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ROCK-EVAL/TOC DATA FROM AN ADDITIONAL SEVEN WELLS LOCATED WITHIN THE JEANNE D'ARC BASIN, OFFSHORE NEWFOUNDLAND

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This Open File Report contains raw data from Rock-Eval type analysis of samples from seven wells located within the Jeanne D'Arc Basin additional to those previously reported (Snowdon and Fowler, 1986). As before, there has been no attempt to remove spurious results and caution must especially be advised in giving credence to parameters such as Hydrogen Indices and Tmax values from those samples with low TOC values. Depths of the samples have been reported in the units in which the wells were originally drilled and logged. Thus, the Egret wells are reported in feet and the others in metres.

The Kimmeridgian source rock (Egret member, Rankin Formation) is believed to be the major source-rock for oil in the Jeanne D'Arc Basin. It is thought to be present in all the wells analysed for this report with the exception of Whiterose N-22. Only the upper section of the well (1600-2450m) contains significant amounts of organic matter (that is, > 1% TOC), and this is immature Type III. Some samples in the 4480-4610m interval also give TOC values greater than 1%. These have anomalously low Tmax values and possibly indicate the addition of drilling additives. High S1/S1 + S2 values generally occur at depths below 2400m, suggesting that most of this lower section has been stained by migrated hydrocarbons. This is not suprising as the results of drill stem tests have indicated hydrocarbon shows between 2663m to 3572m in this well.

The Kimmeridgian-aged source rock was first reported in the Jeanne D'Arc Basin in Egret K-36 by Swift and Williams (1980). It is apparent from the data presented here that this source rock occurs between 8520ft. (2596.9m) and 8910ft. (2715.8m) in this well. It appears to consist of two discrete organic-rich zones (ie. 8520-8580ft. and 8730-8910ft.; 2596.9-2615.2m and 2660.9- 2715.8m) containing immature organic matter with a good potential to generate hydrocarbons. These are separated by a less organic- rich interval having organic matter with little, if any, hydrocarbon

potential. These results are similar to those published by Creaney and Allison (1987). Also present in this well are other relatively organic-rich sequences between 4520- 4880ft. (1377.7-1487.4m) and 5300-5790ft. (1615.4-1764.8m), but these have almost zero hydrocarbon potential because of the type of organic matter which appears to be essentially inert.

The depth distribution of the samples that were obtained from the Egret N-46 well is patchy. Unfortunately, no samples were available from the section in which the Kimmeridgian source rock is thought to occur. The data presented here do indicate that relatively organic-rich zones occur similar to those above the source rock in the K-36 well, notably one between 4650-4800ft. (1417.3-1463.0m) which may have some gas potential. The organic matter throughout this well appears to be immature.

In the Port-au-Port J-97 well, the Kimmeridgian source rock occurs between depths of about 1820-1890m. The quality (ie. type) of organic matter present in this interval (Type II-III) is not as good for hydrocarbon production as that observed elsewhere in the Jeanne D'Arc Basin for this horizon (eg. see data from the Rankin and Panther wells). The Tmax values obtained from Port- au-Port J-97 samples indicate that the organic matter in this well is immature with respect to hydrocarbon generation.

The results for the Archer K-19 well are similar to those for the Egret K-36 well in that the source rock appears to consist of two discrete zones (3290-3440m and 3570-3620m). Although the intervening section in the K-36 well is relatively organic-rich (>1% TOC), it contains organic matter with a much lower potential to generate hydrocarbons. Other moderately organic-rich intervals occur deeper in the well but contain organic matter with a low hydrocarbon potential (Type III-IV), although it could possibly generate some gas. Low Tmax values indicate that the organic matter is immature throughout the Archer well and hence could not have generated significant amounts of hydrocarbons.

There appear to be two zones in Rankin M-36 that have source potential. The upper zone (approx. 2440-2550m) is believed to be the Kimmeridgian source rock. It shows good TOC values (1-5%) and contains Type I-II organic matter. The second, deeper zone (3330-3450m) which is believed to be of Oxfordian age, has slightly lower TOC values (1-4%). It has HI values suggesting that its organic matter is Type II-III and therefore has a lower potential to generate hydrocarbons than the Egret member. Neither sequence has probably generated significant quantities of hydrocarbons, as indicated by their Tmax and low PI (S1/S1 + S2) values. The Egret member is immature whilst the lower zone is approaching maturity.

The results from the Panther P-52 well suggest that it contains a thick source interval between 2880 and 3950m that has the potential to generate large quantities of hydrocarbons. The TOC and HI values indicate that some sections within this interval have particularly good source potential, for example 3250-3500m, 3530-3570m and 3820-3940m. The quality of the organic matter in the upper two of these sequences is better than that observed in the Archer or Port-au-Port wells, being Type I to Type II. The 3820-3940m section shows Type II-III organic matter and may be equivalent to the Oxfordian-aged interval present in the Rankin well. The Tmax values show a reasonable trend with depth. They indicate that the organic matter is immature to marginally mature in the interval showing the best source potential and therefore unlikely to have generated any significant quantity of hydrocarbons. However, higher PI values are recorded for the lower organic-rich horizon (3820-3940m), indicating that this may have started to generate hydrocarbons.

Table I contains the standard measured Rock-Eval parameters (Espitalie et al., 1977, 1985) as well as several derived parameters:

TOC = total organic carbon reported as percent by weight of the whole rock;

TMAX = temperature (°C) at the top of the S2 peak;

S1 = hydrocarbons evolved (distilled or thermovaporized) at 300°C (mg hydrocarbon per g rock);

S2 = hydrocarbons evolved during heating at 25°C/min between 300°C and 600°C;

S3 = organic carbon dioxide evolved at 300°C and up to 390°C;

PI = Production Index = S1/(S1 + S2);

HI = Hydrogen Index = S2/TOC; and

OI = Oxygen Index = S3/TOC.

References

Creaney, S. and Allison, B.H.,1987. An organic geochemical model of oil generation in the Avalon/Flemish Pass sub-basins, east coast Canada. Bull. Can. Petrol. Geol. 35(1),p.12-23.

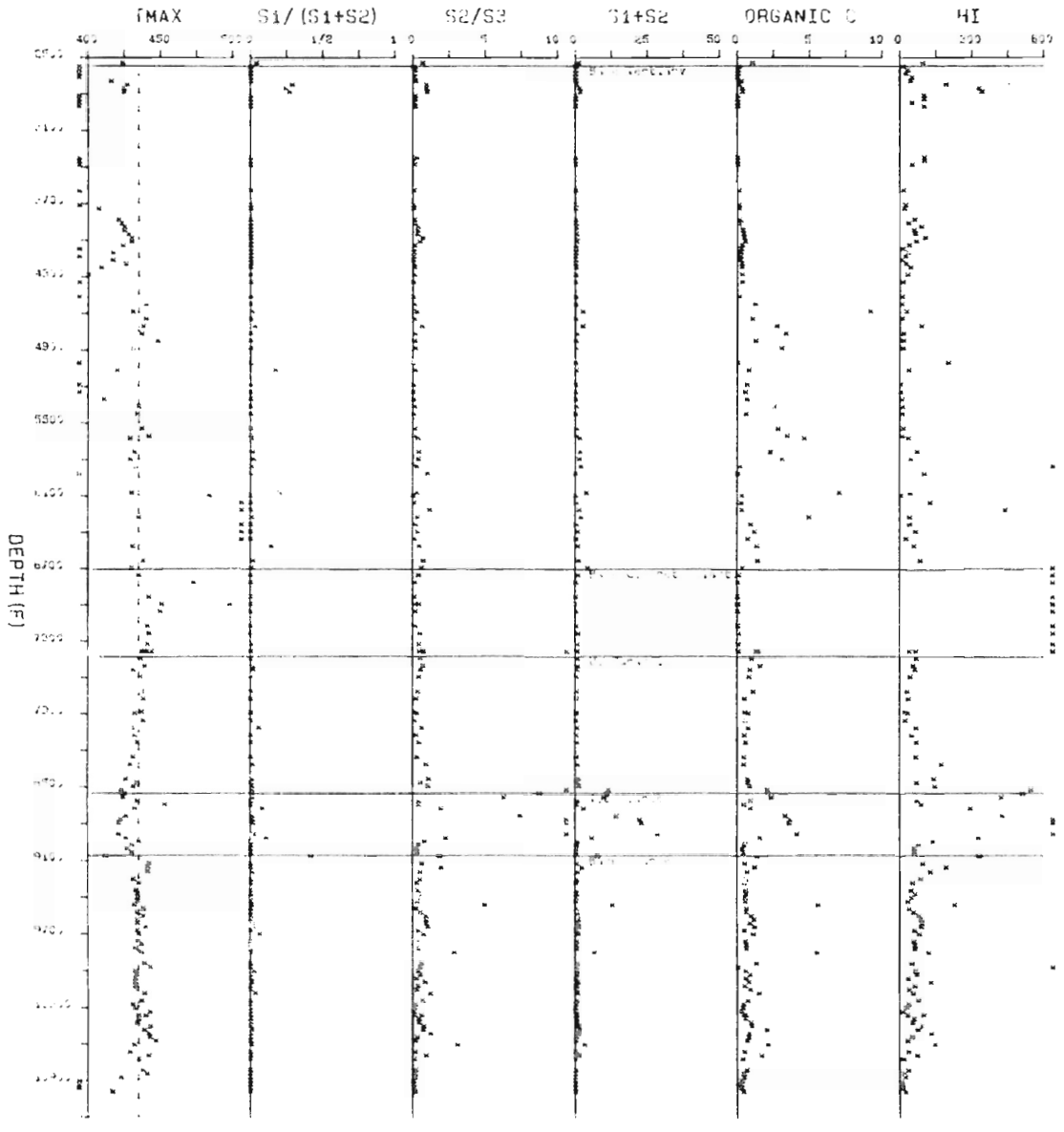
Espitalié, J., Laporte, J.L., Madec, M., Marquist, F., Leplat, P., Paulet, P., and Boutefeu, A., 1977. Methode Rapide de caractérisation des roches mères de leur potential pétrolier et de leur degré d'évolution. Revue de l'Institut Français du Pétrole, 32(1),p.23-42.

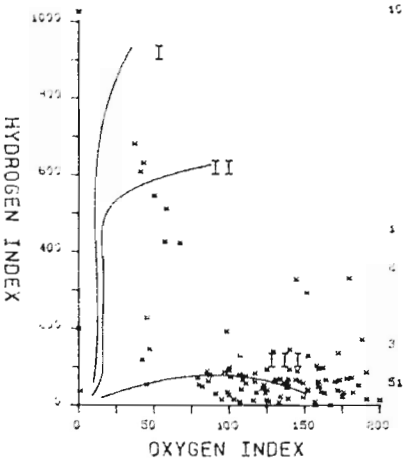
Espitalié, J., Deroo, G., and Marquis, F. 1985. Rock-Eval pyrolysis and its applications. Institut Français du Pétrole preprint 27299, 132 p.

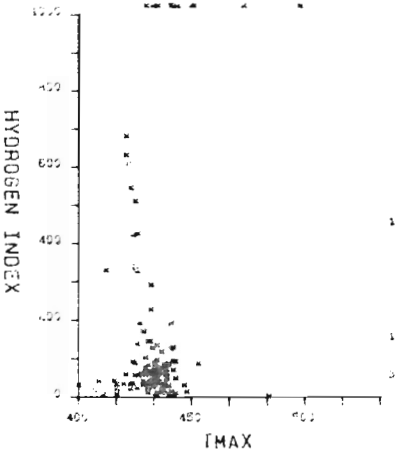
Snowdon, L.R. and Fowler, M.G.,1986. Rock-Eval/TOC data from seven wells located within the Jeanne D'Arc Basin, offshore Newfoundland. Geol.Surv. Can. Open File Report #1382.

Swift, J.H. and Williams, J.A.,(1980). Petroleum source rocks, Grand Banks area. In: Miall, A.D. (Ed.), Facts and Principles of World Petroleum Occurrence. Soc. Petrol. Geol.,Mem. 6, p.567-588.

Amoco Imperial Skelly Egret K-36







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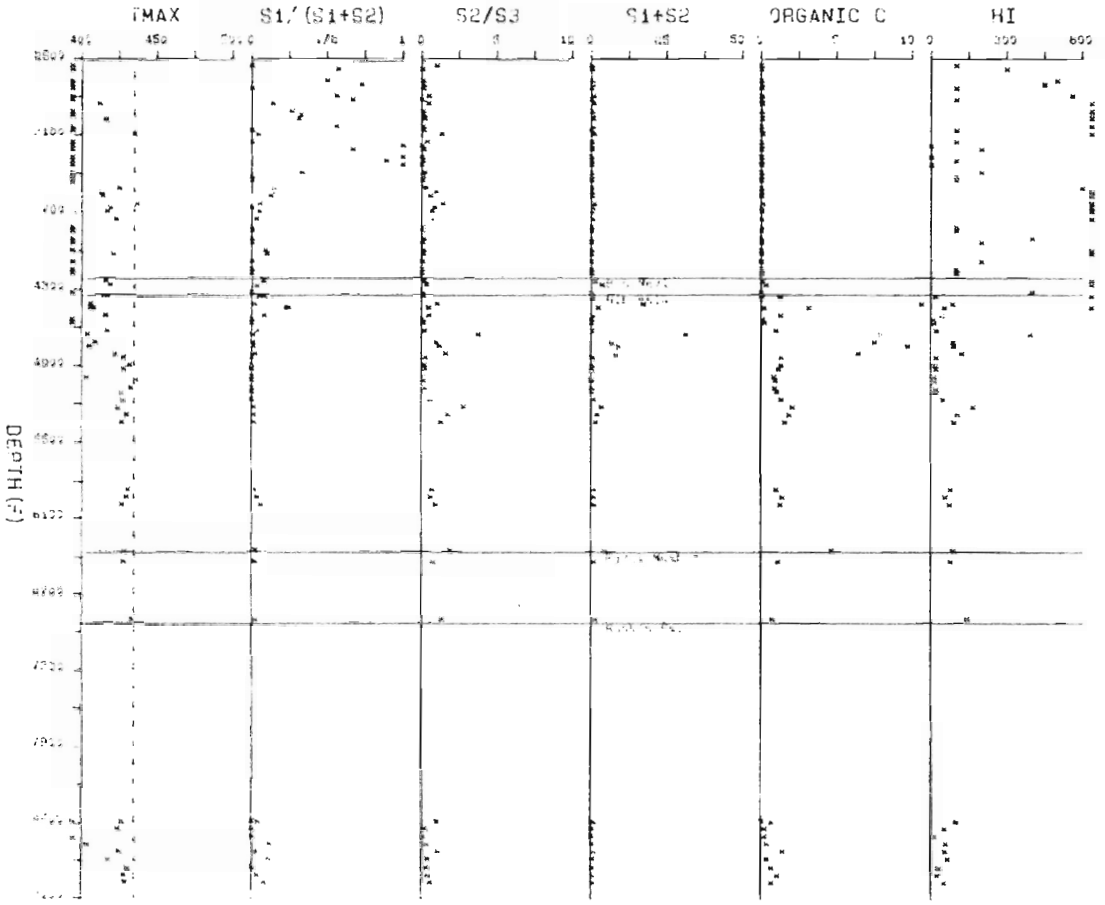
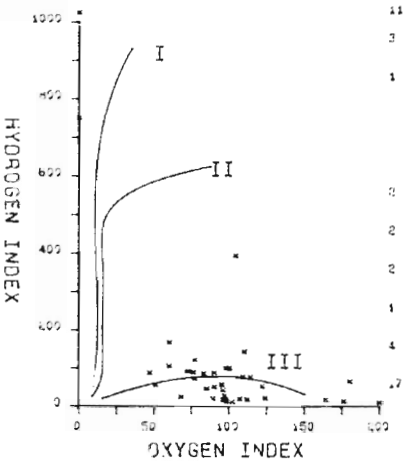
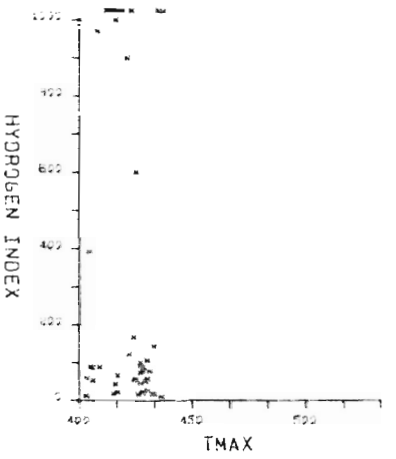
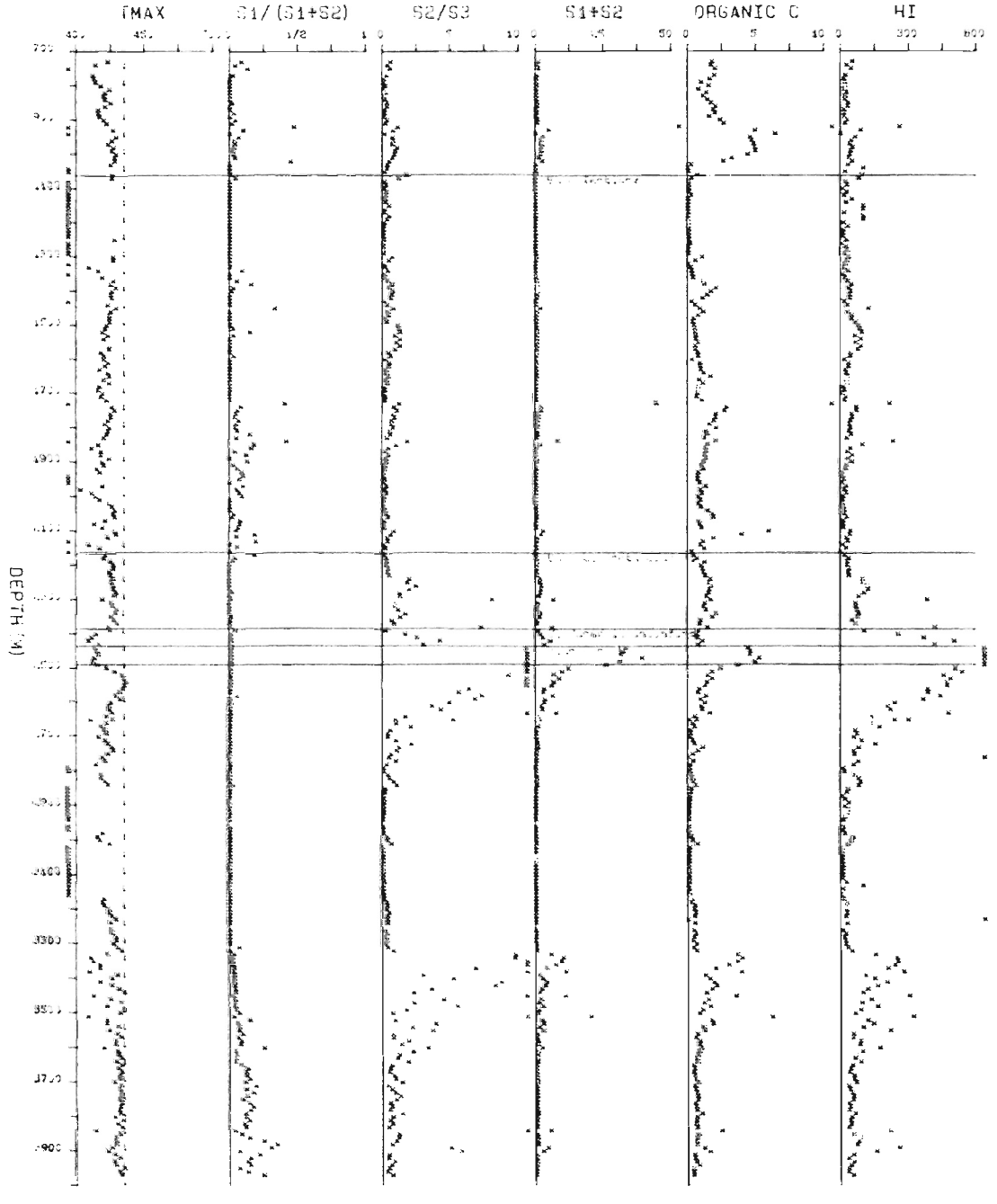
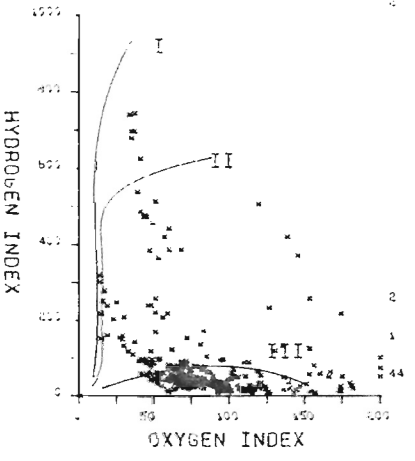


