

Appendix B

Set of Data from Deep Marine Channels

B.1 Introduction

In Section 6.3, a reservoir formed in deep-marine settings was analysed. This reservoir contains deposits of deep-marine meandering channels. As discussed in section 6.3, although the geometry of the deep-marine channels is very similar to the geometry of meandering fluvial channels, their origin and dimensions have some differences.

It was necessary to obtain a separated set of meandering channels data, in this case associated to deep-marine channel deposits. The data used in Section 6.3 to build “intelligent” geological prior information came from published work on outcrop and seismic description of deep-marine channels. All these data is arranged in this Appendix. The second section of this Appendix describes the geomorphic parameters of meandering deep-marine channels and explains the abbreviations assigned for each geomorphic parameter.

Just like in Appendix A, the third section is the table that presents the geomorphic parameters used in this thesis for the description of deep-marine channels and the sources where these data points come from. A total of 675 data points were used to model prior information and to build the One-Class SVM model that finds relationships among these geomorphic parameters.

B.2 Geomorphic Parameters

The geomorphic parameters used in this thesis were described in Chapter 6, the table showed in this Appendix presents the following parameters:

No. Number of identification of the data-point

Location: name of the channel location

L: Meander Wavelength, measured in meters (m)

A: Meander Amplitude, measured in meters (m)

w: Channel Width, measured in meters (m)

T: Channel Thickness, measured in meters (m)

w: Channel Width, measured in meters (m)

Source: Name of the author and date of the publication.

B.3 Table

<i>no.</i>	<i>Location</i>	<i>Wavelength</i>	<i>Amplitude</i>	<i>Thickness</i>	<i>Width</i>	<i>Source</i>
1	Amazon Channel	7300	2300	60	450	Pirmez and Imran, 2003
2	Amazon Channel	3200	2400	90	500	Pirmez and Imran, 2003
3	Amazon Channel	4500	2800	100	590	Pirmez and Imran, 2003
4	Repert inlet Channel	500	110	30	50	Pirmez and Imran, 2003
5	Repert inlet Channel	500	120	25	56	Pirmez and Imran, 2003
6	Repert inlet Channel	400	130	60	65	Pirmez and Imran, 2003
7	Repert inlet Channel	300	140	25	66	Pirmez and Imran, 2003
8	Amazon Channel	2100	1300	150	820	Pirmez and Imran, 2003
9	Amazon Channel	2300	400	120	1300	Pirmez and Imran, 2003
10	Amazon Channel	3600	400	110	1900	Pirmez and Imran, 2003
11	Amazon Channel	3400	900	98	3000	Pirmez and Imran, 2003
12	Amazon Channel	2900	400	125	3300	Pirmez and Imran, 2003
13	Amazon Channel	6500	4200	136	1300	Pirmez and Imran, 2003
14	Amazon Channel	5400	4200	140	1500	Pirmez and Imran, 2003
15	Amazon Channel	2100	3500	124	1800	Pirmez and Imran, 2003
16	Amazon Channel	2800	2100	168	2400	Pirmez and Imran, 2003
17	Amazon Channel	3500	2200	154	3000	Pirmez and Imran, 2003
18	Amazon Channel	1500	1500	120	820	Pirmez and Imran, 2003
19	Amazon Channel	3000	500	157	1300	Pirmez and Imran, 2003
20	Amazon Channel	4000	530	126	1400	Pirmez and Imran, 2003
21	Amazon Channel	5000	510	148	1500	Pirmez and Imran, 2003
22	Amazon Channel	6000	500	98	1330	Pirmez and Imran, 2003
23	Amazon Channel	7000	520	57	1700	Pirmez and Imran, 2003
24	Amazon Channel	3000	800	124	1330	Pirmez and Imran, 2003
25	Amazon Channel	2500	900	76	1230	Pirmez and Imran, 2003
26	Amazon Channel	2300	970	98	1400	Pirmez and Imran, 2003
27	Amazon Channel	2000	950	125	1700	Pirmez and Imran, 2003
28	Amazon Channel	1700	940	112	2000	Pirmez and Imran, 2003
29	Amazon Channel	3800	980	158	2500	Pirmez and Imran, 2003
30	Amazon Channel	4300	990	198	2700	Pirmez and Imran, 2003
31	Amazon Channel	6500	1900	138	2600	Pirmez and Imran, 2003
32	Amazon Channel	3500	1750	168	2710	Pirmez and Imran, 2003
33	Amazon Channel	2300	1600	157	2690	Pirmez and Imran, 2003
34	Amazon Channel	8000	900	147	2680	Pirmez and Imran, 2003
35	Amazon Channel	6500	1200	110	2650	Pirmez and Imran, 2003
36	Amazon Channel	2100	1700	125	2000	Pirmez and Imran, 2003
37	Amazon Channel	9700	6000	187	4300	Pirmez and Imran, 2003
38	Beacon Channel Complex	853	128	5	65	Pyles <i>et al.</i> , 2010
39	Beacon Channel Complex	853	149	12	103	Pyles <i>et al.</i> , 2010

