321 38.8945	29.9758 33.4961
		6	2 -29 2 -27 2 -26	17.3882	17.8784
	2	6	2 -26	22.7867	15.7855
		6 6 6	2 -24 2 -22	49.7194	56.6542
		6	2 -12	22.0533 107.3098	21 * 63 71
	4		2 15	25,9171	107.7856
		6666	2 -15 2 -13 2 -12	39.8636	40.1257
	7	6	2 -12	15.5622	9.7587
	E resident constitutions	6	2 -11	53.5499	56.7194
		6	2 - 29 2 - 27 2 - 26 2 - 24 2 - 18 2 - 15 2 - 13 2 - 11 2 - 10 2 - 9 2 - 8	25.5559 22.5591	26.00
風		6	2 -8	21.0318	19.6785 19.1790
		6 6	2 -7	27.9202	24.0073
		6	2 -7 2 -6 2 -5	16.3711	1518793
	•	5	2 -5	26.3225	25.1098
				38.6301	32,4012

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and the second second	6.6	state and the district	30.223 60.244	25.5246
	THE RESERVE THE PARTY OF THE PARTY.		29.7798	30.9174
Maria Maria (b)	6	2 0 1 2 2		
	6	2 1	25.7987	28.6353
	6	2 2	25 6939	27.5451
	6	2 3	40.5845	A1.0056
		2 3 2 4	27.5835	28.5506
	6	4	610000	
	5	2 5	61.5240	63.4884
	- 6	2 5 2 6 2 7	52.8719	55.0580
		2 7	53.4308	55.0901
	6		63 6360	63.6430
	6	2 8 2 9 2 10 2 12 2 14	61.2359	O J O U T J J J
	6	2 9	22,2183	18.9569
	6	2 10	33,3419	30,1088
Approximation of the second	6	2 12	133.4257	133,3828
			37.5849	38.1037
	6	2 14		24.2962
	6	2 16 2 17	24,1486	£40.530£
	6	2 17	30.6793	32,4995
	6	2 21	13,7545	24,9385
		A A 3	27.4750	26.6032
	6	2 23	5101100	50 6000
	6	4 -27	30.5184	22.6978
	6	4 -18	41,3336	41.8721
	6	4 -17	21,1366	22.8533
		4 -15	51,0356	51.3155
	6		525000	56.2783
	6	4 -13	57,6477	2002/09
	6	4 -12	14.1810	10,7535
•	6	4 -11	48.CE77	46.5488
	6	4\ -9	50.1642	47.9767
				40.3302
	6	4 -7	40.4136	
	6	4 -5	42.1684	39,7349
	6	4 -4	25.4320	25,3093
	6	4 -3	1988288	16.7081
		7 -1	37.7159	37.9378
	6		310112	42 5790
	6	4 0	48.1224	43.5780 59.7094
	6	4 1	55,2642	59.7094
	6	4 4	19.6961	18.7522
	6	4 5	18.6484	20.0741
			36.6682	34.3278
	6			
	6	4 8	22,2366	23.8577
	6	4 9	2105473	18.6175
	6	4 12	53,8430	52.5833
	6	4 15	18,1659	30,1743
-				12,7100
	6	4 16	23.6772	
	6	4 1	38.1873	39.7041
	6	4 135	29.3869	24.0050
		the contract of the second	30.2401	29.1508 36.1208
	6 6	645	70 0166	75 1200
	0	6 -13	3606170	50 1200
	6	6 -11	30a5 x 16	3001107
Amusic in the	6	6 -11 5 -9 6 -7	32,2156 30,5918 32,1336	30.1787 30.5466 20.9956
	6	6 -7	23.4677	20.9956
		6 -5	32,9490	23,3291
	6		27.2654	24.8978
	D	6 -1		27.27.2
	6		36.7468	38.2609
	6	6 13	29.8646	18.5187 26.4023 23.3956
	18.07	1 -32	26.6106	25.4023
	-	The second secon	26.6663	23.3956
	- mengs	1 -30 1 -22	26.5583 46.2990	A0 3066
				49.3264
	7	1 -20	42,4041	
			44.5619	44.0816
	7		24.0261	22.0224
	7	1 -16	15.9507	12.9536
	-	1-13	27,2544	12.9536 28.8582