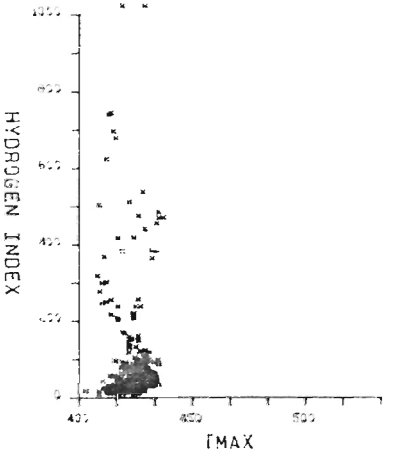




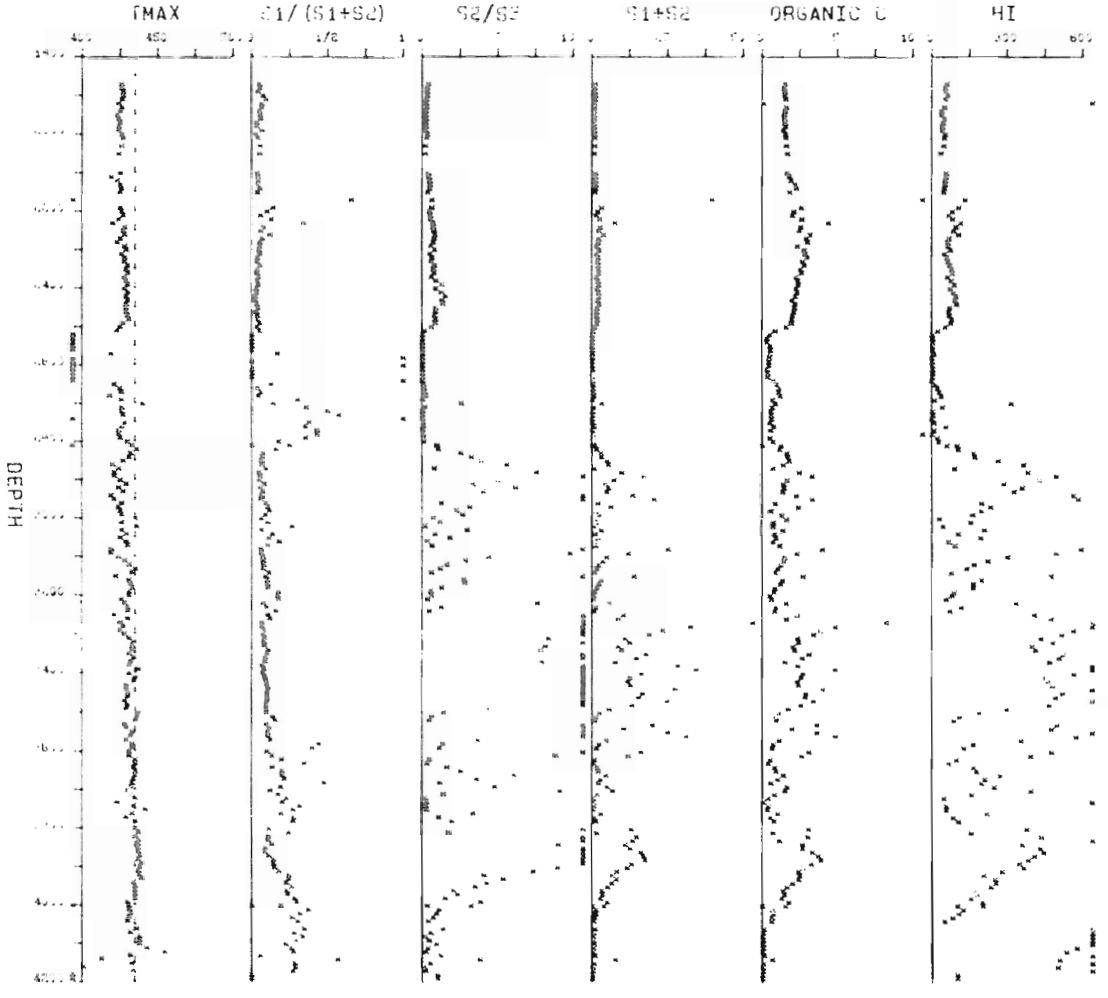
Mobil et al Rankin M-36

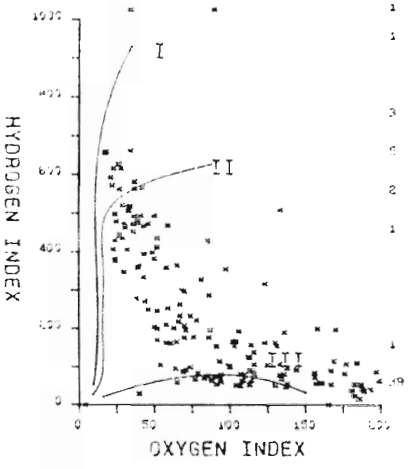


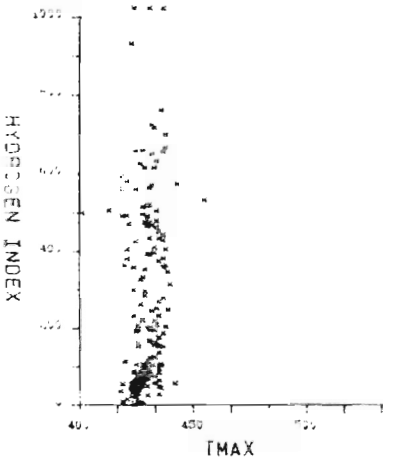




Husky Bow Valley Panther P-52







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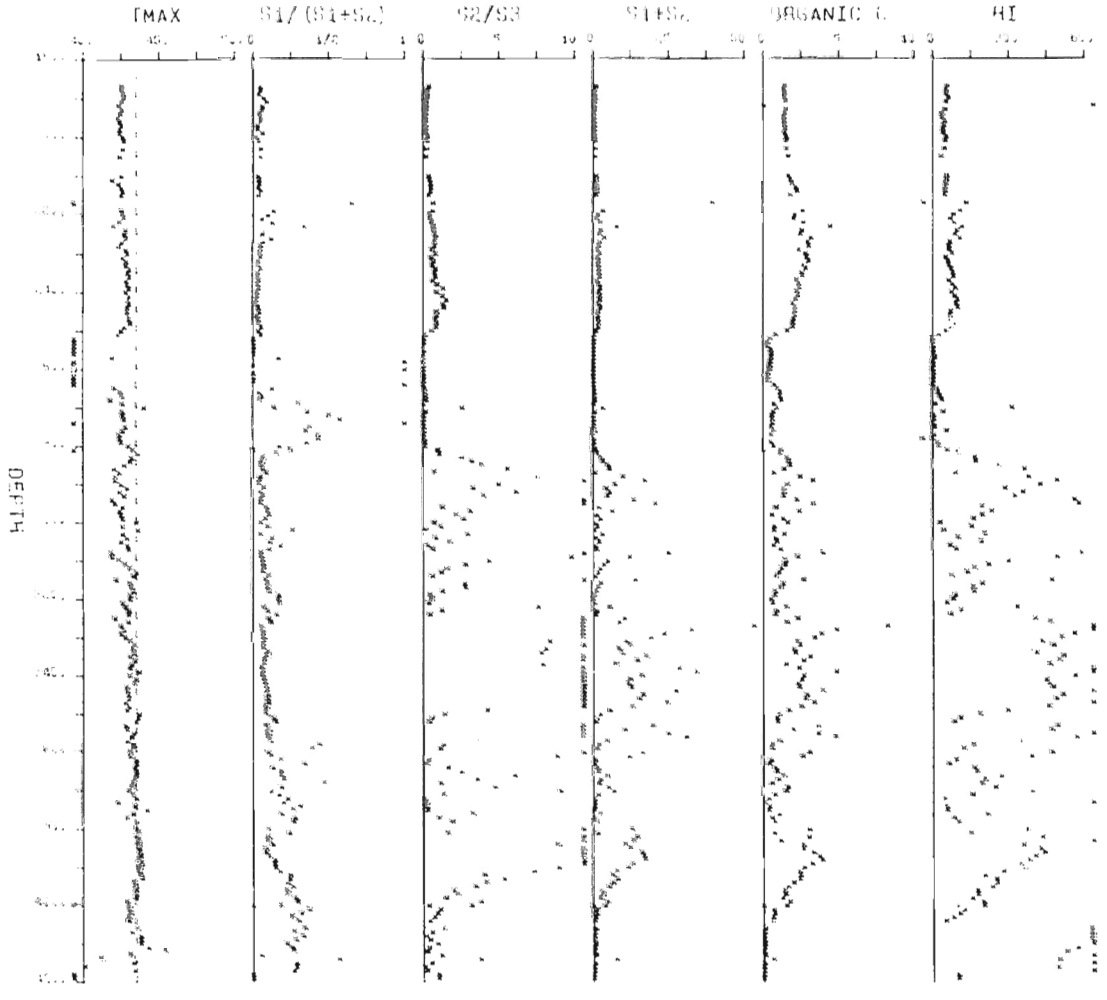
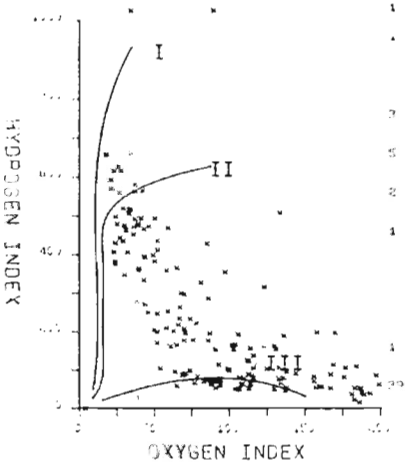
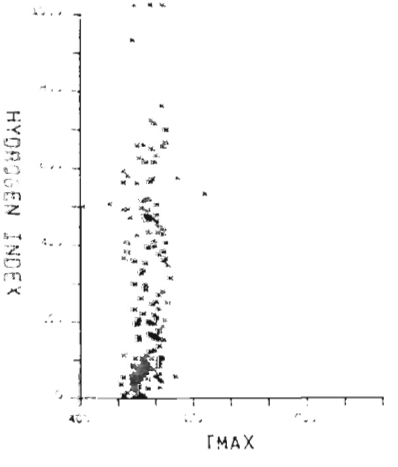
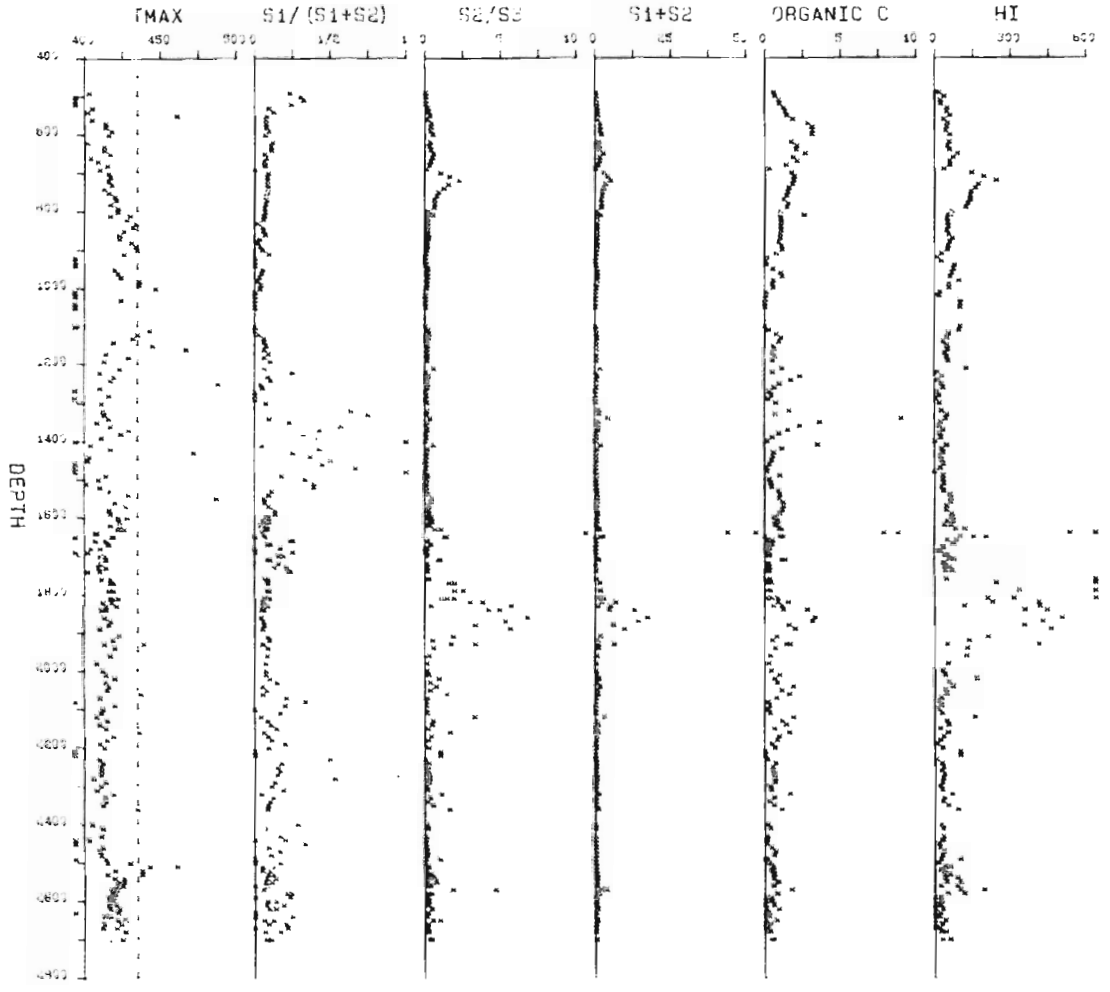
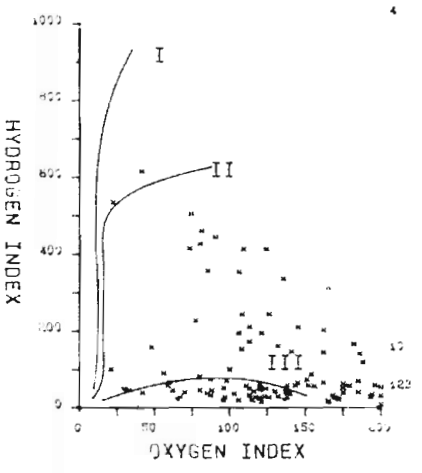