Appendix B

<i>no.</i>	<i>Location</i>	<i>Wavelength</i>	<i>Amplitude</i>	<i>Thickness</i>	<i>Width</i>	<i>Source</i>
40	Beacon Channel Complex	853	149	10	103	Pyles <i>et al.</i> , 2010
41	Beacon Channel Complex	831	119	5	134	Pyles <i>et al.</i> , 2010
42	Beacon Channel Complex	831	119	17	134	Pyles <i>et al.</i> , 2010
43	Offshore Gabon	-	-	11	130	Whonham <i>et al.</i> , 2000
44	Offshore Gabon	-	-	5	160	Whonham <i>et al.</i> , 2000
45	Offshore Gabon	-	-	6	150	Whonham <i>et al.</i> , 2000
46	Offshore Gabon	-	-	8	150	Whonham <i>et al.</i> , 2000
47	Offshore Gabon	-	-	8	116	Whonham <i>et al.</i> , 2000
48	Offshore Gabon	-	-	7	240	Whonham <i>et al.</i> , 2000
49	Offshore Gabon	-	-	13	220	Whonham <i>et al.</i> , 2000
50	Offshore Gabon	-	-	15	160	Whonham <i>et al.</i> , 2000
51	Offshore Gabon	-	-	15	180	Whonham <i>et al.</i> , 2000
52	Offshore Gabon	-	-	15	210	Whonham <i>et al.</i> , 2000
53	Offshore Gabon	-	-	15	230	Whonham <i>et al.</i> , 2000
54	Offshore Gabon	-	-	18	193	Whonham <i>et al.</i> , 2000
55	Offshore Gabon	-	-	26	193	Whonham <i>et al.</i> , 2000
56	Offshore Gabon	-	-	25	220	Whonham <i>et al.</i> , 2000
57	Offshore Gabon	-	-	28	330	Whonham <i>et al.</i> , 2000
58	Offshore Gabon	-	-	19	150	Whonham <i>et al.</i> , 2000
59	Offshore Gabon	-	-	16	110	Whonham <i>et al.</i> , 2000
60	Offshore Gabon	3000	-	-	600	Whonham <i>et al.</i> , 2000
61	Offshore Gabon	3100	-	28	320	Whonham <i>et al.</i> , 2000
62	Offshore Gabon	10000	-	54	410	Whonham <i>et al.</i> , 2000
63	Offshore Gabon	11050	-	-	505	Whonham <i>et al.</i> , 2000
64	Offshore Gabon	11100	-	-	810	Whonham <i>et al.</i> , 2000
65	Offshore Gabon	11600	-	-	1090	Whonham <i>et al.</i> , 2000
66	Offshore Gabon	17000	-	-	810	Whonham <i>et al.</i> , 2000
67	Offshore Gabon	2000	-	-	530	Whonham <i>et al.</i> , 2000
68	Offshore Gabon	2200	-	-	700	Whonham <i>et al.</i> , 2000
69	Offshore Gabon	2500	-	-	450	Whonham <i>et al.</i> , 2000
70	Offshore Gabon	3000	-	-	370	Whonham <i>et al.</i> , 2000
71	Offshore Gabon	3200	-	-	450	Whonham <i>et al.</i> , 2000
72	Offshore Gabon	3300	-	-	530	Whonham <i>et al.</i> , 2000
73	Offshore Gabon	3300	-	-	700	Whonham <i>et al.</i> , 2000
74	Offshore Gabon	3500	-	38	450	Whonham <i>et al.</i> , 2000
75	Offshore Gabon	3700	-	-	450	Whonham <i>et al.</i> , 2000
76	Offshore Gabon	3900	-	12	290	Whonham <i>et al.</i> , 2000
77	Offshore Gabon	4000	-	42	370	Whonham <i>et al.</i> , 2000
78	Offshore Gabon	4000	-	-	700	Whonham <i>et al.</i> , 2000
79	Offshore Gabon	4100	-	-	1500	Whonham <i>et al.</i> , 2000

