

Appendix 2. Recalculated detrital modes for sandstone from the Turpan-Hami basin

No.	Qm	F	Lt	Qt	F	L	Qp	Lvm	Lsm	Qm	P	K	%M	P/F	%Lvm	mafic
TAIBEI DEPRESSION																
1	34	24	42	41	24	35	16	57	26	58	27	15	<1	0.6	61	
2	36	19	45	42	19	39	13	52	36	66	28	6	3	0.8	81	
3	40	29	31	45	29	26	15	55	30	58	25	16	1	0.6	79	
4	39	26	35	43	26	31	11	49	40	61	27	12	<1	0.7	77	
5	37	23	40	43	23	35	14	54	32	63	26	11	<1	0.7	77	
6	41	23	37	48	23	30	20	63	17	65	19	16	1	0.5	76	
7	34	25	41	42	25	33	21	57	22	58	29	14	1	0.7	76	
8	40	27	33	44	27	29	12	60	28	60	23	18	<1	0.6	76	
9	36	27	37	40	27	33	11	49	40	58	30	11	1	0.7	79	
10	41	21	38	47	21	31	18	59	23	66	18	16	1	0.5	59	
11	55	17	28	64	17	19	33	58	9	76	11	13	<1	0.5	52	
12	19	13	68	26	13	61	10	75	15	60	27	12	1	0.7	61	
13	51	18	31	58	18	23	24	44	32	73	16	10	6	0.6	67	
14	54	16	30	63	16	21	30	46	24	77	13	10	2	0.6	56	
15	40	13	47	47	13	40	14	62	25	77	9	14	1	0.4	59	
16	42	13	45	44	13	43	5	77	18	77	12	11	<1	0.5	68	
17	35	26	39	38	26	37	6	77	16	58	29	13	2	0.7	70	
18	44	18	38	51	18	31	20	32	49	71	20	10	21	0.7	89	
19	52	18	30	58	18	23	21	33	46	74	17	9	11	0.7	83	
20	39	26	35	43	26	31	10	68	22	60	26	14	<1	0.7	69	
21	39	26	36	42	26	33	9	53	39	61	27	12	1	0.7	82	
22	40	23	37	43	23	33	10	77	13	63	17	20	1	0.5	63	
23	40	26	34	43	26	31	9	74	18	61	21	19	<1	0.5	72	
24	37	25	38	41	25	34	10	58	33	61	24	16	2	0.6	53	
25	34	25	40	39	25	36	10	55	35	58	22	21	3	0.5	56	
26	44	23	33	48	23	29	13	36	51	66	19	15	2	0.6	62	
27	44	16	40	53	16	31	22	17	61	73	14	14	19	0.5	68	
28	52	18	30	57	18	25	15	20	65	75	15	10	11	0.6	72	
29	41	20	39	46	20	34	13	23	65	68	20	11	13	0.6	71	
30	33	21	46	44	21	35	23	34	43	62	16	22	10	0.4	88	
31	59	17	24	61	17	21	10	53	37	78	9	13	<1	0.4	62	
32	35	16	49	49	16	35	29	27	44	69	22	9	3	0.7	96	
33	35	25	40	40	25	35	12	65	23	58	23	19	2	0.5	62	
34	35	29	36	42	29	29	20	52	28	55	28	17	1	0.6	75	
35	51	19	29	54	19	27	8	49	43	73	13	15	2	0.5	50	
36	37	27	36	43	27	30	17	41	42	59	23	18	1	0.6	59	
37	48	18	35	51	18	31	10	31	59	73	14	13	<1	0.5	71	
38	50	19	31	52	19	28	8	43	48	71	9	19	3	0.3	40	
39	45	19	36	50	19	31	15	34	52	71	17	12	4	0.6	28	

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No.	Qm	F	Lt	Qt	F	L	Qp	Lvm	Lsm	Qm	P	K	%M	P/F	%Lvm mafic
50	28	21	51	39	21	41	21	76	3	57	22	21	1	0.5	54
51	27	20	53	43	20	38	29	68	3	58	25	17	3	0.6	47
52	34	9	57	48	9	42	26	70	4	78	11	11	2	0.5	71
53	40	22	39	46	22	33	16	79	5	65	29	6	7	0.8	69
54	49	16	35	56	16	28	18	78	3	77	11	12	1	0.5	31
55	17	23	61	27	23	50	17	78	5	44	43	13	2	0.8	63
56	50	29	22	54	29	18	18	77	4	64	17	20	1	0.5	37
57	47	10	43	57	10	33	24	74	2	83	16	2	<1	0.9	89
58	20	42	38	29	42	30	22	75	3	34	59	7	1	0.9	71
59	39	29	32	47	29	24	26	70	4	59	32	9	<1	0.8	67
60	38	28	34	47	28	26	25	68	7	60	35	5	<1	0.9	70
61	26	22	52	35	22	43	20	69	11	55	41	4	1	0.9	67
62	3	20	77	9	20	71	8	89	4	12	76	12	<1	0.9	79
63	30	12	58	38	12	50	13	84	3	72	27	2	1	0.9	84
64	26	23	51	30	23	47	8	89	3	55	42	4	2	0.9	68
65	36	12	52	41	12	47	10	84	6	75	20	4	1	0.8	49
66	33	17	50	36	17	47	7	86	7	67	31	2	3	0.9	67
67	35	20	45	44	20	36	21	72	7	64	30	6	1	0.8	55
68	32	16	52	39	16	45	13	83	4	68	23	9	1	0.7	66
69	4	10	86	13	10	76	11	88	1	29	35	37	1	0.5	23
70	4	12	84	7	12	81	3	87	10	22	46	32	<1	0.6	36
71	15	28	57	17	28	55	3	94	4	35	56	9	1	0.9	36
72	9	13	79	14	13	74	6	92	2	41	27	32	<1	0.5	29
73	7	30	63	16	30	54	14	81	5	19	77	3	<1	1.0	29
AVE	37	20	43	43	20	37	16	61	23	63	24	13	3	0.6	60
STDEV	13	6	14	13	6	13	7	19	19	15	14	7	4	0.2	18

