



Table T3. Average values of mineral compositions. (See table notes.) (Continued on next eight pages.)

Core, section, interval (cm)	Depth (mbsf)	Rock name	Phase	Replicates	Mode of occurrence	AP	Major element oxide (wt%)															
							SiO ₂	TiO ₂	Al ₂ O ₃	Cr ₂ O ₃	FeO	MnO	MgO	CaO	Na ₂ O	K ₂ O	NiO	BaO	Total	An%	Mg#	Fo
312-1256D-172R-1, 12-14	1255.20	Type 3 metabasalt	Pl	N = 3	Phenocryst	Core	48.3	—	31.7	—	0.6	—	0.3	16.2	2.48	—	—	—	99.6	78.4		
				SD			1.2	—	0.9	—	0.1	—	0.0	1.0	0.59	—	—	—	0.2	5.1		
			Pl	N = 1	Phenocryst	Rim	51.0	—	29.6	—	0.7	—	0.3	14.1	3.62	—	—	—	99.4	68.2		
				SD			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
			Pl	N = 3	Lath	Core	50.6	—	30.7	—	0.7	—	0.3	14.9	3.13	—	—	—	100.4	72.5		
				SD			1.4	—	1.0	—	0.1	—	0.0	1.1	0.65	—	—	—	0.2	5.7		
			Pl	N = 3	Lath	Rim	50.7	—	30.6	—	0.6	—	0.3	14.8	3.23	—	—	—	100.3	71.8		
				SD			1.5	—	0.8	—	0.1	—	0.0	1.1	0.71	—	—	—	0.4	6.0		
			Cpx	N = 4	Phenocryst	Core	52.5	0.20	2.5	0.75	5.5	0.15	19.0	19.4	0.21	—	—	—	100.3		86.0	
				SD			0.2	0.04	0.5	0.14	0.1	0.01	0.5	0.4	0.01	—	—	—	0.1	0.2		
Cpx	N = 4	Phenocryst	Rim	52.2	0.37	2.9	0.32	6.6	0.18	18.4	19.1	0.20	—	—	—	100.3		83.2				
	SD			0.4	0.09	0.6	0.03	0.7	0.04	0.3	0.9	0.01	—	—	—	0.4	1.7					
Cpx	N = 6	Microlite	Core	51.9	0.40	3.3	0.29	6.9	0.20	18.4	18.7	0.22	—	—	—	100.4		82.5				
	SD			0.5	0.12	0.7	0.18	0.8	0.03	0.9	0.8	0.02	—	—	—	0.1	2.2					
174R-1, 32-34	1265.71	Type 3 metabasalt	Cpx	N = 3	Phenocryst	Core	51.5	0.29	3.5	1.02	5.4	0.12	18.3	19.5	0.19	—	—	—	99.9		85.7	
				SD			0.4	0.03	0.8	0.06	0.2	0.03	0.2	0.8	0.01	—	—	—	0.6	0.4		
			Cpx	N = 3	Phenocryst	Rim	51.9	0.44	2.8	0.34	7.1	0.12	18.1	18.5	0.18	—	—	—	99.5		82.0	
				SD			0.1	0.03	0.1	0.10	0.1	0.2	0.6	0.02	—	—	—	0.6	0.2			
			Cpx	N = 2	Microlite	Core	51.2	0.48	3.5	0.22	7.5	0.16	17.8	18.7	0.19	—	—	—	99.9		80.8	
SD	0.2	0.02		0.3			0.08	0.9	0.1	1.1	0.00	—	—	—	0.6	1.7						
176R-1, 21-24	1276.29	Type 3 metabasalt	Pl	N = 1	Lath	Core	51.8	—	29.3	—	0.8	—	0.2	12.8	4.18	—	—	—	99.1	62.8		
				SD			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
			Pl	N = 1	Lath	Rim	49.2	—	31.0	—	0.6	—	0.3	15.3	2.84	—	—	—	99.3	74.9		
				SD			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cpx	N = 6	Microlite	Core	51.0	0.58	3.8	0.18	8.5	0.20	16.4	18.9	0.38	—	—	—	100.1		77.3				
	SD			0.3	0.06	1.6	0.09	1.4	0.04	1.6	1.1	0.37	—	—	—	0.6	4.8					
178R-1, 0-3	1285.70	Type 3 metabasalt	Pl	N = 3	Lath	Core	50.9	—	30.0	—	0.6	—	0.3	14.4	3.43	—	—	—	99.7	69.8		
				SD			0.3	—	0.2	—	0.0	—	0.0	0.1	0.11	—	—	—	0.1	0.9		
			Pl	N = 2	Lath	Rim	52.4	—	29.0	—	0.7	—	0.2	13.0	4.20	—	—	—	99.6	63.1		
				SD			1.0	—	0.7	—	0.2	—	0.1	0.8	0.60	—	—	—	0.1	4.9		
			Cpx	N = 2	Microlite	Core	51.7	0.56	3.5	—	8.8	0.21	16.5	18.7	0.38	—	—	—	100.0		76.9	
SD	0.0	0.05		0.2			—	0.2	0.00	0.2	0.0	0.00	—	—	—	0.1	0.6					
193R-1, 5-8	1353.10	Type 6 metabasalt	Pl	N = 3	Microlite	Core	53.2	—	28.2	—	0.9	—	0.1	11.7	4.89	—	—	—	99.1	57.0		
				SD			0.0	—	0.2	—	0.1	—	0.0	0.2	0.05	—	—	—	0.1	0.4		
Cpx	N = 1	Phenocryst	Core	51.7	0.54	2.7	—	8.9	0.21	16.5	19.0	0.30	—	—	—	99.9		76.6				
	SD			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
194R-1, 29-33	1358.19	Type 7 metabasalt	Pl	N = 4	Lath	Core	51.9	0.07	29.4	—	0.8	—	0.1	13.3	4.03	—	—	—	99.7	64.6		
				SD			2.5	—	1.8	—	0.1	—	0.0	2.1	1.12	—	—	—	0.4	10.0		
			Pl	N = 2	Lath	Rim	51.9	—	29.5	—	0.7	—	0.1	13.3	4.10	—	—	—	99.8	64.3		
				SD			3.5	—	1.9	—	0.0	—	0.0	2.5	1.53	—	—	—	0.7	12.9		
			Cpx	N = 9	Microlite	Core	51.3	0.47	1.2	—	11.9	0.29	14.4	19.8	0.25	—	—	—	99.7		68.4	
SD	0.3	0.04		0.1			—	0.3	0.04	0.1	0.6	0.01	—	—	—	0.4	0.5					



Table T3 (continued). (Continued on next page.)