Appendix B

<i>no.</i>	<i>Location</i>	<i>Wavelength</i>	<i>Amplitude</i>	<i>Thickness</i>	<i>Width</i>	<i>Source</i>
80	Offshore Gabon	6600	-	60	530	Whonham <i>et al.</i> , 2000
81	Offshore Gabon	7000	-	-	1500	Whonham <i>et al.</i> , 2000
82	Offshore Gabon	8000	-	10	450	Whonham <i>et al.</i> , 2000
83	Offshore Gabon	8200	-	-	600	Whonham <i>et al.</i> , 2000
84	Offshore Gabon	9000	-	-	700	Whonham <i>et al.</i> , 2000
85	Offshore Gabon	9000	-	63	530	Whonham <i>et al.</i> , 2000
86	Offshore Gabon	9600	-	-	600	Whonham <i>et al.</i> , 2000
87	Offshore Gabon	11000	-	-	700	Whonham <i>et al.</i> , 2000
88	Offshore Gabon	11000	-	-	600	Whonham <i>et al.</i> , 2000
89	Offshore Gabon	18000	-	-	700	Whonham <i>et al.</i> , 2000
90	Trinidad and Tobago	1600	970	-	-	Wood and Mize-Spansky, 2009
91	Trinidad and Tobago	1300	820	-	-	Wood and Mize-Spansky, 2009
92	Trinidad and Tobago	1300	680	-	-	Wood and Mize-Spansky, 2009
93	Trinidad and Tobago	1200	880	-	-	Wood and Mize-Spansky, 2009
94	Trinidad and Tobago	1570	810	-	-	Wood and Mize-Spansky, 2009
95	Trinidad and Tobago	1620	775	-	-	Wood and Mize-Spansky, 2009
96	Trinidad and Tobago	1320	1360	-	-	Wood and Mize-Spansky, 2009
97	Trinidad and Tobago	1380	1210	-	-	Wood and Mize-Spansky, 2009
98	Trinidad and Tobago	1500	1260	-	-	Wood and Mize-Spansky, 2009
99	Trinidad and Tobago	1580	1320	-	-	Wood and Mize-Spansky, 2009
100	Trinidad and Tobago	2170	750	-	-	Wood and Mize-Spansky, 2009
101	Trinidad and Tobago	2100	810	-	-	Wood and Mize-Spansky, 2009
102	Trinidad and Tobago	2080	860	-	-	Wood and Mize-Spansky, 2009
103	Trinidad and Tobago	1940	915	-	-	Wood and Mize-Spansky, 2009
104	Trinidad and Tobago	1790	860	-	-	Wood and Mize-Spansky, 2009
105	Trinidad and Tobago	1650	854	-	-	Wood and Mize-Spansky, 2009
106	Trinidad and Tobago	1501	945	-	-	Wood and Mize-Spansky, 2009
107	Trinidad and Tobago	1510	1149	-	-	Wood and Mize-Spansky, 2009
108	Trinidad and Tobago	1420	1155	-	-	Wood and Mize-Spansky, 2009
109	Trinidad and Tobago	1430	1199	-	-	Wood and Mize-Spansky, 2009
110	Trinidad and Tobago	1670	1214	-	-	Wood and Mize-Spansky, 2009
111	Trinidad and Tobago	1799	1217	-	-	Wood and Mize-Spansky, 2009

