

These recalculated by hand as follows, assuming all Fe is Fe²⁺

UB-5 GRAIN 1 CORE

	5.885	E		0.221	E
	3.279	E		0	E
	0.488	E		0	E
	0.401	E		5.98	E
ALM =	-2.03	0			
SPES =	0.00	0			
PYR =	6.41	0			
UWAR =	0.00	0			
ANRD =	19.98	0			
GROS =	75.63	0			
SI	5.885	0			
AL	0.115	0			
SUM Z		6.000	0		
AL	3.164	0			
CR	0.000	0			
FE+3	0.615	0			
TI	0.221	0			
SUM Y		4.000	0		
MG	0.401	0			
FE+2	-0.127	0			
MN	0.000	0			
CA	5.980	0			
SUM X		6.254	0		

UB-5 GRAIN 1 RIM

	5.906	E		0.248	E
	3.19	E		0	E
	0.478	E		0	E
	0.426	E		6.001	E
ALM =	-2.85	0			
SPES =	0.00	0			
PYR =	6.82	0			
UWAR =	0.00	0			
ANRD =	21.70	0			
GROS =	74.33	0			
SI	5.906	0			
AL	0.094	0			
SUM Z		6.000	0		
AL	3.096	0			
CR	0.000	0			
FE+3	0.656	0			
TI	0.248	0			
SUM Y		4.000	0		
MG	0.426	0			
FE+2	-0.178	0			
MN	0.000	0			
CA	6.001	0			
SUM X		6.249	0		

UB-5 GRAIN 2 CORE

	5.916	E		0.211	E
	3.23	E		0	E
	0.487	E		0.001	E
	0.46	E		5.954	E
ALM =	-2.49	0			
SPES =	0.02	0			
PYR =	7.35	0			
UWAR =	0.00	0			
ANRD =	20.31	0			
GROS =	74.82	0			
SI	5.916	0			
AL	0.084	0			
SUM Z		6.000	0		
AL	3.146	0			
CR	0.000	0			
FE+3	0.643	0			
TI	0.211	0			
SUM Y		4.000	0		
MG	0.460	0			
FE+2	-0.156	0			
MN	0.001	0			
CA	5.954	0			
SUM X		6.259	0		

UB-5 GRAIN 2 RIM

	5.917	E		0.193	E
	3.245	E		0	E
	0.447	E		0	E
	0.475	E		5.991	E
ALM =	-3.16	0			
SPES =	0.00	0			
PYR =	7.58	0			
UWAR =	0.00	0			
ANRD =	20.02	0			
GROS =	75.56	0			
SI	5.917	0			
AL	0.083	0			
SUM Z		6.000	0		
AL	3.162	0			
CR	0.000	0			
FE+3	0.645	0			
TI	0.193	0			
SUM Y		4.000	0		
MG	0.475	0			
FE+2	-0.198	0			
MN	0.000	0			
CA	5.991	0			
SUM X		6.268	0		

UB-5 GRAIN 3-CORE

	5.923	E		0.203	E
	3.239	E		0	E
	0.477	E		0	E
	0.426	E		5.988	E
ALM =	-2.53	0			
SPES =	0.00	0			
PYR =	6.81	0			
UWAR =	0.00	0			
ANRD =	20.05	0			
GROS =	75.66	0			
SI	5.923	0			
AL	0.077	0			
SUM Z		6.000	0		
AL	3.162	0			
CR	0.000	0			
FE+3	0.635	0			
TI	0.203	0			
SUM Y		4.000	0		
MG	0.426	0			
FE+2	-0.158	0			
MN	0.000	0			
CA	5.988	0			
SUM X		6.256	0		