Core, section, interval (cm)	Depth (mbsf)	Rock name	Phase	Replicates	Mode of occurrence	AP	Major element oxide (wt%)																	
							SiO ₂	TiO ₂	Al ₂ O ₃	Cr ₂ O ₃	FeO	MnO	MgO	CaO	Na ₂ O	K ₂ O	NiO	BaO	Total	An%	Mg#	Fo		
196R-1, 43–46	1364.13	Type 7 metabasalt	Pl	N = 4	Microlite	Core	54.6	—	27.5	—	0.8	—	0.0	11.0	5.35	0.08	—	—	99.5	53.3				
				SD			1.8	—	1.3	—	0.1	—	0.0	1.1	0.66	—	—	0.2	5.5					
			Pl	N = 4	Lath	Core	52.3	0.09	29.1	—	0.8	—	0.1	12.4	4.43	0.07	0.17	—	—	99.3	60.8			
				SD			2.8	—	1.8	—	0.0	—	0.0	2.5	1.43	—	—	0.2	12.6					
			Cpx	N = 1	Secondary-type	Core	53.2	—	0.4	—	8.3	0.32	15.2	21.3	0.20	—	—	—	—	99.1		76.5		
SD																								
203R-1, 6–10	1374.89	Type 7 metabasalt	Pl	N = 22	Microlite	Core	54.8	—	27.3	—	0.8	—	0.1	10.5	5.53	—	—	—	99.3	51.2				
				SD			1.4	—	0.4	—	0.1	—	0.0	0.4	0.19	—	—	—	0.5	1.9				
			Cpx	N = 3	Phenocryst	Core	52.5	0.33	1.4	0.23	7.1	0.24	16.0	21.8	0.29	—	—	—	—	99.9		80.0		
				SD			0.7	0.23	0.7	—	1.4	0.02	0.9	1.2	0.04	—	—	—	0.5	3.7				
			Cpx	N = 3	Phenocryst	Rim	52.3	0.38	1.1	—	8.0	0.24	15.7	21.9	0.30	—	—	—	—	100.0		77.8		
				SD			0.2	0.20	0.5	—	0.9	0.04	0.3	1.4	0.05	—	—	—	0.2	2.3				
			Cpx	N = 9	Microgranular	Core	51.1	0.61	1.5	—	8.7	0.26	15.3	21.0	0.32	—	—	—	—	98.9		75.8		
				SD			0.5	0.05	0.1	—	0.4	0.03	0.3	0.5	0.02	—	—	—	0.6	0.9				
			204R-1, 0–4	1377.30	Type 7 metabasalt	Pl	N = 9	Subhedral	Core	53.3	0.07	28.8	—	0.8	—	0.0	12.1	4.71	—	—	—	99.9	58.7	
SD	1.7	—					1.1			—	0.1	—	0.0	1.5	0.78	—	—	—	0.3	6.8				
Pl	N = 5	Subhedral				Rim	53.6	—	28.7	—	0.9	—	0.1	12.2	4.75	—	—	—	—	100.2	58.6			
	SD						0.7	—	0.3	—	0.1	—	0.0	0.5	0.19	—	—	—	0.3	1.9				
Cpx	N = 4	Phenocryst				Core	51.6	0.47	1.3	—	12.5	0.33	14.2	19.4	0.24	—	—	—	—	100.2		67.0		
	SD						0.6	0.03	0.1	—	0.4	0.02	0.1	0.6	0.02	—	—	—	0.9	0.5				
Cpx	N = 4	Microgranular				Core	51.4	0.61	2.1	—	12.7	0.34	13.9	19.1	0.40	—	—	—	—	100.8		66.1		
	SD						0.4	0.14	1.7	—	0.7	0.06	0.9	0.4	0.31	—	—	—	0.1	0.3				
Opx	N = 8	Microgranular				Core	52.3	0.33	0.7	—	23.4	0.53	21.7	1.9	—	—	—	—	—	100.9		62.3		
	SD		0.5	0.03	0.0		—	0.9	0.03	0.6	0.2	0.01	—	—	—	0.6	1.5							
214R-1, 19–21	1411.10	Gabbro 1	Pl	N = 4	Subhedral	Core	51.9	—	29.7	—	0.7	—	0.1	13.3	4.15	—	—	—	99.8	63.9				
				SD			1.5	—	0.9	—	0.1	—	0.0	1.2	0.62	—	—	—	0.4	5.5				
			Pl	N = 2	Subhedral	Rim	52.3	—	29.5	—	0.7	—	0.1	12.8	4.39	—	—	—	—	99.7	61.9			
				SD			3.1	—	1.6	—	0.2	—	0.0	2.1	1.28	—	—	—	0.9	10.7				
			Cpx	N = 9	Igneous-type Subophitic domain	Core	51.0	0.46	3.4	0.73	7.2	0.12	16.8	20.2	0.24	—	—	—	—	100.1		80.7		
				SD			1.0	0.03	0.8	0.26	0.7	0.03	0.7	0.6	0.05	—	—	—	0.6	2.1				
			Cpx	N = 3	Igneous-type Coarse-grained domain	Core	52.1	0.66	1.8	0.26	10.7	0.21	15.3	20.0	0.25	—	—	—	—	101.2		71.8		
				SD			0.2	0.06	0.1	—	0.3	0.02	0.5	0.5	0.02	—	—	—	0.7	1.2				
			Opx	N = 14	Anhedral	Core	52.9	0.40	0.9	—	21.4	0.40	23.0	2.5	—	—	—	—	—	101.4		64.8		
SD	0.3	0.03		0.1			—	2.1	0.06	1.2	0.9	—	—	—	—	0.8	3.7							
214R-2, 24–57	1412.60	Gabbro 1	Pl	N = 3	Subhedral	Core	49.1	—	31.3	—	0.4	—	0.1	15.2	3.06	—	—	—	99.3	73.4				
				SD			1.4	—	0.8	—	0.1	—	0.0	1.1	0.64	—	—	—	0.2	5.6				
			Cpx	N = 6	Igneous-type Subophitic domain	Core	51.7	0.62	2.5	0.24	7.2	0.12	17.5	19.8	0.28	—	—	—	—	100.2		81.3		
				SD			0.6	0.05	0.5	0.06	0.5	0.02	0.5	0.7	0.06	—	—	—	0.5	1.5				
			Cpx	N = 3	Igneous-type Coarse-grained domain	Core	50.7	0.60	2.7	0.28	9.0	0.15	16.3	19.6	0.24	—	—	—	—	99.6		76.3		
SD	0.8	0.03	0.7	—			0.8	0.03	0.0	0.5	0.01	—	—	—	0.8	1.6								
214R-2, 78–81	1413.13	Gabbro 1	Pl	N = 2	Subhedral	Core	49.1	0.08	31.4	—	0.5	—	0.0	15.1	2.91	—	—	—	99.1	74.2				
				SD			1.1	—	1.0	—	0.0	—	0.0	1.0	0.70	—	—	—	0.2	5.9				
			Pl	N = 1	Subhedral	Rim	55.1	0.11	27.4	—	0.5	—	—	10.2	5.87	—	—	—	—	99.3	48.9			
SD																								



Table T3 (continued). (Continued on next page.)

