

Table S1. Statistics of shelf-edge trajectory parameters in QDNB. A: Accretion, P: Progradation, α : Shelf edge trajectory

Line	Horizon	A (m)	P (m)	A/P	α (°)
1	T20-T14	243.34	11362.5	0.021416	1.23
	T14-T11	241.52	3337.5	0.072366	4.14
	T11-T07	231.2	562.5	0.411022	22.34
	T07-T0	85.8	2712.5	0.031631	1.81
2	T20-T14	232.64	7975	0.029171	1.67
	T14-T11	293.72	3800	0.077295	4.42
	T11-T07	203.24	1050	0.193562	10.95
	T07-T0	161.12	2100	0.076724	4.39
3	T20-T14	369.52	10650	0.034697	1.99
	T14-T11	202.68	-262.5	-0.77211	127.67
	T11-T07	163.32	1362.5	0.119868	6.84
	T07-T0	52.68	2262.5	0.023284	1.33
4	T20-T14	293.84	9212.5	0.031896	1.83
	T14-T11	215.52	437.5	0.492617	26.23
	T11-T07	161.56	1037.5	0.15572	8.85
	T07-T0	54.32	3675	0.014781	0.85
5	T20-T14	-4.76	7675	-0.00062	-0.04
	T14-T11	400.44	1612.5	0.248335	13.95
	T11-T07	224.4	11437.5	0.01962	1.12
	T07-T0	126.68	-10650	-0.01189	90.68
6	T20-T14	199.4	5087.5	0.039194	2.24
	T14-T11	242.4	1325	0.182943	10.37
	T11-T07	195.44	-112.5	-1.73724	150.07
	T07-T0	47.4	1112.5	0.042607	2.44
7	T20-T14	164.64	5025	0.032764	1.88
	T14-T11	257.76	1350	0.190933	10.81
	T11-T07	164.84	-125	-1.31872	142.83
	T07-T0	81.28	262.5	0.309638	17.20
8	T20-T14	136	3837.5	0.03544	2.03
	T14-T11	216.84	1662.5	0.13043	7.43
	T11-T07	171.76	1312.5	0.130865	7.46
	T07-T0	112.76	412.5	0.273358	15.29
9	T20-T14	356.92	5475	0.065191	3.73
	T14-T11	-272.68	-1537.5	0.177353	10.06
	T11-T07	457.6	1662.5	0.275248	15.39
	T07-T0	93.32	-475	-0.19646	101.11
10	T20-T14	77.88	4250	0.018325	1.05
	T14-T11	267.52	350	0.764343	37.39
	T11-T07	181.4	137.5	1.319273	52.84
	T07-T0	101.56	37.5	2.708267	69.73
11	T20-T14	94.44	3850	0.02453	1.41
	T14-T11	268.6	487.5	0.550974	28.85
	T11-T07	146.32	112.5	1.300622	52.44
	T07-T0	94.44	762.5	0.123856	7.06
12	T20-T14	294.28	262.5	1.121067	48.27
	T14-T11	188.96	-275	-0.68713	124.49
	T11-T07	129.2	62.5	2.0672	64.18
	T07-T0	118.12	12.5	9.4496	83.96

Table S2. Statistics of slope angle parameters in QDNB. ETT: Edge to toe, Rc: Height between edge and toe

Line	Horizon	ETT (m)	Rc (m)	Rc/ETT	β (°)
1	T20	471.54	8537.5	0.06	3.16
	T14	464.88	6650	0.07	4.00
	T11	504.4	8287.5	0.06	3.48
	T07	687.08	10537.5	0.07	3.73
	T0	666.74	12012.5	0.06	3.18
2	T20	385.28	8625	0.04	2.56
	T14	431.88	6362.5	0.07	3.88
	T11	452.32	8412.5	0.05	3.08
	T07	501	8850	0.06	3.24
	T0	600.88	9362.5	0.06	3.67
3	T20	443.52	7100	0.06	3.57
	T14	525.92	7812.5	0.07	3.85
	T11	552.44	9025	0.06	3.50
	T07	557.92	8487.5	0.07	3.76
	T0	677.84	14425	0.05	2.69
4	T20	481.36	9137.5	0.05	3.02
	T14	475.6	6375	0.07	4.27
	T11	381.28	8850	0.04	2.47
	T07	515.4	8562.5	0.06	3.44
	T0	663.04	11500	0.06	3.30
5	T20	526.88	6462.5	0.08	4.66
	T14	327.8	8300	0.04	2.26
	T11	507.68	6700	0.08	4.33
	T07	647.96	-4100	-0.16	-8.98
	T0	529.84	5712.5	0.09	5.30
6	T20	379.04	3850	0.10	5.62
	T14	270.88	2125	0.13	7.26
	T11	452.2	8012.5	0.06	3.23
	T07	494.64	7887.5	0.06	3.59
	T0	518	8187.5	0.06	3.62
7	T20	451.2	5137.5	0.09	5.02
	T14	314.6	4112.5	0.08	4.37
	T11	362.64	3475	0.10	5.96
	T07	483.44	8125	0.06	3.41
	T0	411.44	4675	0.09	5.03
8	T20	424.44	6350	0.07	3.82
	T14	413.6	5750	0.07	4.11
	T11	478.28	9200	0.05	2.98
	T07	561.16	10462.5	0.05	3.07
	T0	654.16	10225	0.06	3.66
9	T20	575.2	7375	0.08	4.46
	T14	450.68	4950	0.09	5.20
	T11	426.32	9637.5	0.04	2.53
	T07	390.28	3500	0.11	6.36
	T0	435.12	4050	0.11	6.13
10	T20	555.44	5725	0.10	5.54
	T14	312.72	4362.5	0.07	4.10
	T11	393.12	4437.5	0.09	5.06
	T07	555.9	8450	0.07	3.76
	T0	639.36	8700	0.07	4.20
11	T20	495.6	5200	0.10	5.44
	T14	296.44	4150	0.07	4.09
	T11	407.12	3200	0.13	7.25
	T07	507	4312.5	0.12	6.71
	T0	592	3875	0.15	8.69
12	T20	282.36	3987.5	0.07	4.05
	T14	413.88	3700	0.11	6.38
	T11	585.28	5650	0.10	5.91
	T07	622.24	5650	0.11	6.28
	T0	703	7250	0.10	5.54