	6 7 7 7 7 7 7 7 7		23. 1272	23.5046
		12		57.7
17	7	1 -11	39,8374	39.1133
	7	1 -10	29,7094	26.5442
	7	1 -9	6226241	62.8315
		1 -8	2603959	14,2983
			40.5689	38.0205
		1 2		
	7	i -5	20.7695	10.5141
	A SHE LINE			

-(9)	4 1	-2	13.6222	13.2254 26.4273
	7 1	Ô	15.3745	21.1476
	7 1		30.0004	30.4911
	7	2	24.1301 29.0988	28.0142 25.5149
	7/ 1	5	45.3497	44.7548
`\	7 1	6	1830460	22.0666
	7	7	57.3857	57.2729
		8	42.5899 35.9348	41.8776
	$\frac{7}{7}$ $\frac{1}{1}$	9 10	50-2144	59.1980
	7 i	12	39.0517	34.1492
	7 1	13	16.5840	5.8282 93.7215
	7 1	14	92.0961	13.5392
	7 1	15 18	21.8962	17.9862
	i i	20	21.7189	25.1198
	7 1	26	41.2894	35.9956
	7 3	-29	29,5965 30,6380	15.7482 18.8339
	7 3 7 3 7 3	-25 -21	29,2560	28.2954
	7 3	-19	15.0706	12.5352
	7 3	-16	3751407	39.7467
	7 3	-14.	18.4389	8 • 2222 43 • 9324
	7 3	-13 -11	41.8252 49.0306	51.7929
	7 3	-10	29.9643	29,9356
	7 3	-9	77.9462	76.2971
	7 3	- 7	44-7774	43.3852
	7 3	=======================================	26.7154 86.2203	23.2015
	7 3	-2	18.4913	16.1818
	7 3	-1	20.3430	21.8740
	7 3	0	29.7012	30.4898 21.9455
	4 3	ż	20 • 7437 57 • \$154	56.1027
	7 3	3	19.6175	19.0658
	7 3	5	33,9544	42.8475
	7 3 7 3 7 3	7	46.2543	44.0230 21.5752
	7 3 7 3 7 3	8	24.2056 37.1397	39.5513
		10	27.7631	27.7096
	7 3	19 21	38.3969	41.8710
	7 3	21	22,5247	18.9141 18.0473
	7 5	-23 -21	28.0250 32.1371	38.2037
	7 5	-17	25.0653	1970
	7 5 7 5	-15	36.4325	32.5787
	7 5	-11	41.2779	34.0292 48.4408
<u></u>	7 3 3 7 5 5 7 7 5 5 7 7 5 5 7 7 5 5 5 7 7 5 5 5 7 7 5 5 5 7 7 5 5 5 7 7 5 5 5 7 7 5 5 5 7 7 5 5 5 7 7 5 5 5 5 7 7 5 5 5 5 7	-9 -7	44.6566 24.4605	
	4 5	9	26.2440	23-8997
	7 5	15	25.5892	
	8 0	-28	34.0752	25.2400 25.1351
	8 0	-24 -20	23.8303 30.2426	33.8514
	8 0	418	43.0851	45.0817
	A 0	-16	83.3154	91.0907
	8 8 0	-14		
V		-12 -20 -8	126.1649 63.9075	50.6510
	8 0 8 0	48	131.6515	120 48825
			F100 5 9 1 5 9 2 5 5 6 6	5447648
	8 0	-2	162.5357	16943055
	8 0 8 0	6	45 4 5 7 4 8	46-49-6

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		Annual Committee of the	Manual States of the Manual States
Control and Milk	8 0 0		
(n)	6 0 10	35,9078	34.2373
	8 0 12	32.6085	30.1921
	8 0 16	44,6656	45.0323
-	8 0 18	35.3848	35.4456
and the second second	8 2 -28	26.6726	17.7864
	8 2 -27	25.0392	24.5687 37.4668
	8 2 -25	30.6159	20,5560
	8 2 -23	18.0228	17-1406
	8 2 -22 8 2 -21	24.3844	25.8726
	8 2 -21	20.1937	35,4004
	8 2 -20	31,5614 27,7107	29.7176
	8 2 -19	5	23.4683
	8 2 -17	31.1270 55.6833	59.1836
	8 2 -16	81.5253	84-1023
	8 2 -14	47.1972	45.5684
	8 2 -13 8 2 -12	59.6644	59.4437