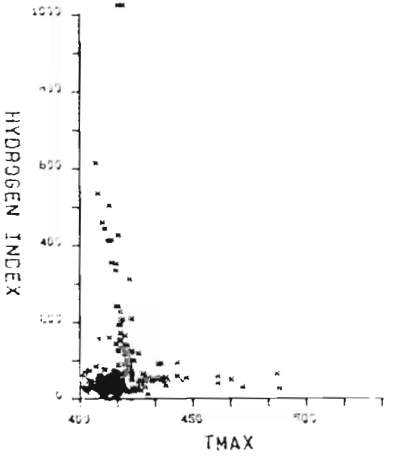




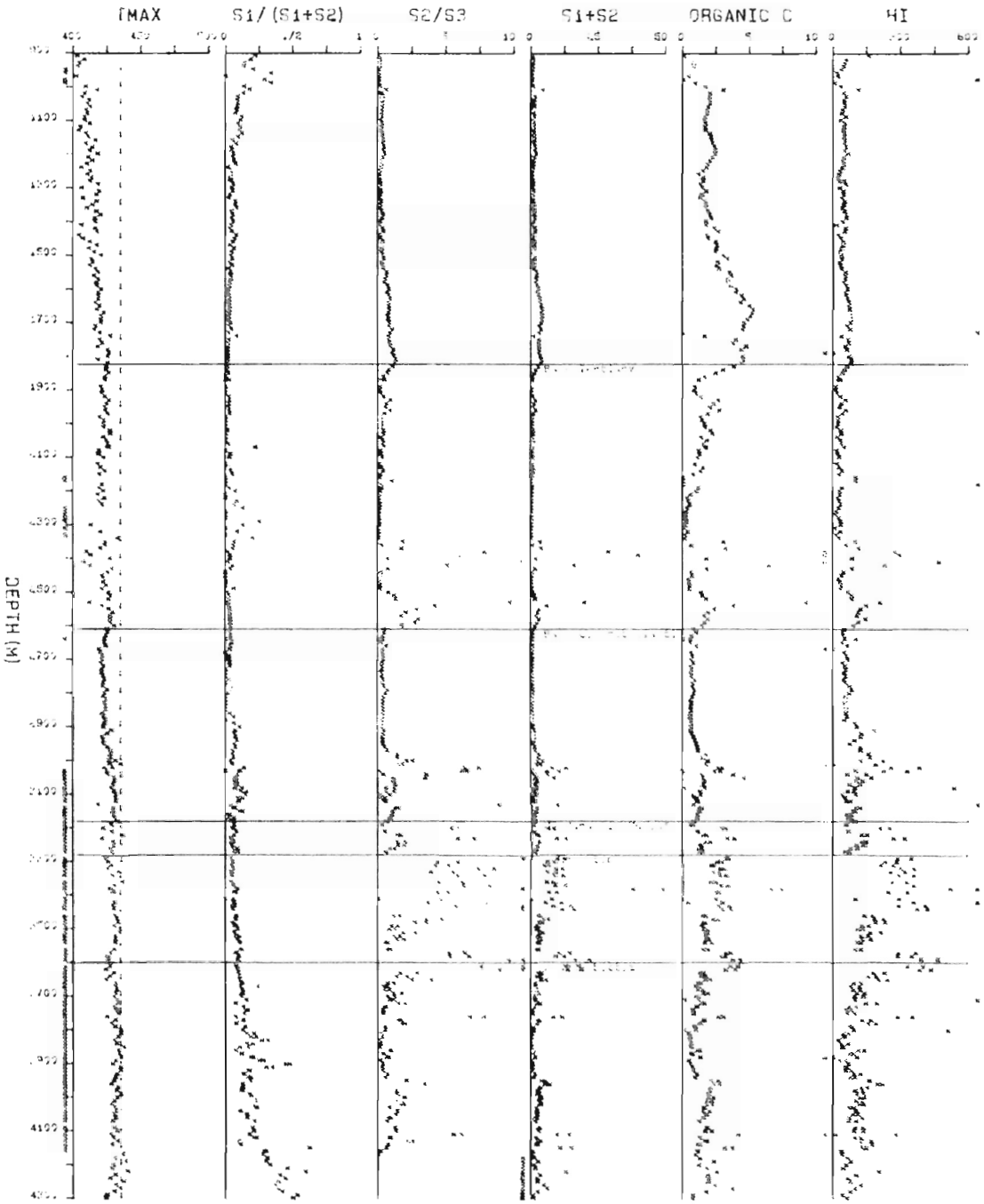
Canterra PCI et al Port-au-Port J-97

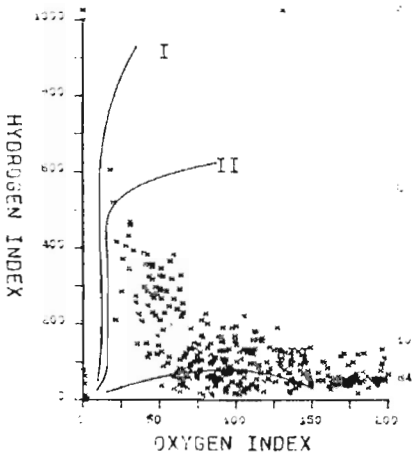


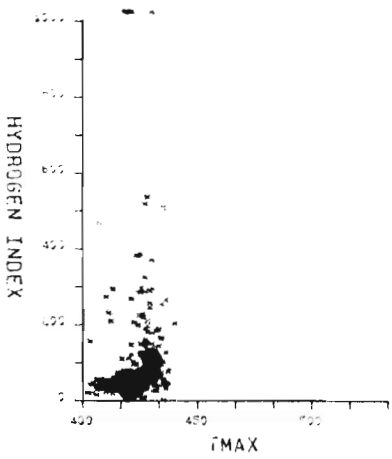




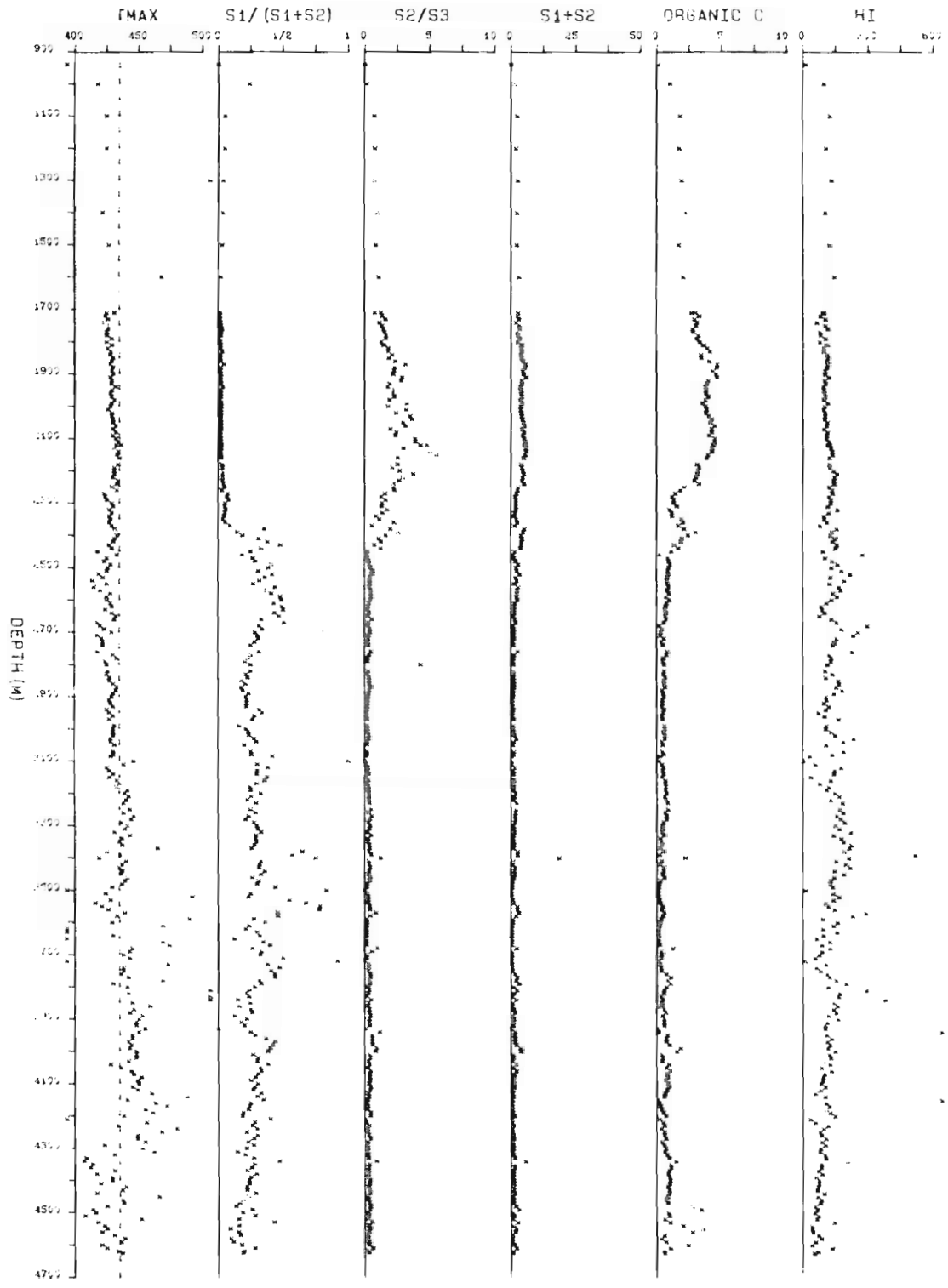
Husky Bow Valley Archer K-19

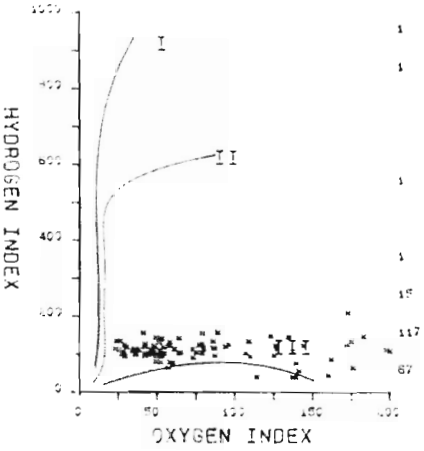


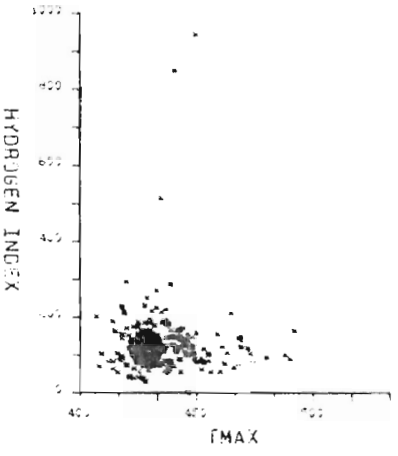




Husky Bow Valley Whiterose N-22







DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	******	****	******	******	*****	***	***
4299M	.71	.50	.88	424	.44	.44	.01	61	1
4290M	.73	.53	.64	425	.34	.30	.01	41	1
4280	1.75	.42	2.31	430	.96	1.35	.01	77	0
4270	3.69	.39	5.78	434	2.23	3.55	.01	96	0
4260	2.38	.37	4.60	431	1.69	2.91	.01	122	0
4250	1.88	.39	2.40	437	.94	1.46	.01	77	0
4240	1.88	.44	2.31	427	1.02	1.29	.01	68	0
4230	1.89	.40	3.30	431	1.32	1.98	.01	104	0
4220	2.55	.59	12.71	440	7.50	5.21	.01	204	0
4210	1.81	.46	1.57	428	.72	.85	.01	46	0
4200	1.22	.33	1.07	429	.35	.72	.01	59	0
4190	2.32	.30	2.71	438	.81	1.90	.01	81	0
4180	1.30	.31	1.23	430	.38	.85	.01	65	0
4170	.98	.28	.54	436	.15	.39	17.82	391	818
4160	1.03	.29	.49	436	.14	.35	1.93	33	187
4150	3.13	.62	10.64	354	6.56	4.08	7.05	130	225
4140	1.14	.09	1.69	428	.16	1.53	2.24	134	196
4130	1.68	.09	2.36	432	.22	2.14	.86	127	51
4120	1.23	.21	1.48	429	.31	1.17	1.35	95	109
4110	71.03	.17	9.49	427	1.66	7.83	1.41	11	1
4100	2.19	.21	2.60	432	.54	2.06	1.55	94	70
4090	1.79	.20	2.19	430	.43	1.76	1.49	98	83
4070	1.16	.21	1.05	429	.22	.83	1.35	71	116
4060	1.57	.16	1.33	431	.21	1.12	1.61	71	102
4050	1.62	.15	1.71	430	.25	1.46	1.14	90	70
4040	1.50	.10	1.67	431	.16	1.51	1.12	100	74
4030	1.55	.22	1.45	430	.32	1.13	1.50	72	96
4020	1.74	.19	2.57	428	.50	2.07	1.30	118	74
4010	1.84	.21	2.44	430	.51	1.93	1.40	104	76
4000	1.94	.18	2.87	432	.53	2.34	1.29	120	66
3990	1.83	.17	2.28	435	.39	1.89	1.41	103	77
3980	2.05	.11	2.23	432	.25	1.98	1.50	96	73
3980	1.97	.12	2.26	432	.27	1.99	1.53	101	77
3970	1.84	.11	2.58	433	.29	2.29	1.25	124	67
3960	2.29	.12	5.15	428	.62	4.53	1.34	197	58
3950	2.10	.18	3.89	430	.70	3.19	1.52	151	72
3940	.87	.16	.80	431	.13	.67	1.28	77	147
3930	.99	.13	1.07	432	.14	.93	1.41	93	142
3920	.73	.18	.51	435	.09	.42	1.32	57	180
3910	.69	.30	.53	435	.16	.37	1.22	53	176
3900	.55	.45	.67	429	.30	.37	1.10	67	200
3890	.46	.28	.18	431	.05	.13	1.12	28	243
3880	70.63	.21	1.16	435	.24	.92	1.53	1	2
3870	.61	.12	.51	434	.06	.45	1.44	73	236
3860	1.11	.07	1.35	433	.10	1.25	1.62	112	145
3850	.55	.10	.29	437	.03	.26	1.60	47	290
3840	.55	.20	.25	432	.05	.20	1.36	36	247
3830	.43	.27	.15	430	.04	.11	1.31	25	304
3820	.52	.19	.27	433	.05	.22	.88	42	169
3810	.42	.21	.24	435	.05	.19	1.28	45	304
3800	.12	.13	.70	435	.09	.61	1.36	508	1133

3790	.82	.14	.69	431	.10	.59	1.27	71	154
3780	1.17	.08	1.97	428	.16	1.81	1.06	154	90
3770	1.52	.13	2.27	431	.30	1.97	1.36	129	89
3760	2.68	.07	8.28	425	.61	7.67	1.14	286	42
3750	.77	.14	.56	433	.08	.48	1.61	62	209
3740	.71	.16	.49	431	.08	.41	1.40	57	197
3740	.77	.15	.55	433	.08	.47	1.29	61	167
3730	.96	.14	.79	430	.11	.68	1.72	70	179
3720	1.41	.08	2.22	433	.17	2.05	1.41	145	100
3710	1.17	.16	1.34	432	.21	1.13	1.30	96	111
3700	1.00	.12	1.09	430	.13	.96	1.29	95	129
3690	1.55	.13	1.87	431	.24	1.63	1.45	105	93
3680	1.15	.13	1.19	432	.15	1.04	2.25	90	195
3670	.94	.11	.82	431	.09	.73	1.84	77	195
3660	1.12	.13	1.19	431	.15	1.04	1.53	92	136
3650	1.72	.11	3.85	424	.41	3.44	1.41	200	81
3640	1.40	.10	2.41	427	.25	2.16	1.65	154	117
3630	1.31	.09	2.61	430	.24	2.37	1.48	180	112
3620	3.24	.09	13.60	424	1.21	12.39	1.39	382	42
3610	3.57	.08	12.63	427	1.02	11.61	1.54	325	43
3590	3.76	.09	16.06	425	1.49	14.57	1.52	387	40
3580	2.84	.10	9.00	425	.90	8.10	1.54	285	54
3570	3.26	.08	10.25	427	.85	9.40	1.81	288	55
3560	1.55	.12	1.72	430	.21	1.51	2.46	97	158
3540	1.68	.12	2.09	431	.26	1.83	3.61	108	214
3530	1.79	.09	2.55	431	.24	2.31	1.68	129	93
3520	1.67	.10	2.31	431	.23	2.08	1.79	124	107
3510	1.66	.07	2.92	434	.19	2.73	1.50	164	90
3500	1.58	.09	1.91	434	.17	1.74	2.06	110	130
3490	1.41	.08	1.97	430	.16	1.81	1.84	128	130
3480	1.47	.06	2.95	433	.18	2.77	1.03	188	70
3470	2.25	.08	4.50	432	.34	4.16	1.18	184	52
3460	1.55	.08	2.35	431	.19	2.16	1.90	139	122
3440	2.93	.06	11.52	430	.64	10.88	.77	371	26
3430	2.67	.07	8.29	429	.55	7.74	1.36	289	50
3420	.44	.07	5.33	430	.36	4.97	1.36	1129	309
3390	2.45	.08	6.52	429	.49	6.03	1.39	246	56
3380	6.62	.09	37.74	427	3.33	34.41	1.34	519	20
3370	2.84	.06	8.95	430	.53	8.42	1.34	296	47
3360	2.13	.05	5.92	436	.27	5.65	1.27	265	59
3340	2.76	.05	8.39	429	.39	8.00	1.38	289	50
3330	2.24	.05	5.99	434	.28	5.71	1.47	254	65
3320	2.79	.06	8.80	425	.49	8.31	1.13	297	40
3310	2.16	.05	4.76	428	.22	4.54	1.09	210	50
3300	2.57	.05	6.24	426	.33	5.91	1.37	229	53
3290	3.23	.04	9.59	424	.36	9.23	.81	285	25
3270	1.26	.09	.78	428	.07	.71	1.53	56	121
3260	1.22	.09	1.05	427	.09	.96	1.14	78	93
3250	1.26	.05	1.39	429	.07	1.32	.91	104	72
3240	1.74	.06	2.40	429	.14	2.26	1.60	129	91
3230	3.36	.04	9.44	421	.42	9.02	1.55	268	46
3220	1.56	.06	2.14	436	.13	2.01	1.42	128	91
3210	1.04	.08	.77	428	.06	.71	1.50	68	144
3200	2.89	.06	6.37	422	.37	6.00	1.12	207	38
3190	.57	.06	.32	428	.02	.30	1.28	52	224

3180	.81	.04	.67	432	.03	.64	1.07	79	132
3170	.94	.06	.68	430	.04	.64	.88	68	93
3160	1.06	.03	.68	429	.02	.66	.72	62	67
3150	1.11	.13	1.12	429	.14	.98	1.07	88	96
3140	1.19	.07	1.29	429	.09	1.20	1.00	100	84
3130	.80	.04	9.66	418	.35	9.31	1.05	1163	131
3120	1.01	.09	.66	431	.06	.60	1.50	59	148
3110	1.03	.13	.64	431	.08	.56	1.17	54	113
3100	.74	.14	.35	431	.05	.30	1.55	40	209
3090	1.31	.15	1.44	430	.22	1.22	1.09	93	83
3080	.11	.12	.67	428	.08	.59	1.05	536	954
3070	1.56	.09	1.27	429	.11	1.16	.95	74	60
3060	1.33	.08	1.49	430	.12	1.37	1.14	103	85
3050	1.49	.06	1.71	429	.11	1.60	1.54	107	103
3040	3.79	.08	6.18	425	.51	5.67	1.59	149	41
3030	2.36	.11	5.95	424	.64	5.31	.86	225	36
3020	2.66	.13	7.87	429	1.03	6.84	.92	257	34
3020	2.96	.14	13.10	423	1.77	11.33	1.77	382	59
3010	1.74	.05	3.48	427	.17	3.31	2.22	190	127
3000	1.91	.03	2.39	431	.08	2.31	.92	120	48
3000	1.85	.04	4.25	426	.18	4.07	1.95	220	105
2990	1.52	.05	2.62	427	.14	2.48	1.79	163	117
2980	1.69	.05	2.81	427	.13	2.68	1.94	158	114
2970	1.13	.05	1.47	427	.07	1.40	2.08	123	184
2960	1.12	.07	1.48	425	.10	1.38	2.80	123	250
2950	1.03	.06	.83	422	.05	.78	2.25	75	218
2940	.93	.08	.98	422	.08	.90	2.48	96	266
2930	.82	.07	1.09	421	.08	1.01	2.99	123	364
2920	.69	.06	.94	425	.06	.88	2.43	127	352
2910	.59	.07	1.15	428	.08	1.07	2.50	181	423
2900	.59	.10	.69	422	.07	.62	2.76	105	467
2890	.62	.06	.64	423	.04	.60	2.73	96	440
2880	.57	0.00	.29	423	0.00	.29	1.08	50	189
2870	.55	.05	.37	422	.02	.35	1.13	63	205
2860	.56	.03	.33	421	.01	.32	.99	57	176
2850	.62	0.00	.36	423	0.00	.36	1.01	58	162
2840	.58	0.00	.32	423	0.00	.32	1.03	55	177
2830	.66	0.00	.34	422	0.00	.34	1.02	51	154
2820	.59	0.00	.32	423	0.00	.32	1.02	54	172
2810	.69	0.00	.38	422	0.00	.38	1.02	55	147
2800	.79	.02	.58	423	.01	.57	1.07	72	135
2790	.85	.03	.73	425	.02	.71	1.04	83	122
2780	.71	.04	.55	422	.02	.53	1.30	74	183
2770	.69	0.00	.38	422	0.00	.38	1.14	55	165
2760	.86	.02	.43	423	.01	.42	1.09	48	126
2750	.59	0.00	.34	422	0.00	.34	1.26	57	213
2740	.55	0.00	.27	421	0.00	.27	1.13	49	205
2730	.57	0.00	.31	421	0.00	.31	1.02	54	178
2720	.60	.03	.33	422	.01	.32	1.14	53	190
2710	.77	.03	.33	420	.01	.32	1.15	41	149
2700	.60	.03	.39	421	.01	.38	1.12	63	186
2690	.68	.02	.41	421	.01	.40	1.20	58	176
2680	.58	0.00	.28	420	0.00	.28	1.01	48	174
2660	1.00	.03	.62	424	.02	.60	1.05	59	105
2650	.54	.05	.22	423	.01	.21	1.04	38	192

2640	.54	.03	.29	423	.01	.28	.85	51	157
2640	.01	0.00	.01	0	0.00	.01	.36	1003	599
2630	.64	.03	.31	424	.01	.30	.96	46	149
2620	.99	.02	.42	425	.01	.41	1.01	41	102
2610	.75	.03	.38	425	.01	.37	.89	49	118
2600	1.42	.03	1.31	430	.04	1.27	.75	89	52
2590	1.62	.03	1.88	427	.06	1.82	.69	112	42
2580	1.86	.03	2.75	427	.08	2.67	.92	143	49
2570	1.58	.03	1.74	427	.05	1.69	1.00	106	63
2560	1.88	.03	2.20	429	.06	2.14	1.06	113	56
2550	2.33	.02	2.92	426	.07	2.85	1.02	122	43
2540	3.77	.02	5.68	421	.12	5.56	1.34	147	35
2530	9.20	.02	19.68	412	.34	19.34	2.00	210	21
2520	1.74	.02	1.48	426	.03	1.45	1.10	83	63
2510	1.50	.02	1.27	427	.03	1.24	1.04	82	69
2500	1.36	.01	.90	426	.01	.89	1.15	65	84
2490	.50	.06	.17	421	.01	.16	1.08	32	216
2480	.50	0.00	.18	424	0.00	.18	1.21	35	241
2470	.44	0.00	.14	422	0.00	.14	1.52	31	345
2460	.38	0.00	.10	422	0.00	.10	1.45	26	381
2450	.67	0.00	.26	421	0.00	.26	1.83	38	273
2440	.61	0.00	.29	425	0.00	.29	1.36	47	222
2430	1.76	.03	1.52	428	.05	1.47	2.02	83	114
2420	6.48	.05	15.76	411	.74	15.02	2.98	231	45
2410	15.93	.02	75.80	407	1.14	74.66	4.98	468	31
2400	1.79	.03	1.59	427	.05	1.54	2.32	86	129
2390	13.03	.03	39.71	413	1.33	38.38	6.52	294	50
2380	10.35	.01	28.76	410	.43	28.33	3.62	273	34
2370	3.18	.05	3.77	420	.18	3.59	2.12	112	66
2360	.64	.05	.38	423	.02	.36	1.49	56	232
2350	3.07	.06	3.19	423	.19	3.00	1.69	97	55
2340	.15	.20	.05	432	.01	.04	1.15	26	766
2330	.14	0.00	.02	348	0.00	.02	1.05	14	750
2320	.33	.08	.12	420	.01	.11	1.16	33	351
2310	.13	0.00	.01	353	0.00	.01	.94	7	723
2300	.20	.13	.08	413	.01	.07	.86	35	429
2290	.26	.25	.12	395	.03	.09	1.17	34	449
2280	.20	0.00	.05	363	0.00	.05	.77	25	385
2270	.18	0.00	.02	345	0.00	.02	.82	11	455
2260	.22	0.00	.03	347	0.00	.03	.77	13	350
2250	.29	.13	.08	381	.01	.07	.90	24	310
2240	.50	.06	.17	421	.01	.16	1.26	32	252
2230	.40	.08	.12	419	.01	.11	1.13	27	282
2220	.29	0.00	.06	423	0.00	.06	1.22	20	420
2210	.53	0.00	.15	418	0.00	.15	1.44	28	271
2200	.95	.07	.30	422	.02	.28	2.06	29	216
2190	1.04	.02	.42	419	.01	.41	1.71	39	164
2180	.02	0.00	.34	421	0.00	.34	1.44	17007	199
2170	.01	0.00	.01	0	0.00	.01	.01	100	100
2160	.01	0.00	.01	0	0.00	.01	.08	100	800
2150	.74	.05	.21	419	.01	.20	1.20	27	162
2140	1.29	.04	.55	423	.02	.53	1.42	41	110
2130	1.49	.02	.45	420	.01	.44	1.62	29	108
2120	.86	0.00	.16	418	0.00	.16	1.55	18	180
2100	1.07	.03	.33	422	.01	.32	1.13	29	105