Table S3. Statistics of sediment supply parameters in QDNB. A: Accretion, P: Progradation, Ra: Accretion rate, Rp: Progradation rate, Fc: Sediment flux

Line	Horizon	A (m)	P (m)	Ra (m/Ma)	Rp (m/Ma)	Fc (m ² /Ma)
1	T20-T14	243.34	11362.5	221.22	10329.55	2513.5916
	T14-T11	241.52	3337.5	690.06	9535.71	2303.0657
	T11-T07	231.2	562.5	924.80	2250.00	520.2
	T07-T0	85.8	2712.5	429.00	13562.50	1163.6625
2	T20-T14	232.64	7975	211.49	7250.00	1686.64
	T14-T11	293.72	3800	839.20	10857.14	3188.96
	T11-T07	203.24	1050	812.96	4200.00	853.608
	T07-T0	161.12	2100	805.60	10500.00	1691.76
3	T20-T14	369.52	10650	335.93	9681.82	3577.6255
	T14-T11	202.68	-262.5	579.09	-750.00	-152.01
	T11-T07	163.32	1362.5	653.28	5450.00	890.094
	T07-T0	52.68	2262.5	263.40	11312.50	595.9425
4	T20-T14	293.84	9212.5	267.13	8375.00	2460.91
	T14-T11	215.52	437.5	615.77	1250.00	269.4
	T11-T07	161.56	1037.5	646.24	4150.00	670.474
	T07-T0	54.32	3675	271.60	18375.00	998.13
5	T20-T14	-4.76	7675	-4.33	6977.27	-33.21182
	T14-T11	400.44	1612.5	1144.11	4607.14	1844.8843
	T11-T07	224.4	11437.5	897.60	45750.00	10266.3
	T07-T0	126.68	-10650	633.40	53250.00	6745.71
6	T20-T14	199.4	5087.5	181.27	4625.00	922.225
	T14-T11	242.4	1325	692.57	3785.71	917.6571
	T11-T07	195.44	-112.5	781.76	-450.00	-87.948
	T07-T0	47.4	1112.5	237.00	5562.50	263.6625
7	T20-T14	164.64	5025	149.67	4568.18	752.1055
	T14-T11	257.76	1350	736.46	3857.14	994.2171
	T11-T07	164.84	-125	659.36	-500.00	-82.42
	T07-T0	81.28	262.5	406.40	1312.50	106.68
8	T20-T14	136	3837.5	123.64	3488.64	474.4545
	T14-T11	216.84	1662.5	619.54	4750.00	1029.99
	T11-T07	171.76	1312.5	687.04	5250.00	901.74
	T07-T0	112.76	412.5	563.80	2062.50	232.5675
9	T20-T14	356.92	5475	324.47	4977.27	1776.4882
	T14-T11	-272.68	-1537.5	779.09	-4392.86	-1197.844
	T11-T07	457.6	1662.5	1830.40	6650.00	3043.04
	T07-T0	93.32	-475	466.60	-2375.00	-221.635
10	T20-T14	77.88	4250	70.80	3863.64	300.9
	T14-T11	267.52	350	764.34	1000.00	267.52
	T11-T07	181.4	137.5	725.60	550.00	99.77
	T07-T0	101.56	37.5	507.80	187.50	19.0425
11	T20-T14	94.44	3850	85.85	3500.00	330.54
	T14-T11	268.6	487.5	767.43	1392.86	374.1214
	T11-T07	146.32	112.5	585.28	450.00	65.844
	T07-T0	94.44	762.5	472.20	3812.50	360.0525
12	T20-T14	294.28	262.5	267.53	238.64	70.22591
	T14-T11	188.96	-275	539.89	-785.71	-148.469
	T11-T07	129.2	62.5	516.80	250.00	32.3
	T07-T0	118.12	12.5	590.60	62.50	7.3825