

basal unit consists of a silty deposit which has a peak in X with concomitant decrease in organic matter and CaCO_3 content. At approximately 126 to 132 cm there is a change to more organic rich material which appears to have a greater amount of ostracises. A sharp drop in X occurs at this point.

A change to a smooth, structureless 10YR 3/2 clay occurs at 126 cm. At the base of this unit there is a slight increase in CaCO_3 content. organic matter decreases and there is a large peak in X . Capping this is 12 cm (74-90 cm) there is a change to ostracode rich material with a large peak in CaCO_3 , and organic matter and an equally large drop in X .

The upper 90 cm of this core is made up of clayey sediments. In the lowest 10 cm of this unit there is a decrease in organic matter to 9% and organic matter to 10 % which remains at approximately these levels up the core. X increased markedly at this point with a slightly greater increases at 40 cm. The moisture content of the sediment in this core is notably greater for the more silty material than the clayey deposits although the bulk density of the latter is generally greater.

Lake Pátzcuaro 19 (Fig. 8.4)

LP19 was collected approximately 1 km north of the shore at Tzintzuntzan. A 2.24 m core was retrieved from 5 m of water. Silty, 10YR 3/2 material forms the basal unit. This has a very low CaCO_3 content, with approximately 12 to 22 % organic matter. Mean grain-size decreases up the unit from 12 ums to 8 ums. A small peak in X is noted between 125 and 132 cm. At the top of this unit is an 8 cm () ostracode rich deposit corresponded to a peak in CaCO_3 content and a decrease in organic matter and X .

A 60 cm bed of 10YR 3/2 clay overlies the ostracode rich sediment. X increase dramatically at the base of this unit while CaCO_3 decrease. The mean grain-size of this material is about 5 ums. organic matter increases slightly in the lower 10 cm of the unit to over 20 % before dropping to 13 % and remaining at about this level to the top of the unit.

Peaks in CaCO_3 , organic matter and the mean grain-size occur between 124 and 140 cm where there is a layer of ostracode rich sediments. An abrupt decrease in X also occurs at this point.

Smooth, structureless 10YR 3/2 clay forms the upper unit of this core. This sediment has a low CaCO_3 content although this does increase slightly in the upper 30 cm of the unit. Apart from a small peak in organic matter at 68 cm this remains at around 10 to 12 % while the mean grain-size is 2 to 3 μm . This sediment has very high levels of X which show a gradual increase to the top of the core.

Lake Pátzcuaro 18 (Fig. 8.4)

LP18 was collected from 9.4 m of water about 3 km NW of LP19. The overall stratigraphy remains the same with the basal unit comprising of 10 cm (210-220 cm) of silty material which has a low X , and 11 % organic matter. CaCO_3 content decreases from 20 % at the base of the core to 6 % at the top of the unit. This is overlain by 85 cm of 10YR 3/2 clay which exhibits a large peak in X and has about 12 % organic matter. CaCO_3 while low decrease between 210 to 180 from 6 to 2 % before rising to 9% at 160 cm. This drops to 2 % at 150 cm.

An abrupt change in sediment occurs at 125 cm where there is a 25 cm unit of silty, ostracode rich sediment which coincides with a large peak in CaCO_3 and organic matter and a dramatic decrease in X .

The upper part of the of the core is formed of 100 cm of clay, which changes in colour from 10YR 3/2 in the lower part of the unit to 7.5YR 3/4 dark brown in the upper part. CaCO_3 content decreases at the base of this unit to 11 % and remains constant until 60 cm when it drops to 3 %. A small peak in CaCO_3 occurs at 20 cm. The organic matter content of this sediment is approximately 11 %. The abrupt change in sediment type corresponds to an equally abrupt change in X this is very high in the bottom 10 cm of this clay but drops slightly before maintaining high X level to the top of the core.

Moisture content of the core varies, but in common with other cores the coarser

layers contain a greater amount of moisture and generally have a lower bulk density. It should also be noted that the moisture content of the lower clay unit is generally less than the upper unit.

Lake Pátzcuaro 16 (Fig. 8.4)

Lake Pátzcuaro 16 was collected from 8.6 m of water about 5 km west of LP16. A 1.66 m core was collected from this site. At the base of the core X and CaCO_3 content is low and organic matter high. organic matter decreases and X increases at 164 cm. The sediment at the base of the core had as slightly silty texture but rapidly changed to a more clayey 7.5YR 3/2 dark greyish brown sediment at 164 cm. A large increase in X corresponds to this sediment change while there is a drop in organic matter content. A small peak in CaCO_3 is seen at 148 cm while a decrease in organic matter is noted at 128 cm. The X of this unit decreases gradual from a high at 159 cm.

Between 101 and 115 cm there is a band of 2.5YR 2.5/4 dark reddish brown ostracode rich sediment. At this level peaks in CaCO_3 and organic matter are recorded and an abrupt decrease in X is seen. The moisture content of this unit is over 80% while bulk density is between 0.18 to 0.23.

The upper unit of this core is formed of 10YR 3/6 dark yellowish brown clayey sediment. This has a very low CaCO_3 content which decreases from 13 to 2 % between 101 and 80 cm and remains at this level. A slight decrease from 15 to 13 % organic matter is recorded up the profile. This unit corresponds with a large peak in X .

Lake Pátzcuaro 20 (Fig. 8.4)

The longest core collected 2.8 m was at LP20. This site located 33.5 km north of LP19 was taken from 3.75 m of water. Three units are recognized. The lowest consists of 120 cm of 2.5Yr 3/2 dark brownish grey clay. This is low in CaCO_3 with around 11% organic matter both remaining relatively constant throughout the unit. X is high, but fluctuated quite dramatically with numerous small peaks being observed. A thin band of

silty, sediment with ostracises and organic material present is found between 150 and 160 cm. At this point there is a peak in CaCO_3 content and a large drop in X .

The upper 150 cm of the core was made up of clayey sediment 10YR 3/2 to 2.5YR 3/2 dark brownish grey in colour. CaCO_3 content shows a small increase upto the column with a peak at 35 cm. The sediment contains about 10 to 12 % organic matter. As in the lower clay unit X is high but shows considerable fluctuations in intensity. This sediment contains about 65 % moisture and some of the highest bulk densities being 0.38 to 0.51. Although for the silty layer the sediment contains nearly 80 % water and has a bulk density of 0.24.

APPENDIX C DATA FROM LAKE SEDIMENT RECORD

CORE 1		CORE 2		CORE 3		CORE 4		CORE 5	
L.P. Depth (cm)	Caco3 (%)	L.P. Depth (cm)	Caco3 (%)	L.P. Depth (cm)	Caco3 (%)	L.P. Depth (cm)	Caco3 (%)	L.P. Depth (cm)	Caco3 (%)
0.00	11.14	0.00	9.96	0.00	4.40	0.00	6.03	0.00	5.20
8.00	8.25	8.00	5.57	8.00	4.40	8.00	10.10	8.00	5.20
18.00	10.31	18.00	4.38	18.00	4.40	18.00	1.80	18.00	1.20
28.00	4.53	28.00	9.96	28.00	4.40	28.00	1.50	28.00	0.40
38.00	4.53	38.00	9.16	38.00	1.20	38.00	1.50	33.00	0.00
48.00	7.01	48.00	10.75	48.00	6.00	48.00	6.40	43.00	3.20
58.00	7.42	58.00	9.16	58.00	4.80	58.00	1.13	53.00	4.80
68.00	18.36	68.00	8.96	68.00	8.20	68.00	10.10	63.00	4.00
78.00	23.52	78.00	6.77	78.00	6.80	73.00	11.69	73.00	4.00
88.00	14.44	88.00	10.75	88.00	0.80	78.00	19.81	83.00	0.00
93.00	28.26	98.00	22.31	98.00	4.00	88.00	6.41	93.00	7.20
98.00	28.67	100.00	17.13	101.00	11.40	93.00	12.83	103.00	4.80
101.00	9.49	103.00	27.88	104.00	8.60	95.00	21.13	113.00	14.00
103.00	46.62	108.00	6.37	108.00	6.97	98.00	22.64	123.00	0.80
113.00	43.32	118.00	5.48	112.00	38.40	102.00	44.15	133.00	16.00
123.00	45.59	128.00	0.39	123.00	6.00	107.00	18.49	143.00	24.00
128.00	11.55	133.00	0.00	128.00	7.60	118.00	3.77	150.00	5.40
133.00	8.25	143.00	0.39	138.00	0.40	125.00	0.37	158.00	7.40
143.00	6.18			148.00	4.40	133.00	3.77	164.00	4.00
148.00	2.88					143.00	4.15		
153.00	6.18					152.00	3.58		
156.00	7.01								

