

SUPPLEMENTARY MATERIAL 1

QAPF Diagram and Modal Composition

Table 1 Modal composition of the rocks from PAIC.

Samples	Minerals																	
	Qz	Kfs	Pl	Bt	Ttn	Hbl	Opq	Aln	Ap	Zr	Opx	Chl	Ms	Ep	Ser	Q	A	P
PAIL 01	25.7	25.2	35.6	8.5	2.5	–	1.1	0.4	0.4	0.1	–	–	–	–	0.5	29.7	29.1	41.2
PAIL 02	19	12	32.5	18	5	7.2	3	0.8	1.5	0.2	–	0.3	–	0.1	0.4	29.9	18.9	51.2
PAIL 03A	23	16	36	11	3	3	4.5	0.7	0.6	0.1	–	0.6	–	1	0.5	30.6	21.3	48.1
PAIL 03B	20	35	32	6.9	1	0.7	2	0.4	0.3	0.1	–	0.5	–	0.2	0.6	23	40.2	36.8
PAIL 06	10	13.6	42	16	4.6	8.7	2.5	0.8	0.8	0.4	–	0.4	–	–	0.2	15.2	20.7	64.1
PAIL 07	27.6	33	23.8	7.2	1.3	–	1.8	2.6	1	0.1	–	0.3	0.6	–	0.7	32.7	39.1	28.2
PAIL 08	29.6	39.2	19.7	6.5	0.5	–	2	0.7	0.5	0.1	–	<0.1	–	<0.1	1.2	33.4	44.3	22.3
PAIL 10	28.7	40.5	11.8	8.8	0.9	–	2.3	1.2	0.9	0.1	–	<0.1	1.7	<0.1	3.1	35.4	50	14.6
PAIL 11	27.3	13.2	32.1	13.6	4.5	2.5	3.7	–	2.5	0.1	–	<0.1	–	0.1	0.4	37.6	18.2	44.2
PAIL 20	7.5	10	45	13	2	14	4	1	3	0.5	–	–	–	–	–	12	16	72
PAIL 23	26.2	8	43	11.8	4.3	2.5	2.9	0.1	0.8	0.1	–	<0.1	–	–	<0.1	33.7	10.3	56
PAIL 25	6.5	18	42	20	6	–	4.5	1	1.5	0.5	–	–	–	–	–	9.8	27	63.2
PAIL 26B	25	22.3	30.2	11.4	3.2	0.9	3.1	1.9	0.6	0.1	–	<0.1	–	–	0.8	32.2	28.8	39
PAIL 28	28.7	32.2	27.8	6.4	0.5	–	2	1.1	0.5	0.1	–	<0.1	–	<0.1	0.7	32.4	36.3	31.3
PAIL 29	28.6	33.1	25.8	6.2	1.3	–	2.6	0.4	0.5	0.1	–	0.1	0.2	–	1.1	32.7	37.8	29.5
PAIL 30	29.2	37.2	19.1	8.3	1.4	1.2	2.1	–	0.5	0.1	–	<0.1	–	–	0.9	34.1	43.5	22.4
PAIL 31	25.6	32.1	24.1	8.3	2.6	–	4.5	0.4	0.3	0.1	–	<0.1	1.2	–	0.8	31.3	39.2	29.5
PAIL 32	26.8	35.4	25	5.6	1.5	–	2.6	1.4	0.4	0.1	–	0.3	0.2	–	0.7	30.7	40.6	28.7
PAIL 33A	25	16.1	36	10.6	1.8	7.5	1.3	0.5	0.6	0.1	–	<0.1	–	<0.1	0.5	32.4	20.9	46.7
PAIL 34	25	30.8	28.4	7	2.1	–	4	0.5	0.6	0.1	–	0.8	–	–	0.7	29.7	36.6	33.7
PAIL 35	28.2	33	26.2	6.2	2.2	–	2.8	0.9	0.4	0.1	–	–	–	–	–	32.3	37.7	30
PAIL 36	27.3	35.2	25.3	6.2	1.1	0.3	2.1	–	1.2	0.1	–	0.3	0.5	<0.1	0.4	31.1	40.1	28.8
PAIL 37	27.5	34.5	26.8	5.5	1.6	–	1.2	1.1	0.7	0.1	–	<0.1	0.5	–	0.5	31	39	30
PAIL 39	29.8	17.5	33	10.5	4.5	0.7	2.5	–	1.1	0.1	–	–	–	–	0.3	37.1	21.8	41.1
PAIL 40A	28.8	35	22	7.2	0.8	0.6	2.6	1.6	0.5	0.1	–	0.4	–	–	0.4	33.56	40.79	25.65
PAIL 40B	29.3	18.8	33	7.1	4.7	2.7	3.1	–	0.5	0.1	–	0.4	–	–	0.3	36.12	23.18	40.7
PAIL 42	29.74	26.63	27.94	5.74	2.2	–	3	2.5	0.5	0.1	–	0.5	–	–	0.5	35.27	31.58	33.15
PAIL 43	22.5	5	40.9	12.1	1.2	8.5	6	0.3	1.7	0.1	1.5	–	–	–	0.2	32.9	7.3	59.8
PAIL 46	29.9	32.1	25.2	6.7	2.1	0.7	1.3	–	0.8	0.1	–	0.5	–	–	0.6	34.3	36.81	28.89
PAIL 47	30	32.9	24	6.5	2.2	–	2	0.3	0.5	0.1	–	<0.1	0.5	–	1	34.52	37.86	27.62