UB-5 GRAIN 3 RIM

	5.937	E		0	E
	3.683	E		0	E
	0.49	E		0	E
	0.206	E		5.905	E
ALM =	1.77	0			
SPES =	0.00	0			
PYR =	3.31	0			
UWAR =	0.00	0			
ANRD =	9.02	0			
GROS =	85.90	0			
SI	5.937	0			
AL	0.063	0			
SUM Z		6.000	0		
AL	3.620	0			
CR	0.000	0			
FE+3	0.380	0			
TI	0.000	0			
SUM Y		4.000	0		
MG	0.206	0			
FE+2	0.110	0			
MN	0.000	0			
CA	5.905	0			
SUM X		6.221	0		

UB-5 AVERAGE

	5.914	E		0.179	E
	3.312	E		0	E
	0.478	E		0	E
	0.398	E		5.97	E
ALM =	-1.87	0			
SPES =	0.00	0			
PYR =	6.37	0			
UWAR =	0.00	0			
ANRD =	18.48	0			
GROS =	77.02	0			
SI	5.914	0			
AL	0.086	0			
SUM Z		6.000	0		
AL	3.226	0			
CR	0.000	0			
FE+3	0.595	0			
TI	0.179	0			
SUM Y		4.000	0		
MG	0.398	0			
FE+2	-0.117	0			
MN	0.000	0			
CA	5.970	0			
SUM X		6.251	0		

UB-5, GRAIN 1-CORE ✓

0	E	0	E
6.28	E	17.16	E
76.56	E		

SP+AL	0.00	0
GR	81.69	0
AND	18.31	0

PY+SP+AL	6.28	0
GR	76.56	0
AND	17.16	0

SP	0.00	0
GR	100.00	0
ALM	0.00	0

UB-5 - GRAIN 1 - Rim ✓

0	E	0	E
6.63	E	17.75	E
75.67	E		

SP+AL	0.00	0
GR	81.00	0
AND	19.00	0

PY+SP+AL	6.63	0
GR	75.63	0
AND	17.74	0

SP	0.00	0
GR	100.00	0
ALM	0.00	0

UB-5 GRAIN 2 - CORE ✓

0	E	0.02	E
7.2	E	16.85	E
75.93	E		

SP+AL	0.02	0
GR	81.82	0
AND	18.16	0

PY+SP+AL	7.22	0
GR	75.93	0
AND	16.85	0

SP	0.02	0
GR	99.97	0
ALM	0.00	0

UB-5 - GRAIN 2 - Rim ✓

0	E	0	E
7.35	E	15.6	E
77.05	E		

SP+AL	0.00	0
GR	83.15	0
AND	16.84	0

PY+SP+AL	7.35	0
GR	77.05	0
AND	15.60	0

SP	0.00	0
GR	100.00	0
ALM	0.00	0

UB-5, GRAIN 3 - CORE ✓

0	E	0	E
6.64	E	16.52	E
76.84	E		

SP+AL	0.00	0
GR	82.31	0
AND	17.69	0

PY+SP+AL	6.64	0
GR	76.84	0
AND	16.52	0

SP	0.00	0
GR	100.00	0
ALM	0.00	0

0	E	0	E
6.64	E	11.52	E
85.11	E		

SP+AL	0.00	0
GR	88.08	0
AND	11.92	0

PY+SP+AL	6.43	0
GR	82.43	0
AND	11.15	0

SP	0.00	0
GR	100.00	0
ALM	0.00	0

0	E	0	E
6.337	E		
0	E		

UB-5, GRAIN 3 - Rim ✓

0	E	0	E
3.37	E	11.52	E
85.11	E		

SP+AL	0.00	0
GR	88.08	0
AND	11.92	0

PY+SP+AL	3.37	0
GR	85.11	0
AND	11.52	0

SP	0.00	0
GR	100.00	0
ALM	0.00	0

UB-5 - AVERAGE ✓

0	E	0	E
6.25	E	15.86	E
77.89	E		

SP+AL	0.00	0
GR	83.08	0
AND	16.92	0

PY+SP+AL	6.25	0
GR	77.89	0
AND	15.86	0

SP	0.00	0
GR	100.00	0
ALM	0.00	0