		20.4054	24.1089
		34.0584	35.5298
	8 2 -8 8 2 -5	25.6440	25.0220
	8 2 -3	32.2418	32.0430
	0 9 -2	90.7201	87.5181
	8 2 1	30.4377	34.1929
	8 2 2	15-4268	19.3432
	8 2 3	29.3084	32.7063
	8 2 4	31.1920	28.6294
	8 2 2 8 2 3 8 2 4 8 2 6	17,2079	16,7792
SAME AND ADDRESS OF THE LAST	8 2 7	49.7740	52.2761
	8 2 9	56.0762	56.8551
()	8 2 10	29,9643	29.0583
	8 2 11	39.6541	-44.9466 27.2352
	8 2 16	31,0334	31.9478
	8 / 2 / 18	34.3110 25.1177	29.3313
	8 4 -25	25.1177 38.3528	38,4996
-	8 4 -23	23.0486	27,2252
	8 4 -21 8 4 -19	29,4917	25,2651
		30.4325	34.2119
	8 4 -17	2347558	25.2103
1.94 (3)	8 4 -14	31,1244	31.7045
	8 4 -13	29.3346	35.8945
	8 4 -11	2386050	16.6208
	8 4 -7	21.8438	26,9338
	8 4 -5	32.3495	33,5059
		42,3780	40.4546
	8 4 1	36.8338	32.3650
		55.7095	58*0486 33.5989
	8 4 5	34.5467	54.3526
	8 4 4	54.4092	46.8115
	8 4 9 8 4 11	48.2672	44,4198
	8 4 11	39.4445 23.1001	15,4754
	8 4 13	23.1001	2713415
	8 4 17	25,2487	22.5778
	8 6 -13 8 6 -6	28,5536	23.3854
	8 6 -6	16,3425	15-0788
		30.7227	24,6591
	8 6 -1 8 6 3	384.0564	41.1851
	8 6 9	21.4172	15.9810
3	4	30.8227	3463835
	8 6 9	43.8971	34.19
	8 6 11	28,7845	28.7709
	9 1 -32	30 - 17 27	35.81\/
3	9 1 - 28		
	3 1 -26	36,4063	39.81.10
		30.1750	29.9232
		24-0177	

		95.6310	100.4751
and the	9 1 -18	90.00	18.7929
	9 1 -17	18.4913	7000
	9 1 -16	82.3987	81.7922
	The state of the s	781035	18-7297
			46.2751
	9 1 =12	46.9353	88.5021
	6 1 -12	89.9216	00.575
	9 1 -11	23.2057	24,3429
	9 i -iō	89.0514	86.5156
		41.2686	42.1173
	9 1 -9		39.7525
	9 1 - 7	42.2470	34.1208
AND CONTRACTOR	9 1 -6	35.8896	
	T -5	44.9571	45.3270
	9 7 -3	53.5638	56-0082
		22.3414	21.5007
	9 1 =2	31.6132	31.9238
	9 1 -1		27.3731
1.00 mg	9 1 0 9 1 1 9 1 3	23.0117	-4 -017
	9 1 1	31.7180	32.5813
13	9 1 1 9 1 3	14.6414	11.5783
	9 1 6	54.2349	51.0239
		18.1508	23,1540
		10.100	19.4552
		16.5793	20 2022
	0 1 12	35.1431	39.2932 52.2676
	9 î î4	52,6451	52.26/6
		28,2345	25.3680
	9 1 16	27 2722	73.9656
	9 1 18 9 1 20	67.6356	34.3400
	9 1 20	40.3469	24.27.
	9 3 -23	35.1229	35.0094
	Control of the Contro	41.1584	28.6493
		40.4232	38.0659
	9\3-18	40.94636	42.1415
	9 3 -16	40.7803	
	경영 그 사람들은 살아왔다면 하는 사람들이 되었다. 그런 그렇게 살아왔다는 사람들이 있다면 하는 것이다.	5.9591	15.1070
page consideration of the page of	9 3 -15 9 3 -14 9 3 -13	38.8683	37.3172
	3 413	21.7652	27.0777
	9 3 -13	21000	76,4509
	9 3 -12 9 3 -11	71.8493	19,4544
	9 3 -11	18.7532	
programme del periodo	9 3 -10	81.2201	84 - 6288
	9 3 -9	54.7915	51.4276
	9 3 -8	17.9936	20.2395
	9 2 2	44.3947	45.9942
	9 3 -7	4403771	23.0744
	9 3 -6	21,4666	62 14.