Core, section, interval (cm)	Depth (mbsf)	Rock name	Phase	Replicates	Mode of occurrence	AP	Major element oxide (wt%)														
							SiO ₂	TiO ₂	Al ₂ O ₃	Cr ₂ O ₃	FeO	MnO	MgO	CaO	Na ₂ O	K ₂ O	NiO	BaO	Total	An%	Mg#
214R-3, 18–21	1413.99	Gabbro 1	Cpx	N = 6	Igneous-type Subophitic domain	Core	51.6	0.61	2.8	0.38	6.6	0.13	17.4	20.2	0.27	—	—	—	100.2	82.4	
			SD	0.3			0.05	0.2	0.10	0.3	0.03	0.3	0.5	0.01	—	—	—	0.3	0.6		
			Cpx	N = 6	Igneous-type Coarse-grained domain	Core	51.4	0.59	2.1	—	9.3	0.19	16.2	19.5	0.29	—	—	—	99.9	75.5	
			SD	0.4			0.05	0.3	—	1.1	0.06	0.6	0.4	0.01	—	—	—	0.3	2.9		
214R-3, 18–21	1413.99	Gabbro 1	Cpx	N = 6	Igneous-type Subophitic domain	Core	51.5	0.62	2.1	—	7.4	0.12	17.5	20.0	0.24	—	—	—	99.7	80.9	
			SD	0.5			0.18	0.5	0.04	0.2	—	0.3	0.1	0.01	—	—	—	0.3	0.3		
			Cpx	N = 3	Igneous-type Coarse-grained domain	Core	50.8	0.87	1.6	—	13.1	0.30	14.5	18.9	0.24	—	—	—	100.0	66.3	
			SD	0.4			0.13	0.2	—	0.8	0.07	0.5	0.6	0.02	—	—	—	0.8	1.9		
215R-1, 20–23	1415.92	Gabbro 1	Pl	N = 1	Subhedral	Core	48.7	—	31.6	—	0.3	—	0.1	15.5	2.70	—	—	0.17	99.1	76.0	
			SD	—			—	—	—	—	—	—	—	—	—	—	—	—	—	—	
			Pl	N = 1	Subhedral	Rim	49.5	—	30.9	—	0.4	—	0.1	14.9	3.13	—	—	—	99.2	72.5	
			SD	—			—	—	—	—	—	—	—	—	—	—	—	—	—	—	
			Cpx	N = 9	Igneous-type Subophitic domain	Core	51.8	0.54	2.4	0.22	6.7	0.22	17.7	20.2	0.22	—	—	0.16	100.2	82.4	
			SD	0.5			0.06	0.5	0.09	0.6	0.03	0.4	0.6	0.03	—	—	0.04	0.4	1.3		
			Cpx	N = 3	Igneous-type Coarse-grained domain	Core	50.8	0.63	2.2	—	11.1	0.32	16.4	17.6	0.20	—	—	0.19	99.6	72.4	
			SD	0.3			0.13	0.3	—	2.0	0.05	0.9	0.8	0.02	—	—	0.04	1.2	4.5		
Opx	N = 8	Anhedral	Core	51.8	0.43	0.6	—	23.7	0.52	21.4	2.1	—	—	—	0.17	100.9	61.6				
SD	0.3			0.05	0.3	—	1.9	0.11	1.7	0.4	—	—	—	0.05	0.5	3.8					
Ol	N = 3	Anhedral	Core	38.7	—	—	—	20.4	0.28	42.5	0.0	—	—	0.12	—	102.1	78.8				
SD	0.1			—	—	—	1.1	0.01	1.0	0.0	—	—	0.02	—	0.4	1.3					
Ol	N = 2	Anhedral	Rim	38.0	—	—	—	21.8	0.28	41.3	0.1	—	—	0.14	—	101.6	77.2				
SD	0.6			—	—	—	0.6	0.02	0.6	0.0	—	—	0.00	—	0.7	0.8					
215R-2, 56–59	1417.69	Gabbro 1	Pl	N = 3	Subhedral	Core	50.6	0.07	30.8	—	0.6	—	0.1	14.1	3.45	—	—	—	99.8	69.3	
			SD	1.9			—	1.5	—	0.0	—	0.0	1.6	0.73	—	—	—	0.5	7.0		
			Pl	N = 3	Subhedral	Rim	55.2	—	27.3	—	0.6	—	0.0	10.2	5.71	0.13	—	—	99.2	49.7	
			SD	3.1			—	2.1	—	0.1	—	0.0	2.4	1.34	—	—	—	0.1	11.6		
			Cpx	N = 7	Igneous-type	Core	52.5	0.44	2.3	0.46	5.8	0.15	18.1	20.0	0.22	—	—	—	100.0	84.7	
			SD	0.5			0.04	0.5	0.24	0.7	0.03	0.4	0.4	0.02	—	—	—	0.5	1.6		
			Opx	N = 10	Anhedral	Core	52.8	0.38	0.8	—	23.2	0.46	22.2	2.2	—	—	—	—	102.1	62.3	
			SD	0.6			0.10	0.1	—	2.6	0.10	1.1	1.6	—	—	—	—	0.7	2.9		
Opx	N = 6	Within olivine pseudomorph	Core	54.8	0.07	0.9	—	19.2	0.52	26.7	0.3	—	—	—	—	102.5	71.2				
SD	0.5			—	0.5	—	0.6	0.08	0.5	0.1	—	—	—	—	0.5	0.9					
216R-1, 72–75	1418.62	Gabbro 1	Cpx	N = 9	Igneous-type	Core	52.2	0.42	1.8	0.19	6.3	0.20	18.0	20.4	0.20	—	—	0.16	99.9	83.7	
			SD	0.3			0.05	0.2	0.23	0.4	0.03	0.2	0.2	0.02	—	—	0.02	0.4	0.9		
Opx	N = 8	Anhedral	Core	52.4	0.41	1.1	—	19.7	0.42	23.4	2.6	—	—	—	0.21	100.3	67.9				
SD	0.7			0.08	0.4	—	1.3	0.04	0.6	0.6	—	—	—	0.02	0.4	1.9					
216R-1, 138–142	1419.19	Gabbro 1	Pl	N = 8	Subhedral	Core	49.8	—	31.2	—	0.5	—	0.0	15.2	2.98	—	—	—	99.8	73.9	
			SD	1.1			—	0.9	—	0.1	—	0.0	1.0	0.53	—	—	—	0.5	4.6		
			Pl	N = 9	Subhedral	Rim	51.2	—	30.2	—	0.5	—	0.0	14.0	3.64	0.11	—	—	99.7	68.1	
SD	1.9	—	1.3	—			0.0	—	0.0	1.5	0.85	—	—	—	0.3	7.4					
Cpx	N = 10	Igneous-type	Core	52.9	0.46	2.0	0.35	5.8	—	17.9	20.8	0.20	—	—	—	100.6	84.5				
SD	0.5			0.05	0.4	0.12	0.2	—	0.3	0.3	0.02	—	—	—	0.4	0.5					



Table T3 (continued). (Continued on next page.)