2090	1.17	.03	.30	419	.01	.29	1.58	24	135
2090	1.27	.04	.25	418	.01	.24	1.72	18	135
2080	1.17	0.00	.17	419	0.00	.17	1.20	14	102
2080	1.20	0.00	.20	419	0.00	.20	1.19	16	99
2070	1.74	.22	1.08	426	.24	.84	1.51	48	86
2070	1.58	.22	.99	424	.22	.77	1.54	48	97
2060	1.52	.02	.54	425	.01	.53	1.72	34	113
2050	1.78	0.00	.56	424	0.00	.56	1.67	31	93
2040	1.36	0.00	.29	422	0.00	.29	1.27	21	93
2030	2.21	0.00	.86	427	0.00	.86	2.28	38	103
2020	2.07	.01	.74	427	.01	.73	1.79	35	86
2010	1.65	0.00	.30	422	0.00	.30	1.65	18	100
2000	1.62	0.00	.36	422	0.00	.36	1.68	22	103
1990	1.44	0.00	.31	422	0.00	.31	1.71	21	118
1980	1.30	0.00	.27	419	0.00	.27	1.37	20	105
1970	1.83	.03	.76	425	.02	.74	1.58	40	86
1960	2.71	.02	1.61	423	.04	1.57	1.89	57	69
1950	2.00	.02	.60	423	.01	.59	1.20	29	59
1940	2.27	.02	.88	424	.02	.86	1.48	37	65
1930	2.62	.03	1.52	426	.04	1.48	1.67	56	63
1920	1.32	.02	.43	423	.01	.42	1.08	31	81
1910	.97	0.00	.16	421	0.00	.16	.81	16	83
1900	.86	0.00	.10	421	0.00	.10	.73	11	84
1890	.90	0.00	.10	420	0.00	.10	.71	11	78
1870	1.17	0.00	.21	423	0.00	.21	.89	17	76
1870	1.18	.03	.39	423	.01	.38	.81	32	68
1860	1.58	0.00	.34	423	0.00	.34	1.00	21	63
1850	2.45	.02	1.04	426	.02	1.02	1.56	41	63
1840	3.00	.01	1.52	424	.01	1.51	1.98	50	65
1830	3.79	.01	2.40	424	.03	2.37	2.26	62	59
1820	4.39	.01	3.53	425	.04	3.49	2.88	79	65
1810	4.51	.01	3.65	418	.05	3.60	2.85	79	63
1800	4.47	.02	3.21	425	.06	3.15	2.74	70	61
1780	4.40	.01	2.80	425	.04	2.76	2.56	62	58
1770	4.73	.01	2.67	418	.04	2.63	3.04	55	64
1760	3.75	.02	2.62	421	.04	2.58	3.20	68	85
1750	3.96	.02	2.70	419	.06	2.64	3.61	66	91
1740	1.64	.07	.67	427	.05	.62	.85	37	51
1720	4.45	.04	3.49	415	.14	3.35	3.39	75	76
1710	4.51	.02	2.83	416	.07	2.76	3.66	61	81
1700	4.54	.03	3.60	420	.11	3.49	4.56	76	100
1690	4.79	.02	3.79	420	.08	3.71	5.04	77	105
1680	5.00	.02	3.77	420	.06	3.71	5.26	74	105
1670	5.13	.02	3.74	422	.08	3.66	4.88	71	95
1660	5.21	.02	3.82	417	.09	3.73	4.81	71	92
1650	4.95	.02	3.51	419	.08	3.43	4.53	69	91
1640	4.30	.02	3.06	416	.06	3.00	4.09	69	95
1630	4.57	.02	2.98	418	.06	2.92	3.42	63	74
1620	4.38	.02	2.53	418	.05	2.48	3.27	56	74
1610	3.93	.01	2.13	418	.03	2.10	3.27	53	83
1600	3.97	.02	2.52	420	.04	2.48	3.30	62	83
1590	3.60	.02	2.13	417	.05	2.08	3.15	57	87
1580	3.39	.03	1.54	417	.04	1.50	3.32	44	97
1570	3.34	.03	1.74	418	.06	1.68	3.44	50	102
1560	3.62	.04	1.96	415	.07	1.89	3.29	52	90

1550	3.49	.04	1.92	418	.07	1.85	3.06	53	87
1540	2.72	.02	1.02	416	.02	1.00	2.77	36	101
1530	2.57	.05	.87	412	.04	.83	2.76	32	107
1520	2.62	.03	.74	414	.02	.72	2.97	27	113
1510	3.31	.05	1.29	413	.06	1.23	3.14	37	94
1500	3.01	.04	1.14	420	.04	1.10	3.41	36	113
1490	2.43	.04	.77	415	.03	.74	3.39	30	139
1480	2.51	.06	.99	411	.06	.93	3.56	37	141
1470	2.55	.03	1.15	417	.04	1.11	3.40	43	133
1460	2.48	.05	1.16	412	.06	1.10	3.42	44	137
1450	1.90	.06	.65	407	.04	.61	4.04	32	212
1440	1.78	.08	.40	404	.03	.37	5.24	20	294
1430	2.63	.04	1.40	417	.06	1.34	3.62	50	137
1420	2.36	.03	1.36	416	.04	1.32	4.36	55	184
1410	1.73	.04	.27	406	.01	.26	4.07	15	235
1400	1.74	.05	.77	416	.04	.73	4.55	41	261
1390	2.11	.04	1.26	416	.05	1.21	4.03	57	190
1380	1.99	.05	1.20	420	.06	1.14	3.38	57	169
1370	1.88	.04	.98	417	.04	.94	3.74	50	198
1360	1.71	.08	.78	410	.06	.72	4.70	42	274
1350	1.72	.07	.87	414	.06	.81	4.72	47	274
1340	1.62	.07	.87	417	.06	.81	3.78	50	233
1330	1.31	.02	.50	407	.01	.49	4.49	37	342
1320	1.45	.03	.68	417	.02	.66	3.91	45	269
1310	1.76	.05	.82	419	.04	.78	3.74	44	212
1300	1.44	.04	.45	406	.02	.43	4.82	29	334
1290	1.31	.05	.78	418	.04	.74	4.12	56	314
1280	1.50	.02	.43	412	.01	.42	4.87	27	324
1280	1.50	.04	.74	412	.03	.71	4.69	47	312
1270	1.51	.03	.31	413	.01	.30	4.36	19	288
1260	1.16	.04	.28	410	.01	.27	4.09	23	352
1250	1.48	.02	.42	412	.01	.41	3.63	27	245
1240	1.74	.01	.67	406	.01	.66	3.05	37	175
1230	1.81	.07	.83	410	.06	.77	3.03	42	167
1220	2.00	.06	.80	414	.05	.75	3.22	37	161
1210	2.19	.05	.99	411	.05	.94	2.92	42	133
1200	2.37	.05	1.67	418	.09	1.58	3.50	66	147
1190	2.37	.04	1.16	412	.05	1.11	2.93	46	123
1180	2.33	.04	1.36	414	.05	1.31	3.19	56	136
1170	2.20	.07	1.08	409	.08	1.00	3.01	45	136
1160	2.13	.05	1.08	416	.05	1.03	3.03	48	142
1150	2.07	.09	1.04	411	.09	.95	3.37	45	162
1140	2.02	.12	1.11	409	.13	.98	3.44	48	170
1130	1.70	.10	.81	404	.08	.73	3.29	42	193
1120	1.66	.10	.87	405	.09	.78	3.18	46	191
1110	1.67	.09	.92	412	.08	.84	3.25	50	194
1100	1.58	.11	.57	408	.06	.51	3.26	32	206
1090	1.65	.11	1.06	408	.12	.94	3.94	56	238
1080	1.80	.07	.74	410	.05	.69	3.11	38	172
1070	1.78	.08	.78	409	.06	.72	2.95	40	165
1060	1.84	.08	.98	412	.08	.90	3.37	48	183
1050	2.00	.08	1.07	410	.09	.98	3.27	48	163
1040	1.94	.08	.99	411	.08	.91	3.43	46	176
1030	1.97	.08	1.21	406	.10	1.11	3.81	56	193
1020	2.01	.13	1.03	408	.13	.90	3.65	44	181

1010	3.01	.17	4.06	417	.70	3.36	5.94	111 197
1000	1.67	.13	.60	409	.08	.52	4.19	31 250
990	.90	.33	.06	397	.02	.04	5.33	4 592
970	.39	0.00	.08	402	0.00	.08	4.33	201110
960	.42	.33	.09	396	.03	.06	6.62	141576
950	.46	.20	.20	398	.04	.16	4.84	341052
940	.76	.13	.39	403	.05	.34	4.43	44 582
930	.79	.13	.45	404	.06	.39	5.31	49 672
920	.81	.18	.55	408	.10	.45	5.87	55 724
910	.07	.21	.14	403	.03	.11	2.75	1573928

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	******	****	******	******	*****	***	***
10990F	.43	0.00	.10	417	0.00	.10	.58	23	134
10960F	.30	0.00	.04	344	0.00	.04	.60	13	200
10930F	.26	0.00	.03	361	0.00	.03	.54	11	207
10900	.31	0.00	.02	327	0.00	.02	.78	6	251
10870	.45	0.00	.10	423	0.00	.10	.79	22	175
10840	.43	0.00	.08	441	0.00	.08	.60	18	139
10810	.63	0.00	.22	438	0.00	.22	1.15	34	182
10720	.36	0.00	.06	435	0.00	.06	.69	16	191
10690	1.67	0.00	1.21	442	0.00	1.21	1.32	72	79
10660	.49	0.00	.18	429	0.00	.18	1.31	36	267
10600	2.12	.01	3.13	432	.02	3.11	1.01	146	47
10570	.68	0.00	.22	447	0.00	.22	1.11	32	163
10540	.78	0.00	.39	443	0.00	.39	1.25	50	160
10510	.82	0.00	1.07	442	0.00	1.07	.88	130	107
10480	2.05	.01	1.53	439	.01	1.52	2.08	74	101
10450	1.00	0.00	.94	443	0.00	.94	1.25	94	125
10420	.93	0.00	.50	434	0.00	.50	1.15	53	123
10390	.56	0.00	.33	435	0.00	.33	.78	58	139
10360	.43	0.00	.14	440	0.00	.14	.97	32	225
10360	.58	0.00	.57	435	0.00	.57	.94	98	162
10330	.29	0.00	.04	443	0.00	.04	.90	13	310
10300	.39	0.00	.12	433	0.00	.12	1.24	30	317
10270	.41	0.00	.15	431	0.00	.15	.91	36	221
10240	.71	0.00	.54	437	0.00	.54	.79	76	111
10180	1.49	.03	.86	439	.03	.83	.68	55	45
10150	.89	0.00	.35	434	0.00	.35	1.36	39	152
10120	.51	0.00	.32	433	0.00	.32	.87	62	170
10090	.78	.01	1.02	433	.01	1.01	1.19	129	152
10060	.60	0.00	.22	433	0.00	.22	.97	36	161
10030	.86	0.00	.61	434	0.00	.61	1.20	70	139
10000	.60	.02	.41	433	.01	.40	1.04	66	173
9970	.03	0.00	.47	443	0.00	.47	.92	15663066	
9940	1.29	0.00	.64	439	0.00	.64	1.07	49	82
9850	5.50	0.00	6.57	437	0.00	6.57	2.31	119	42
9820	.61	0.00	.38	433	0.00	.38	.97	62	159
9790	.62	0.00	.39	437	0.00	.39	.81	62	130
9760	.55	0.00	.32	435	0.00	.32	.82	58	149
9700	1.10	.06	.94	435	.06	.88	1.18	80	107
9670	.47	0.00	.29	434	0.00	.29	.75	61	159
9640	1.20	.02	1.08	440	.02	1.06	1.03	88	85
9610	.87	.02	.82	434	.02	.80	.87	91	100
9580	1.15	0.00	1.01	434	0.00	1.01	1.12	87	97
9550	.94	0.00	.75	438	0.00	.75	.82	79	87
9520	.61	0.00	.35	434	0.00	.35	.68	57	111
9490	.61	0.00	.24	438	0.00	.24	1.05	39	172
9460	5.57	.01	12.79	432	.07	12.72	2.56	228	45
9430	.53	0.00	.18	434	0.00	.18	.63	33	118
9400	.52	0.00	.25	434	0.00	.25	.83	48	159
9370	.57	0.00	.36	434	0.00	.36	.84	63	147
9340	.54	0.00	.25	433	0.00	.25	.75	46	138
9280	.46	0.00	.24	435	0.00	.24	.86	52	186

9250	.58	0.00	.50	431	0.00	.50	1.11	86	191
9190	.67	.01	.86	441	.01	.85	1.74	126	259
9150	1.20	0.00	2.31	441	0.00	2.31	1.18	192	98
9120	.49	0.00	.47	442	0.00	.47	.78	95	159
9060	1.36	.42	7.70	412	3.21	4.49	2.44	330	179
9030	.40	0.00	.24	430	0.00	.24	.82	60	205
9000	.32	0.00	.19	427	0.00	.19	.73	59	228
8970	.45	0.00	.35	430	0.00	.35	.93	77	206
8940	.55	0.00	.75	435	0.00	.75	.95	136	172
8910	1.54	.11	5.65	426	.61	5.04	2.22	327	144
8880	4.11	.02	28.59	421	.58	28.01	1.56	681	37
8790	3.58	.02	22.98	421	.38	22.60	1.57	631	43
8760	3.63	.01	22.37	422	.28	22.09	1.52	608	41
8730	3.30	.01	14.19	426	.15	14.04	1.90	425	57
8670	.88	.08	2.80	432	.23	2.57	1.33	292	151
8640	.45	0.00	.40	453	0.00	.40	1.05	88	233
8610	.90	0.00	.65	434	0.00	.65	1.63	72	181
8580	2.33	.01	9.93	424	.09	9.84	1.57	422	67
8550	2.10	.01	10.79	425	.08	10.71	1.23	510	58
8520	2.06	.01	11.36	423	.12	11.24	1.04	545	50
8490	.84	.01	1.23	431	.01	1.22	1.18	145	140
8460	.72	0.00	.50	434	0.00	.50	.97	69	134
8430	.72	.01	1.02	426	.01	1.01	.93	140	129
8310	.42	.01	.73	429	.01	.72	.79	171	188
8250	.42	0.00	.28	431	0.00	.28	1.03	66	245
8130	.56	0.00	.38	434	0.00	.38	.92	67	164
8070	.47	0.00	.23	432	0.00	.23	1.10	48	234
8010	.74	.06	.52	432	.03	.49	.81	66	109
7950	.52	0.00	.11	438	0.00	.11	1.24	21	238
7890	.73	0.00	.24	432	0.00	.24	.91	32	124
7880	.51	0.00	.11	437	0.00	.11	.76	21	149
7770	.47	0.00	.16	438	0.00	.16	.83	34	176
7710	1.08	0.00	.33	437	0.00	.33	.99	30	91
7590	.80	0.00	.34	436	0.00	.34	.87	42	108
7530	.86	.02	.54	431	.01	.53	1.01	61	117
7500	1.55	.01	.86	439	.01	.85	1.24	54	80
7440	.98	0.00	.67	436	0.00	.67	1.29	68	131
7380	1.42	0.00	.54	437	0.00	.54	.02	38	1
7380	.06	0.00	.76	444	0.00	.76	1.11	12661849	
7380	.04	0.00	.52	441	0.00	.52	1.14	13002850	
7380	1.30	0.00	.84	439	0.00	.84	1.12	64	86
7320	.04	0.00	.58	441	0.00	.58	1.44	14503600	
7230	.07	0.00	.96	442	0.00	.96	2.01	13712871	
7170	.02	0.00	.28	441	0.00	.28	1.62	13998100	
7050	.01	0.00	.22	450	0.00	.22	1.33	2200	
6990	.03	0.00	.47	498	0.00	.47	1.12	15663733	
6990	.01	0.00	.18	451	0.00	.18	1.12	1800	
6930	.01	0.00	.11	442	0.00	.11	1.55	1100	
6810	.01	0.00	.18	473	0.00	.18	1.31	1800	
6750	.07	0.00	.95	435	0.00	.95	2.42	13573457	
6690	.35	.01	4.27	430	.03	4.24	7.29	12112082	
6630	1.39	.02	1.19	438	.02	1.17	1.64	84	117
6510	1.33	.14	.91	431	.13	.78	1.81	58	136
6450	.71	0.00	.19	542	0.00	.19	2.19	26	308
6390	1.18	0.00	.77	593	0.00	.77	2.39	65	202

6330	.91	0.00	.38	593	0.00	.38	1.99	41	218
6270	4.94	.01	1.99	435	.01	1.98	6.22	40	125
6210	.31	0.00	1.36	578	0.00	1.36	1.18	438	380
6150	.25	0.00	.31	593	0.00	.31	3.13	1241	252
6090	.26	0.00	.01	484	0.00	.01	.99	3	380
6070	7.05	.20	3.77	430	.75	3.02	10.73	42	152
5910	.01	0.00	.01	0	0.00	.01	.01	100	100
5850	.16	.01	1.96	433	.01	1.95	7.41	1218	4631
5790	3.08	.02	1.41	429	.03	1.38	3.78	44	122
5730	2.27	.01	1.62	432	.02	1.60	4.05	70	178
5620	4.59	.01	1.60	429	.01	1.59	4.55	34	99
5600	3.42	0.00	.32	442	0.00	.32	5.40	9	157
5540	2.79	0.00	.39	437	0.00	.39	3.26	13	116
5420	.58	0.00	.06	434	0.00	.06	1.99	10	343
5360	2.53	0.00	.27	435	0.00	.27	2.72	10	107
5300	.65	0.00	.05	411	0.00	.05	1.73	7	266
5240	.53	0.00	.01	0	0.00	.01	.89	1	167
5180	.64	0.00	.01	0	0.00	.01	1.01	1	157
5060	.79	.17	.35	420	.06	.29	1.82	36	230
5000	.01	0.00	.02	339	0.00	.02	2.08	200	
4880	3.06	0.00	.46	431	0.00	.46	2.93	15	95
4820	1.27	0.00	.20	448	0.00	.20	1.60	15	125
4760	3.36	0.00	.51	437	0.00	.51	3.49	15	103
4700	2.72	.03	2.50	438	.07	2.43	3.95	89	145
4640	1.05	0.00	.11	440	0.00	.11	1.33	10	126
4580	9.21	.01	2.53	431	.02	2.51	9.27	27	100
4520	1.23	0.00	.11	440	0.00	.11	1.64	8	133
4460	.11	0.00	.01	0	0.00	.01	.68	9	618
4340	.33	0.00	.04	319	0.00	.04	1.66	12	503
4280	.31	0.00	.10	400	0.00	.10	1.28	32	412
4220	.30	0.00	.13	409	0.00	.13	1.18	43	393
4190	.28	0.00	.07	426	0.00	.07	1.25	25	446
4160	.22	0.00	.02	417	0.00	.02	1.13	9	513
4130	.22	0.00	.05	387	0.00	.05	1.18	22	536
4100	.23	0.00	.08	417	0.00	.08	1.16	34	504
4070	.25	0.00	.03	338	0.00	.03	1.27	12	508
4040	.31	0.00	.12	424	0.00	.12	1.07	38	345
4010	.52	0.00	.35	430	0.00	.35	.75	67	144
3980	.43	0.00	.45	430	0.00	.45	.68	104	158
3950	.42	0.00	.27	428	0.00	.27	.91	64	216
3920	.36	0.00	.21	425	0.00	.21	.73	58	202
3890	.32	0.00	.29	425	0.00	.29	.87	90	271
3860	.28	0.00	.10	423	0.00	.10	.82	35	292
3830	.15	0.00	.09	421	0.00	.09	.80	60	533
3740	.11	0.00	.02	407	0.00	.02	.55	18	499
3710	.09	0.00	.02	345	0.00	.02	.63	22	700
3590	.07	0.00	.01	0	0.00	.01	.24	14	342
3380	.02	0.00	.01	0	0.00	.01	.13	50	650
3350	.01	0.00	.01	0	0.00	.01	.09	100	900
3320	.01	0.00	.01	0	0.00	.01	.04	100	400
2900	.01	0.00	.01	0	0.00	.01	.06	100	600
2870	.02	0.00	.01	0	0.00	.01	.18	50	900
2840	.01	0.00	.01	0	0.00	.01	.07	100	699
2810	.01	0.00	.01	0	0.00	.01	.06	100	600
2780	.35	.27	1.63	425	.44	1.19	1.21	340	345

2750	.33	.24	1.44	425	.35	1.09	1.17	330	354
2720	.14	.29	.38	427	.11	.27	.29	192	207
2690	.25	0.00	.11	416	0.00	.11	.55	44	219
2660	.02	0.00	.01	0	0.00	.01	.11	50	550
2630	.04	0.00	.01	0	0.00	.01	.15	25	375
2600	.03	0.00	.01	0	0.00	.01	.07	33	233
2570	.08	0.00	.01	0	0.00	.01	.23	12	287
2540	1.03	.04	1.01	424	.04	.97	1.45	94	140