L.P. Depth (cm)	CORE 6 Caco3 (%)	L.P. Depth (cm)	CORE 7 Caco3 (%)	L.P. Depth (cm)	CORE 8 Caco3 (%)	L.P. Depth (cm)	CORE 9 Caco3 (%)	L.P. Depth (cm)
0.00	8.60	0.00	7.01	4.00	8.80	0.00	4.53	3.00
8.00	6.70	8.00	6.81	13.00	8.80	8.00	4.53	13.00
18.00	13.10	13.00	4.81	23.00	6.00	18.00	2.06	23.00
23.00	11.98	28.00	5.21	33.00	10.60	28.00	3.30	33.00
33.00	10.48	38.00	2.80	43.00	7.60	38.00	5.36	43.00
43.00	1.31	48.00	6.41	53.00	8.60	48.00	0.82	53.00
50.00	17.97	58.00	5.21	58.00	20.40	55.00	15.26	68.00
58.00	12.73	68.00	12.43	69.00	6.40	58.00	16.91	73.00
64.00	17.41	78.00	14.03	78.00	6.00	68.00	12.45	78.00
68.00	19.10	83.00	6.01	89.00	5.20	78.00	7.40	88.00
73.00	12.35	93.00	3.20	98.00	4.80	88.00	4.12	98.00
83.00	9.55	103.00	0.00	108.00	11.60	98.00	0.41	108.00
87.00	23.59	113.00	1.77	118.00	20.60	108.00	4.53	118.00
88.00	31.45	123.00	4.41	121.00	40.40	118.00	4.12	128.00
93.00	22.84	133.00	1.80	123.00	30.00	128.00	3.30	138.00
98.00	15.75	143.00	2.20	124.00	6.00	138.00	1.23	148.00
100.00	19.47	153.00	2.60	128.00	6.80	148.00	3.09	158.00
103.00	19.28	163.00	3.00	138.00	6.40	153.00	17.70	168.00
113.00	14.60	173.00	4.81	148.00	4.40	154.00	14.44	178.00
120.00	8.80	183.00	1.00	156.00	8.00	163.00	5.77	188.00
128.00	9.17	193.00	5.21			173.00	2.47	
133.00	7.11	198.00	9.62			183.00	1.44	
143.00	9.17					193.00	0.40	
148.00	2.99					199.00	4.53	
152.00	8.61							

CORE 10 Caco3 (%)	L.P. Depth (cm)	CORE 11 Caco3 (%)	L.P. Depth (cm)	CORE 12 Caco3 (%)	L.P. Depth (cm)	CORE 13 Caco3 (%)	L.P. Depth (cm)	CORE 14 Caco3 (%)	L.P. Depth (cm)
6.40	0.00	12.40	8.00	14.80	0.00	2.47	0.00	8.07	3.00
8.40	8.00	13.20	18.00	13.00	18.00	4.53	37.00	7.33	13.00
8.40	18.00	8.00	28.00	13.20	28.00	4.95	48.00	7.70	23.00
5.20	28.00	9.60	38.00	14.00	38.00	5.77	58.00	8.07	33.00
2.80	38.00	8.00	43.00	12.80	43.00	3.30	63.00	8.07	43.00
6.00	48.00	9.20	58.00	17.40	58.00	1.23	73.00	8.44	53.00
2.00	58.00	8.00	68.00	16.80	68.00	2.47	85.00	9.17	63.00
14.40	67.00	4.00	78.00	40.40	78.00	6.18	93.00	18.34	73.00
12.60	68.00	7.20	83.00	36.00	83.00	2.06	103.00	27.52	78.00
5.40	73.00	7.60	93.00	33.20	93.00	4.12	113.00	8.07	88.00
0.00	83.00	4.40	103.00	16.40	103.00	12.79	128.00	11.74	98.00
4.00	93.00	11.00	108.00	13.20	108.00	20.63	133.00	13.94	103.00
2.00	103.00	12.40	110.00	32.00	110.00	21.45	138.00	12.11	108.00
0.00	113.00	4.80	123.00	7.40	123.00	20.63	143.00	9.54	113.00
0.00	122.00	6.00	133.00	5.80	133.00	14.44	148.00	7.52	118.00
0.80	133.00	59.60	138.00	2.80	138.00	4.53	160.00	10.64	123.00
0.00	138.00	32.00	142.00	11.60	142.00	1.23	168.00		
2.00	143.00	35.60				0.00	178.00		
1.60	152.00	11.20				0.00	188.00		
0.00	160.00	8.40				1.23	198.00		
	166.00	28.40				0.00	208.00		
	170.00	27.60				0.00	218.00		
	176.00	11.20							
	182.00	0.80							
	186.00	5.20							

CORE 15		CORE 16		CORE 17		CORE 18	
L.P. Depth (cm)	Caco3 (%)	L.P. Depth (cm)	Caco3 (%)	L.P. Depth (cm)	Caco3 (%)	L.P. Depth (cm)	Caco3 (%)
0.00	14.00	0.00	1.70	0.00	2.80	0.00	16.33
8.00	5.75	38.00	0.85	20.00	5.20	8.00	7.77
18.00	14.76	48.00	2.76	30.00	6.40	18.00	20.22
28.00	14.17	58.00	1.70	43.00	3.60	28.00	11.27
38.00	18.22	68.00	3.19	53.00	1.20	38.00	5.44
48.00	18.79	78.00	2.97	63.00	2.20	48.00	2.72
58.00	7.67	88.00	9.39	73.00	5.60	58.00	12.44
68.00	13.61	98.00	13.61	83.00	2.80	68.00	12.83
78.00	14.38	108.00	26.80	93.00	8.80	78.00	13.99
83.00	31.64	118.00	11.06	95.00	8.80	88.00	10.88
88.00	26.66	127.00	11.90	98.00	8.00	98.00	11.66
98.00	13.81	137.00	5.50	103.00	11.20	103.00	21.39
108.00	15.53	147.00	14.80	113.00	22.00	108.00	20.60
118.00	9.59	157.00	3.60	123.00	4.40	113.00	26.83
128.00	5.05	167.00	3.40	133.00	5.80	118.00	30.71
138.00	9.91			143.00	3.60	126.00	0.00
148.00	4.86			153.00	2.80	138.00	202.00
158.00	10.69			163.00	6.00	148.00	2.30
168.00	6.22			168.00	8.00	158.00	9.60
178.00	10.10			169.00	17.25	168.00	6.53
183.00	10.69			183.00	15.04	178.00	2.69
				193.00	3.60	188.00	4.80
				203.00	6.41	198.00	6.92
				213.00	4.01	208.00	5.76
				223.00	2.80	218.00	17.30
				228.00	8.82		

CORE 19 CaCO3 (%)	L.P. Depth (cm)	CORE 20 CaCO3 (%)
9.70	3.00	7.09
1.70	13.00	6.30
4.20	23.00	3.94
6.40	33.00	13.59
0.40	43.00	3.94
2.50	53.00	4.34
2.10	63.00	5.91
2.10	73.00	4.13
0.00	83.00	5.12
0.40	93.00	4.72
3.40	103.00	6.50
3.60	113.00	4.13
1.20	123.00	1.97
2.90	133.00	2.36
27.20	143.00	3.54
9.70	148.00	14.18
4.00	153.00	23.83
7.40	158.00	8.07
2.50	168.00	5.31
1.20	178.00	2.36
2.10	188.00	5.12
22.10	198.00	4.72
1.20	208.00	7.28
1.20	218.00	6.10
	228.00	6.10
	238.00	7.09
	248.00	4.72
	258.00	5.51
	268.00	5.91
	278.00	3.54

Depth	.LP1!		LP2		inorganic		X	Depth	LP3		inorganic		X	Depth	LP4		inorganic		X
	L.O.I	Inorganic	L.O.I	Depth	Inorganic	X			L.O.I	Depth	Inorganic	X			L.O.I	Depth	Inorganic	X	
0	21.99	78.01	526	1.00	82.52	445	0.00	16.81	0.00	83.19	498	0.00	20.42	79.58	548				
3	10.31	89.69	534	3.00	82.31	460	4.00	16.92	4.00	83.08	511	8.00	18.30	81.70	518				
8	10.55	89.45	551	8.00	81.88	381	8.00	19.22	8.00	80.78	444	13.00	17.21	82.79	565				
13	10.85	89.15	561	13.00	88.73	561	13.00	20.30	13.00	79.70	391	18.00	17.00	83.00	542				
18	10.49	89.51	469	18.00	90.04	584	18.00	21.09	18.00	78.91	364	24.00	15.96	84.04	643				
23	12.91	87.09	605	23.00	88.82	549	23.00	15.47	23.00	84.53	564	28.00	16.62	83.38	652				
28	13.34	86.66	522	28.00	89.20	541	28.00	15.05	28.00	84.95	552	33.00	14.89	85.11	665				
33	13.12	86.88	452.00	33.00	89.29	533	33.00	11.85	33.00	88.15	554	38.00	13.98	86.02	539				
38	12.55	87.45	492	38.00	90.17	485	38.00	14.17	38.00	85.83	616	44.00	14.09	85.91	535				
43	12.51	87.49	468	43.00	88.13	478	43.00	14.22	43.00	85.78	527	48.00	16.74	83.26	419				
48	12.53	87.47	455	48.00	86.35	547	48.00	16.64	48.00	83.36	467	53.00	15.82	84.18	455				
53	16.38	83.62	357	53.00	87.30	574	53.00	15.44	53.00	84.56	490	58.00	16.82	83.18	437				
58	25.01	74.99	83	58.00	87.98	430	58.00	14.87	58.00	85.13	476	63.00	20.77	79.23	394				
63	24.90	75.10	70	63.00	88.36	559	63.00	16.86	63.00	83.14	482	68.00	25.87	74.13	200				
68	17.45	82.55	126	68.00	87.45	465	68.00	15.48	68.00	84.52	496	73.00	24.16	75.84	210				
73	12.88	87.12	279	73.00	85.93	328	73.00	16.35	73.00	83.65	456	78.00	21.03	78.97	125				
78	24.75	75.25	87	78.00	78.09	171	78.00	20.76	78.00	79.24	468	83.00	17.58	82.42	388				
83	29.11	70.89	30	83.00	67.36	55	83.00	32.36	83.00	67.64	184	88.00	15.80	84.20	433				
88	15.66	84.34	43	88.00	81.21	37	88.00	15.80	88.00	84.20	140	93.00	14.57	85.43	404				
93	13.98	86.02	78	93.00	83.56	42	93.00	48.72	93.00	51.28	23	98.00	18.55	81.45	361				
98	21.94	78.06	26	98.00	85.34	56	98.00	48.35	98.00	51.65	12.5	102.00	28.39	71.61	107				
101	12.23	87.77	133	100.00	87.07	119	101.00	20.18	101.00	79.82	108	104.00	13.12	86.88	306				
103	15.50	84.50	6	103.00	74.15	6.8	104.00	15.82	104.00	84.18	247	108.00	21.19	78.81	51				
108	20.83	79.17	4	104.00	62.39	8.5	108.00	18.01	108.00	81.99	278	104.00	24.50	75.50	22				
113	25.09	74.91	1.5	108.00	70.26	36	112.00	19.49	112.00	80.51	31	107.00	23.22	76.78	38				
118	35.21	64.79	5.1	113.00	73.51	23	115.00	37.35	115.00	62.65	7.7	113.00	24.28	75.72	42				
123	36.55	63.45	9.8	118.00	71.86	30	118.00	15.53	118.00	84.47	322	118.00	23.59	76.41	65				
128	35.15	64.85	8.1	123.00	79.46	72	123.00	19.16	123.00	80.84	399	125.00	20.97	79.03	56				
133	30.30	69.70	8.6	128.00	69.60	47	128.00	26.28	128.00	73.72	143	125.00	14.43	85.57	12				
138	31.93	68.07	10.1	133.00	79.17	104	133.00	32.38	133.00	67.62	10.5	128.00	15.17	84.83	5.22				
143	34.03	65.97	12.6	138.00	78.92	30	138.00	35.33	138.00	64.67	9.7	133.00	16.87	83.13	3.6				
148	26.54	73.46	17.11	143.00	77.14	38	143.00	29.83	143.00	70.17	19	138.00	17.45	82.55	2.4				
153	22.69	77.31	105	148.00	73.02	38.65	149.00	29.77	149.00	70.23	13	143.00	18.35	81.65	3				
158	26.98	73.02	38.65	278.00			278.00		278.00			148.00	17.95	82.05	4.7				
278.00												152.00	19.31	80.69	4.9				
												154.00	21.38	78.62	6.5				
												278.00							