Core, section, interval (cm)	Depth (mbsf)	Rock name	Phase	Replicates	Mode of occurrence	AP	Major element oxide (wt%)															
							SiO ₂	TiO ₂	Al ₂ O ₃	Cr ₂ O ₃	FeO	MnO	MgO	CaO	Na ₂ O	K ₂ O	NiO	BaO	Total	An%	Mg#	Fo
217R-1, 94-97	1422.54	Gabbro 1	Pl	N = 7	Subhedral	Core	53.0	—	28.8	—	0.5	—	0.0	12.5	4.51	0.14	—	—	99.5	60.6		
				SD			2.3	—	1.4	—	0.1	—	0.0	1.7	1.03	—	—	—	0.4	8.7		
			N = 3	Subhedral	Rim	54.2	—	28.2	—	0.5	—	—	11.7	5.14	—	—	—	99.8	55.9			
SD	2.4	—	1.4			—	0.0	—	1.9	1.14	—	—	—	0.4	9.6							
			Cpx	N = 8	Igneous-type	Core	52.5	0.48	2.3	0.49	5.5	—	17.7	20.9	0.21	—	—	—	100.1	85.2		
				SD			0.4	0.06	0.6	0.14	0.5	—	0.5	0.3	0.02	—	—	—	0.5	1.6		
218R-1, 1-3	1430	Gabbro 1	Cpx	N = 9	Igneous-type	Core	52.4	0.54	2.0	0.15	7.4	—	17.5	20.2	0.21	—	—	—	100.5	80.8		
				SD			0.5	0.17	0.2	0.11	1.9	0.01	0.6	1.2	0.02	—	—	—	0.4	2.1		
219R-1, 5-8	1430.05	Gabbro 1	Pl	N = 7	Subhedral	Core	50.2	—	30.7	—	0.5	—	0.0	14.6	3.39	—	—	—	99.5	70.4		
				SD			0.9	—	0.8	—	0.1	—	0.0	0.7	0.42	—	—	—	0.4	3.6		
			N = 6	Subhedral	Rim	53.2	0.09	28.7	—	0.6	—	0.1	12.0	4.79	—	—	—	99.4	58.1			
			SD			1.4	—	1.1	—	0.1	—	0.0	1.0	0.62	—	—	—	0.3	5.3			
			Cpx	N = 6	Igneous-type	Core	52.5	0.41	2.3	0.58	5.8	—	17.8	20.9	0.24	—	—	—	100.6	84.6		
				SD			0.3	0.08	0.5	0.28	0.5	—	0.3	0.2	0.03	—	—	—	0.3	1.2		
			Opx	N = 5	Anhedral	Core	53.3	0.45	0.8	—	19.6	0.35	24.5	1.9	—	—	—	101.0	69.1			
				SD			0.4	0.05	0.1	—	1.0	0.06	0.6	0.1	—	—	—	0.8	1.6			
Ol	N = 5	Anhedral	Core	36.9	—	—	—	30.3	0.40	34.7	0.1	—	—	0.08	—	102.4			67.1			
	SD			0.4	—	—	—	0.7	0.01	0.7	0.0	—	—	0.01	—	0.4	0.9					
Ol	N = 5	Anhedral	Rim	37.0	—	—	—	31.2	0.42	33.9	0.0	—	—	0.08	—	102.6			66.0			
	SD			0.4	—	—	—	0.8	0.02	0.4	0.0	—	—	0.01	—	0.8	0.8					
222R-1, 73-78	1445.33	Gabbro 1	Pl	N = 7	Subhedral	Core	50.1	—	30.8	—	0.6	—	0.1	14.7	3.34	—	—	—	99.5	70.9		
				SD			1.4	—	1.0	—	0.1	—	0.0	1.2	0.66	—	—	—	0.2	5.7		
			Pl	N = 5	Subhedral	Rim	52.0	0.09	29.6	—	0.6	—	0.0	13.2	4.22	—	—	—	99.7	63.3		
				SD			1.2	0.01	0.8	—	0.1	—	0.0	1.1	0.62	—	—	—	0.5	5.4		
			Cpx	N = 6	Igneous-type	Core	52.3	0.46	2.6	0.60	5.3	—	17.7	20.8	0.25	—	—	—	100.1	85.6		
				SD			0.2	0.07	0.3	0.14	0.1	—	0.1	0.1	0.02	—	—	—	0.3	0.4		
			Opx	N = 7	Anhedral	Core	53.5	0.62	1.2	—	16.5	0.29	26.3	2.1	—	—	—	100.6	74.0			
				SD			0.2	0.11	0.1	—	0.5	0.04	0.2	0.2	0.01	—	—	—	0.5	0.6		
Ol	N = 3	Subhedral	Core	37.8	—	—	—	27.8	0.38	36.6	0.0	—	—	0.10	—	102.8			70.1			
	SD			0.9	—	—	—	0.1	0.01	0.0	0.0	—	—	0.00	—	1.0	0.1					
Ol	N = 3	Subhedral	Rim	37.6	—	0.1	—	28.1	0.35	36.4	0.0	—	—	0.10	—	102.7			69.8			
	SD			1.0	—	0.1	—	0.3	0.01	0.3	0.0	—	—	0.01	—	1.3	0.4					
222R-2, 60-63	1446.70	Gabbro 1	Pl	N = 4	Subhedral	Core	50.0	—	31.6	—	0.5	—	0.0	15.0	3.08	—	—	—	100.2	72.9		
				SD			1.3	—	0.9	—	0.1	—	0.0	1.3	0.61	—	—	—	0.3	5.6		
			Pl	N = 5	Subhedral	Rim	51.8	0.10	30.4	—	0.5	—	0.0	13.5	3.92	—	—	—	100.2	65.6		
				SD			1.5	0.02	1.1	—	0.1	—	0.0	1.2	0.77	—	—	—	0.4	6.4		
			Cpx	N = 4	Igneous-type	Core	52.3	0.42	2.7	0.85	5.7	—	17.3	21.4	0.29	—	—	—	101.0	84.4		
				SD			0.3	0.03	0.3	0.14	0.5	—	0.2	0.0	0.04	—	—	—	0.2	1.3		
			Opx	N = 4	Anhedral	Core	53.8	0.45	0.9	—	17.9	0.37	25.8	1.9	—	—	—	101.2	72.0			
				SD			0.1	0.03	0.1	—	0.4	0.06	0.2	0.1	—	—	—	0.5	0.3			
Ol	N = 5	Subhedral	Core	37.3	—	—	—	30.3	0.37	34.6	0.0	—	—	0.08	—	102.7			67.1			
	SD			0.6	—	—	—	0.2	0.01	0.1	0.0	—	—	0.01	—	0.8	0.2					
Ol	N = 5	Subhedral	Rim	36.8	—	—	—	30.4	0.38	34.5	0.0	—	—	0.08	—	102.3			67.0			
	SD			0.7	—	—	—	0.4	0.00	0.4	0.0	—	—	0.00	—	0.9	0.4					
223R-1, 8-12	1449.37	Gabbro 1	Pl	N = 5	Subhedral	Core	51.0	—	30.2	—	0.5	—	0.0	13.8	3.79	—	—	—	99.5	66.9		
				SD			1.3	—	1.0	—	0.1	—	0.0	1.1	0.71	—	—	—	0.3	6.0		
			Pl	N = 5	Subhedral	Rim	51.6	—	30.0	—	0.6	—	0.0	13.4	4.07	—	—	—	99.7	64.5		
				SD			0.9	—	0.8	—	0.1	—	0.0	0.9	0.49	—	—	—	0.3	4.3		



Table T3 (continued). (Continued on next page.)