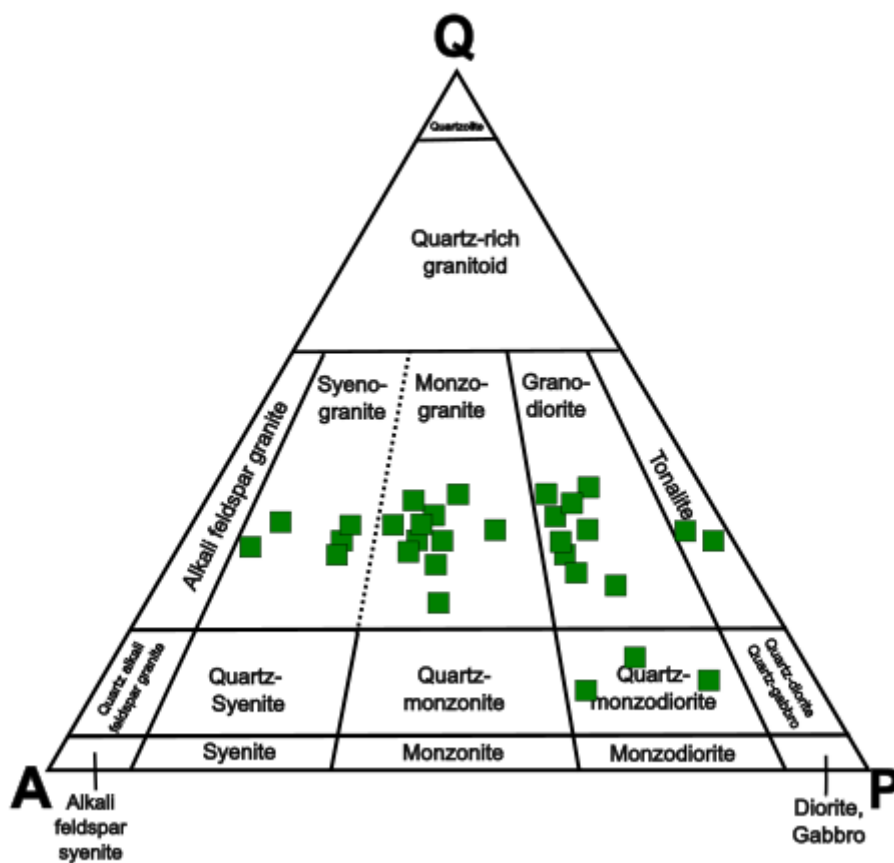


Figure 1: PAIC rocks classification by QAPF diagram (Le Maitre et al., 2002 based on Streckeisen, 1976)