TAINAN DEPRESSION

74	54	13	32	60	13	27	17	74	9	81	7	12	2	0.4	66
75	50	20	30	55	20	25	15	80	6	72	9	18	1	0.3	45
76	42	25	34	48	25	27	18	79	2	64	19	17	4	0.5	65
77	48	12	39	55	12	32	18	79	4	80	11	9	1	0.5	46
78	51	16	33	57	16	27	19	75	7	76	17	7	1	0.7	56
79	33	25	41	39	25	36	13	84	3	58	27	15	0	0.6	59
80	44	19	37	48	19	33	12	83	5	70	17	14	0	0.5	58
81	48	16	37	52	16	33	12	85	4	78	6	15	2	0.3	56
82	53	16	32	56	16	28	12	88	0	74	14	11	2	0.6	41
83	44	19	37	53	19	28	22	72	6	74	17	9	4	0.7	79
84	43	16	42	50	16	34	17	78	6	75	15	10	2	0.6	56
85	15	19	66	17	19	64	3	96	2	48	32	20	0	0.6	63
86	22	23	55	23	23	54	1	93	5	49	34	17	1	0.7	62
AVE	42	18	40	47	18	35	14	82	4	69	17	14	1	0.5	58
STDEV	12	4	10	13	4	12	6	7	2	11	9	4	1	0.1	10

TOKESUN DEPRESSION

87	49	13	39	57	13	31	22	39	39	80	15	6	5	0.7	61
88	47	14	39	52	14	34	13	48	39	78	16	6	2	0.7	77
89	54	15	31	57	15	28	10	51	39	79	13	8	3	0.6	79
90	70	22	8	77	22	1	23	33	44	76	7	17	0	0.3	27
91	43	21	36	50	21	29	20	55	25	68	14	18	1	0.5	18
92	51	9	40	60	9	30	23	40	37	84	2	13	2	0.1	23
93	35	23	43	43	23	35	19	81	0	61	21	18	2	0.5	49

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No.	Qm	F	Lt	Qt	F	L	Qp	Lvm	Lsm	Qm	P	K	%M	P/F	%Lvm	mafic
94	43	18	39	52	18	30	23	74	3	71	19	10	5	0.7	61	
95	41	21	38	49	21	30	21	74	5	67	16	17	1	0.5	61	
96	55	18	27	59	18	23	16	82	2	76	14	10	1	0.6	49	
97	55	17	28	62	17	21	24	73	3	76	16	8	3	0.7	61	
98	51	17	32	56	17	27	16	80	4	75	12	13	1	0.5	56	
99	19	30	52	23	30	47	8	90	2	38	38	23	0	0.6	50	
100	3	13	84	7	13	80	5	93	2	17	76	7	1	0.9	81	
101	17	6	77	18	6	76	1	97	2	66	26	8	1	0.8	78	
102	19	20	60	21	20	58	4	96	1	49	34	17	0	0.7	79	
103	11	13	76	13	13	73	3	95	2	40	44	15	0	0.7	69	
104	37	14	49	42	14	45	9	90	1	73	16	11	1	0.6	66	
105	37	23	39	39	23	37	5	93	2	66	21	13	3	0.6	61	
AVE	39	17	44	44	17	39	14	73	13	65	22	13	2	0.6	58	
STDEV	18	6	19	19	6	20	8	22	17	17	17	5	2	0.2	19	
HAMI DEPRESSION																
106	25	21	54	30	21	49	10	61	29	55	28	16	3	0.6	59	
107	20	29	51	24	29	48	6	62	32	42	35	23	10	0.6	68	
108	24	13	63	31	13	56	12	56	33	65	18	17	1	0.5	39	
109	20	19	61	25	19	56	9	61	30	52	37	11	7	0.8	58	
110	23	12	65	34	12	54	20	75	5	67	28	5	0	0.9	98	
111	39	18	43	44	18	38	13	78	10	72	17	12	1	0.6	70	
112	32	23	44	39	23	38	15	80	5	59	32	9	2	0.8	76	
113	26	17	57	39	17	44	22	65	13	63	27	10	1	0.7	81	
AVE	26	19	55	33	19	48	13	67	19	59	28	13	3	0.7	69	
STDEV	6	5	8	7	5	7	6	9	13	9	7	6	3	0.1	18	

Note: Raw point-count data and sample information are given in Appendix 1, and definitions of abbreviations are given in Table 2. QmFLt, QpLvmLsm, and QmPK ternary plots are in Figure 3. Figure 4 shows compositional trends for samples from the Taibei and Tainan Depressions.