		54.5047	53.9040
	9 3 -5	48.2498	51.4331
	3 3	30.5656	26.3070
	9 3 -1	33,0014	34.5116
	9 3 1	2300027	30.0380
	9 3 2	2147345	30.0380 31.1333
	9 3 3	22,2262	0101000
	A 5	20.5080	20.8896
	9 3 -1 9 3 1 9 3 2 9 3 3 9 3 4 	31.1942 22.2262 20.5080 32.4514	
	2 3	77.6315	7.5 • 56 04 40 • 7275
	9 3 6		AR 7976
	9 3 7	42.1946 4.9837	4001214
	9 3 9	4.9837	15.7213
17 18 L		25.0796	18,9685
	9 3 11 9 3 14 9 3 16 9 5 -23	25.079E 26.4011	24.5606
	9 3 14		15-0430
	9 3 16	2342343	15.0430 38.5313
	9 5 -23	4264304	
A market and	0 5 -21	32,5508	25,3587
	3 5 13	29.9632	27.7528
	9 5 -21 9 5 -13 9 5 -9 9 5 -7	32.9608 29.9632 33.7515	35.4797
	9 5 -9	5001010	35.4797 28.6220
	9 5 -7	28.9679	ZO O CZZY
		2987556	W 450 4 142 1
	9 5 -5 5 7	2907536	28.3675
		30.1465	33,6759
	9		30.2382
	5		
2		36.66699	28.692.50
	0 6 11	3446253	3481294
	9 5 -5 9 5 -5 9 5 7 9 5 11 9 5 11	3446253	29.2962
	9 5 -21 9 5 -13 9 5 -9 9 5 -7 9 5 -3 9 5 -3 9 5 7 9 5 7 9 5 11 9 5 13	39,6279	49.7213
	10		

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Make because of the trees		the second second second	And the second second second second	CONTRACTOR STATE
A CONTRACTOR OF THE PARTY.	at outside the		67.1614	69.0085
	10	0 -26	24,0963	22.0478
10/19	10	0 -24	67.4355	54.6831
	10	0 -15	50,4087	36.0841
	10	0 -14	38,0302	50.007.
	10	0 -12	25+7987	29.6441
	10	0 -6	54.2428	54,8838
	10	0 -4	47.4487	44.8830
Address American	10	0 0	49.2925	48,5493
			127.5591	131.0479
	10		87.8727	89.2851
	10	0 4	58.0929	57,4990
	10	0 6	DOWNSCH	109,9606
	10	0 8	114.8165	07.7000
	10	0 16	22.5771	27.5241
	10	0 18	24.6987	23.3095
	10	2 -30	27.3178	35.9832
	10	2 -28	26.5283	36.8608
	10	2 -26	50.9426	49,7165
		2 -17	26.7154	29.0536
	10	5 16	38.3944	38,2404
	10	2 -16	39.3660	41.5684
	10	2 -15	E ACAL	52.4573
	10	2 -14	51.4926	29.8165
0	10	2 -13	26.5413	23.7746
	10	2 -12	22.4462	- 6201179
	10	2 -11	18.9627	24,4933
	10	2 -10	14.0276	18.4379
10	10	2 -9	47,5901	47.0962
		2 -8	20.6913	24.1146
	10	magnetic medicine and the control of the property of the control o	48.6114	47.2375
	10		19.1460	12.9872
	10	2 -6	170100	18.8532
1.0	10	2 -5	23.8343	19.7546
	10	2 -4	21.7711	
physical and the second section of the secti	10	2 -3	237,4677	23.1534
	10	2 -3	20.6128	14.6148
	10		47.1106	46.3728
	io	2 -1	45 1543	44.1509
P programme recommende		ž i	354 3586	37.8147
	10		75.2646	69.9771
	10	2 2	20.5342	22.5991
	10	2 3	62,4407	59,3121
	10	2 4	929777	6.7520
	10	2 5	15,1694	41.1286
	10	2 6	41.1732	
	10	2 6	97.5921	96.4547
	10	2 11	15.9238	23.7979
	10	2 16	26.6630 W	24 64 35
. 75	10	4 -19	32.2195	36,9842
	10	4 -15	22-4724	28.2010
			24.5677	27.0294
	10	Charles and Company of the Company o	21.0580	16.2265
	10	4 -11		17.9300
	10	4 -10		24.2319
	10	4 -9	26.8464	36.7331
	10	4 -7	38,4282	11.8245
	10	4 -6	19.5127	
	10	4 -5	39.2088	35.4492
	io	4 -4	24.4917	25.4530
	10	4 -3	60.6073	63.4415