Appendix B

<i>no.</i>	<i>Location</i>	<i>Wavelength</i>	<i>Amplitude</i>	<i>Thickness</i>	<i>Width</i>	<i>Source</i>
112	Trinidad and Tobago	2310	860	-	-	Wood and Mize-Spansky, 2009
113	Trinidad and Tobago	2450	925	-	-	Wood and Mize-Spansky, 2009
114	Trinidad and Tobago	2270	960	-	-	Wood and Mize-Spansky, 2009
115	Trinidad and Tobago	2790	980	-	-	Wood and Mize-Spansky, 2009
116	Trinidad and Tobago	1900	1040	-	-	Wood and Mize-Spansky, 2009
117	Trinidad and Tobago	2750	1040	-	-	Wood and Mize-Spansky, 2009
118	Trinidad and Tobago	3600	1035	-	-	Wood and Mize-Spansky, 2009
119	Trinidad and Tobago	3270	1100	-	-	Wood and Mize-Spansky, 2009
120	Trinidad and Tobago	1750	1110	-	-	Wood and Mize-Spansky, 2009
121	Trinidad and Tobago	1800	1140	-	-	Wood and Mize-Spansky, 2009
122	Trinidad and Tobago	2500	1210	-	-	Wood and Mize-Spansky, 2009
123	Trinidad and Tobago	2450	1300	-	-	Wood and Mize-Spansky, 2009
124	Amazon Deep-Fan	311.1	411.1	-	64.4	Damuth <i>et al.</i> , 1988
125	Amazon Deep-Fan	600.0	444.4	-	68.9	Damuth <i>et al.</i> , 1988
126	Amazon Deep-Fan	333.3	444.4	-	97.8	Damuth <i>et al.</i> , 1988
127	Amazon Deep-Fan	577.8	311.1	-	100.0	Damuth <i>et al.</i> , 1988
128	Amazon Deep-Fan	311.1	311.1	-	104.4	Damuth <i>et al.</i> , 1988
129	Amazon Deep-Fan	333.3	400.0	-	62.2	Damuth <i>et al.</i> , 1988
130	Amazon Deep-Fan	288.9	288.9	-	95.6	Damuth <i>et al.</i> , 1988
131	Amazon Deep-Fan	222.2	311.1	-	91.1	Damuth <i>et al.</i> , 1988
132	Amazon Deep-Fan	444.4	266.7	-	64.4	Damuth <i>et al.</i> , 1988
133	Amazon Deep-Fan	288.9	444.4	-	71.1	Damuth <i>et al.</i> , 1988
134	Amazon Deep-Fan	177.8	200.0	-	73.3	Damuth <i>et al.</i> , 1988
135	Amazon Deep-Fan	177.8	200.0	-	77.8	Damuth <i>et al.</i> , 1988
136	Amazon Deep-Fan	222.2	355.6	-	93.3	Damuth <i>et al.</i> , 1988
137	Amazon Deep-Fan	377.8	400.0	-	113.3	Damuth <i>et al.</i> , 1988
138	Amazon Deep-Fan	333.3	266.7	-	146.7	Damuth <i>et al.</i> , 1988
139	Amazon Deep-Fan	266.7	266.7	-	157.8	Damuth <i>et al.</i> , 1988
140	Amazon Deep-Fan	288.9	266.7	-	111.1	Damuth <i>et al.</i> , 1988
141	Amazon Deep-Fan	333.3	311.1	-	93.3	Damuth <i>et al.</i> , 1988
142	Amazon Deep-Fan	355.6	355.6	-	117.8	Damuth <i>et al.</i> , 1988
143	Amazon Deep-Fan	288.9	355.6	-	71.1	Damuth <i>et al.</i> , 1988
144	Amazon Deep-Fan	377.8	377.8	-	120.0	Damuth <i>et al.</i> , 1988
145	Joshua Channel	2702.7	2297.3	-	405.4	Posamentier,2003
146	Joshua Channel	3378.4	4864.9	-	540.5	Posamentier,2003
147	Joshua Channel	2702.7	3243.2	-	473.0	Posamentier,2003