Core, section, interval (cm)	Depth (mbsf)	Rock name	Phase	Replicates	Mode of occurrence	AP	Major element oxide (wt%)															
							SiO ₂	TiO ₂	Al ₂ O ₃	Cr ₂ O ₃	FeO	MnO	MgO	CaO	Na ₂ O	K ₂ O	NiO	BaO	Total	An%	Mg#	Fo
223R-2, 133-137	1452.11	Gabbro 1	Cpx	N = 5	Igneous-type	Core	52.6	0.39	2.1	0.33	6.1	0.11	17.8	21.0	0.20	—	—	—	100.7	83.9		
				SD			0.2	0.04	0.1	0.08	0.2	0.01	0.3	0.2	0.02	—	—	—	0.3	0.6		
			Opx	N = 8	Anhedral	Core	53.3	0.54	1.1	—	17.3	0.32	25.9	1.9	—	—	—	—	—	100.6	72.7	
				SD			0.3	0.07	0.2	—	0.4	0.02	0.3	0.1	—	—	—	0.5	0.4			
			Ol	N = 5	Subhedral	Core	38.4	—	—	—	29.2	0.38	34.7	0.2	—	—	0.08	—	—	103.0	—	67.9
				SD			0.3	—	—	—	0.5	0.01	0.2	0.3	—	—	0.00	—	—	0.3	—	0.5
			Ol	N = 5	Subhedral	Rim	38.3	—	—	—	29.9	0.37	34.2	0.1	—	—	0.08	—	—	103.0	—	67.1
				SD			0.3	—	—	—	0.5	0.02	0.6	0.0	—	—	0.02	—	—	0.3	—	0.8
			Pl	N = 4	Subhedral	Core	52.2	—	29.5	—	0.5	—	0.0	12.9	4.34	—	—	—	—	99.6	62.1	
							SD	0.4	—	0.5	—	0.1	—	0.0	0.3	0.25	—	—	—	—	0.3	1.9
			Pl	N = 5	Subhedral	Rim	52.8	—	29.1	—	0.7	—	0.0	12.3	4.68	—	—	—	—	99.6	59.1	
							SD	0.3	—	0.2	—	0.0	—	0.0	0.2	0.06	—	—	—	—	0.5	0.7
			Pl	N = 7	Microgranular	Core	50.1	—	31.2	—	0.3	—	0.0	14.6	3.29	—	—	—	—	99.5	71.0	
							SD	1.7	—	1.0	—	0.1	—	0.0	1.4	0.76	—	—	—	0.3	6.7	
Cpx	N = 3	Igneous-type	Core	51.6	0.62	1.9	—	8.3	0.18	15.2	21.8	0.34	—	—	—	—	100.3	—	76.5			
				SD	0.2	0.11	0.1	—	0.2	0.01	0.1	0.1	0.02	—	—	—	0.3	—	0.3			
Cpx	N = 6	Secondary-type	Core	53.4	—	0.4	—	6.9	0.20	15.3	24.2	0.09	—	—	—	—	100.6	—	79.8			
				SD	0.3	—	0.2	—	0.7	0.04	0.4	0.8	0.04	—	—	—	0.5	—	2.0			
Cpx	N = 7	Microgranular	Core	51.7	0.68	2.1	0.30	9.1	0.23	16.0	19.6	0.32	—	—	—	—	100.0	—	75.8			
				SD	0.3	0.13	0.1	0.10	0.4	0.04	0.4	0.8	0.03	—	—	—	0.6	—	0.8			
Opx	N = 8	Anhedral	Core	53.3	0.54	1.2	—	16.9	0.32	26.0	2.2	—	—	—	—	—	100.6	—	73.2			
				SD	0.3	0.05	0.1	—	0.6	0.04	0.3	0.3	—	—	—	—	0.6	—	0.8			
Ol	N = 8	Interstitial	Core	38.0	0.05	—	—	29.1	0.37	34.4	0.1	—	—	0.07	—	—	102.0	—	67.8			
				SD	0.2	0.01	—	—	0.2	0.03	0.2	0.0	—	—	0.01	—	—	0.3	—	0.3		
Ol	N = 5	Interstitial	Rim	38.0	0.06	—	—	29.1	0.37	34.3	0.1	—	—	0.07	—	—	101.9	—	67.7			
				SD	0.2	0.00	—	—	0.4	0.03	0.4	0.0	—	—	0.01	—	—	0.4	—	0.5		
226R-1, 0-4	1463.90	Type 8 metabasalt; UDS	Pl	N = 2	Subhedral	Core	52.5	—	29.6	—	0.4	—	—	12.5	4.37	—	—	—	99.5	61.4		
							SD	0.3	—	0.0	—	0.1	—	—	0.4	0.06	—	—	—	0.0	0.4	
			Pl	N = 3	Subhedral	Rim	54.5	—	28.3	—	0.4	—	—	11.2	5.38	—	—	—	—	100.0	53.5	
SD	1.4	—					0.7	—	0.0	—	—	0.9	0.54	—	—	—	0.3	4.5				
Cpx	N = 7	Secondary-type	Core	52.5	0.16	0.6	—	10.0	0.23	14.4	22.1	0.24	—	—	—	—	100.4	—	71.9			
				SD	0.3	0.11	0.2	—	0.4	0.04	0.3	0.7	0.06	—	—	—	0.3	—	0.8			
230R-1, 19-21	1483.19	Gabbro 2	Pl	N = 7	Subhedral	Core	54.3	—	28.3	—	0.6	—	0.1	11.0	5.27	—	—	—	99.6	53.6		
							SD	0.5	—	0.3	—	0.1	—	0.0	0.5	0.24	—	—	—	0.4	2.2	
			Pl	N = 5	Subhedral	Rim	55.7	—	27.3	—	0.6	—	0.0	10.0	6.00	—	—	—	99.7	47.9		
							SD	1.7	—	0.9	—	0.1	—	0.0	1.0	0.68	—	—	—	0.5	5.4	
Cpx	N = 7	Amphibole-type	Core	52.5	0.16	0.6	—	10.0	0.23	14.4	22.1	0.24	—	—	—	—	100.4	—	71.9			
				SD	0.3	0.07	0.2	—	0.4	0.04	0.3	0.7	0.06	—	—	—	0.3	—	0.8			
Opx	N = 9	granular	Core	52.6	0.35	0.8	—	22.5	0.46	22.2	1.9	—	—	—	—	—	100.9	—	63.7			
				SD	0.2	0.08	0.2	—	0.6	0.04	0.3	0.3	—	—	—	—	0.4	—	0.8			
230R-1, 81-84	1483.81	Gabbro 2	Pl	N = 5	Subhedral	Core	54.3	0.09	28.2	—	0.5	—	0.1	11.1	5.40	—	—	—	99.7	53.3		
							SD	0.5	0.01	0.2	—	0.2	—	0.1	0.2	0.20	—	—	—	0.4	1.4	
			Pl	N = 5	Subhedral	Rim	56.7	—	26.7	—	0.4	—	—	9.2	6.35	—	—	—	99.4	44.3		
							SD	1.5	—	1.4	—	0.1	—	—	1.7	0.87	—	—	—	0.8	8.0	
Cpx	N = 3	Igneous-type	Core	51.7	0.57	1.3	—	10.6	0.26	14.9	20.6	0.34	—	—	—	—	100.5	—	71.6			
				SD	0.4	0.09	0.3	—	0.4	0.03	0.1	0.4	0.04	—	—	—	0.6	—	0.9			
Cpx	N = 6	Secondary-type	Core	53.2	0.07	0.3	—	8.4	0.15	14.3	22.9	0.64	—	—	—	—	100.2	—	75.2			



Table T3 (continued). (Continued on next page.)