		4 -1	31.7305	38.2502
	10		23,3891	23.2722
	10	4 0	54, 8778	18.8580
	1.0	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	23.0748	27.8405
	10	4 2 4 3 4 4	And the second section of the second section is the second section of the second section of the second section of the section of t	15.6789
	10	4		22.76524
	10	4 7	/24-7249	and the second s
	10	4 8	39.031	
	10	4 11	29.5013	34.3810
	10	1.5	33.6300	27.1592
	10	6 -3	38,0969	3963240
		6 -1	20.6109	24.7464
	10			
	10	4		

	Mental (1984年)		
		26.1130	200 200 70
(B)	11 1 -26	29.2933	30.7266
	11 -24	37.0611	34,3682
	1 -18	2510677	25,9046
	ii i -17	30/1204	30 • 0437
	ii i -i6	45,2067	45.3575
	11 1 -14	46.0571	47,4682
	ii i -13	31.4037	31.5219
	ii i -12	59,9263	60.2091
	ii i i ii	27,2878	29,2789
	ii i -10	69.7482	71.2702
	ii i -8	105.0911	103.1834
	ii i - i	25.6939	24.4740
	ii i -6	53.0641	53.0140
	ii i -5	26.1147	26,0786
	ii i -4	23.9653	26.6921
	îi i -3	20.3509	24.0456
	îî î -2	24.6738	26.0775
	11 1 -1	17.3912	18,4278
	ii i o	25.8106	24.5648
		41.2400	40.9178
		43.3470	46.3103
0		23.0224	22.5829
		100.3883	94.1459
		31.5509	28,0321
	11 1 5	84,2059	80.6561
	11 1 6	43.6875	43.5797
	11 1 8	80.8412	81.3616
	11 1 10	22.4200	19.9403
Garage IV. No. No.	\mathbf{H}_{2} , \mathbf{H}_{2} , \mathbf{H}_{2} , \mathbf{H}_{2}	2264200	33.7688
	11 1 16	25.9067	26.3746
	11 1 18	25.1963	43.2934
	11 1 22	45 6748	16.5604
	11 3 -25	27.3702	15.5473
	11 3 -23	25 6 6 6 2 2	
	11 3 -19	33.7671	35.8979 51.7367
	11 3 -17	47.6100	
	11 3 -16	20.7437	26.8324
	11 3 -15	30.3560	34.5594
	11 3 -14	8.5523	11.2386 33.9205
	11 3 -13 11 3 -12	32.0061	2303272
	11 3 -12	39.7588	37,9944
	11 3 -11	26.0601	25.2848
	11 3 -10	47,2758	45.7541
	11 3 -8	76.3388	78.0975
	ii 3 - 7	34.4681	37.4727
	ii 3 -6 11 3 -5	68.0195	69.3825 20.4811 33.3626
	11 3 -5	24.7284	20.4014
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		1 -2	17.4662	13.7505
	17	1 0	73.7031	73.0804
5	17		22.8652	的现在分词
			25.4359	29.7181
)	17		50.3664	53.2447
	17	1 6 1 12	36.0658	31.8184
4		1 16	19.0892	21.5740
	17 17		46.4639	43.0535
	17	1 18 3 -24	29.7758	17.9190
		3 -23	24.1865	18.1262
		317	20.9308	21.000033333
	4.4	317	21.6604	14.0550
		3-15		18.2573
	17	3 -12	24.5415	
		1 -11	23.6365	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE
		3 7	27.25-4	38,2058
		J -5	23-6248	19-0576
	7.27	3 -5	52.3257	56,5943
	St. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec		AND THE RESIDENCE OF THE PARTY	

	NUMBER OF			
			22.4462	16.6245
1 May 1971	17	3 0	24.0963	28.6515
	17	3 4	14.0276	20.2562
	17	14.3 × 14.15	22.3938	17,1555
	17	3 12	27.8185	23.6068
	17	5 -11	26.1173	30.1116
	17	š -7	29.4131	32.4774
	17	5 -5	54,3493	63,3133
	18	0 -28	49.6592	42,2655
	18	0 -24	31.5692	25.9297
	18	0 -12	11.1534	15.8016
	18	0 -10	48.2449	48,2467
		N 7 A V	30.8275	34.3763
	18	0 -8	22.9492	22,4070
	18	0 0	82.1105	86.2662