Depth	LP5 L.O.I	Inorganic	X	Depth	LP6 L.O.I.	Inorganic	X	Depth	LP7 L.O.I.	Inorganic	X	Depth	LP8 L.O.I.	Inorganic	X
0.00	20.32	79.68	590	0	15.66	84.34	656	1.00	11.83	88.17	645	4.00	8.49	91.51	499
3.00	20.26	79.74	582	3	13.48	86.52	654	3.00	11.20	88.80	600	8.00	8.84	91.16	524
8.00	18.91	81.09	615	8	14.81	85.19	655	8.00	11.86	88.14	566	13.00	9.42	90.58	544
13.00	17.03	82.97	613	13	13.85	86.15	612	13.00	12.55	87.45	557	18.00	9.55	90.45	579
18.00	16.44	83.56	588	18	19.67	80.33	505	28.00	12.49	87.51	574	23.00	10.58	89.42	594
23.00	15.47	84.53	546	23	15.38	84.62	507	33.00	11.81	88.19	516	28.00	10.03	89.97	584
28.00	14.97	85.03	551	38	18.04	81.96	495	38.00	11.19	88.81	493	33.00	9.85	90.15	556
33.00	14.01	85.99	513	43	16.64	83.36	489	43.00	12.45	87.55	192	38.00	10.05	89.95	583
43.00	15.66	84.34	517	48	16.19	83.81	434	48.00	14.04	85.96	476	43.00	12.60	87.40	369
48.00	17.22	82.78	513	50	31.69	68.31	445	53.00	14.73	85.27	471	48.00	14.41	85.59	339
53.00	15.97	84.03	492	53	31.82	68.18	122	58.00	15.29	84.71	457	53.00	15.48	84.52	306
58.00	21.11	78.89	493	58	29.75	70.25	74	63.00	13.84	86.16	432	58.00	20.80	79.20	129
63.00	15.66	84.34	464	63	18.61	81.39	74	68.00	27.04	72.96	92	63.00	8.99	91.01	575
68.00	16.06	83.94	471	64	19.75	80.25	399	74.00	26.34	73.66	91	69.00	9.59	90.41	566
73.00	17.39	82.61	532	68	16.67	83.33	507	78.00	22.75	77.25	78	73.00	9.89	90.11	599
78.00	17.37	82.63	499	73	15.11	84.89	86	83.00	14.36	85.64	417	78.00	17.35	82.65	527
83.00	17.49	82.51	431	78	12.83	87.17	594	88.00	13.10	86.90	571	83.00	9.65	90.35	507
88.00	19.16	80.84	367	83	13.67	86.33	623	93.00	12.81	87.19	623	89.00	11.20	88.80	532
93.00	22.67	77.33	285	87	11.99	88.01	529	98.00	13.25	86.75	626	93.00	11.16	88.84	498
98.00	24.22	75.78	248	88	19.66	80.34	304	103.00	12.72	87.28	623	98.00	11.35	88.65	493
103.00	19.58	80.42	359	92	16.34	83.66	86	108.00	12.52	87.48	606	103.00	12.99	87.01	521
113.00	15.31	84.69	357	93	25.22	74.78	152	113.00	12.03	87.97	615	108.00	12.12	87.88	528
118.00	13.83	86.17	581	98	19.49	80.51	97	118.00	11.81	88.19	587	113.00	12.15	87.85	535
123.00	15.52	84.48	508	99	7.46	92.54	231	123.00	11.53	88.47	615	118.00	12.59	87.41	301
128.00	17.16	82.84	602	103	22.86	77.14	174	128.00	11.61	88.39	577	120.00	23.15	76.85	51
133.00	15.84	84.16	288	108	38.59	61.41	32	133.00	11.49	88.51	595	121.00	13.01	86.99	95
134.00	17.50	82.50	95	113	33.78	66.22	103	138.00	11.78	88.22	583	122.00	12.55	87.45	172
138.00	18.46	81.54	23	118	24.17	75.83	33	143.00	11.76	88.24	589	123.00	5.67	94.33	329
143.00	24.96	75.04	110	120	4.19	95.81	30	148.00	11.66	88.34	598	124.00	10.37	89.63	211
148.00	25.91	74.09	97	123	5.63	94.37	235	153.00	11.96	88.04	565	128.00	13.91	86.09	226
150.00	18.02	81.98	340	128	5.67	94.33	188	158.00	12.53	87.47	561	133.00	7.88	92.12	57
153.00	24.01	75.99	100	131	6.36	93.64	180	159.00	11.97	88.03	538	138.00	29.10	70.90	209
158.00	20.88	79.32	230	138	14.44	85.56	172	163.00	11.97	88.03	514	141.00	10.13	89.87	21
162.00	16.90	83.10	188	143	12.02	87.98	43	168.00	12.15	87.85	544	148.00	21.88	78.12	13
163.00	12.37	87.63	217	148	16.35	83.65	47	173.00	12.39	87.61	534	153.00	23.74	76.26	64
167.00	10.84	89.16	284	153	6.24	93.76	19	178.00	13.22	86.78	473	156.00	14.15	85.85	65
278.00				156	13.10	86.90	303	183.00	13.22	86.78	470	278.00			
				278.00			91	188.00	12.39	87.61	462				

10.9	193.00	8.43	91.57	504
	198.00	13.40	86.60	398
	278.00			

188.00	24.95	75.05	113	278.00	176	41.81	58.19	9
193.00	24.97	75.03	36		182	32.49	67.51	11
199.00	32.29	67.71	61		186	20.40	79.60	110
278.00				278.00	278.00		20.40	

LP13			LP14			LP15			LP16		
Depth	L.O.I.	Inorganic	X	Depth	L.O.I.	Inorganic	X	Depth	L.O.I.	Inorganic	X
0	12.14	87.86	545	3	11.77	88.23	678	0	10.48	89.52	623
37	11.64	88.36	598	8	11.37	88.63	676	3	11.15	88.85	601
43	11.24	88.76	568	13	11.85	88.15	694	8	10.24	89.76	630
48	11.15	88.85	607	18	11.11	88.89	704	13	10.21	89.79	600
53	11.28	88.72	626	23	12.15	87.85	695	18	10.30	89.70	618
58	10.61	89.39	632	28	10.91	89.09	715	23	11.59	88.41	517
63	10.50	89.50	616	33	10.86	89.14	694	28	11.15	88.85	509
73	10.61	89.39	558	38	10.76	89.24	630	33	11.68	88.32	510
78.00	12.39	87.61	517	43	10.88	89.12	568	38	11.94	88.06	533
88	12.97	87.03	498	48	11.89	88.11	583	44	12.45	87.55	537
93	13.27	86.73	521	53	12.17	87.83	563	48	13.30	86.70	498
99	13.76	86.24	542	58	13.21	86.79	560	53	12.08	87.92	581
103	14.03	85.97	546	63	12.92	87.08	565	58	11.80	88.20	596
108	13.07	86.93	612	68	11.97	88.03	574	63	12.36	87.64	635
113	12.41	87.59	623	73	20.35	79.65	166	68	13.93	86.07	627
118	12.46	87.54	650	78	18.28	81.72	129	73	14.18	85.82	491
128	20.52	79.48	206	83	12.99	87.01	488	78	16.49	83.51	425
133	22.65	77.35	45	88	11.88	88.12	664	83	20.36	79.64	80
138	15.55	84.45	413	93	10.28	89.72	634	88	15.77	84.23	184
143	20.32	79.68	63	98	10.28	89.72	596	93	16.46	83.54	488
148	17.28	82.72	200	103	18.25	81.75	142	98	11.58	88.42	649
154	15.16	84.84	313	108	14.53	85.47	187	103	9.92	90.08	640
160	14.18	85.82	651	113	14.06	85.94	311	108	9.75	90.25	642
163	12.05	87.95	665	118	11.89	88.11	255	113	10.21	89.79	618
168	11.89	88.11	627	123	23.24	76.76	100	118	10.52	89.48	585
173	11.88	88.12	598	278.00				124	10.82	89.18	585
178	12.01	87.99	555					128	10.70	89.30	567
173	12.47	87.53	547					133	10.43	89.57	562
188	12.71	87.29	543					138	10.93	89.07	545
193	12.15	87.85	556					143	10.88	89.12	599
198	12.93	87.07	451					148	11.24	88.76	632
203	12.76	87.24	597					153	11.68	88.32	592
208	39.25	60.75	562					158	10.95	89.05	545
213	12.24	87.76	514					163	11.05	88.95	570
218	12.14	87.86	580					168	11.47	88.53	564
278.00								173	10.83	89.17	577
								178	11.14	88.86	602
								183	14.47	85.53	449