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	******	****	******	******	*****	***	***
8970F	.66	.08	.37	429	.03	.34	.60	51	90
8910F	1.05	.04	.28	428	.01	.27	.72	25	68
8850	.67	0.00	.19	430	0.00	.19	.65	28	97
8780	.36	.11	.27	417	.03	.24	.65	66	180
8720	1.41	.02	.81	425	.02	.79	.73	56	51
8660	.37	.12	.25	403	.03	.22	.87	59	235
8600	.21	0.00	.02	328	0.00	.02	.65	9	309
8540	.22	0.00	.12	424	0.00	.12	.66	54	300
8490	.68	.04	.71	427	.03	.68	.67	100	98
6890	.73	.02	1.07	433	.02	1.05	.81	143	110
6440	1.12	.02	.90	428	.02	.88	1.23	78	109
6350	4.64	.02	4.22	428	.10	4.12	2.21	88	47
5990	1.26	.06	.99	427	.06	.93	.98	73	77
5930	1.38	.04	.82	430	.03	.79	1.32	57	95
5870	.98	.01	.77	431	.01	.76	1.12	77	114
5340	1.56	.01	1.46	427	.02	1.44	1.13	92	72
5280	1.83	.01	1.96	430	.02	1.94	1.11	106	60
5220	2.06	.01	3.50	424	.04	3.46	1.24	167	60
5160	1.32	0.00	.63	427	0.00	.63	1.13	47	85
5100	1.03	0.00	.17	426	0.00	.17	1.01	16	98
5070	.90	0.00	.17	433	0.00	.17	1.01	18	112
5010	.93	0.00	.11	436	0.00	.11	.92	11	98
4980	.85	0.00	.11	403	0.00	.11	.87	12	102
4920	1.15	0.00	.24	428	0.00	.24	1.24	20	107
4890	1.32	0.00	.23	432	0.00	.23	1.27	17	96
4830	1.33	0.00	.29	428	0.00	.29	1.19	21	89
4800	6.42	.02	8.03	422	.17	7.86	4.96	122	77
4740	9.69	.01	8.79	405	.09	8.70	7.37	89	76
4710	7.48	.01	6.68	409	.04	6.64	6.76	88	90
4650	7.89	.01	31.21	404	.19	31.02	8.26	393	104
4620	.98	.04	.23	417	.01	.22	1.22	22	124
4560	.21	0.00	.03	321	0.00	.03	.37	14	176
4530	.10	0.00	.01	0	0.00	.01	.20	10	200
4500	1.28	.08	.61	416	.05	.56	1.23	43	96
4440	3.14	.24	2.22	406	.54	1.68	3.85	53	122
4440	.17	.23	2.14	408	.49	1.65	3.50	9702058	
4410	19.55	.02	17.11	406	.26	16.85	16.32	86	83
4350	1.25	.08	.25	415	.02	.23	2.05	18	164
4350	.01	.05	.21	417	.01	.20	2.03	2000	
4320	.01	0.00	.04	390	0.00	.04	.47	4004700	
4260	.29	.03	3.52	419	.10	3.42	10.34	11793565	
4230	.10	.08	1.27	416	.10	1.17	6.08	11706080	
4170	.01	0.00	.01	0	0.00	.01	.60	1006000	
4140	.01	0.00	.01	0	0.00	.01	.66	1006600	
4080	.01	0.00	.02	324	0.00	.02	.78	2007800	
4020	.01	.10	.10	421	.01	.09	.99	9009900	
3990	.01	.09	.11	361	.01	.10	.82	10008200	
3930	.01	0.00	.02	0	0.00	.02	.47	2004700	
3900	.01	0.00	.04	317	0.00	.04	.31	4003100	
3840	.01	0.00	.01	0	0.00	.01	.22	1002200	
3810	.01	0.00	.01	0	0.00	.01	.23	1002300	

3750	.02	.03	.33	423	.01	.32	.41	16002050
3690	.01	.05	.21	417	.01	.20	.30	20003000
3660	.02	0.00	.32	419	0.00	.32	.39	16001950
3630	.08	.05	.99	437	.05	.94	.68	1175 850
3570	.01	.13	.24	414	.03	.21	.37	21003700
3540	.02	.15	.26	413	.04	.22	.23	11001150
3510	.01	.14	.07	425	.01	.06	.21	6002100
3450	.01	0.00	.01	0	0.00	.01	.24	1002400
3420	.01	0.00	.01	0	0.00	.01	.12	1001200
3390	.01	.33	.03	0	.01	.02	.10	2001000
3330	.01	1.00	.01	0	.01	0.00	.12	01200
3300	.01	.89	.09	0	.08	.01	.12	1001200
3270	.01	1.00	.03	0	.03	0.00	.17	01700
3210	.01	.67	.06	0	.04	.02	.18	2001800
3180	.01	1.00	.10	0	.10	0.00	.21	02100
3150	.01	0.00	.01	0	0.00	.01	.03	100 300
3090	.08	.04	.99	435	.04	.95	.72	1187 900
3060	.01	0.00	.01	0	0.00	.01	.08	100 800
3030	.02	.56	.34	391	.19	.15	2.31	750
2970	.04	.31	.58	416	.18	.40	2.11	10005275
2940	.02	.32	.37	381	.12	.25	1.66	12508300
2910	.01	.26	.19	392	.05	.14	1.83	1399
2850	.05	.14	.72	412	.10	.62	1.46	12402920
2820	.01	.67	.03	390	.02	.01	.48	1004800
2790	.05	.56	.64	398	.36	.28	.61	5601220
2730	.01	0.00	.01	0	0.00	.01	.09	100 900
2700	.02	.73	.33	0	.24	.09	.66	4503300
2670	.01	.50	.10	310	.05	.05	.78	5007800
2580	.01	.57	.07	0	.04	.03	.98	3009800
2550	.01	0.00	.01	0	0.00	.01	.01	100 100

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	******	****	******	******	*****	***	***
4190M	.01	0.00	.01	0	0.00	.01	.01	100	100
4180M	.01	0.00	.01	0	0.00	.01	.01	100	100
4170	.03	.27	.26	434	.07	.19	.80	633	2666
4160	.01	.29	.07	401	.02	.05	.67	500	6700
4150	.06	.28	.60	433	.17	.43	.83	716	1383
4140	.65	.57	7.60	413	4.30	3.30	.87	507	133
4130	.12	.05	.92	432	.05	.87	.72	724	599
4120	.03	.27	.22	455	.06	.16	.66	533	2200
4110	.04	.26	.31	443	.08	.23	.64	575	1600
4100	.06	.22	.54	438	.12	.42	.46	699	766
4090	.03	.29	.28	438	.08	.20	.47	666	1566
4080	.02	.33	.21	438	.07	.14	.84	699	4199
4070	.04	.28	.36	432	.10	.26	.47	650	1175
4060	.08	.34	.93	436	.32	.61	.45	762	562
4040	.59	.30	.43	430	.13	.30	.77	50	130
4030	.62	.26	.68	431	.18	.50	.72	80	116
4020	.72	.32	1.13	432	.36	.77	.84	106	116
4010	.65	.37	1.29	431	.48	.81	.74	124	113
4000	1.52	.19	3.80	431	.72	3.08	.96	202	63
4000	.01	0.00	.01	0	0.00	.01	.03	100	299
3990	1.73	.29	4.91	430	1.44	3.47	.91	200	52
3980	1.26	.28	2.71	435	.76	1.95	1.31	154	103
3970	1.43	.23	3.33	435	.78	2.55	1.10	178	76
3960	1.38	.23	3.18	435	.73	2.45	1.19	177	86
3950	1.61	.26	5.12	435	1.34	3.78	1.09	234	67
3940	1.99	.22	6.50	434	1.46	5.04	1.19	253	59
3930	2.39	.24	7.88	439	1.90	5.98	1.12	250	46
3920	2.45	.24	6.65	438	1.62	5.03	1.24	205	50
3910	2.38	.18	8.09	437	1.43	6.66	.91	279	38
3900	2.69	.15	11.54	438	1.70	9.84	1.10	365	40
3890	3.22	.14	13.05	439	1.84	11.21	.98	348	30
3880	3.89	.14	17.40	437	2.47	14.93	.95	383	24
3870	3.69	.11	16.92	438	1.87	15.05	.87	407	23
3860	3.31	.09	16.08	437	1.38	14.70	.90	444	27
3850	2.66	.09	12.55	437	1.10	11.45	.66	430	24
3840	2.63	.13	10.85	437	1.40	9.45	1.05	359	39
3830	1.12	.11	13.42	437	1.44	11.98	1.00	1069	89
3820	2.99	.11	14.61	435	1.58	13.03	.87	435	29
3810	.70	.24	1.42	437	.34	1.08	.64	154	91
3800	3.04	.11	12.87	435	1.43	11.44	.73	376	24
3780	.75	.27	1.08	435	.29	.79	.41	105	54
3770	.53	.27	.62	429	.17	.45	.42	84	79
3760	1.01	.19	2.74	433	.52	2.22	.67	219	66
3750	.33	.27	.26	442	.07	.19	.72	57	218
3740	.38	.31	.32	434	.10	.22	1.02	57	268
3730	.03	.20	.35	423	.07	.28	1.11	933	3700
3720	.35	.23	.22	435	.05	.17	1.13	48	322
3710	.77	.17	1.46	433	.25	1.21	.88	157	114
3700	1.50	.12	6.70	430	.79	5.91	.65	394	43
3690	1.63	.19	4.96	432	.92	4.04	.85	247	52
3680	.54	.48	2.02	433	.96	1.06	.92	196	170

3670	1.00	.21	2.68	434	.57	2.11	.59	210	58
3660	1.38	.20	4.67	435	.92	3.75	.62	271	44
3650	.88	.20	1.94	435	.38	1.56	.62	177	70
3640	.80	.13	1.52	434	.20	1.32	.82	165	102
3630	.38	.34	.38	435	.13	.25	.80	65	210
3620	.52	.19	.62	435	.12	.50	1.12	96	215
3610	2.61	.13	11.83	431	1.55	10.28	1.16	393	44
3600	3.07	.10	16.24	431	1.62	14.62	.94	476	30
3590	.64	.40	1.34	433	.53	.81	.72	126	112
3580	.72	.44	2.11	433	.93	1.18	.89	163	123
3570	1.12	.12	4.51	429	.54	3.97	1.09	354	97
3560	4.83	.11	30.91	432	3.27	27.64	1.10	572	22
3550	3.63	.10	24.95	433	2.58	22.37	1.05	616	28
3540	1.96	.11	10.48	429	1.17	9.31	.77	475	39
3530	3.62	.09	19.88	428	1.84	18.04	.87	498	24
3520	.92	.15	.93	435	.14	.79	1.82	85	197
3510	.88	.14	1.11	436	.15	.96	1.62	109	184
3500	1.07	.09	2.24	437	.21	2.03	1.46	189	136
3490	1.71	.09	5.60	429	.52	5.08	1.20	297	70
3480	2.56	.09	13.15	430	1.20	11.95	1.11	466	43
3470	3.37	.10	24.69	428	2.41	22.28	1.15	661	34
3460	2.82	.10	15.36	430	1.48	13.88	1.07	492	37
3450	2.89	.10	16.62	430	1.61	15.01	1.00	519	34
3440	3.97	.10	27.34	429	2.87	24.47	.94	616	23
3430	2.39	.10	12.67	429	1.21	11.46	.62	479	25
3420	2.31	.09	11.76	434	1.06	10.70	.73	463	31
3410	2.53	.08	12.48	435	1.04	11.44	.93	452	36
3400	2.67	.07	16.28	431	1.19	15.09	1.14	565	42
3390	4.82	.08	34.31	437	2.69	31.62	.86	656	17
3380	2.35	.07	28.34	431	1.90	26.44	.82	1125	34
3370	1.50	.08	7.68	432	.65	7.03	.89	468	59
3360	2.65	.09	14.67	434	1.26	13.41	.90	506	33
3350	3.10	.10	17.91	431	1.75	16.16	.91	521	29
3340	2.12	.11	9.78	433	1.04	8.74	1.12	412	52
3330	2.02	.08	8.75	433	.71	8.04	.99	398	49
3320	2.39	.08	12.46	434	.97	11.49	.95	480	39
3310	2.32	.08	11.02	431	.91	10.11	1.21	435	52
3300	3.39	.07	18.92	428	1.41	17.51	1.13	516	33
3290	3.86	.07	23.41	425	1.70	21.71	1.05	562	27
3280	4.84	.06	32.44	427	2.07	30.37	1.27	627	26
3270	8.22	.06	57.75	425	3.56	54.19	1.52	659	18
3260	1.60	.12	8.58	430	1.00	7.58	.75	473	46
3250	2.28	.10	10.33	421	1.07	9.26	.75	406	32
3240	.82	.16	.70	430	.11	.59	1.28	71	156
3230	.90	.10	1.15	430	.11	1.04	.84	115	93
3220	1.57	.07	5.67	428	.42	5.25	.69	334	43
3210	.59	.17	.40	426	.07	.33	.93	55	157
3200	.50	.17	.48	431	.08	.40	.68	80	136
3190	.76	.17	.82	431	.14	.68	1.27	89	167
3180	.83	.11	1.52	433	.16	1.36	1.08	163	130
3170	1.20	.10	2.18	432	.22	1.96	.70	163	58
3160	1.32	.10	2.89	431	.29	2.60	.95	196	71
3150	2.68	.09	13.92	422	1.25	12.67	.97	472	36
3140	.84	.11	.74	433	.08	.66	1.12	78	133
3130	1.01	.07	1.51	435	.11	1.40	1.18	138	116

3120	1.21	.08	2.20	431	.17	2.03	1.26	167	104
3110	1.42	.07	3.41	428	.25	3.16	1.12	222	78
3100	1.48	.07	4.78	424	.34	4.44	1.02	300	68
3090	2.30	.06	12.06	419	.72	11.34	1.16	493	50
3080	3.97	.06	25.01	419	1.45	23.56	.86	593	21
3070	1.14	.10	1.16	430	.12	1.04	1.65	91	144
3060	.67	.18	.56	429	.10	.46	1.49	68	222
3050	.88	.11	1.91	425	.21	1.70	.94	193	106
3040	.81	.13	.98	429	.13	.85	1.02	104	125
3030	1.36	.06	3.01	426	.18	2.83	.96	208	70
3020	.70	.26	.42	436	.11	.31	1.71	44	244
3010	.72	.10	1.24	426	.13	1.11	.95	154	131
3000	1.61	.06	.50	435	.03	.47	.65	29	40
2990	1.31	.09	2.34	426	.21	2.13	.80	162	61
2980	.56	.11	1.24	425	.14	1.10	.49	196	87
2970	2.38	.10	6.20	424	.64	5.56	1.78	233	74
2960	.84	.09	1.84	426	.17	1.67	1.33	198	158
2950	3.32	.06	20.52	421	1.20	19.32	1.26	581	37
2940	2.24	.06	13.42	419	.79	12.63	.84	563	37
2930	1.36	.07	4.80	427	.34	4.46	1.11	327	81
2920	1.42	.06	5.41	424	.30	5.11	.83	359	58
2910	1.40	.08	4.35	429	.34	4.01	1.21	286	86
2900	1.62	.05	7.26	425	.34	6.92	1.39	427	85
2890	3.29	.05	17.16	421	.90	16.26	1.35	494	41
2880	2.45	.05	9.82	421	.45	9.37	1.24	382	50
2870	.69	.09	.68	424	.06	.62	.78	89	113
2860	1.39	.06	5.43	420	.35	5.08	.91	365	65
2850	1.78	.06	4.98	427	.29	4.69	1.21	263	67
2840	1.70	.06	3.11	431	.20	2.91	.90	171	52
2830	1.62	.07	2.91	432	.21	2.70	1.06	166	65
2820	1.16	.16	1.44	436	.23	1.21	1.15	104	99
2810	1.22	.25	.97	433	.24	.73	.80	59	65
2810	.01	0.00	.01	0	0.00	.01	.01	100	100
2800	.71	.17	.23	430	.04	.19	1.89	26	266
2790	.51	.35	.17	425	.06	.11	1.25	21	245
2780	68.90	.43	.14	424	.06	.08	2.84	0	4
2770	.53	.43	.07	424	.03	.04	3.81	7	718
2760	.74	.35	.63	426	.22	.41	6.20	55	837
2750	.52	.38	.08	428	.03	.05	2.68	9	515
2740	.59	1.00	.01	0	.01	0.00	2.00	0	338
2730	.58	.57	.07	427	.04	.03	2.58	5	444
2720	.54	.50	.04	426	.02	.02	1.49	3	275
2710	.64	.36	.42	426	.15	.27	1.84	42	287
2700	.86	.14	3.15	440	.44	2.71	1.06	315	123
2690	.69	.30	.10	426	.03	.07	3.05	10	442
2680	1.20	.04	.47	418	.02	.45	2.18	37	181
2670	1.10	.06	.35	426	.02	.33	2.30	30	209
2660	1.09	.04	.26	425	.01	.25	2.39	22	219
2650	.92	.13	.16	421	.02	.14	1.72	15	186
2640	.73	1.00	.02	0	.02	0.00	1.21	0	165
2630	.34	0.00	.01	0	0.00	.01	1.28	2	376
2620	.36	0.00	.01	0	0.00	.01	1.27	2	352
2610	.32	0.00	.01	0	0.00	.01	1.38	3	431
2600	.44	1.00	.01	0	.01	0.00	1.69	0	384
2590	.44	0.00	.01	0	0.00	.01	1.35	2	306

2580	.45	1.00	.01	0	.01	0.00	1.40	0	311
2570	.51	.17	.06	419	.01	.05	1.55	9	303
2560	.52	0.00	.02	376	0.00	.02	1.46	3	280
2550	.49	0.00	.01	0	0.00	.01	1.23	2	251
2540	.29	0.00	.01	0	0.00	.01	1.68	3	579
2530	.31	0.00	.01	0	0.00	.01	1.59	3	512
2520	.47	0.00	.01	0	0.00	.01	1.51	2	321
2510	.85	.05	.21	423	.01	.20	1.56	23	183
2500	1.58	.03	.89	425	.03	.86	1.45	54	91
2490	1.94	.05	1.54	427	.08	1.46	1.75	75	90
2480	1.94	.04	1.63	431	.06	1.57	1.84	80	94
2470	2.00	.03	1.47	430	.05	1.42	1.80	70	90
2460	2.10	.03	1.46	429	.04	1.42	1.63	67	77
2450	2.13	.04	1.57	429	.06	1.51	1.77	70	83
2440	2.14	.03	2.20	429	.07	2.13	1.59	99	74
2430	1.97	.02	1.87	430	.04	1.83	1.41	92	71
2420	2.18	.02	2.16	429	.05	2.11	1.40	96	64
2410	2.31	.03	2.07	430	.06	2.01	1.60	87	69
2400	2.25	.03	1.74	428	.05	1.69	1.93	75	85
2390	2.39	.04	2.25	430	.09	2.16	1.68	90	70
2380	2.38	.03	1.91	429	.06	1.85	2.06	77	86
2370	2.23	.04	1.48	428	.06	1.42	2.41	63	108
2360	2.61	.03	2.21	430	.07	2.14	2.80	81	107
2350	2.55	.03	2.09	429	.07	2.02	2.82	79	110
2340	2.78	.05	2.12	430	.11	2.01	2.59	72	93
2330	2.67	.03	1.77	428	.06	1.71	2.92	64	109
2320	2.97	.04	1.88	428	.07	1.81	2.82	60	94
2310	2.85	.05	1.55	426	.08	1.47	2.98	51	104
2300	2.79	.05	2.19	429	.10	2.09	2.64	74	94
2290	2.32	.05	1.58	428	.08	1.50	2.66	64	114
2280	3.00	.05	1.99	423	.10	1.89	2.66	63	88
2270	2.93	.07	2.14	425	.14	2.00	2.60	68	88
2260	3.14	.12	3.80	428	.44	3.36	4.19	107	133
2250	2.43	.06	2.24	427	.13	2.11	2.80	86	115
2240	2.55	.07	2.65	428	.19	2.46	3.53	96	138
2230	4.41	.34	7.62	420	2.57	5.05	7.47	114	169
2220	2.62	.13	2.51	424	.32	2.19	4.09	83	156
2210	2.00	.06	1.43	427	.08	1.35	2.68	67	134
2200	2.08	.10	1.87	426	.18	1.69	3.67	81	176
2190	2.58	.14	3.18	425	.43	2.75	4.57	106	177
2170	10.28	.65	39.45	345	25.78	13.67	22.28	132	216
2150	1.80	.03	.86	425	.03	.83	2.48	46	137
2140	2.23	.05	1.18	426	.06	1.12	2.40	50	107
2130	2.15	.03	1.15	425	.04	1.11	2.30	51	106
2120	1.88	.04	1.03	423	.04	.99	2.14	52	113
2110	1.79	.04	1.04	419	.04	1.00	2.48	55	138
2100	1.64	.03	.95	425	.03	.92	2.65	56	161
2050	1.64	.05	.61	424	.03	.58	3.10	35	189
2030	1.58	.05	.77	426	.04	.73	3.31	46	209
2010	1.55	.04	.80	427	.03	.77	2.91	49	187
2000	1.52	.02	.84	426	.02	.82	2.55	53	167
1990	1.40	.06	.62	424	.04	.58	2.96	41	211
1980	1.52	.03	.64	424	.02	.62	2.87	40	188
1970	1.47	.03	.68	425	.02	.66	3.32	44	225
1960	1.46	.05	.75	424	.04	.71	3.28	48	224