	18		20.2159	18,6943
	18		63 9 6 4 2 7	17.2544
	18	0 6	2.3462	
	18	0 12	20.1297	16.2174
	18	0 14	32.3728	27.9735
	18	0 16	26.6892	10,4639
	18	2 -23	30.7489	23 1537
$1 \circ \alpha$	18	2 -21	41.6587	33.9646
	18	2 -17	23.7034	15.2480
And the second second second	18	2 -10	33,1062	33.7503
	18	2 -9	18.5014	17.5056
	18	2 -3	29.4571	23.1299
	18	2 0	19.7317	12.9952
	18	2 2 2 5	64.4051	69,3974
	18	2 5	21,5819	19.2460
	18		28.4193	17.5308
	18	2 8	30.0155	30.5089
	18	2 13	26.4535	22,2788
	18	4-15	33.3743	38,9062
	18	4 4-3	23.4435	22.3288
	18	4 2	23.5724	24.3034
	19	1 -24	38.6326	39,9989
	19	1 -20	34.2586	30,0596
	19	1 +17	22.9176	16.0520
	19	î -i5	24.0701	13.9111
	19	1 -14	58.7739	60.3483
- Andrews	Tiét	1 -10	33.1428	22.4135
	19	1 28	73.1269	77.9921
	and the group of			7.7452
	19	1	3893	
	19 19 19	-1 -21 -	25.0653	24.9764
Zee Control of the	19		25.1439	14.3275
		3 -19	36+0092	39.6078
	19	3 -19 3 -13 3 -9 3 -8 3 -7 3 -3 3 -1	23 1443	13.9438
	19	3 -9	24.1748	13,1323
	19	3 -8	36,9301	37.0318
	19	3 -7	21.3158	26.2614
	19	3 -3	32.2156	27.1951
	19	$\frac{3}{0} - \frac{1}{24}$	21.0036	33.0378
	20	0 -24	66.9719	67.2585
	20	0 -22	31 6656	25.7045
	20	0 -18	54.3213	56.4744
	20	0 -12	38 1349	39.3480
	20	0 -10	25.3011	20.9187
	20	9 -6	22.0795	28,1507
	20	0 -4	22 7867	12.9379
	20	0 6	46.9091	44,7009
3-	20	0 10		TO RELEGISTATION OF
	žŏ	n	32,2155	33,8825
	20	0 12 2 -24 2 -18	53.4570	57.0793
		2 418	45.6519	41.6079
2	20	2 -18	il essa	
	20	ā 17	22.0038	21.9165
	20	2 - 7	23.9915	25.3987
	20		3.500	41.0522

		and the same of the same of		
	20	2 4	16,1826	16,0214
(19)	20	2 6	46.5424	41.6031
	20	2 7	19.9658	17.2099
	20	4 -1	36.5896	31.1691
	20	\mathbf{A}_{i} , \mathbf{A}_{i}	38.2305	41.2294
	21	1 -22	53.7713	60.9576
	21	1 -16	27.1869	25.3821
	21	1 -6	15.7651	11.1021
AND DESCRIPTION OF THE PARTY OF	21	1 -4	51,9379	54,4369
	21	1 6	23 - 5241	17,4058
	21	1 8	48.2187	54.9523
	Ži	3 -15	30.1984	32.6233
	zî -	- 1 3 - 9	31.3195	29.5944
	21	3 -8		
			2546106	24.7036
	21	3 74	27.3964	29.1866
The second second	22	0 -16	17.7835	24,4773
	22	0 -14	23.2319	19.3588
The second	22	0 48	39.3921	42.8198
	22	0 -5	34.5729	33.1592
0.00	22	0 -4	14.0354	15.8957
	22	0 -2	74.6032	75.2422
	22	0 4	25.8249	25.9609
	22	2 -13	28.2814	28.6772
	22	2 -8	41.6542	41.2203
	22	2 -7	20.0724	15.1592
	22	2 -4	16.5532	8.9382
	22	2 -2	64.8242	62.8183
	22	à ō	23.0486	10.5061
	25	Ž Y		
			30 1465	24.1223
	22	2 3	2569859	16.9201
	23	1 -18	67.7314	69.3567
-	23	1 -6	24,5153	31.7193
	23	-4	25 48 44	14,6143
	23	1 0	28,5750	23.9915
	23	1 6	28,1036	26.0175
	23	3 -13	32,2156	17.3673
adjustment of the last of the	2.3	3 -6	3. 2204	24,3744
	24	0 -10	51.2831	52,0891
	24	ŏ îz	37.6897	40,6368
	24	2 -16	36.9825	40.5240
Application of the Control	24	2-13	28.4838	18-9061
	25	1 -2	48.5592	44.0153
	26		54,0856	52,8765
		0 -12		TERE (CD
Commence of the Commence of th				