188	31.71	68.29	730	198.00	7.75	92.25	92.00	213	12.34	87.66	184	213	11.74	88.26	715
193	25.05	74.95	685	203.00	17.71	82.29	133.00	215	20.22	79.78	130	218	11.52	88.48	642
198	28.54	71.46	700	208.00	11.41	88.59	69.00	223	22.62	77.38	462	223	11.22	88.78	521
203	27.59	72.41	755	213.00	12.00	88.00	73.00	233	14.84	85.16	217	243	12.46	87.54	616
208	21.68	78.32	693	218.00	11.06	88.94	71.00	236	20.72	79.28	234	248	11.46	88.54	645
212	22.06	77.94	308	223.00	12.10	87.90	54.00	278				253	12.19	87.81	617
218	25.15	74.85	77	228.00	11.08	88.92	110.00					258	11.13	88.87	639
223			121	278.00								263	11.50	88.50	625
278.00												268	10.65	89.35	570
												273	11.41	88.59	757
												278	11.50	88.50	655
													12.03	87.97	
													12.44	87.56	

0.000	16.330	24.42	.8	10.35	0.020	.21	2.9	.15	.405	2.1	21.06	.23	37.39	25.3	30.74
8.000	7.770	50.84	.75	33	0.020	.23	2.125	.07	.97	6.05	10.07	.58	37.39	24.02	13.625
18.000	20.220	21.02	.6	10.25	0.010	.235	1.8	.075	.4	1.75	29.07	.18	29.52	23.01	31.98
28.000	11.270	26.14	.5	12.35	0.015	.185	1.775	.065	.215	2.4	10.07	.21	35.42	25.81	29.99
38.000	5.440	24.76	1.05	11.15	0.010	.165	1.55	.055	.135	2.45	11.9	.19	41.33	26.82	30.3
48.000	2.720	41.76	.8	26.4	0.020	.165	1.85	.05	.22	4.5	11.67	.45	41.33	24.02	21.83
58.000	12.440	32.88	.65	14.7	0.000	.165	1.45	.08	.14	3.5	26.32	.33	39.36	8.17	29.05
68.000	12.830	40.46	.7	22.65	0.000	.18	1.58	.045	.19	3.95	15.33	.45	25.58	24.28	22.06
78.000	13.990	21.52	.65	9.35	0.005	.145	1.58	.06	.155	4.45	21.96	.21	49.29	24.02	32.06
88.000	10.880	48.28	.85	27	0.005	.155	1.25	.05	.325	5.8	9.38	.61	47.23	25.3	16.02
98.000	11.860	64.22	.8	48.05	0.015	.18	1.425	.06	.735	7.65	24.26	.69	27.55	24.53	6.53
103.000	21.390	46.66	.75	17.8	0.010	.165	1.58	.05	.18	5.85	7.55	.55	28	24.55	18.42
108.000	20.600	33.82	.65	15.5	0.000	.195	1.56	.07	.165	3.1	18.77	.4	25.58	25.08	28.17
113.000	26.830	30.28	.55	13.5	0.000	.215	1.42	.07	.315	3	16.71	.4	27.55	21.98	27.46
118.000	30.710	45.86	1.25	21.15	0.035	.305	1.6	.095	1.035	4.9	15.56	.54	27.55	30.51	17.07
126.000	0.000	33.16	1.4	16.95	0.035	.285	1.58	.11	.845	2.65	25.41	.42	34.44	23.76	18.69
138.000	202.000	22.06	.5	7.8	0.030	.225	1.5	.09	.495	1.5	20.16	.28	34.44	23.76	32.83
148.000	2.300	25.86	.65	10.25	0.030	.225	1.55	.075	.41	2.2	9.61	.33	31.49	29	29.7
158.000	9.600	41.98	.5	20.5	0.030	.225	1.65	.06	.295	4.5	12.31	.55	37.39	32.2	10.6
168.000	6.530	39.42	.4	19.35	0.025	.275	1.86	.1	.815	4.25	23.8	.55	44.28	26.58	15
178.000	2.690	36.84	.8	20.7	0.025	.41	1.5	.17	3.55	3.9	21.06	.67	54.12	28.88	14.52
188.000	4.800	32.62	.8	17.56	0.025	.405	1.7	.195	4.525	2.8	24.03	.6	45.26	31.18	17.09
198.000	6.920	27.84	1	15.5	0.040	.465	1.58	.25	6.355	2.25	20.83	.57	13.77	26.06	18.08
208.000	5.760	35.94	.8	22.4	0.035	.34	1.76	.12	1.875	3.35	18.31	.7	27.55	26.06	15
218.000	17.300	24.08	.55	11.45	0.030	.23	1.58	.09	.64	2.45	21.97	.5	41.33	24.53	12.47
		29.2	.5	21.05	0.030	.225	1.95	.095	.75	3.15	12.31	.63	56.09	27.09	22.12
		22.6	.7	14.5	0.000	.45	1.9	.175	1.875	1.6	20.41	.64	70.99	36.54	20.06
		18.12	.6	10.9	0.020	.775	1.55	.425	10.475	1.5	16.48	.8	65.99	27.6	19.65
		13.9	.7	8.95	0.020	1.25	.88	1.05	37.475	1.2	12.82	2.92	42.31	32.2	13.38
		19.74	1.4	8.3	0.020	1.35	.75	.83	30.725	1.1	14.88	.47	52.15	30.67	5.61
		21.16	1.3	11.85	0.035	.625	1.06	.37	11.1	1.45	10.98	.47	38.37	28.67	10.74
		40.5	.75	24.1	0.015	.215	1.6	.09	.98	3.6	13.04	.57	41.33	28.37	12.47
		34.42	1.05	11.4	0.025	.305	1.4	.17	4.845	3.25	24.26	.5	32.47	27	12.92
		30.52	.4	15.2	0.035	.285	1.33	.08	.8	3.1	12.13	.47	30.5	27.34	22.8
		30.92	.65	12.6	0.020	.295	.96	.12	2.285	3.45	19.39	.54	24.6	28.11	23.78
		29.04	.8	12.8	0.015	.225	1.25	.075	.605	2.4	12.82	.45	40.34	28.37	20.95
		30.5	.85	7.95	0.020	.205	1.2	.055	.595	1.25	14.88	.66	47.23	27.6	29.73
		30.92	1.5	21.6	0.020	.22	1.43	.065	.455	3.1	21.06	.66	35.42	27.6	19.69

30.4	10.5	10.5	0.010	3.725	7.45	.085	.15	2.9	9.84	2.64	27.55	30.41	1.16
23.4	4	4	0.015	3.75	5.075	.085	2.75	1.93	9.61	2.44	22.63	30.92	.954
17.4	5.75	5.75	0.000	4.4425	14	.085	1.075	1.99	8.01	2.23	61	30.67	.599
17.4	2	2	0.000	10.6	1.175	.585	48.6	1.74	9.61	3.46	53.14	31.43	.915
13.8	3	3	0.000	10.6	.9	.735	89	1.34	10.76	5.08	62.98	39.61	.685
19.6	3.5	3.5	0.010	.95	1.825	.555	31.2	1.63	12.36	3.05	66.98	43.96	.816
22	11	11	0.005	1.15	2.05	.165	1.475	2.22	15.33	2.85	66.98	36.8	.5515
21.2	13	13	0.000	1.025	1.2	.225	7.17	1.58	19.23	3.46	66.91	43.7	.9612
13.6	10.25	10.25	0.000	1.5	1.95	.26	6.5	1.52	13.04	3.25	53.14	38.08	.261

48.95	2.275	6.3	0.096
41.15	2.475	3.8	0.048
68.65	2.825	7.8	0.127
58.2	3.275	7.55	0.068
49.15	3.975	7.45	0.115
38.95	2.925	6.35	0.044
49.1	3	7.1	0.049
55.15	3.175	6.15	0.011
42.1	3.7	5	0.026
56.75	2.65	8.3	0.074
33	2.15	3.4	0.074
56.7	2.725	4.6	
64.35	2.8	6.95	
65.3	2.35	6.35	
51.05	2.7	4.8	0.026
36.45	2.05	4.7	0.020
61.8	3.325	8.4	0.085
55.05	3.175	7.4	0.059
24.55	1.475		0.008
30.55	1.75	3.6	0.036
44.85	2.25	4.75	0.021
36.45	2.025	4.9	0.045
27.75	1.6	3.8	0.031
34.8	1.925	3.4	0.040
43.25	1.325	4.85	0.063
41	2.925	5.4	0.066
34.35	2.325	4.6	0.065
23.75	1.55	3	0.041
11.55	1.325	1.25	0.020
22.45	1.175	2.65	0.025
16.85	1.3	2.75	0.037
30.25	1.275	3.45	0.030
41	2.25	4.6	0.072
50.05	2.225	5.65	0.051
47.35	2.35	4.6	0.051
36.85	1.5	4.2	0.033
42.15	2.675	3	0.072
35.55	2.2	1.62	0.042