1950	1.43	.05	.58	423	.03	.55	2.90	38	202
1940	1.50	.05	.62	425	.03	.59	2.90	39	193
1930	1.57	.06	.83	426	.05	.78	3.18	49	202
1920	.05	.06	.66	424	.04	.62	2.66	12405	320
1910	1.55	.09	.89	426	.08	.81	3.25	52	209
1900	1.48	.07	.99	427	.07	.92	2.95	62	199
1890	1.47	.04	.81	427	.03	.78	2.70	53	183
1880	1.43	.05	.80	426	.04	.76	2.68	53	187
1870	1.48	.04	.91	426	.04	.87	2.38	58	160

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	******	****	******	******	*****	***	***
2700M	.57	.11	.38	418	.04	.34	.79	59	138
2700M	.42	.08	.13	425	.01	.12	.41	28	97
2680	.34	.07	.15	427	.01	.14	.63	41	185
2680	.22	.17	.06	427	.01	.05	.38	22	172
2670	.23	0.00	.04	421	0.00	.04	.38	17	165
2660	.02	.21	.29	413	.06	.23	1.44		199
2660	.36	.09	.11	424	.01	.10	.50	27	138
2650	.76	.06	.33	427	.02	.31	.32	40	42
2640	.27	0.00	.04	417	0.00	.04	.45	14	166
2630	.24	0.00	.05	422	0.00	.05	.33	20	137
2620	.92	.10	.31	423	.03	.28	.62	30	67
2610	.60	.08	.13	421	.01	.12	.58	20	96
2600	.42	.08	.12	419	.01	.11	.50	26	119
2590	.39	0.00	.09	419	0.00	.09	.47	23	120
2580	.86	.21	.56	419	.12	.44	1.07	51	124
2570	1.74	.05	1.87	421	.10	1.77	.38	101	21
2570	1.75	.07	3.65	418	.24	3.41	1.87	194	106
2560	.52	.08	.50	422	.04	.46	2.49	88	478
2560	.60	0.00	.14	425	0.00	.14	.39	23	65
2550	.89	.07	.44	426	.03	.41	.56	46	62
2550	.78	.11	.90	423	.10	.80	3.74	102	479
2540	.57	.14	.59	420	.08	.51	2.32	89	407
2540	.58	.08	.26	426	.02	.24	.41	41	70
2530	.55	.09	.23	415	.02	.21	.47	38	85
2530	.63	.12	.42	438	.05	.37	1.57	58	249
2520	.53	.05	.20	438	.01	.19	2.26	35	426
2520	.44	.10	.10	420	.01	.09	.60	20	136
2510	.48	.05	.21	461	.01	.20	.89	41	185
2510	.56	.13	.39	443	.05	.34	3.56	60	635
2500	.36	.17	.06	430	.01	.05	2.15	13	597
2500	.24	0.00	.02	415	0.00	.02	.68	8	283
2490	.27	0.00	.06	414	0.00	.06	.87	22	322
2480	.59	.11	.19	411	.02	.17	1.14	28	193
2470	.68	.17	.30	410	.05	.25	2.40	36	352
2460	.46	.09	.11	412	.01	.10	1.03	21	223
2450	.12	.33	.03	332	.01	.02	.70	16	583
2440	.16	.20	.05	403	.01	.04	.75	25	468
2440	.09	0.00	.03	397	0.00	.03	.57	33	633
2430	.15	.17	.06	411	.01	.05	.66	33	440
2410	.35	.08	.12	412	.01	.11	.70	31	200
2400	.19	.29	.07	405	.02	.05	.56	26	294
2360	1.09	.08	1.09	435	.09	1.00	.62	91	56
2350	.59	.09	.34	412	.03	.31	.57	52	96
2340	.29	.10	.10	414	.01	.09	.62	31	213
2330	.59	.12	.25	414	.03	.22	.61	37	103
2320	1.64	.04	1.15	419	.05	1.10	1.00	67	60
2310	.42	.19	.16	408	.03	.13	1.05	30	250
2300	.34	.11	.09	411	.01	.08	.97	23	285
2290	.65	.13	.23	414	.03	.20	.86	30	132
2280	.65	.53	.47	406	.25	.22	.74	33	113
2270	.62	.15	.27	411	.04	.23	.87	37	140

2260	.54	.17	.18	411	.03	.15	.93	27	172
2250	.51	.15	.20	411	.03	.17	.86	33	168
2240	.68	.17	.23	412	.04	.19	.80	27	117
2230	.16	.50	.02	410	.01	.01	.64	6	400
2220	.01	0.00	.01	0	0.00	.01	.01	100	100
2210	.01	0.00	.01	0	0.00	.01	.01	100	100
2200	.65	.09	.22	413	.02	.20	.80	30	123
2190	.47	.20	.05	410	.01	.04	.94	8	200
2180	.79	.11	.18	415	.02	.16	.84	20	106
2170	.93	.09	.34	419	.03	.31	.81	33	87
2160	1.59	.06	.85	436	.05	.80	.49	50	30
2150	.59	.14	.14	414	.02	.12	.68	20	115
2140	1.40	.11	.85	410	.09	.76	1.69	54	120
2130	1.13	.09	.58	415	.05	.53	1.00	46	88
2120	1.85	.04	3.06	408	.12	2.94	.90	158	48
2110	.34	.17	.12	411	.02	.10	.75	29	220
2100	.22	0.00	.04	412	0.00	.04	.85	18	386
2090	.30	.20	.10	420	.02	.08	1.06	26	353
2080	.20	.33	.06	384	.02	.04	.86	20	429
2070	.74	.21	.24	410	.05	.19	1.61	25	217
2060	1.59	.05	.79	437	.04	.75	.53	47	33
2050	1.11	.08	.52	415	.04	.48	1.45	43	130
2040	1.83	.05	1.38	416	.07	1.31	1.81	71	98
2030	.81	.15	.55	414	.08	.47	1.45	58	179
2020	.62	.10	1.14	420	.11	1.03	1.13	166	182
2010	.94	.07	.41	414	.03	.38	1.65	40	175
1999	.41	.07	.14	412	.01	.13	1.26	31	307
1980	.25	.07	.14	408	.01	.13	1.47	52	587
1960	.36	.08	.49	417	.04	.45	1.82	125	505
1940	.67	.09	.94	420	.08	.86	1.54	128	229
1930	1.41	.06	6.16	413	.34	5.82	1.76	412	124
1930	1.65	.05	.86	439	.04	.82	.48	49	29
1920	.48	.10	.72	419	.07	.65	1.31	135	272
1910	.76	.09	1.75	423	.15	1.60	.86	210	113
1890	1.97	.05	9.55	410	.48	9.07	1.61	460	81
1880	1.58	.06	5.93	416	.35	5.58	1.69	353	106
1870	3.12	.06	14.12	417	.78	13.34	2.52	427	80
1860	3.28	.04	17.24	413	.68	16.56	2.44	504	74
1840	2.77	.04	12.86	411	.54	12.32	2.51	444	90
1840	1.21	.06	4.58	414	.27	4.31	1.03	356	85
1830	1.12	.05	4.90	414	.25	4.65	.82	415	73
1830	.56	.08	.71	421	.06	.65	1.73	116	308
1820	1.53	.05	6.64	412	.33	6.31	1.67	412	109
1820	.87	.06	2.11	418	.13	1.98	.67	227	77
1810	.44	.09	1.01	419	.09	.92	.64	209	145
1810	.84	.06	2.80	422	.17	2.63	1.39	313	165
1810	.10	.10	1.31	417	.13	1.18	1.13	11801	130
1790	.14	.09	1.72	419	.16	1.56	.81	1114	578
1790	.37	.08	1.35	416	.11	1.24	.50	335	135
1770	.46	.08	1.22	417	.10	1.12	.58	243	126
1770	.14	.09	1.73	419	.15	1.58	1.01	1128	721
1760	.02	.09	.34	417	.03	.31	1.15	15495	749
1760	.33	.06	.16	411	.01	.15	.68	45	206
1740	.10	.22	.09	402	.02	.07	.60	70	600
1740	.29	.24	.17	410	.04	.13	.94	44	324

1730	.35	.21	.19	414	.04	.15	.96	42	274
1730	.12	.13	.08	409	.01	.07	.58	58	483
1720	.11	0.00	.04	410	0.00	.04	.55	36	499
1720	.26	.15	.13	409	.02	.11	.83	42	319
1710	1.31	.10	1.10	411	.11	.99	1.15	75	87
1710	1.12	.08	.72	414	.06	.66	.67	58	59
1700	.26	.15	.13	410	.02	.11	.68	42	261
1700	.42	.19	.27	413	.05	.22	1.08	52	257
1690	.24	.25	.08	402	.02	.06	.74	25	308
1690	.06	0.00	.01	349	0.00	.01	.50	16	833
1680	.06	0.00	.02	404	0.00	.02	.50	33	833
1680	.29	.17	.12	410	.02	.10	.72	34	248
1670	.47	.08	.36	416	.03	.33	.87	70	185
1670	.23	.10	.20	415	.02	.18	.61	78	265
1660	.14	.25	.16	407	.04	.12	.86	85	614
1660	.51	.24	.34	414	.08	.26	1.28	50	250
1650	1.03	.07	1.69	418	.11	1.58	1.12	153	108
1650	1.21	.06	2.60	419	.15	2.45	1.97	202	162
1640	7.84	.04	43.91	408	1.93	41.98	1.80	535	22
1640	8.80	.05	56.76	407	2.57	54.19	3.68	615	41
1630	1.09	.06	1.39	426	.09	1.30	2.05	119	188
1630	.95	.08	.85	422	.07	.78	.76	82	80
1620	.67	.04	.27	417	.01	.26	.93	38	138
1620	.82	.07	.57	423	.04	.53	2.54	64	309
1610	.83	.09	.67	423	.06	.61	2.24	73	269
1610	.69	.05	.37	423	.02	.35	.78	50	113
1600	.59	.07	.42	428	.03	.39	.96	66	162
1600	.72	.09	.56	422	.05	.51	2.64	70	366
1590	.98	.13	.76	417	.10	.66	2.72	67	277
1580	1.16	.13	.62	416	.08	.54	2.70	46	232
1570	1.24	.09	.66	427	.06	.60	2.50	48	201
1560	1.20	.06	.81	420	.05	.76	2.10	63	175
1550	.96	.06	.67	487	.04	.63	1.40	65	145
1540	.99	.09	.66	429	.06	.60	2.64	60	266
1530	.89	.11	.36	417	.04	.32	3.94	35	442
1520	.47	.39	.23	410	.09	.14	2.21	29	470
1510	.40	.39	.23	401	.09	.14	1.87	35	467
1500	.30	.33	.15	409	.05	.10	1.16	33	386
1490	1.00	.17	.40	414	.07	.33	2.13	33	212
1480	.12	1.00	.05	0	.05	0.00	.75	0	625
1470	.14	.67	.09	324	.06	.03	.89	21	635
1460	.30	.44	.18	397	.08	.10	1.62	33	540
1450	.46	.50	.26	402	.13	.13	2.62	28	569
1440	.53	.37	.19	403	.07	.12	2.06	22	388
1430	.57	.25	.24	472	.06	.18	2.68	31	470
1420	1.12	.43	.56	417	.24	.32	2.52	28	225
1410	3.47	.04	1.67	404	.07	1.60	2.80	46	80
1400	.12	1.00	.04	0	.04	0.00	.93	0	775
1390	.49	.40	.20	411	.08	.12	2.09	24	426
1380	.92	.32	.28	424	.09	.19	3.89	20	422
1370	1.51	.43	.82	429	.35	.47	3.15	31	208
1360	2.28	.57	1.00	417	.57	.43	6.77	18	296
1350	3.58	.23	1.10	408	.25	.85	7.26	23	202
1340	9.00	.09	4.23	416	.40	3.83	12.39	42	137
1330	.70	.75	1.32	413	.99	.33	4.24	47	605

1320	1.59	.64	1.16	412	.74	.42	4.01	26	252
1300	.72	.07	.14	411	.01	.13	1.19	18	165
1290	.22	0.00	.01	0	0.00	.01	.50	4	227
1280	.42	0.00	.07	416	0.00	.07	1.19	16	283
1270	.29	0.00	.02	367	0.00	.02	.61	6	210
1260	.62	.05	.21	410	.01	.20	1.57	32	253
1250	.95	.04	.26	488	.01	.25	1.60	26	168
1240	1.72	.10	.29	417	.03	.26	2.09	15	121
1230	2.30	.08	.71	419	.06	.65	2.92	28	126
1220	.51	.25	.08	410	.02	.06	1.75	11	343
1210	1.12	.06	1.48	423	.09	1.39	2.42	124	216
1190	.51	.10	.30	413	.03	.27	2.17	52	425
1180	.67	.06	.34	429	.02	.32	2.17	47	323
1170	.52	.09	.23	414	.02	.21	2.18	40	419
1160	.63	.06	.34	467	.02	.32	2.44	50	387
1150	.54	.07	.28	445	.02	.26	1.96	48	362
1140	.89	.06	.33	419	.02	.31	2.56	34	287
1130	1.04	.06	.52	432	.03	.49	2.41	47	231
1120	.75	.02	.42	435	.01	.41	1.50	54	200
1110	.25	0.00	.24	443	0.00	.24	1.32	95	528
1100	.01	0.00	.01	0	0.00	.01	.76	1007	600
1050	.01	0.00	.01	0	0.00	.01	.71	1007	099
1040	.01	0.00	.01	0	0.00	.01	.59	1005	899
1030	.01	0.00	.01	424	0.00	.01	.54	1005	400
1020	.06	0.00	.01	0	0.00	.01	.91	161	516
1010	.05	0.00	.01	0	0.00	.01	.68	201	360
1000	.54	.03	.31	447	.01	.30	3.30	55	611
990	.48	.04	.28	436	.01	.27	2.64	56	550
980	.57	.02	.55	436	.01	.54	4.36	94	764
970	1.13	.03	.70	424	.02	.68	4.11	60	363
960	1.03	.04	.73	422	.03	.70	4.72	67	458
950	.53	.05	.41	420	.02	.39	2.26	73	426
940	.09	0.00	.07	393	0.00	.07	1.35	771	500
930	.04	0.00	.01	388	0.00	.01	.75	251	875
920	.11	0.00	.01	328	0.00	.01	1.28	91	163
910	.74	.09	.22	426	.02	.20	4.30	27	581
900	1.15	.05	.61	435	.03	.58	4.72	50	410
890	1.08	.03	.59	434	.02	.57	4.41	52	408
880	.91	.02	.54	431	.01	.53	4.55	58	499
870	.99	.03	.71	423	.02	.69	3.37	69	340
860	1.02	.07	.61	423	.04	.57	2.97	55	291
850	1.06	.06	.54	426	.03	.51	3.23	48	304
840	1.04	.05	.59	432	.03	.56	3.50	53	336
830	1.07	.02	.56	434	.01	.55	3.38	51	315
820	1.06	.05	.55	428	.03	.52	3.09	49	291
810	1.00	.05	.55	430	.03	.52	3.04	52	304
810	2.60	.06	1.73	417	.11	1.62	3.14	62	120
800	1.03	.07	.75	422	.05	.70	3.24	67	314
790	1.45	.06	1.89	422	.12	1.77	3.01	122	207
780	1.53	.07	2.15	417	.15	2.00	3.11	130	203
770	1.26	.08	1.93	421	.15	1.78	2.89	141	229
760	1.43	.07	2.18	420	.15	2.03	2.66	141	186
750	1.51	.08	2.37	416	.19	2.18	2.45	144	162
740	1.59	.09	2.80	413	.24	2.56	2.10	161	132
730	1.82	.08	3.42	418	.28	3.14	2.06	172	113

720	1.91	.08	5.07	416	.42	4.65	2.07	243	108
710	1.95	.08	4.13	417	.33	3.80	2.37	194	121
700	1.78	.09	2.86	416	.25	2.61	2.52	146	141
690	.28	0.00	.10	410	0.00	.10	1.09	35	389
680	1.41	.07	.91	415	.06	.85	2.92	60	207
670	2.12	.06	1.32	409	.08	1.24	3.24	58	152
660	1.90	.07	1.50	404	.11	1.39	2.87	73	151
650	2.67	.06	2.51	417	.16	2.35	4.12	88	154
640	2.08	.11	1.37	413	.15	1.22	2.98	58	143
630	2.12	.11	1.23	413	.13	1.10	3.73	51	175
620	1.74	.12	1.13	402	.13	1.00	2.72	57	156
600	3.12	.07	1.94	416	.13	1.81	3.49	58	111
590	3.16	.09	1.53	418	.14	1.39	3.69	43	116
580	3.11	.08	1.59	414	.12	1.47	3.76	47	120
570	2.83	.07	1.52	414	.11	1.41	3.40	49	120
560	1.85	.07	.71	405	.05	.66	3.59	35	194
550	1.44	.08	.92	461	.07	.85	2.83	59	196
540	1.33	.12	.72	402	.09	.63	2.90	47	218
530	1.24	.09	.66	405	.06	.60	3.25	48	262
520	.94	.24	.29	393	.07	.22	6.58	23	700
510	.92	.32	.31	392	.10	.21	5.97	22	648
500	.68	.31	.36	392	.11	.25	6.12	36	900
490	.59	.23	.13	403	.03	.10	6.33	161	072

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	******	****	******	******	*****	***	***
3970M	.39	.25	.28	433	.07	.21	.29	53	74
3960	.40	.13	.15	432	.02	.13	.35	32	87
3950	.38	.07	.14	435	.01	.13	.28	34	73
3940	.79	.15	.40	429	.06	.34	.53	43	67
3930	.60	.13	.38	428	.05	.33	.38	55	63
3920	.49	.15	.20	432	.03	.17	.39	34	79
3910	.46	.22	.32	428	.07	.25	.56	54	121
3900	1.59	.07	2.67	423	.19	2.48	.43	155	27
3890	1.19	.30	4.40	426	1.33	3.07	.61	257	51
3880	.64	.35	.69	429	.24	.45	.66	70	103
3870	.61	.25	.64	429	.16	.48	.48	78	78
3860	.72	.14	.70	429	.10	.60	.52	83	72
3850	.78	.09	.47	432	.04	.43	.36	55	46
3840	2.45	.04	5.55	414	.20	5.35	.39	218	15
3830	.67	.12	.26	433	.03	.23	.54	34	80
3820	.57	.11	.28	430	.03	.25	.35	43	61
3810	.60	.14	.28	434	.04	.24	.44	40	73
3800	.64	.12	.34	428	.04	.30	.40	46	62
3790	1.01	.11	.70	432	.08	.62	.43	61	42
3780	.64	.15	.27	431	.04	.23	.42	35	65
3770	.58	.17	.29	432	.05	.24	.36	41	62
3760	.51	.14	.21	433	.03	.18	.32	35	62
3750	.69	.10	.41	432	.04	.37	.37	53	53
3740	.71	.13	.46	433	.06	.40	.31	56	43
3730	.65	.17	.40	433	.07	.33	.35	50	53
3720	.54	.12	.25	432	.03	.22	.33	40	61
3710	.50	.19	.21	433	.04	.17	.40	34	80
3700	.78	.12	.60	428	.07	.53	.37	67	47
3690	.59	.15	.41	432	.06	.35	.37	59	62
3680	.49	.13	.32	432	.04	.28	.33	57	67
3670	.40	.12	.17	433	.02	.15	.30	37	75
3660	.47	.13	.23	431	.03	.20	.37	42	78
3650	.40	.09	.22	433	.02	.20	.30	50	75
3640	.72	.05	.66	429	.03	.63	.34	87	47
3630	.66	.05	.43	433	.02	.41	.38	62	57
3620	.78	.06	.53	431	.03	.50	.41	64	52
3610	.87	.05	.86	430	.04	.82	.37	94	42
3600	.99	.25	2.26	420	.57	1.69	.51	170	51
3590	.85	.08	.77	429	.06	.71	.51	83	60
3580	.87	.08	.83	429	.07	.76	.40	87	45
3570	.54	.06	.31	433	.02	.29	.38	53	70
3560	.69	.10	.42	430	.04	.38	.50	55	72
3550	1.26	.07	2.95	424	.20	2.75	.75	218	59
3540	1.16	.07	1.23	431	.09	1.14	.53	98	45
3530	1.86	.07	2.88	422	.19	2.69	.69	144	37
3520	1.74	.15	2.44	422	.36	2.08	2.27	119	130
3510	6.19	.03	20.37	408	.62	19.75	.89	319	14
3500	.83	.07	.57	432	.04	.53	.72	63	86
3490	1.08	.05	.99	435	.05	.94	.54	87	50
3480	1.63	.04	2.74	422	.11	2.63	.48	161	29
3470	1.18	.04	1.15	433	.05	1.10	.48	93	40