Appendix B

<i>no.</i>	<i>Location</i>	<i>Wavelength</i>	<i>Amplitude</i>	<i>Thickness</i>	<i>Width</i>	<i>Source</i>
148	Joshua Channel	4864.9	4054.1	-	378.4	Posamentier,2003
149	Joshua Channel	2340.0	4360.0	-	390.0	Posamentier,2003
150	Joshua Channel	3250.0	4780.0	-	510.0	Posamentier,2003
151	Joshua Channel	2540.0	2250.0	-	340.0	Posamentier,2003
152	Joshua Channel	2890.0	3560.0	-	480.0	Posamentier,2003
153	De Soto Canyon	2156.9	2549.0	-	294.1	Posamentier and Kolla, 2003
154	De Soto Canyon	2431.4	235.3	-	392.2	Posamentier and Kolla, 2003
155	De Soto Canyon	3235.3	3607.8	-	451.0	Posamentier and Kolla, 2003
156	De Soto Canyon	2764.7	3019.6	-	352.9	Posamentier and Kolla, 2003
157	De Soto Canyon	2588.2	3176.5	-	313.7	Posamentier and Kolla, 2003
158	De Soto Canyon	2451.0	3098.0	-	294.1	Posamentier and Kolla, 2003
159	De Soto Canyon	3490.2	2607.8	-	411.8	Posamentier and Kolla, 2003
160	De Soto Canyon	3627.5	4725.5	-	451.0	Posamentier and Kolla, 2003
161	De Soto Canyon	3140.0	3650.0	-	440.0	Posamentier and Kolla, 2003
162	De Soto Canyon	2540.0	3110.0	-	290.0	Posamentier and Kolla, 2003
163	De Soto Canyon	3250.0	3950.0	-	450.0	Posamentier and Kolla, 2003
164	De Soto Canyon	2980.0	3050.0	-	350.0	Posamentier and Kolla, 2003
165	De Soto Canyon	3570.0	3980.0	-	460.0	Posamentier and Kolla, 2003
166	Green Channel Angola	761.9	1352.4	20	190.5	Abreu <i>et al.</i> , 2003
167	Green Channel Angola	1523.8	1952.4	38	381.0	Abreu <i>et al.</i> , 2003
168	Green Channel Angola	1623.8	1523.8	32	214.3	Abreu <i>et al.</i> , 2003
169	Green Channel Angola	647.6	1333.3	30	238.1	Abreu <i>et al.</i> , 2003
170	Green Channel Angola	1000.0	1495.2	35	290.5	Abreu <i>et al.</i> , 2003
171	Green Channel Angola	785.7	1695.2	21	204.8	Abreu <i>et al.</i> , 2003
172	Green Channel Angola	652.4	1861.9	25	257.1	Abreu <i>et al.</i> , 2003
173	Green Channel Angola	1870.0	1650.0	22	210.0	Abreu <i>et al.</i> , 2003
174	Green Channel Angola	980.0	1560.0	28	250.0	Abreu <i>et al.</i> , 2003
175	West Africa	2381.0	1714.3	-	504.8	Wynn <i>et al.</i> , 2007
176	West Africa	3047.6	1428.6	-	323.8	Wynn <i>et al.</i> , 2007
177	West Africa	2857.1	2295.2	-	590.5	Wynn <i>et al.</i> , 2007
178	West Africa	3333.3	2190.5	-	761.9	Wynn <i>et al.</i> , 2007
179	West Africa	3280.0	2250.0	-	780.0	Wynn <i>et al.</i> , 2007
180	West Africa	2870.0	1150.0	-	260.0	Wynn <i>et al.</i> , 2007
181	West Africa	4761.9	3571.4	49	750.0	Callec <i>et al.</i> , 2010
182	West Africa	5000.0	2500.0	36	750.0	Callec <i>et al.</i> , 2010
183	West Africa	4881.0	2976.2	45	900.0	Callec <i>et al.</i> , 2010

Appendix B

<i>no.</i>	<i>Location</i>	<i>Wavelength</i>	<i>Amplitude</i>	<i>Thickness</i>	<i>Width</i>	<i>Source</i>
184	West Africa	4404.8	1904.8	49	875.0	Callec <i>et al.</i> , 2010
185	West Africa	4761.9	2381.0	67	500.0	Callec <i>et al.</i> , 2010
186	West Africa	4642.9	2261.9	56	2025.0	Callec <i>et al.</i> , 2010
187	West Africa	4980.0	2580.0	68	700.0	Callec <i>et al.</i> , 2010
188	West Africa	4350.0	1850.0	50	980.0	Callec <i>et al.</i> , 2010
189	West Africa	4750.0	2400.0	54	780.0	Callec <i>et al.</i> , 2010
190 To 675	Ergo Online Database*					

*Ergo Online Database is a private database their data cannot be published.