95	8.57	0.063
100	9.08	0.081
72.5	7.055	0.060
30.75	2.665	0.038
23.75	1.92	0.077
24	2.06	0.042
27.5	2.98	0.076
21	2.08	0.048
21.75	2.41	0.182

0.000	24.260	13.400	2.440	10.000	16.570	0.675	0.699	1.200	0.575	2.440	0.030	0.005	0.000	45.500
12.000	31.500	18.500	2.860	4.500	19.190	2.375	0.608	0.420	0.510	2.850	0.032	0.015	12.000	55.300
23.000	27.480	13.750	3.340	18.000	21.500	2.725	0.807	3.670	0.750	3.050	0.032	0.010	23.000	66.420
32.000	21.160	21.750	2.640	21.000	22.960	2.375	0.808	3.270	1.070	3.250	0.028	0.010	32.000	71.340
42.000	23.860	20.750	3.050	17.000	18.930	2.400	0.862	2.700	1.250	2.850	0.032	0.010	52.000	64.190
52.000	119.720	13.250	2.820	12.500	21.780	2.550	0.794	1.170	0.770	3.250	0.029	0.010	62.000	57.910
62.000	17.840	14.250	1.700	14.000	17.040	2.920	0.909	8.570	1.500	3.460	0.028	0.010	72.000	44.280
72.000	10.360	5.750	0.645	23.000	19.410	3.300	1.476	65.200	4.425	3.660	0.021	0.000	77.000	36.900
77.000	21.240	19.250	2.795	10.000	13.450	4.470	0.820	2.870	0.970	3.050	0.023	0.005	87.000	88.560
87.000	14.720	8.750	1.150	23.000	22.720	3.250	1.320	2.800	2.230	2.850	0.030	0.005	97.000	76.260
97.000	11.700	7.220	1.300	22.500	19.410	1.900	1.760	2.020	3.950	3.050	0.021	0.000	107.000	61.500
107.000	12.060	5.250	1.080	30.300	18.700	1.620	1.840	21.600	3.450	2.640	0.015	0.000	127.000	68.880
117.000	20.400	15.000	1.130	33.500	12.780	2.200	1.870	50.600	3.750	2.840	0.021	0.000	137.000	76.250
127.000	23.760	10.500	2.860	9.000	16.330	1.800	1.680	51.200	0.550	3.050	0.032	0.005	147.000	75.030
137.000	16.680	10.750	4.700	5.500	11.360	2.020	0.830	45.400	0.475	3.050	0.038	0.000	157.000	93.480
147.000	16.160	6.750	2.490	8.000	18.930	3.900	0.750	0.920	0.775	2.850	0.029	0.000	177.000	56.580
157.000	15.240	3.750	2.610	7.500	15.380	3.800	0.940	0.650	0.600	3.050	0.042	0.005	191.000	99.630
177.000	3.400	11.750	1.090	21.500	15.620	3.620	0.860	1.800	3.000	1.420	0.020	0.010	200.000	89.790
191.000	9.040	6.000	0.605	22.000	14.710	2.850	1.190	182.200	7.470	0.930	0.013	0.010	217.000	111.930
200.000	5.120	7.000	2.280	24.000	12.310	1.970	0.610	10.475	1.500	1.070	0.021	0.000	225.000	63.960
217.000	4.400	4.750	2.040	11.500	18.700	1.620	0.760	34.420	2.200	0.400	0.025	0.000	235.000	51.660
225.000	3.200	2.250	1.570	10.500	14.640	2.020	0.290	6.000	1.025	0.400	0.023	0.000	245.000	50.530
235.000		3.000	0.660	13.500	13.250	1.900	0.230	8.050	0.825	0.800	0.013	0.000	255.000	126.700
145.000		6.250	0.120	16.000	5.440	2.100	0.700	115.400	5.475	0.800	0.015	0.000	267.000	68.380
255.000		5.000	0.265	19.000	11.830	3.550	0.800	113.000	5.525	1.020	0.015	0.005	278.000	134.080
267.000		10.000	0.695	5.000	13.490	1.750	0.220	1.475	0.550	0.800	0.016	0.000	288.000	130.390
278.000		9.000	0.950	18.000	16.570	1.650	0.430	26.800	2.453	1.020	0.012	0.000	298.000	132.850
288.000		7.750	1.015	5.000	11.830	2.670	0.200	1.150	0.550	1.300	0.027	0.000	308.000	
298.000		7.000	0.765	3.500	16.330	2.125	0.340	0.975	0.500	0.930	0.024	0.000	316.000	
308.000		4.500	0.690	3.500	15.150	2.225	0.230	0.900	0.475	3.260	0.025	0.000	336.000	
316.000			0.650	5.500	8.200	1.625	0.080	0.900	0.475	1.960	0.031	0.000		
336.000			0.530	4.000	8.900	0.700	0.340	1.350	0.500	0.800				

0.000	34.150	27.950	5.515	5.600	0.168	0.785
12.000	30.550	20.250	4.867	0.475	0.000	0.000
23.000	40.280	11.000	3.005	0.572	0.000	0.000
32.000	34.450	9.700	2.225	0.275	0.000	0.000
42.000	31.000	15.250	3.815	0.375	0.000	0.000
62.000	39.390	9.400	2.620	0.200	0.000	0.000
72.000	36.110	22.800	1.370	0.625	0.000	0.000
77.000	22.122	11.400	3.060	0.750	0.000	0.000
87.000	35.180	6.000	1.420	0.400	0.000	0.000
97.000	24.070	4.300	1.210	0.250	0.000	0.000
107.000	18.050	3.300	0.805	0.525	0.000	0.000
117.000	11.110	8.500	2.295	0.550	0.000	0.000
127.000	26.920	23.750	6.400	0.575	0.016	0.000
137.000	31.000	20.900	5.050	0.300	0.010	0.000
147.000	36.950	11.900	2.875	0.450	0.000	0.000
157.000	34.250	16.950	4.000	0.375	0.005	0.000
177.000	39.350	4.500	1.200	0.675	0.000	0.000
191.000	18.050	3.250	0.720	0.300	0.011	0.240
200.000	14.580	4.600	0.970	0.900	0.000	0.000
217.000	18.050	8.150	1.805	2.400	0.014	0.000
225.000	31.940	7.700	1.135	9.400	0.036	0.120
235.000	39.880	19.650	2.930	0.200	0.259	1.595
245.000	32.400	1.800	0.395	0.075	0.000	0.080
255.000	14.810	1.000	0.090	0.080	0.000	0.000
267.000	5.090	5.050	0.965	3.800	0.019	0.010
278.000	29.160	7.950	1.140	0.925	0.080	0.565
298.000	32.870	4.200	0.770	2.600	0.017	0.060
308.000	47.220	6.250	0.945	1.125	0.060	0.310
316.000	33.330	6.750	0.885	13.000	0.030	0.280
936.000	29.620	20.500	2.450	0.125	0.314	1.905

3.00	22.56	0.85	2.20	0.73	9.75	0.75	10.41	1.23	3.95	1.60	0.03	51.66	73.50	6.81	29.10
13.00	23.50	1.33	3.40	0.66	12.75	0.93	17.04	0.81	2.95	1.27	0.03	49.20	69.50	6.05	26.45
23.00	19.82	4.48	3.32	0.94	7.50	1.28	10.41	0.80	4.01	0.75	0.03	73.80	59.20	4.66	24.75
33.00	21.22	2.30	2.75	0.95	14.50	1.18	18.46	0.70	2.25	0.67	0.03	54.12	52.50	4.82	17.20
43.00	18.48	0.68	2.40	0.81	9.00	0.63	11.60	0.70	3.43	0.60	0.03	77.49	35.00	2.38	8.85
53.00	15.10	0.90	2.57	0.65	13.00	0.80	14.20	1.30	2.84	0.87	0.04	91.02	16.25	1.38	5.80
58.00	17.26	4.55	1.95	0.94	12.75	1.43	15.51	1.63	2.36	0.92	0.03	88.56	60.25	4.17	15.90
68.00	11.38	37.00	2.07	1.18	5.75	3.43	10.41	1.02	1.80	1.05	0.02	66.42	52.50	5.06	22.90
78.00	15.62	21.40	1.82	1.31	6.00	3.63	12.31	1.63	2.31	1.10	0.02	52.89	34.00	3.28	10.60
88.00	15.68	11.15	2.25	1.00	8.50	1.68	10.17	1.63	2.91	0.90	0.03	46.77	59.00	3.62	16.10
98.00	22.76	0.65	1.87	0.74	17.00	0.75	17.51	0.80	2.98	0.87	0.03	44.28	67.00	5.57	20.40
108.00	19.10	0.50	2.25	0.52	10.75	0.50	13.73	1.42	3.15	0.65	0.03	50.53	65.75	5.46	20.55
118.00	15.04	0.83	1.45	0.54	5.50	0.53	8.04	1.57	3.37	0.85	0.03	63.96	62.50	5.55	26.60
128.00	21.50	1.03	2.15	0.70	18.75	0.88	20.59	1.63	2.84	0.72	0.03	65.19	56.25	5.82	19.15
138.00	21.40	0.78	2.65	0.65	16.25	0.85	17.28	1.30	3.21	0.70	0.04	61.50	60.50	5.74	19.17
148.00	18.70	0.03	2.52	0.68	11.75	0.38	12.31	1.71	3.88	0.58	0.04	71.34	50.00	3.70	14.55
158.00	19.34	0.80	1.93	0.72	12.00	0.38	11.83	1.22	4.20	0.77	0.04	78.34	58.25	4.53	17.75
168.00	12.12	3.95	1.53	0.51	9.25	1.08	18.22	1.22	1.57	1.05	0.02	91.02	11.25	0.87	3.10
178.00	19.74	0.83	2.10	0.64	22.25	0.83	22.72	0.80	2.57	0.92	0.04	103.32	32.50	3.15	8.35
191.00	8.82	0.83	1.65	0.35	10.75	0.58	15.62	1.30	1.47	2.50	0.03	104.55	29.25	2.45	8.35