3460	1.49	.04	2.09	425	.08	2.01	.45	134	30
3450	3.52	.02	10.92	412	.27	10.65	.50	302	14
3440	1.35	.04	1.39	435	.06	1.33	.58	98	42
3430	1.77	.04	2.21	431	.09	2.12	.59	119	33
3420	2.08	.03	3.51	426	.12	3.39	.41	162	19
3410	1.92	.03	4.07	417	.14	3.93	.45	204	23
3400	1.62	.04	2.53	426	.09	2.44	.47	150	29
3390	1.28	.03	1.46	430	.05	1.41	.47	110	36
3380	3.93	.03	11.25	409	.30	10.95	.70	278	17
3370	2.02	.03	4.37	417	.13	4.24	.62	209	30
3360	3.01	.02	7.37	417	.17	7.20	.58	239	19
3350	3.65	.02	9.38	412	.19	9.19	.62	251	16
3340	3.99	.02	10.13	410	.22	9.91	1.02	248	25
3330	3.64	.03	5.72	423	.16	5.56	.57	152	15
3320	.63	0.00	.32	433	0.00	.32	.41	50	65
3310	.43	.07	.15	430	.01	.14	.38	32	88
3300	.63	0.00	.15	427	0.00	.15	.48	23	76
3290	.40	0.00	.09	429	0.00	.09	.28	22	70
3280	.46	0.00	.08	429	0.00	.08	.29	17	63
3270	.57	0.00	.13	426	0.00	.13	.37	22	64
3260	.43	0.00	.05	426	0.00	.05	.26	11	60
3240	.50	0.00	.15	425	0.00	.15	.40	29	80
3230	.01	0.00	.12	429	0.00	.12	.34	11993	400
3220	.49	0.00	.12	426	0.00	.12	.33	24	67
3210	.57	0.00	.16	424	0.00	.16	.32	28	56
3200	.48	0.00	.12	424	0.00	.12	.43	25	89
3190	.51	0.00	.13	420	0.00	.13	.39	25	76
3180	.31	0.00	.09	419	0.00	.09	.33	29	106
3170	.24	0.00	.04	420	0.00	.04	.35	16	145
3160	.21	0.00	.02	363	0.00	.02	.33	9	157
3150	.10	0.00	.01	0	0.00	.01	.31	10	310
3140	.10	0.00	.01	0	0.00	.01	.31	10	310
3130	.01	0.00	.01	0	0.00	.01	.31	1003	099
3120	.11	0.00	.03	0	0.00	.03	.32	27	290
3110	.11	0.00	.01	0	0.00	.01	.35	9	318
3100	.10	0.00	.01	0	0.00	.01	.34	10	340
3100	.10	0.00	.01	0	0.00	.01	.30	10	300
3090	.12	0.00	.01	310	0.00	.01	.28	8	233
3080	.08	0.00	.01	0	0.00	.01	.34	12	425
3070	.09	0.00	.01	0	0.00	.01	.28	11	311
3060	.11	0.00	.01	0	0.00	.01	.25	9	227
3050	.10	0.00	.01	0	0.00	.01	.33	10	330
3040	.11	0.00	.01	0	0.00	.01	.30	9	272
3030	.11	0.00	.01	0	0.00	.01	.33	9	300
3020	.15	0.00	.01	0	0.00	.01	.37	6	246
3010	.69	0.00	.24	424	0.00	.24	.37	34	53
3000	.36	0.00	.18	417	0.00	.18	.49	49	136
2990	.26	0.00	.15	415	0.00	.15	.40	57	153
2980	.14	0.00	.03	419	0.00	.03	.42	21	300
2970	.08	0.00	.01	0	0.00	.01	.32	12	400
2960	.08	0.00	.01	0	0.00	.01	.40	12	500
2940	.08	0.00	.01	0	0.00	.01	.40	12	500
2930	.05	0.00	.01	0	0.00	.01	.36	20	719
2920	.10	0.00	.03	324	0.00	.03	.37	29	369
2910	.09	0.00	.03	0	0.00	.03	.36	33	399

2900	.10	0.00	.02	320	0.00	.02	.41	20	410
2890	.11	0.00	.04	317	0.00	.04	.36	36	327
2880	.15	0.00	.03	361	0.00	.03	.38	20	253
2870	.11	0.00	.01	0	0.00	.01	.36	9	327
2860	.22	0.00	.06	351	0.00	.06	.40	27	181
2850	.26	0.00	.09	363	0.00	.09	.47	34	180
2840	.63	.02	.52	423	.01	.51	.49	80	77
2830	.38	0.00	.34	421	0.00	.34	.42	89	110
2820	.41	0.00	.33	419	0.00	.33	.64	80	156
2810	.31	0.00	.20	419	0.00	.20	.52	64	167
2800	.16	0.00	.03	386	0.00	.03	.36	18	224
2790	.09	0.00	.01	0	0.00	.01	.37	11	411
2780	.17	0.00	.10	414	0.00	.10	.38	58	223
2770	.38	0.00	.30	421	0.00	.30	.31	78	81
2750	.36	0.00	.22	423	0.00	.22	.37	61	102
2740	.74	0.00	.43	427	0.00	.43	.41	58	55
2730	1.08	0.00	.86	426	0.00	.86	.72	79	66
2720	.48	0.00	.74	423	0.00	.74	.35	154	72
2710	.36	0.00	.34	421	0.00	.34	.34	94	94
2700	.20	0.00	.12	416	0.00	.12	.32	59	160
2690	.23	0.00	.17	422	0.00	.17	.46	73	200
2680	.20	0.00	.13	421	0.00	.13	.24	65	119
2670	.48	0.00	.83	419	0.00	.83	.40	172	83
2660	.34	0.00	.45	422	0.00	.45	.46	132	135
2650	.11	0.00	.33	410	0.00	.33	.35	300	318
2650	.63	0.00	1.51	427	0.00	1.51	.29	239	46
2640	.49	0.00	.67	422	0.00	.67	.40	136	81
2630	1.59	.01	7.61	426	.04	7.57	.71	476	44
2620	1.06	0.00	2.35	424	0.00	2.35	.55	221	51
2610	1.00	.00	2.09	424	.01	2.08	.57	208	56
2600	1.23	.01	2.97	425	.03	2.94	.60	239	48
2590	.93	.01	3.42	432	.02	3.40	.50	365	53
2580	1.34	.05	6.22	429	.31	5.91	.81	441	60
2570	.74	0.00	2.85	432	0.00	2.85	.51	385	68
2560	.84	0.00	3.24	434	0.00	3.24	.51	385	60
2550	1.24	.01	5.88	435	.03	5.85	.54	471	43
2540	1.39	.01	6.60	437	.04	6.56	.63	471	45
2530	1.79	.00	8.75	435	.04	8.71	.74	486	41
2520	1.46	.00	6.68	434	.02	6.66	.72	456	49
2510	1.80	.01	9.75	428	.06	9.69	.72	538	39
2500	2.43	.01	12.56	422	.10	12.46	1.24	512	51
2490	3.70	.01	26.07	415	.31	25.76	1.32	696	35
2480	4.93	.01	31.23	412	.45	30.78	2.03	624	41
2470	5.23	.02	39.33	413	.61	38.72	1.79	740	34
2460	4.56	.01	31.40	416	.40	31.00	1.62	679	35
2450	4.60	.01	32.43	415	.40	32.03	1.71	696	37
2440	4.43	.02	33.50	414	.54	32.96	1.67	744	37
2430	.77	.01	3.25	417	.03	3.22	1.07	418	138
2420	1.07	.01	5.48	409	.08	5.40	1.28	504	119
2410	.73	.01	2.73	411	.03	2.70	1.06	369	145
2400	.65	.01	1.69	414	.02	1.67	1.00	256	153
2390	.71	.04	.78	425	.03	.75	3.61	105	508
2380	1.44	.01	6.10	424	.06	6.04	.83	419	57
2370	.86	0.00	.60	430	0.00	.60	.71	69	82
2360	.95	0.00	.50	428	0.00	.50	.75	52	78

2350	1.81	.01	1.43	426	.01	1.42	1.09	78	60
2340	2.11	0.00	1.72	429	0.00	1.72	1.02	81	48
2330	1.35	0.00	.99	430	0.00	.99	.86	73	63
2320	1.18	0.00	.81	427	0.00	.81	.89	68	75
2310	1.23	0.00	.82	426	0.00	.82	.92	66	74
2300	1.68	.01	6.52	419	.07	6.45	.80	383	47
2290	1.38	0.00	1.13	428	0.00	1.13	.88	81	63
2280	1.53	.02	1.65	429	.03	1.62	1.31	105	85
2270	1.59	0.00	1.96	427	0.00	1.96	1.00	123	62
2260	1.73	0.00	2.07	427	0.00	2.07	.84	119	48
2250	1.56	0.00	1.55	426	0.00	1.55	.85	99	54
2240	1.67	0.00	1.62	427	0.00	1.62	.82	97	49
2230	1.29	0.00	.48	425	0.00	.48	.89	37	68
2220	1.17	0.00	.42	424	0.00	.42	1.02	35	87
2210	1.08	0.00	.42	427	0.00	.42	.91	38	84
2200	1.00	0.00	.31	427	0.00	.31	.97	30	96
2190	1.22	.03	.38	425	.01	.37	1.07	30	87
2180	.68	.04	.26	420	.01	.25	.95	36	139
2170	.46	.18	.11	421	.02	.09	.84	19	182
2160	.31	0.00	.01	0	0.00	.01	.64	3	206
2150	1.21	.06	.34	417	.02	.32	1.51	26	124
2140	.94	0.00	.10	409	0.00	.10	1.09	10	115
2130	1.12	.19	.47	398	.09	.38	1.05	33	93
2120	1.90	.05	.55	423	.03	.52	1.48	27	77
2110	3.96	.18	2.01	429	.37	1.64	2.83	41	71
2100	5.95	.05	2.78	428	.13	2.65	3.26	44	54
2090	1.03	.06	.16	419	.01	.15	1.01	14	98
2080	.89	.07	.14	413	.01	.13	.91	14	102
2070	.91	.08	.13	421	.01	.12	.88	13	96
2060	1.90	.02	.56	428	.01	.55	1.37	28	72
2050	1.85	.03	.36	427	.01	.35	1.20	18	64
2040	1.49	0.00	.28	428	0.00	.28	1.10	18	73
2030	.99	0.00	.13	426	0.00	.13	1.12	13	113
2020	.81	0.00	.07	424	0.00	.07	1.02	8	125
2010	.96	0.00	.10	417	0.00	.10	.90	10	93
2000	.81	.09	.11	414	.01	.10	.89	12	109
1990	1.04	.07	.28	411	.02	.26	.95	25	91
1980	.96	.05	.19	403	.01	.18	1.03	18	107
1970	1.35	.10	.40	419	.04	.36	1.25	26	92
1960	.89	0.00	.09	387	0.00	.09	.89	10	100
1950	.74	.07	.14	392	.01	.13	.92	17	124
1940	.73	.10	.10	366	.01	.09	.92	12	126
1930	.79	.09	.11	417	.01	.10	1.22	12	154
1920	1.16	.06	.33	415	.02	.31	1.71	26	147
1910	1.12	.03	.36	420	.01	.35	1.70	31	151
1900	1.27	.13	.75	419	.10	.65	2.11	51	166
1890	1.42	0.00	.50	424	0.00	.50	1.73	35	121
1880	1.35	.12	.81	418	.10	.71	1.50	52	111
1870	1.45	.04	.49	418	.02	.47	1.75	32	120
1860	1.38	.16	.75	411	.12	.63	1.41	45	102
1850	1.54	.18	1.83	416	.33	1.50	1.48	97	96
1840	2.12	.42	8.45	384	3.53	4.92	2.68	232	126
1830	1.30	.05	.40	420	.02	.38	1.12	29	86
1820	1.44	.15	.80	422	.12	.68	1.17	47	81
1820	1.53	.15	.86	422	.13	.73	1.22	47	79

1810	1.36	.05	.55	423	.03	.52	.93	38	68
1800	2.09	.04	.98	424	.04	.94	1.25	44	59
1790	1.61	.05	.66	421	.03	.63	.98	39	60
1780	1.93	.07	.92	423	.06	.86	1.27	44	65
1770	2.06	.04	1.13	425	.04	1.09	1.24	52	60
1760	2.05	.05	1.09	425	.05	1.04	1.36	50	66
1750	2.72	.06	2.08	428	.12	1.96	1.81	72	66
1740	2.86	.08	2.19	426	.18	2.01	2.39	70	83
1730	12.16	.41	44.70	327	18.20	26.50	21.23	217	174
1720	1.06	0.00	.21	422	0.00	.21	1.30	19	122
1710	.66	0.00	.16	418	0.00	.16	.78	24	118
1700	.72	0.00	.07	419	0.00	.07	1.03	9	143
1690	.76	0.00	.14	416	0.00	.14	.74	18	97
1680	.81	0.00	.10	417	0.00	.10	.82	12	101
1670	1.12	0.00	.35	424	0.00	.35	.88	31	78
1660	.87	0.00	.22	420	0.00	.22	.73	25	83
1650	1.68	0.00	.56	424	0.00	.56	1.19	33	70
1640	1.19	0.00	.31	423	0.00	.31	.93	26	78
1630	.97	0.00	.23	417	0.00	.23	.77	23	79
1620	.93	0.00	.34	421	0.00	.34	.69	36	74
1610	.91	0.00	.32	423	0.00	.32	.62	35	68
1600	.31	0.00	.06	420	0.00	.06	.26	19	83
1590	.78	.03	.35	420	.01	.34	.56	43	71
1580	.73	0.00	.33	418	0.00	.33	.73	45	100
1570	.57	0.00	.45	424	0.00	.45	.48	78	84
1560	.53	0.00	.48	424	0.00	.48	.37	90	69
1550	.75	0.00	.52	425	0.00	.52	.49	69	65
1540	.59	0.00	.53	420	0.00	.53	.41	89	69
1530	.59	.03	.39	423	.01	.38	.41	64	69
1520	.54	.15	.60	419	.09	.51	.39	94	72
1510	.53	.02	.47	421	.01	.46	.37	86	69
1500	.46	0.00	.37	422	0.00	.37	.32	80	69
1490	.36	0.00	.25	424	0.00	.25	.79	69	219
1480	.45	0.00	.23	424	0.00	.23	.79	51	175
1470	.76	0.00	.38	424	0.00	.38	.81	50	106
1460	1.15	0.00	.40	425	0.00	.40	.93	34	80
1450	.91	.33	1.69	429	.56	1.13	1.40	124	153
1440	.54	0.00	.17	423	0.00	.17	.49	31	90
1430	.30	0.00	.05	385	0.00	.05	.41	16	136
1420	1.09	0.00	.46	426	0.00	.46	.74	42	67
1410	1.45	0.00	.61	425	0.00	.61	.90	42	62
1400	1.70	.01	.76	426	.01	.75	.99	44	58
1390	2.07	.03	.79	429	.02	.77	1.38	37	66
1380	1.22	.16	.70	425	.11	.59	.80	48	65
1370	1.13	.05	.39	427	.02	.37	.85	32	75
1360	.38	0.00	.08	419	0.00	.08	.36	21	94
1350	.33	0.00	.04	360	0.00	.04	.31	12	93
1340	.28	.09	.11	416	.01	.10	.25	35	89
1330	.22	0.00	.04	409	0.00	.04	.22	18	100
1320	.04	0.00	.01	0	0.00	.01	.12	25	299
1310	.57	0.00	.18	427	0.00	.18	.39	31	68
1300	1.06	0.00	.41	427	0.00	.41	.57	38	53
1290	.04	0.00	.01	0	0.00	.01	.10	25	250
1280	.03	0.00	.01	0	0.00	.01	.12	33	400
1270	.04	0.00	.01	0	0.00	.01	.12	25	299

1260	.18	0.00	.01	0	0.00	.01	.23	5	127
1250	.10	0.00	.03	428	0.00	.03	.22	29	220
1240	.08	0.00	.01	0	0.00	.01	.17	12	212
1230	.08	0.00	.01	0	0.00	.01	.14	12	174
1220	.08	0.00	.01	0	0.00	.01	.14	12	174
1210	.03	0.00	.01	0	0.00	.01	.10	33	333
1200	.07	0.00	.01	0	0.00	.01	.08	14	114
1190	.01	0.00	.01	0	0.00	.01	.03	100	299
1180	.01	0.00	.01	0	0.00	.01	.02	100	200
1170	.06	0.00	.01	0	0.00	.01	.07	16	116
1160	.01	0.00	.01	0	0.00	.01	.05	100	500
1150	.01	0.00	.01	0	0.00	.01	.02	100	200
1140	.04	0.00	.01	0	0.00	.01	.04	25	100
1130	.02	0.00	.01	0	0.00	.01	.04	50	200
1120	.25	0.00	.04	370	0.00	.04	.15	16	59
1110	.11	0.00	.03	330	0.00	.03	.10	27	90
1100	.08	0.00	.01	0	0.00	.01	.09	12	112
1090	.07	0.00	.02	0	0.00	.02	.08	28	114
1080	.04	0.00	.01	0	0.00	.01	.07	25	174
1070	.27	.04	.23	426	.01	.22	.18	81	66
1060	.71	.01	.69	426	.01	.68	.38	95	53
1050	.05	0.00	.01	0	0.00	.01	.07	20	140
1040	.01	0.00	.01	0	0.00	.01	.03	100	299
1030	.24	0.00	.08	425	0.00	.08	.22	33	91
1020	2.62	.45	2.49	428	1.12	1.37	2.71	52	103
1010	3.22	.04	1.26	428	.05	1.21	1.65	37	51
1000	4.41	.03	1.93	429	.05	1.88	2.16	42	48
990	4.98	.02	2.32	426	.05	2.27	2.43	45	48
980	4.95	.03	2.74	427	.09	2.65	2.49	53	50
970	4.85	.04	2.11	423	.08	2.03	2.75	41	56
960	4.69	.03	2.32	426	.08	2.24	2.84	47	60
950	4.58	.07	3.17	429	.21	2.96	4.04	64	88
940	6.43	0.00	.01	0	0.00	.01	.07	0	1
930	4.94	.10	4.90	427	.49	4.41	5.62	89	113
920	12.48	.48	62.30	325	29.64	32.66	29.00	261	232
910	2.64	.02	.57	422	.01	.56	2.50	21	94
900	2.38	.04	.76	420	.03	.73	2.21	30	92
890	1.58	0.00	.28	417	0.00	.28	1.76	17	111
880	1.99	.03	.34	416	.01	.33	1.92	16	96
870	1.87	0.00	.31	416	0.00	.31	2.19	16	117
860	2.03	0.00	.63	421	0.00	.63	1.91	31	94
850	1.72	.02	.59	425	.01	.58	1.71	33	99
840	1.47	0.00	.30	421	0.00	.30	1.59	20	108
830	1.14	0.00	.23	420	0.00	.23	3.43	20	300
820	1.36	0.00	.37	421	0.00	.37	1.54	27	113
810	.79	0.00	.15	424	0.00	.15	2.86	18	362
800	1.55	0.00	.35	418	0.00	.35	1.86	22	120
790	1.00	0.00	.19	414	0.00	.19	3.75	19	375
780	1.62	0.00	.24	413	0.00	.24	2.81	14	173
770	1.96	.02	.46	412	.01	.45	1.47	22	74
750	2.01	.13	1.08	397	.14	.94	1.69	46	84
740	1.71	.04	.50	414	.02	.48	1.31	28	76
730	1.80	.09	1.04	423	.09	.95	1.63	52	90