Core, section, interval (cm)	Depth (mbsf)	Rock name	Phase	Replicates	Mode of occurrence	AP	Major element oxide (wt%)																
							SiO ₂	TiO ₂	Al ₂ O ₃	Cr ₂ O ₃	FeO	MnO	MgO	CaO	Na ₂ O	K ₂ O	NiO	BaO	Total	An%	Mg#	Fo	
230R-1, 139-142	1484.38	Gabbro 2	Opx	SD	granular	Core	0.3	0.01	0.1		0.9	0.05	0.4	0.3	0.13				0.4	2.4			
				N = 16			52.5	0.39	0.8	—	22.1	0.45	22.4	1.9	—	—	—	—	100.9	64.4			
			PI	SD	Subhedral	Core	0.2	0.03	0.1		0.7	0.05	0.5	0.1						0.6	1.1		
				N = 5			53.2	0.09	28.7	—	0.7	0.11	0.1	12.0	4.79	—	—	—	99.7	58.0			
			230R-2, 32-36	1484.58	Gabbro 2	PI	SD	Subhedral	Rim	0.8	0.00	0.7		0.1	0.00	0.0	0.7	0.44				0.3	3.7
							N = 3			53.8	0.08	28.2	—	0.7	—	0.1	11.5	5.10	—	—	—	99.6	55.4
Cpx	SD	Igneous-type				Core	0.8	0.01	0.8		0.1	0.0	0.9	0.44						0.3	4.0		
	N = 6						52.8	0.07	0.4	—	10.1	0.27	14.0	22.7	0.24	—	—	—	100.7	71.2			
230R-2, 104-109	1485.54	Gabbro 2				Cpx	SD	Amphibole-type	Core	0.3	0.04	0.2		0.6	0.02	0.2	0.4	0.06				0.4	1.5
							N = 6			51.9	0.52	1.2	—	10.2	0.25	14.7	20.9	0.41	—	—	—	100.3	72.1
			PI	SD	Subhedral	Core	0.7	0.21	0.5		1.0	0.04	0.4	0.9	0.17					0.6	1.7		
				N = 5			51.2	—	30.2	—	0.6	—	0.1	13.6	3.91	—	—	—	99.7	65.8			
			231R-1, 19-22	1487.90	Gabbro 2	PI	SD	Subhedral	Rim	0.4	—	0.4		0.1	—	0.0	0.5	0.19				0.4	1.9
							N = 3			53.1	—	29.0	—	0.5	—	0.0	11.9	4.79	0.08	—	—	99.5	57.9
Cpx	SD	Igneous-type				Core	0.2	0.1	0.1		0.1	0.0	0.2	0.15						0.1	1.2		
	N = 6						52.1	0.30	0.9	—	10.3	0.34	14.6	21.6	0.30	—	—	—	100.6	71.7			
231R-2, 35-39	1489.54	Gabbro 2				Cpx	SD	Amphibole-type	Core	0.3	0.03	0.3		0.5	0.05	0.3	0.3	0.05				0.3	1.3
							N = 6			52.8	0.07	0.4	—	10.1	0.27	14.0	22.7	0.24	—	—	—	100.7	71.2
			Opx	SD	Anhedral	Core	0.3	0.04	0.2		0.6	0.02	0.2	0.4	0.06					0.4	1.5		
				N = 13			52.7	0.50	0.8	—	21.8	0.54	22.9	2.0	—	—	—	—	101.3	65.2			
			231R-1, 19-22	1487.90	Gabbro 2	PI	SD	Subhedral	Core	0.4	0.07	0.2		0.9	0.04	0.5	0.2					0.5	1.4
							N = 5			52.1	—	29.4	—	0.6	—	0.1	12.8	4.30	—	—	—	99.4	62.3
PI	SD	Subhedral				Rim	0.8	—	0.8		0.1	—	0.0	0.7	0.49					0.4	3.9		
	N = 3						53.1	—	28.8	—	0.6	—	0.0	12.1	4.72	—	—	—	99.5	58.6			
231R-2, 35-39	1489.54	Gabbro 2				Cpx	SD	Igneous-type	Core	1.4	1.0	1.0		0.1	—	0.0	1.4	0.77				0.3	6.8
							N = 14			52.1	0.40	1.1	—	10.2	0.22	14.7	21.5	0.27	—	—	—	100.7	72.0
			Cpx	SD	Amphibole-type	Core	0.6	0.23	0.5		1.4	0.06	0.6	1.5	0.03					0.6	2.8		
				N = 2			52.4	0.20	1.0	—	10.0	0.22	14.3	21.7	0.28	—	—	—	100.3	72.0			
			231R-1, 19-22	1487.90	Gabbro 2	Opx	SD	Anhedral	Core	0.5	0.00	0.5		1.3	0.01	0.0	1.2	0.02				0.0	2.6
							N = 8			53.0	0.49	0.9	—	21.1	0.39	23.8	2.0	—	—	—	—	101.8	66.9
PI	SD	Subhedral				Core	0.3	0.05	0.1		1.1	0.03	0.6	0.1						0.5	1.7		
	N = 7						50.4	0.09	30.7	—	0.6	—	0.0	14.1	3.54	0.08	0.22	—	99.5	68.7			
231R-1, 19-22	1487.90	Gabbro 2				PI	SD	Subhedral	Rim	0.3	0.02	0.2		0.1	—	0.0	0.5	0.22				0.4	2.1
							N = 5			52.7	0.07	29.2	—	0.5	—	0.0	12.1	4.69	0.08	—	—	99.5	58.8
			Cpx	SD	Igneous-type	Core	1.5	0.00	0.9		0.1	—	0.0	1.4	0.68	0.00				0.2	6.2		
				N = 7			51.9	0.57	1.7	—	10.2	0.21	15.7	20.3	0.21	—	—	—	101.0	73.4			
			231R-2, 35-39	1489.54	Gabbro 2	Cpx	SD	Amphibole-type	Core	0.5	0.08	0.4		2.1	0.08	1.4	0.6	0.03				0.3	5.6
							N = 4			52.5	0.24	1.1	—	9.3	0.24	14.8	21.7	0.30	—	—	—	100.3	73.9
Opx	SD	Anhedral				Core	0.5	0.11	0.6		0.2	0.03	0.2	1.0	0.06					0.8	0.3		
	N = 7						52.9	0.56	0.9	—	20.5	0.39	24.2	2.0	—	—	—	—	101.8	67.8			
231R-2, 35-39	1489.54	Gabbro 2				PI	SD	Subhedral	Core	0.2	0.03	0.0		0.6	0.05	0.3	0.0					0.8	0.6
							N = 5			50.6	0.08	30.4	—	0.5	—	0.0	13.8	3.68	—	—	—	99.2	67.5
			PI	SD	Subhedral	Rim	1.4	—	0.9		0.1	—	0.0	1.2	0.70					0.3	6.1		
				N = 5			52.9	—	28.8	—	0.5	—	0.1	11.9	4.87	—	—	—	99.1	57.4			
			Cpx	SD	Igneous-type	Core	0.6	0.4	0.4		0.1	—	0.1	0.6	0.27					0.1	2.5		
				N = 15			51.2	0.68	1.7	0.15	10.3	0.23	15.1	20.0	0.27	—	—	—	99.8	72.4			
Cpx	SD	Amphibole-type	Core	0.4	0.14	0.3		1.2	0.07	0.7	0.8	0.04						0.7	3.0				
	N = 6			51.7	0.36	1.9	0.32	9.0	0.20	14.8	21.4	0.26	—	—	—	100.0	74.5						



Table T3 (continued). (Continued on next page.)