29.16
29.62
30.69
31.94
33.79
29.16
31.01
30.55
34.25
31.01
30.55
30.55
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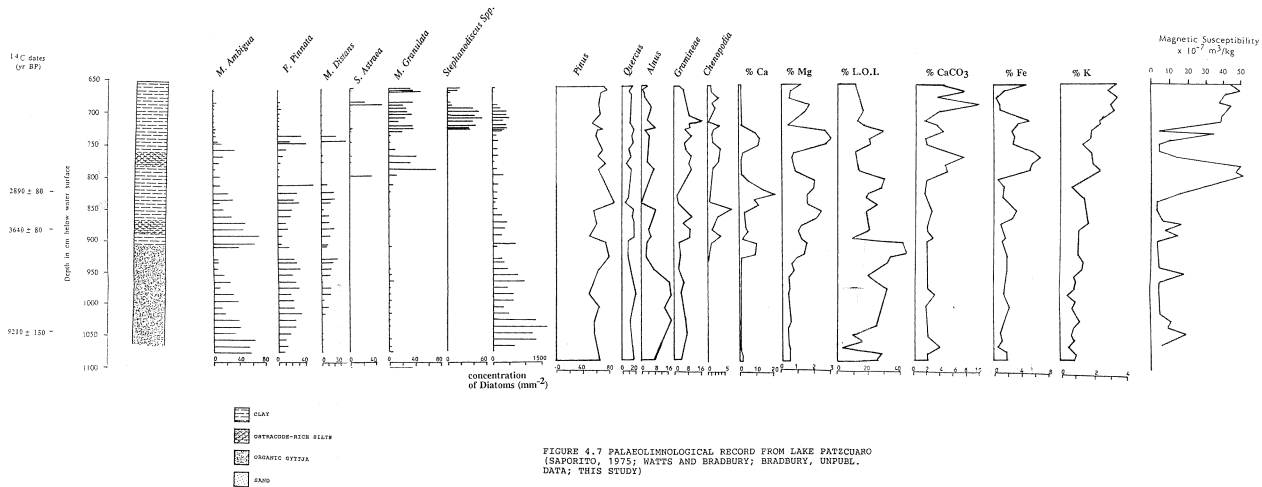
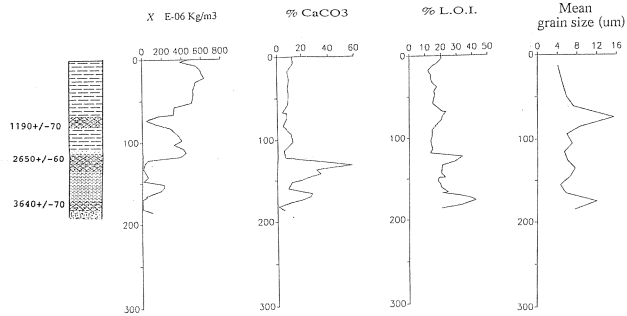
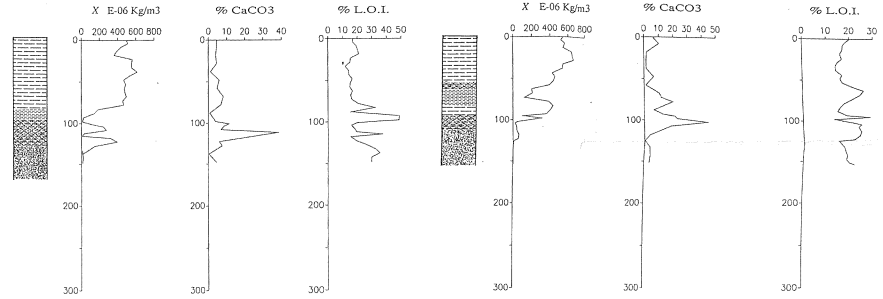


FIGURE 4.7 PALAEO-LIMNOLOGICAL RECORD FROM LAKE PATZCUARO (SAFORIO, 1975; WATTS AND BRADBURY; BRADBURY, UNPUBL. DATA; THIS STUDY)

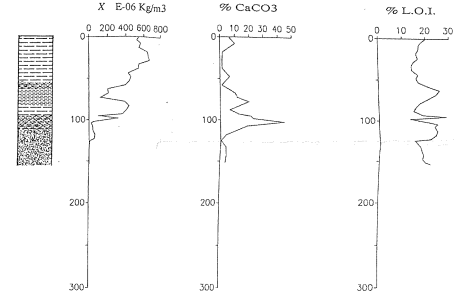
LAKE PATZCUARO 11



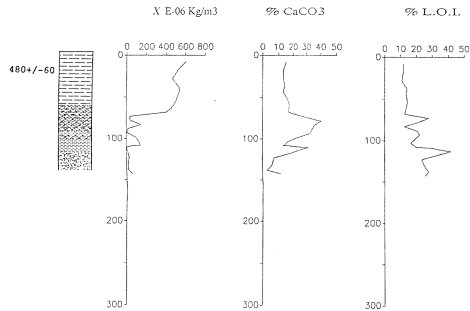
LAKE PATZCUARO 3



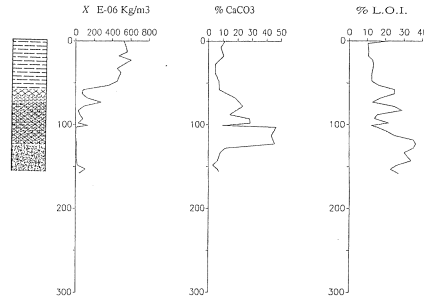
LAKE PATZCUARO 4



LAKE PATZCUARO 12



LAKE PATZCUARO 1



LAKE PATZCUARO 2

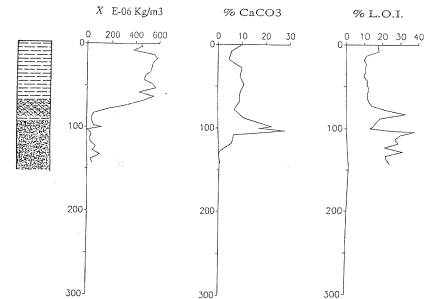
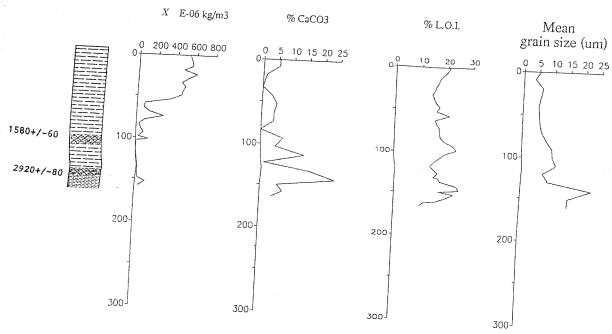
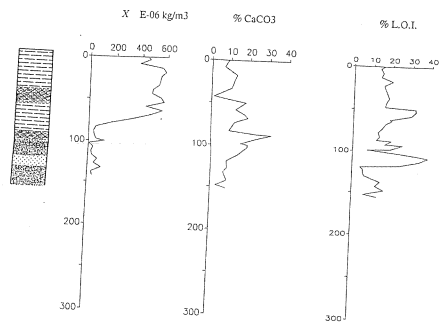


FIGURE 8.2. THE STRATIGRAPHY AND RESULTS OF X, CaCO₃, L.O.I. AND MEAN GRAIN SIZE FROM THE CORE SITES IN THE SOUTHERN BASIN.