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	******	****	******	******	*****	***	***
940M	.08	.00	.01	299	.00	.01	4.40	125	499
1000M	1.03	.24	1.33	418	.32	1.01	7.23	98	701
1100M	1.80	.05	2.38	425	.12	2.26	3.10	125	172
1200	1.74	.05	1.97	425	.10	1.87	2.39	107	137
1300	1.92	.04	2.66	603	.10	2.56	3.36	133	175
1400	2.18	.03	2.34	422	.08	2.26	2.34	103	107
1500	1.69	.03	2.15	427	.06	2.09	2.45	123	144
1600	2.05	.02	3.03	468	.05	2.98	2.76	145	134
1710	2.96	.01	2.74	425	.04	2.70	2.17	91	73
1710	2.69	.00	2.64	431	.01	2.63	3.37	97	125
1720	3.27	.01	2.62	424	.03	2.59	1.91	79	58
1730	2.90	.01	3.03	426	.03	3.00	1.88	103	64
1740	3.07	.01	2.02	423	.03	1.99	1.77	64	57
1750	3.02	.02	3.18	425	.06	3.12	2.39	103	79
1760	2.77	.03	3.25	426	.09	3.16	2.24	114	80
1770	2.80	.02	2.28	425	.05	2.23	1.47	79	52
1780	3.19	.02	2.65	425	.05	2.60	1.59	81	49
1790	3.10	.00	3.26	429	.01	3.25	2.03	104	65
1800	3.31	.02	2.60	425	.04	2.56	2.00	77	60
1810	3.54	.02	3.80	429	.06	3.74	2.68	105	75
1810	3.65	.01	4.20	429	.06	4.14	2.68	113	73
1820	3.88	.02	3.82	426	.06	3.76	2.09	96	53
1830	4.08	.03	4.02	428	.12	3.90	2.15	95	52
1840	3.38	.02	3.81	428	.06	3.75	1.79	110	52
1850	3.42	.01	3.97	430	.05	3.92	2.12	114	61
1860	4.05	.02	4.54	429	.07	4.47	1.91	110	47
1870	4.66	.04	5.50	428	.23	5.27	1.69	113	36
1880	4.63	.02	5.22	430	.09	5.13	2.22	110	47
1890	4.32	.02	4.48	429	.07	4.41	1.98	102	45
1900	4.56	.02	4.76	430	.08	4.68	2.14	102	46
1910	4.63	.02	5.70	428	.11	5.59	1.95	120	42
1920	3.97	.02	4.07	429	.07	4.00	1.43	100	36
1930	3.85	.02	4.08	429	.08	4.00	2.08	103	54
1940	3.75	.03	3.68	432	.12	3.56	2.00	94	53
1950	3.78	.02	3.71	429	.07	3.64	1.59	96	42
1960	3.78	.02	3.84	428	.07	3.77	1.70	99	44
1970	3.95	.02	4.09	429	.08	4.01	1.77	101	44
1980	3.74	.01	3.66	431	.05	3.61	1.90	96	50
1990	3.55	.02	4.15	429	.09	4.06	1.25	114	35
2000	3.74	.02	3.84	428	.08	3.76	2.09	100	55
2010	3.82	.02	3.70	426	.08	3.62	1.14	94	29
2020	3.78	.02	3.92	429	.07	3.85	1.61	101	42
2030	3.99	.02	4.17	429	.08	4.09	1.17	102	29
2040	4.21	.02	4.31	430	.07	4.24	1.17	100	27
2050	4.09	.02	4.69	430	.10	4.59	1.56	112	38
2060	4.44	.02	4.94	432	.10	4.84	1.55	109	34
2070	4.22	.02	4.21	430	.09	4.12	2.10	97	49
2080	4.23	.02	4.90	432	.09	4.81	1.98	113	46
2090	4.04	.02	4.48	430	.07	4.41	1.87	109	46
2100	4.46	.02	4.98	432	.09	4.89	1.27	109	28
2110	4.46	.02	5.40	434	.10	5.30	1.36	118	30

2120	4.40	.03	5.69	436	.15	5.54	1.29	125	29
2120	4.31	.02	5.03	432	.09	4.94	1.03	114	23
2130	4.26	.02	5.57	431	.13	5.44	1.83	127	42
2140	4.24	.02	5.80	434	.11	5.69	1.13	134	26
2150	3.93	.02	5.42	433	.12	5.30	.96	134	24
2160	3.83	.02	4.80	435	.11	4.69	1.84	122	48
2180	3.09	.03	3.86	434	.11	3.75	1.49	121	48
2190	3.25	.03	4.15	431	.13	4.02	1.90	123	58
2200	3.15	.02	4.51	431	.11	4.40	1.64	139	52
2210	3.11	.03	5.02	431	.15	4.87	1.30	156	41
2220	2.99	.03	4.46	430	.14	4.32	1.48	144	49
2230	2.90	.03	4.22	434	.13	4.09	1.55	141	53
2240	3.25	.04	4.83	433	.19	4.64	2.11	142	64
2250	2.09	.05	2.61	429	.12	2.49	1.14	119	54
2260	1.80	.03	2.46	433	.07	2.39	1.05	132	58
2270	1.42	.07	2.06	423	.15	1.91	1.23	134	86
2280	1.18	.07	1.52	424	.10	1.42	1.12	120	94
2290	1.28	.08	1.77	425	.14	1.63	1.02	127	79
2300	1.31	.05	1.75	429	.09	1.66	1.26	126	96
2310	1.55	.05	1.87	430	.09	1.78	1.36	114	87
2320	.98	.06	1.63	427	.09	1.54	.88	157	89
2330	1.14	.05	1.41	429	.07	1.34	.99	117	86
2340	1.17	.04	1.15	427	.05	1.10	1.29	94	110
2350	1.88	.04	1.91	428	.07	1.84	1.65	97	87
2360	1.99	.05	2.28	427	.12	2.16	.96	108	48
2370	1.66	.09	1.42	429	.13	1.29	2.32	77	139
2380	2.07	.36	5.01	431	1.79	3.22	1.64	155	79
2390	2.97	.15	4.59	432	.67	3.92	1.53	131	51
2400	2.40	.19	3.68	433	.69	2.99	1.87	124	77
2410	1.93	.31	4.01	431	1.25	2.76	2.62	143	135
2420	1.84	.38	3.99	430	1.52	2.47	2.01	134	109
2430	1.31	.48	3.90	427	1.87	2.03	2.84	154	216
2440	1.63	.33	3.62	429	1.20	2.42	2.01	148	123
2450	1.11	.25	1.36	418	.34	1.02	4.80	91	432
2460	.18	.18	.60	433	.11	.49	2.89	272	1605
2470	.85	.27	1.16	425	.31	.85	4.36	100	512
2480	.90	.28	1.65	423	.47	1.18	4.26	131	473
2490	1.01	.41	2.70	428	1.11	1.59	4.77	157	472
2500	.91	.39	1.92	426	.74	1.18	2.99	129	328
2510	.84	.31	2.13	425	.66	1.47	2.75	175	327
2520	.87	.42	3.21	419	1.34	1.87	3.71	214	426
2530	.81	.36	1.58	422	.57	1.01	2.71	124	334
2540	.75	.32	2.08	414	.66	1.42	4.03	189	537
2550	.82	.27	1.37	425	.37	1.00	2.81	121	342
2560	.90	.44	2.61	415	1.14	1.47	4.57	163	507
2570	.80	.37	2.18	420	.81	1.37	3.24	171	405
2580	.92	.41	2.13	428	.87	1.26	2.92	136	317
2590	.72	.48	2.12	425	1.01	1.11	2.35	154	326
2600	.95	.49	2.40	425	1.17	1.23	3.01	129	316
2610	.75	.43	1.40	428	.60	.80	2.61	106	348
2620	.67	.49	1.08	429	.53	.55	2.09	82	311
2630	.63	.50	1.10	424	.55	.55	2.62	87	415
2640	.69	.43	1.20	429	.52	.68	2.26	98	327
2650	.66	.47	.92	432	.43	.49	2.07	74	313
2660	.71	.33	1.38	431	.46	.92	1.87	129	263

2670	.56	.51	1.74	418	.88	.86	3.31	153	591
2680	.17	.32	.73	420	.23	.50	2.04	294	1200
2690	.36	.34	.95	423	.32	.63	1.79	175	497
2700	.29	.28	1.02	429	.29	.73	1.97	251	679
2710	.26	.30	.86	418	.26	.60	2.51	230	965
2720	.53	.31	1.17	421	.36	.81	3.32	152	626
2730	.35	.28	.68	422	.19	.49	2.37	140	677
2740	.46	.25	.84	422	.21	.63	2.41	136	523
2760	.77	.31	2.54	418	.80	1.74	3.72	225	483
2770	.73	.25	1.16	430	.29	.87	2.72	119	372
2780	.50	.23	.83	433	.19	.64	2.94	128	588
2790	.46	.21	.73	424	.15	.58	2.84	126	617
2800	.54	.25	.80	425	.20	.60	.14	111	25
2820	.56	.25	.76	426	.19	.57	2.13	101	380
2830	.52	.21	.89	425	.19	.70	3.14	134	603
2840	.65	.23	.88	427	.20	.68	2.24	104	344
2850	.49	.18	.96	427	.17	.79	2.60	161	530
2860	.55	.21	1.14	430	.24	.90	2.80	163	509
2870	.62	.18	1.14	433	.20	.94	2.38	151	383
2880	.41	.19	.90	432	.17	.73	2.21	178	539
2890	.47	.23	.86	430	.20	.66	2.51	140	534
2900	.53	.21	.71	429	.15	.56	2.15	105	405
2910	.43	.22	.59	427	.13	.46	2.15	106	500
2920	.41	.22	.50	428	.11	.39	1.76	95	429
2930	.40	.22	.60	430	.13	.47	2.37	117	592
2940	.54	.32	.82	425	.26	.56	3.26	103	603
2950	.47	.34	.50	427	.17	.33	2.93	70	623
2960	.37	.28	.50	430	.14	.36	2.85	97	770
2970	.43	.26	.95	427	.25	.70	4.10	162	953
2990	.55	.16	.69	431	.11	.58	2.67	105	485
3000	.60	.22	.79	430	.17	.62	2.78	103	463
3010	.51	.23	.86	430	.20	.66	3.40	129	666
3020	.60	.24	1.14	430	.27	.87	2.97	145	495
3030	.60	.28	1.92	428	.53	1.39	4.73	231	788
3040	.39	.29	1.02	428	.30	.72	3.95	184	1012
3050	.46	.20	.60	431	.12	.48	2.98	104	647
3070	.42	.25	1.04	430	.26	.78	4.18	185	995
3080	.53	.26	.94	430	.24	.70	3.58	132	675
3085	.23	.42	.12	428	.05	.07	1.71	30	743
3100	.15	1.00	.01	446	.01	.00	1.67	0	1113
3110	.37	.30	.30	438	.09	.21	2.75	56	743
3120	.50	.38	1.41	425	.54	.87	4.84	174	968
3130	.44	.30	.90	427	.27	.63	3.73	143	847
3140	.52	.30	1.04	430	.31	.73	2.93	140	563
3150	.41	.38	.24	427	.09	.15	2.80	36	682
3160	.64	.36	1.26	433	.45	.81	2.93	126	457
3170	.65	.30	.71	435	.21	.50	2.38	76	366
3180	.68	.25	1.06	432	.26	.80	2.98	117	438
3190	.67	.25	.96	441	.24	.72	2.64	107	394
3200	.73	.33	1.59	439	.52	1.07	3.70	146	506
3210	.59	.25	1.30	442	.33	.97	3.07	164	520
3220	.68	.23	1.11	440	.25	.86	2.90	126	426
3230	.83	.29	2.11	438	.61	1.50	4.40	180	530
3250	.86	.25	1.90	443	.47	1.43	3.02	166	351
3260	.66	.29	1.70	438	.49	1.21	4.27	183	646

3270	.76	.23	1.54	446	.36	1.18	2.22	155	292
3280	.73	.21	1.58	444	.33	1.25	3.14	171	430
3290	.51	.28	1.34	436	.37	.97	3.45	190	676
3300	.42	.30	.88	441	.26	.62	1.48	147	352
3310	.43	.30	1.02	439	.31	.71	1.99	165	462
3320	.41	.33	1.33	431	.44	.89	3.57	217	870
3330	.51	.29	1.00	443	.29	.71	1.51	139	296
3340	.27	.29	.66	437	.19	.47	1.89	174	700
3350	.38	.29	.99	435	.29	.70	2.48	184	652
3360	.36	.28	1.11	437	.31	.80	2.36	222	655
3370	.26	.26	.74	465	.19	.55	1.51	211	580
3380	.47	.65	2.49	425	1.61	.88	2.65	187	563
3390	.21	.57	2.50	435	1.42	1.08	2.24	5141	066
3400	2.19	.75	18.44	419	13.85	4.59	3.79	209	173
3410	.34	.33	.76	440	.25	.51	1.67	150	491
3420	.23	.32	.66	437	.21	.45	1.29	195	560
3430	.50	.31	1.56	435	.49	1.07	2.66	214	532
3440	.52	.36	1.17	437	.42	.75	2.31	144	444
3450	.45	.33	1.25	436	.41	.84	2.88	186	640
3460	.58	.26	1.11	441	.29	.82	1.99	141	343
3470	.26	.31	.48	439	.15	.33	.89	126	342
3480	.17	.30	.30	437	.09	.21	1.06	123	623
3490	.14	.44	.34	429	.15	.19	1.36	135	971
3500	.08	.83	.06	363	.05	.01	.95	121	187
3510	.11	.25	.20	424	.05	.15	.82	136	745
3520	.14	.23	.30	492	.07	.23	.91	164	650
3530	.21	.55	.64	428	.35	.29	1.08	138	514
3540	.27	.67	.86	416	.58	.28	1.24	103	459
3550	.43	.78	2.31	421	1.81	.50	1.41	116	327
3560	.37	.78	2.36	426	1.83	.53	1.39	143	375
3570	.56	.46	2.96	439	1.35	1.61	1.92	287	342
3580	.46	.46	1.92	433	.88	1.04	2.54	226	552
3590	.32	.27	.40	490	.11	.29	2.27	90	709
3600	.26	.36	.64	429	.23	.41	2.47	157	949
3610	.21	.24	.38	469	.09	.29	1.58	138	752
3620	.12	.21	.14	398	.03	.11	.83	91	691
3630	.09	.30	.20	382	.06	.14	.98	155	1088
3640	.16	.32	.22	430	.07	.15	.97	93	606
3650	.11	.13	.08	360	.01	.07	1.11	63	1009
3660	.14	.35	.26	469	.09	.17	1.30	121	928
3670	.21	.40	.30	474	.12	.18	1.47	85	700
3680	1.23	.26	2.06	445	.54	1.52	1.56	123	126
3690	.32	.33	.42	443	.14	.28	.52	87	162
3700	.36	.32	.40	438	.13	.27	1.82	75	505
3710	.31	.50	.34	443	.17	.17	1.05	54	338
3720	.12	.92	.12	366	.11	.01	.86	8	716
3730	.25	.38	.42	473	.16	.26	.86	104	344
3740	.31	.47	.36	438	.17	.19	.63	61	203
3750	.35	.40	.47	438	.19	.28	.98	79	280
3760	.71	.43	1.38	436	.60	.78	1.90	109	267
3770	1.06	.44	2.27	442	.99	1.28	3.01	120	283
3780	.85	.32	1.87	469	.59	1.28	4.09	150	481
3790	1.04	.33	3.04	430	1.00	2.04	5.61	196	539
3800	.72	.28	1.14	441	.32	.82	3.40	113	472
3810	.57	.24	2.17	594	.52	1.65	4.72	289	828

3820	.53	.22	1.14	442	.25	.89	3.29	167 620
3830	.32	.24	.68	601	.16	.52	3.44	1621075
3840	.44	.15	1.95	593	.29	1.66	3.64	377 827
3850	.32	.25	.61	445	.15	.46	1.62	143 506
3860	.30	.16	.56	459	.09	.47	1.90	156 633
3870	.56	.25	1.04	446	.26	.78	2.37	139 423
3880	.66	.26	1.34	443	.35	.99	2.84	150 430
3890	.42	.12	.56	453	.07	.49	1.09	116 259
3900	.56	.22	1.14	450	.25	.89	2.55	158 455
3910	.55	.18	.74	448	.13	.61	1.82	110 330
3920	.55	.20	.70	448	.14	.56	1.50	101 272
3930	.01	.00	.01	455	.00	.01	.35	1003500
3940	.11	.25	1.38	450	.34	1.04	.93	945 845
3950	.79	.28	1.20	445	.34	.86	1.58	108 200
3960	.71	.37	1.45	445	.53	.92	1.63	129 229
3970	.71	.44	1.40	442	.61	.79	1.41	111 198
3980	.96	.42	2.04	444	.85	1.19	2.01	123 209
3990	1.81	.40	3.44	443	1.38	2.06	2.30	113 127
4000	1.53	.38	3.63	448	1.38	2.25	2.80	147 183
4010	.39	.27	.64	448	.17	.47	1.32	120 338
4020	.42	.30	.76	448	.23	.53	1.29	126 307
4030	.39	.30	.50	442	.15	.35	1.37	89 351
4040	.92	.38	1.85	428	.71	1.14	3.38	123 367
4050	.74	.32	.90	436	.29	.61	2.65	82 358
4060	.98	.33	1.88	444	.62	1.26	2.86	128 291
4070	.76	.31	1.08	446	.33	.75	2.17	98 285
4080	.80	.28	1.02	452	.29	.73	1.96	91 245
4090	.64	.25	.76	449	.19	.57	1.46	89 228
4100	.81	.30	.96	450	.29	.67	2.23	82 275
4110	.87	.28	1.22	445	.34	.88	1.96	101 225
4120	.77	.27	.86	449	.23	.63	1.61	81 209
4130	.62	.33	.52	460	.17	.35	1.39	56 224
4140	.56	.30	.80	488	.24	.56	1.84	100 328
4150	.04	.35	.52	441	.18	.34	1.48	8503700
4160	.17	.25	.24	463	.06	.18	1.22	105 717
4170	.27	.24	.42	472	.10	.32	1.40	118 518
4180	.35	.23	.48	455	.11	.37	1.71	105 488
4190	.49	.19	.74	461	.14	.60	1.44	122 293
4200	.67	.18	1.20	438	.22	.98	2.30	146 343
4210	.18	.40	.10	384	.04	.06	1.29	33 716
4220	.47	.28	.36	456	.10	.26	2.49	55 529
4230	.57	.26	.88	434	.23	.65	2.20	114 385
4240	.33	.30	.44	480	.13	.31	1.55	93 469
4250	.57	.21	.56	468	.12	.44	2.23	77 391
4260	.59	.30	.70	449	.21	.49	1.68	83 284
4270	.69	.27	1.00	449	.27	.73	1.69	105 244
4280	.40	.23	.44	455	.10	.34	1.46	85 365
4290	.56	.27	.78	423	.21	.57	3.18	101 567
4300	.69	.21	.70	453	.15	.55	2.43	79 352
4310	.62	.14	.56	462	.08	.48	2.68	77 432
4320	.79	.20	.98	431	.20	.78	3.12	98 394
4330	.96	.27	1.36	409	.37	.99	3.93	103 409
4340	1.47	.47	5.60	407	2.63	2.97	3.43	202 233
4350	1.06	.28	1.22	414	.34	.88	2.55	83 240
4360	1.09	.25	1.22	412	.31	.91	3.19	83 292

4370	.95	.22	.86	431	.19	.67	2.79	70	293
4380	.87	.29	1.06	417	.31	.75	3.08	86	354
4390	.97	.25	.76	429	.19	.57	2.35	58	242
4400	1.04	.23	.98	429	.23	.75	2.13	72	204
4410	.99	.23	.94	420	.22	.72	2.17	72	219
4420	.84	.22	.74	440	.16	.58	2.14	69	254
4430	.95	.22	.78	437	.17	.61	2.09	64	220
4440	.94	.29	1.26	417	.36	.90	2.57	95	273
4450	.80	.23	.70	466	.16	.54	2.61	67	326
4460	.71	.19	.74	437	.14	.60	2.42	84	340
4470	.85	.16	.80	438	.13	.67	2.03	78	238
4480	2.71	.13	1.75	425	.23	1.52	3.84	56	141
4490	3.43	.26	2.99	414	.78	2.21	6.04	64	176
4500	.90	.18	.60	416	.11	.49	2.30	54	255
4510	.98	.28	.96	408	.27	.69	2.68	70	273
4520	.62	.15	.46	452	.07	.39	1.95	62	314
4530	1.00	.43	2.52	418	1.08	1.44	2.59	144	259
4540	1.99	.15	.92	423	.14	.78	2.78	39	139
4550	3.54	.09	1.58	425	.14	1.44	4.04	40	114
4560	2.73	.15	1.44	421	.22	1.22	4.38	44	160
4570	.56	.17	.48	431	.08	.40	1.69	71	301
4580	.35	.09	.32	439	.03	.29	1.31	82	374
4590	.69	.11	.44	436	.05	.39	1.41	56	204
4600	2.40	.18	1.19	421	.21	.98	3.30	40	137
4610	1.03	.28	1.89	425	.53	1.36	2.30	132	223
4620	.53	.20	.46	434	.09	.37	1.34	69	252
4625	.62	.18	.38	437	.07	.31	1.27	50	204