Core, section, interval (cm)	Depth (mbsf)	Rock name	Phase	Replicates	Mode of occurrence	AP	Major element oxide (wt%)															
							SiO ₂	TiO ₂	Al ₂ O ₃	Cr ₂ O ₃	FeO	MnO	MgO	CaO	Na ₂ O	K ₂ O	NiO	BaO	Total	An%	Mg#	Fo
231R-2, 95-98	1490.14	Gabbro 2	Opx	SD	Anhedral	Core	0.5	0.20	0.8	0.11	1.6	0.06	1.0	1.3	0.03					0.3		4.4
				N = 9			52.6	0.50	0.9	—	20.0	0.39	23.6	2.1	—	—	—	—	100.3		67.7	
				SD			0.3	0.05	0.1		0.7	0.05	0.3	0.1					0.4		1.0	
			Pl	N = 3	Subhedral	Core	50.2	0.08	30.9	—	0.6	—	0.1	14.3	3.40	—	—	—	99.6	69.9		
				SD			0.5		0.1		0.1		0.0	0.4	0.17				0.4		1.6	
			Pl	N = 2	Subhedral	Rim	53.2	0.09	28.6	—	0.7	—	0.1	11.4	4.94	—	—	—	99.1	56.1		
				SD			0.9	0.02	0.5		0.2		0.0	0.8	0.46				0.2		4.0	
			Cpx	N = 8	Igneous-type	Core	51.9	0.55	2.2	0.23	7.2	0.14	17.3	20.5	0.25	—	—	—	100.5		81.0	
				SD			0.4	0.12	0.2	0.18	1.2	0.03	0.9	0.5	0.04				0.3		3.4	
			Cpx	N = 5	Amphibole-type	Core	52.4	0.16	0.6	—	10.0	0.22	14.4	22.1	0.23	—	—	—	100.3		72.1	
SD	0.3	0.04		0.2				0.9	0.02	0.5	0.6	0.08				0.3		2.4				
Opx	N = 6	Anhedral	Core	52.7	0.54	0.9	—	20.9	0.42	23.6	2.1	—	—	—	—	101.6		66.8				
	SD			0.3	0.03	0.1		0.2	0.03	0.3	0.2					0.4		0.4				
231R-3, 59-63	1491.15	Gabbro 2	Pl	N = 3	Subhedral	Core	50.9	0.10	29.9	—	0.6	—	0.1	13.5	3.94	—	—	—	99.1	65.4		
				SD			3.0	0.02	1.9		0.0		0.0	2.2	1.24				0.2		10.9	
			Pl	N = 1	Subhedral	Rim	53.3	0.08	28.5	—	0.4	—	0.0	11.7	5.07	—	—	—	99.2	56.1		
				SD																		
			Cpx	N = 6	Igneous-type	Core	52.2	0.43	2.0	0.27	7.3	0.14	17.3	20.4	0.24	—	—	—	100.5		80.8	
				SD			0.3	0.04	0.1	0.04	0.9	0.04	0.5	0.4	0.02				0.4		2.2	
			Cpx	N = 3	Amphibole-type	Core	52.7	0.16	0.8	—	8.7	0.20	14.9	22.8	0.22	—	—	—	100.6		75.5	
				SD			0.3	0.02	0.3		0.3	0.05	0.2	0.4	0.01				0.5		0.8	
			Opx	N = 6	Anhedral	Core	52.9	0.53	0.8	—	20.8	0.38	23.8	2.1	—	—	—	—	101.5		67.1	
				SD			0.4	0.12	0.1		0.7	0.04	0.3	0.4					0.7		0.9	
Ol	N = 2	Interstitial	Core	38.0	—	0.0	—	29.4	0.44	34.3	0.0				0.07	102.3		67.6				
	SD			0.1	—	—		0.0	0.00	0.4	0.0				0.00	0.4		0.2				
Ol	N = 2	Interstitial	Rim	38.1	—	0.0	—	28.7	0.44	34.8	0.0				0.06	102.1		68.4				
	SD			0.0	—	—		0.1	0.05	0.4	0.0				0.00	0.4		0.2				
231R-4, 70-74	1492.63	Gabbro 2	Pl	N = 8	Subhedral	Core	51.7	0.12	29.8	—	0.5	—	0.0	13.0	4.14	—	—	—	99.3	63.5		
				SD			1.1		0.8		0.1		0.0	0.9	0.49				0.2		4.4	
			Pl	N = 1	Subhedral	Rim	52.7	—	28.8	—	0.8	—	0.0	12.1	4.66	—	—	—	99.2	59.0		
				SD																		
			Cpx	N = 7	Igneous-type	Core	51.5	0.64	1.9	0.23	8.7	0.18	15.5	21.0	0.24	—	—	—	100.0		75.9	
				SD			0.4	0.16	0.4	0.07	1.6	0.05	1.4	0.7	0.02				0.5		4.7	
			Cpx	N = 6	Amphibole-type	Core	52.8	0.09	0.5	—	7.9	0.14	15.1	22.8	0.31	—	—	—	99.8		77.3	
				SD			0.1	0.01	0.2		1.0	0.02	0.5	0.7	0.13				0.3		2.7	
			Opx	N = 9	Anhedral	Core	52.6	0.48	1.0	—	19.9	0.36	23.9	1.9	—	—	—	—	100.4		68.1	
				SD			0.1	0.06	0.1		0.4	0.06	0.2	0.2					0.4		0.6	
Ol	N = 3	Anhedral	Core	38.8	—	—	—	25.1	0.41	37.6	0.0				0.08	102.0		72.7				
	SD			0.2	—	—		0.7	0.01	0.5	0.0				0.01	0.1		0.8				
Ol	N = 3	Anhedral	Rim	39.1	—	0.0	—	24.5	0.38	38.4	0.0				0.08	102.5		73.6				
	SD			0.5	—	0.0		0.8	0.03	0.9	0.0				0.00	0.7		1.1				
232R-1, 36-39	1493.26	Gabbro 2	Pl	N = 1	Subhedral	Core	54.2	—	27.7	—	0.6	—	0.1	11.0	5.17	—	—	—	98.9	54.0		
				SD																		
			Pl	N = 1	Subhedral	Rim	53.4	—	28.4	—	0.4	—	0.0	11.6	5.13	—	—	—	99.0	55.6		
				SD																		
			Cpx	N = 3	Igneous-type	Core	51.7	0.55	1.7	—	10.6	0.29	14.9	20.4	0.39	—	—	—	100.8		71.4	
				SD			0.6	0.16	0.4		0.9	0.03	0.4	0.7	0.17				0.4		1.2	
Cpx	N = 6	Amphibole-type	Core	52.4	0.26	1.8	—	8.3	0.23	15.1	21.8	0.50	—	—	—	100.5		76.4				
	SD			0.3	0.07	1.1		0.5	0.03	0.6	1.0	0.29				0.6		1.5				



Table T3 (continued). (Continued on next page.)