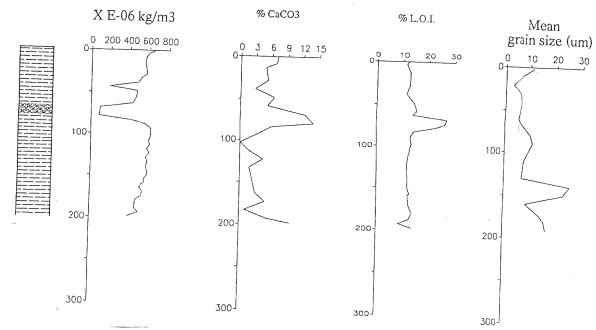
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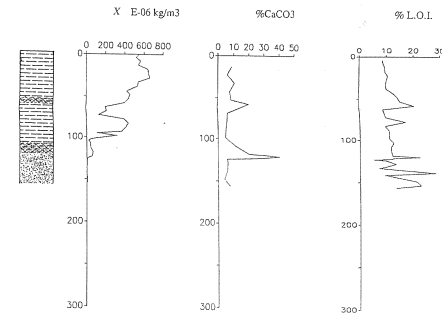
LAKE PATZCUARO 6



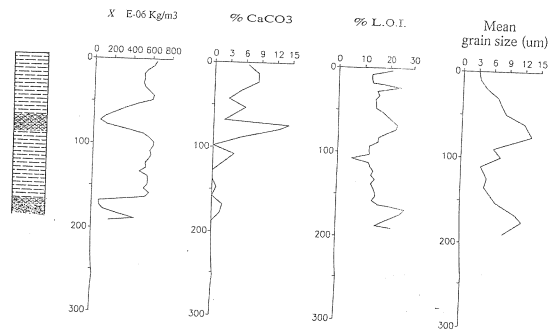
LAKE PATZCUARO 7



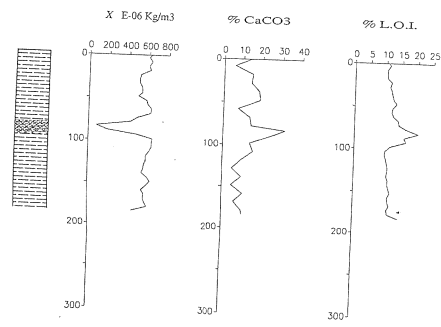
LAKE PATZCUARO 8



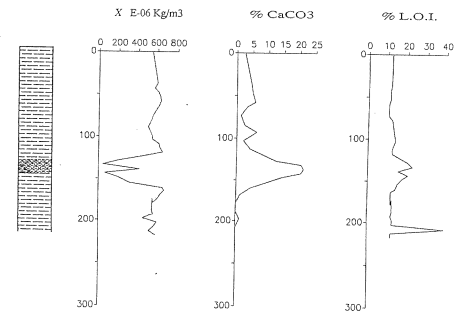
LAKE PATZCUARO 10



LAKE PATZCUARO 15



LAKE PATZCUARO 13



LAKE PATZCUARO 9

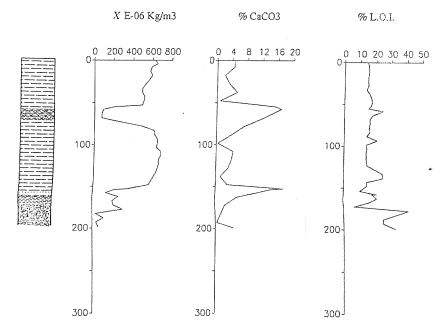
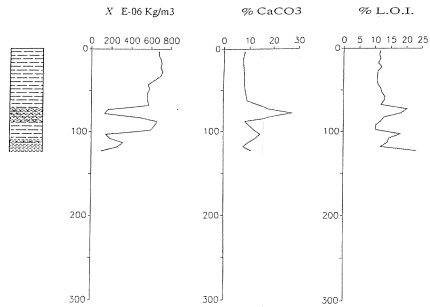
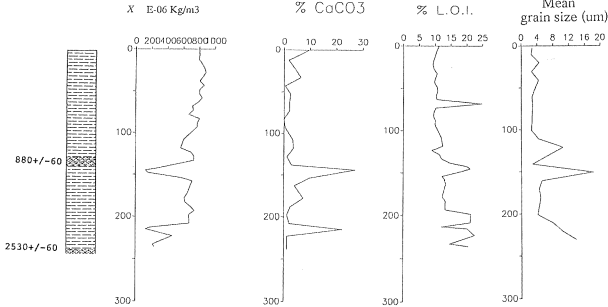


FIGURE 2.3. THE STRATIGRAPHY AND RESULTS OF X, CaCO₃, L.O.I., AND MEAN GRAIN SIZE FROM THE CORE SITES IN THE CENTRAL BASIN.

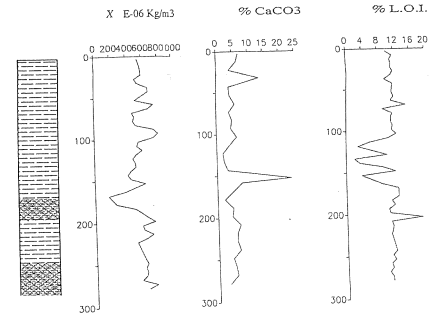
LAKE PATZCUARO 14



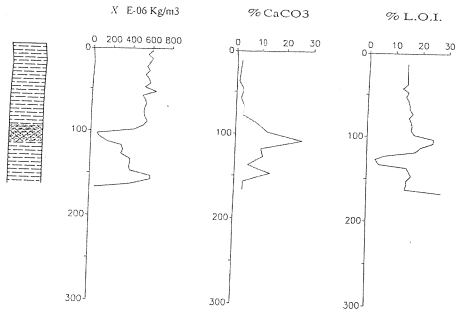
LAKE PATZCUARO 19



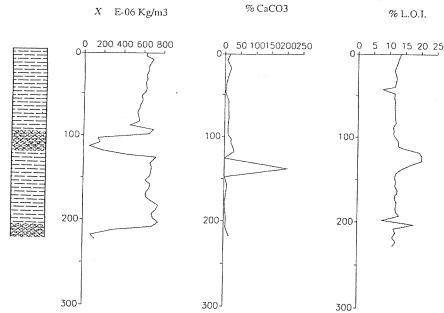
LAKE PATZCUARO 20



LAKE PATZCUARO 16



LAKE PATZCUARO 18



LAKE PATZCUARO 17

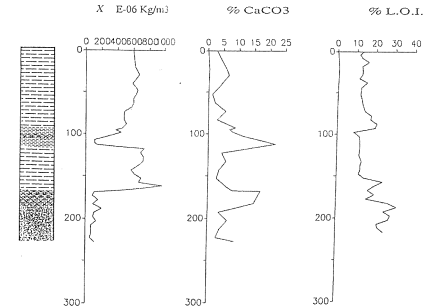


FIGURE 8.4. THE STRATIGRAPHY AND RESULTS OF X, CaCO3, L.O.I. AND MEAN GRAIN SIZE FROM THE CORE SITES IN THE NORTHERN BASIN.

LAKE PATZCUARO 11

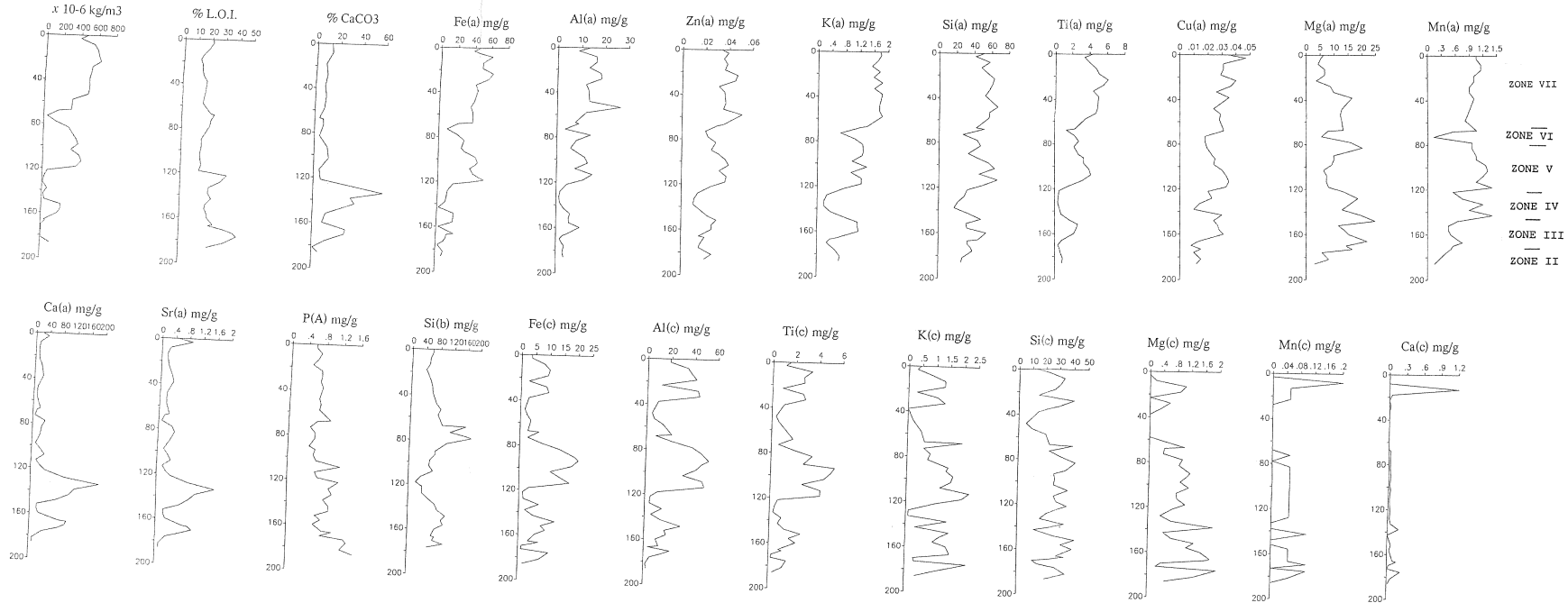


FIGURE 9.1 DOWN-PROFILE CHANGES IN THE SEDIMENT CHEMISTRY FROM LP11

THE MASTERCORE

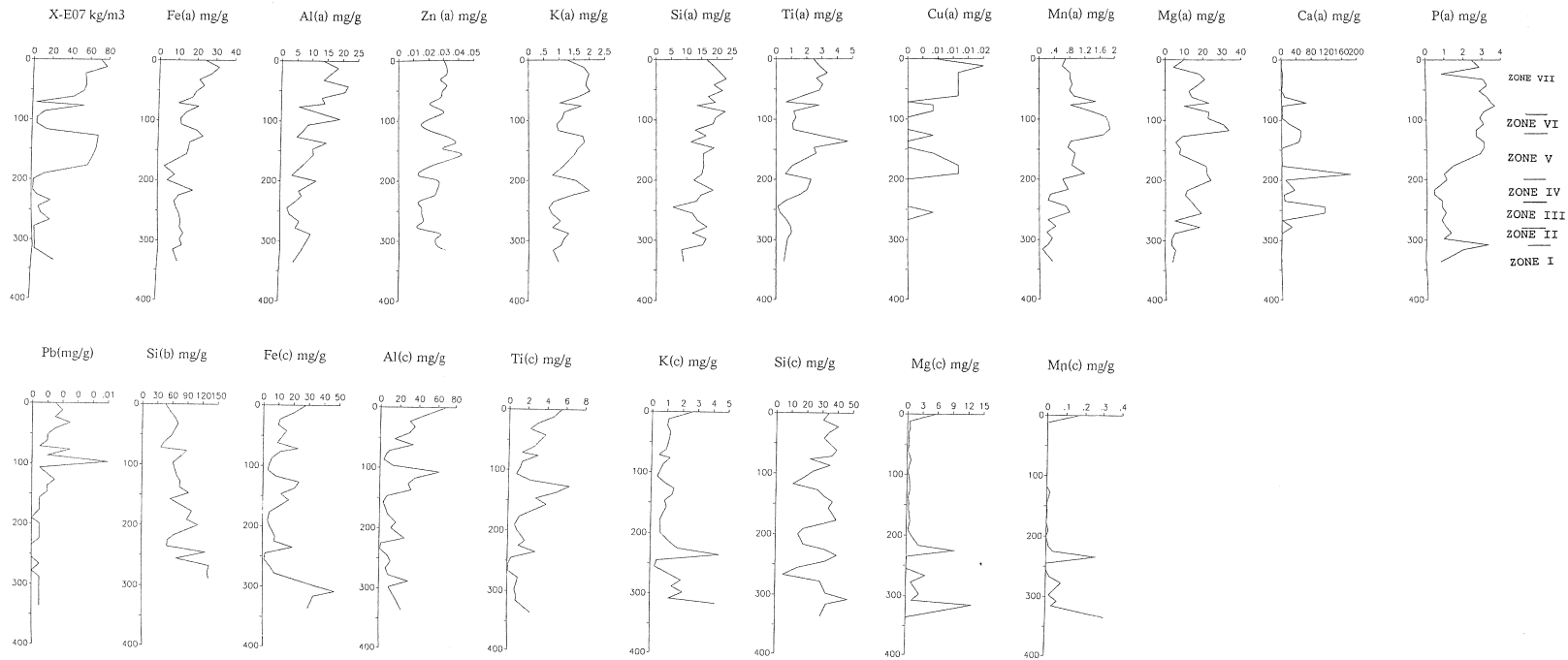


FIGURE 9.5 DOWN-PROFILE CHANGES IN THE SEDIMENT CHEMISTRY FROM THE MASTERCORE

LAKE PATZCUARO 19

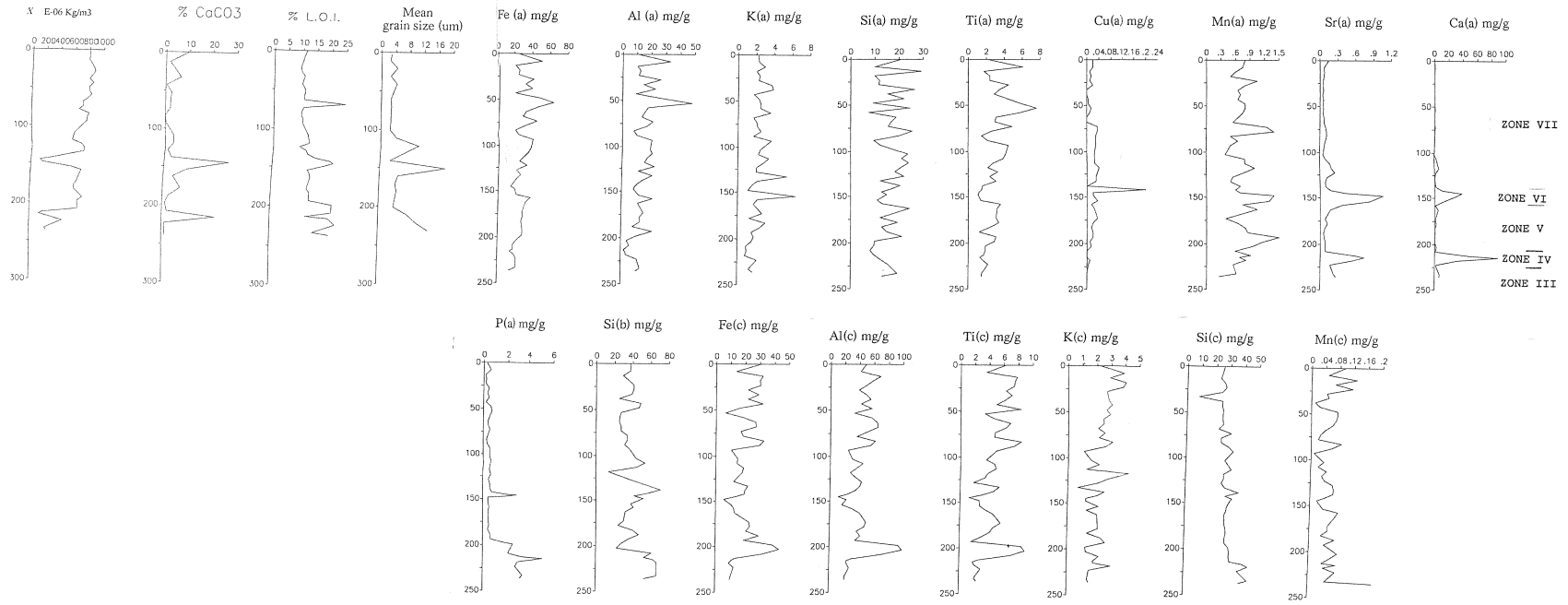


FIGURE 9.13 DOWN-PROFILE CHANGES IN THE SEDIMENT CHEMISTRY FROM LP19

LAKE PATZCUARO 19

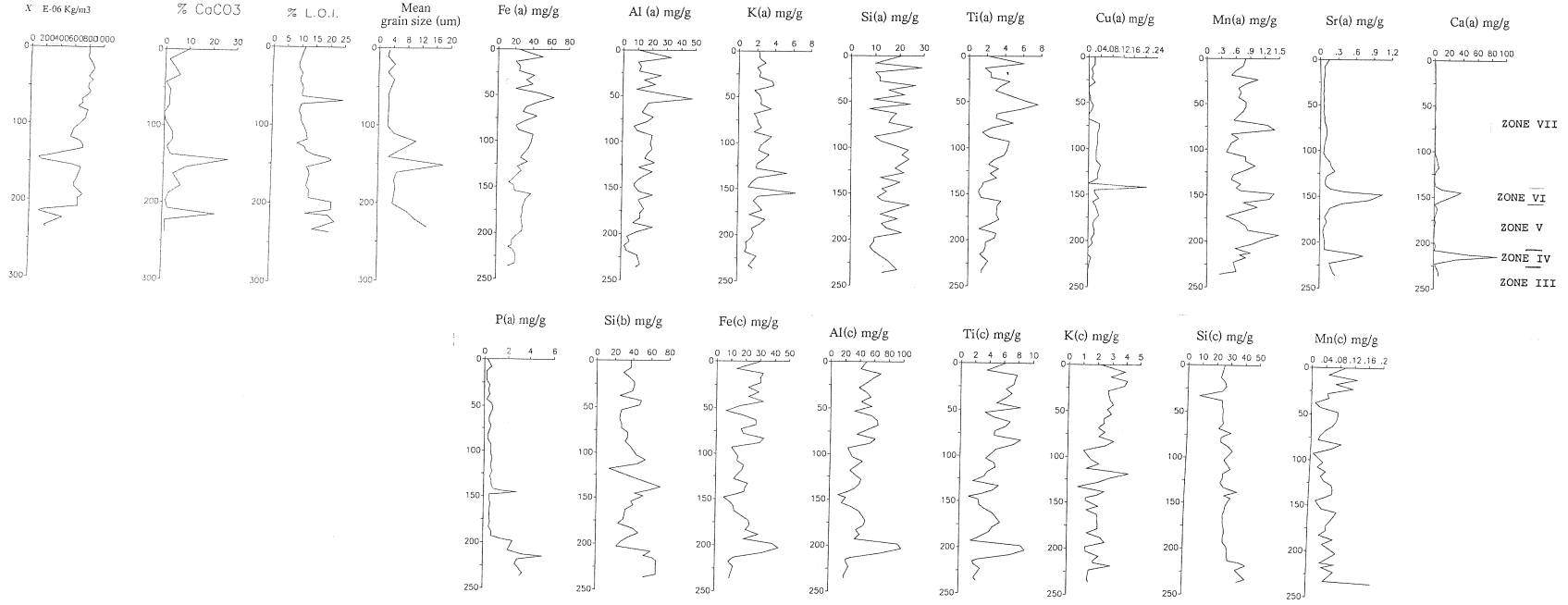


FIGURE 9.13 DOWN-PROFILE CHANGES IN THE SEDIMENT CHEMISTRY FROM LP19