Core, section, interval (cm)	Depth (mbsf)	Rock name	Phase	Replicates	Mode of occurrence	AP	Major element oxide (wt%)																	
							SiO ₂	TiO ₂	Al ₂ O ₃	Cr ₂ O ₃	FeO	MnO	MgO	CaO	Na ₂ O	K ₂ O	NiO	BaO	Total	An%	Mg#	Fo		
232R-1, 78–82	1493.68	Gabbro 2	Opx	N = 6	Anhedral		52.9	0.42	0.8	—	20.1	0.42	24.5	1.9	—	—	—	—	101.1		68.5			
				SD			0.5	0.17	0.2	—	0.5	0.03	0.5	0.4	—	—	—	—	0.6		1.0			
			Ol	N = 11	Anhedral	Core	38.4	—	0.0	—	27.5	0.40	36.0	0.0	—	—	—	—	0.06	102.4			70.0	
				SD			0.2	—	0.0	—	0.4	0.01	0.4	0.0	—	—	—	—	0.01	0.3			0.6	
			Ol	N = 7	Anhedral	Rim	38.5	—	0.0	—	27.1	0.40	36.4	0.1	—	—	—	—	0.07	102.6			70.6	
				SD			0.2	—	0.0	—	0.4	0.01	0.4	0.0	—	—	—	—	0.01	0.2			0.5	
						Pl	N = 6	Subhedral	Core	51.1	—	30.1	—	0.6	—	0.0	13.6	3.82	—	—	—	99.3	66.3	
							SD		0.7	—	0.6	—	0.0	—	0.0	0.7	0.52	—	—	—	0.1	4.2		
						Pl	N = 5	Subhedral	Rim	55.4	—	27.6	—	0.4	—	0.0	10.1	5.96	—	—	—	99.5	48.4	
							SD		1.1	—	0.8	—	0.1	—	0.0	1.0	0.50	—	—	—	0.3	4.5		
			Cpx	N = 5	Igneous-type	Core	51.4	0.62	1.8	0.18	9.3	0.24	15.6	20.6	0.30	—	—	—	100.1		74.9			
				SD		0.3	0.10	0.2	—	0.5	0.07	0.1	0.6	0.02	—	—	—	0.4		0.8				
			Cpx	N = 14	Amphibole-type	Core	52.5	0.10	0.6	—	8.5	0.23	14.7	23.0	0.21	—	—	—	100.1		75.5			
				SD		0.4	0.04	0.2	—	0.6	0.06	0.3	0.3	0.06	—	—	—	0.4		1.6				
			Opx	N = 14	Anhedral		52.8	0.46	0.9	—	18.9	0.40	24.8	2.0	—	—	—	100.3		70.1				
				SD		0.2	0.04	0.2	—	0.8	0.03	0.4	0.1	—	—	—	—	0.4		1.2				
			Opx	N = 3	Granular		54.2	0.27	0.8	—	17.1	0.38	27.3	0.9	—	—	—	101.0		72.6				
				SD		0.9	0.08	0.3	—	1.2	0.03	1.7	0.8	—	—	—	—	0.4		0.4				
232R-2, 10–14	1494.08	Gabbro 2	Pl	N = 1	Subhedral	Core	52.2	—	29.2	—	0.6	—	0.1	12.3	4.43	—	—	—	98.8	60.5				
				SD																				
			Pl	N = 1	Subhedral	Rim	54.4	—	28.1	—	0.5	—	0.1	10.6	5.42	—	—	—	—	99.1	51.9			
				SD																				
			Cpx	N = 7	Amphibole-type	Core	53.2	0.14	0.7	—	9.0	0.23	15.0	22.4	0.33	—	—	—	—	101.1		74.9		
				SD			0.4	0.10	0.4	—	0.6	0.05	0.6	0.9	0.09	—	—	—	—	0.3		1.7		
232R-2, 73–76	1494.71	Gabbro 2	Opx	N = 8	Anhedral		53.1	0.48	0.7	—	20.7	0.45	24.5	1.8	—	—	—	—	102.0		67.9			
				SD			0.2	0.02	0.1	—	0.9	0.05	0.5	0.2	—	—	—	—	0.4		1.4			
			Pl	N = 4	Subhedral	Core	49.4	—	31.0	—	0.7	—	0.1	15.1	3.04	—	—	—	—	99.4	73.3			
				SD			1.0	—	0.6	—	0.1	—	0.0	0.6	0.40	—	—	—	—	0.2	3.4			
			Pl	N = 3	Subhedral	Rim	50.8	—	30.1	—	0.7	—	0.1	13.7	3.70	—	—	—	—	99.1	67.2			
				SD			1.7	—	0.9	—	0.2	—	0.0	1.5	0.83	—	—	—	—	0.1	7.3			
233R-1, 4–7	1497.50	Type 8 metabasalt; LDS	Cpx	N = 2	Igneous-type	Core	52.9	0.30	1.9	0.56	5.5	0.18	18.3	20.8	0.20	—	—	—	100.7		85.5			
				SD			0.0	0.01	0.0	0.07	0.0	0.01	0.0	0.0	0.00	—	—	—	0.1		0.0			
			Cpx	N = 3	Amphibole-type	Core	52.1	0.44	1.4	0.18	9.9	0.25	15.1	20.6	0.25	—	—	—	—	100.3		73.2		
				SD			0.7	0.17	0.6	—	1.4	0.06	0.5	1.3	0.01	—	—	—	—	0.6		3.3		
			Opx	N = 8	Anhedral		53.3	0.48	0.9	—	18.7	0.40	25.4	1.9	—	—	—	—	—	101.1		70.8		
				SD			0.3	0.06	0.2	—	0.9	0.06	0.8	0.2	—	—	—	—	—	0.6		1.6		
233R-1, 4–7	1497.50	Type 8 metabasalt; LDS	Pl	N = 3	Subhedral	Core	53.4	—	28.7	—	0.5	—	0.0	11.6	4.96	—	—	—	99.3	56.4				
				SD			1.3	—	0.8	—	0.0	—	0.0	0.9	0.45	—	—	—	0.4	4.0				
			Pl	N = 2	Subhedral	Rim	54.1	—	28.2	—	0.6	—	0.0	11.1	5.34	—	—	—	—	99.5	53.4			
				SD			0.5	—	0.0	—	0.0	—	0.0	0.0	0.06	—	—	—	—	0.6	0.1			
			Cpx	N = 2	Igneous-type	Core	51.3	0.62	1.7	—	10.4	0.25	15.1	20.4	0.35	—	—	—	—	100.2		72.1		
				SD			0.5	0.09	0.4	—	0.5	0.04	0.1	0.7	0.06	—	—	—	—	0.7		0.9		
			Cpx	N = 3	Amphibole-type	Core	53.5	0.11	0.5	—	7.2	0.18	15.7	22.9	0.32	—	—	—	—	100.6		79.7		
				SD			0.1	0.02	0.1	—	0.1	0.07	0.1	0.3	0.04	—	—	—	—	0.3		0.3		
233R-1, 4–7	1497.50	Type 8 metabasalt; LDS	Cpx	N = 3	Secondary-type	Core	53.2	0.08	0.3	—	8.6	0.16	14.8	22.7	0.55	—	—	—	100.5		75.5			
				SD			0.1	0.02	0.1	—	1.0	0.03	0.7	0.5	0.22	—	—	—	0.4		2.9			
			Opx	N = 15	Microgranular		52.9	0.39	0.8	—	20.5	0.41	23.8	1.9	—	—	—	—	100.9		67.4			



Table T3 (continued).

Core, section, interval (cm)	Depth (mbsf)	Rock name	Phase	Replicates	Mode of occurrence	AP	Major element oxide (wt%)															
							SiO ₂	TiO ₂	Al ₂ O ₃	Cr ₂ O ₃	FeO	MnO	MgO	CaO	Na ₂ O	K ₂ O	NiO	BaO	Total	An%	Mg#	Fo
234R-1, 1-2	1502.50	Type 8 metabasalt; LDS	Pl	SD	Phenocryst	Core	0.2	0.04	0.1		0.4	0.04	0.2	0.2					0.6		0.5	
				N = 2			49.8	—	30.8	—	0.8	—	0.0	14.7	3.17	—	—	—	99.3	72.0		
			Pl	SD	Phenocryst	Rim	0.3		0.1		0.1		0.0	0.1	0.14					0.1	0.8	
				N = 2			54.5	0.09	28.1	—	0.7	—	0.0	11.2	5.24	—	—	—	99.8	54.1		
			Pl	SD	Microgranular	Core	0.4		0.1		0.2		0.0	0.0	0.23					0.4	1.2	
				N = 5			54.3	—	28.1	—	0.6	—	0.0	11.0	5.46	—	—	—	99.5	52.7		
			Cpx	SD	Phenocryst	Core	0.3		0.2		0.0		0.0	0.2	0.08					0.3	0.7	
				N = 4			51.4	0.54	1.6	0.33	9.9	0.22	14.9	21.1	0.30	—	—	—	100.2		72.8	
			Cpx	SD	Phenocryst	Rim	0.3		0.14	0.3	0.17	0.5	0.02	0.1	0.4	0.06				0.4	1.1	
				N = 1			51.4	0.63	1.8	—	9.6	0.24	14.6	21.5	0.32	—	—	—	100.3		73.1	
Cpx	SD	Microgranular	Core	0.3		0.12	0.2		0.6	0.05	0.2	0.7	0.03				0.4	0.9				
	N = 6			51.7	0.54	1.3	—	9.9	0.26	15.0	21.2	0.24	—	—	—	100.2		73.1				
234R-1, 7-9	1502.57	Type 8 metabasalt; LDS	Pl	SD	Phenocryst	Core	50.7	—	30.4	—	0.6	—	—	14.0	3.47	—	—	—	99.3	69.1		
				N = 3			0.2		0.2		0.1			0.2	0.06				0.3	0.6		
			Pl	SD	Phenocryst	Rim	52.6	—	29.3	—	0.5	—	0.0	12.5	4.42	—	—	—	99.3	61.0		
				N = 2			2.9		1.6		0.0		0.0	2.2	1.31				0.4	11.2		
			Pl	SD	Microgranular	Core	54.3	—	28.1	—	0.6	—	0.0	11.2	5.17	—	—	—	99.4	54.6		
				N = 2			0.6		0.2		0.0		0.0	0.2	0.34				0.5	2.1		
			Cpx	SD	Phenocryst	Core	50.8	0.58	1.5	—	9.2	0.25	14.5	22.0	0.32	—	—	—	99.2		73.8	
				N = 1			51.4	0.54	1.3	—	9.6	0.23	14.9	21.3	0.30	—	—	—	99.6		73.4	
			Cpx	SD	Phenocryst	Rim	51.4	0.54	1.3	—	9.6	0.23	14.9	21.3	0.30	—	—	—	99.6		73.4	
				N = 1			51.8	0.56	1.3	—	10.0	0.25	15.0	20.9	0.27	—	—	—	100.0		72.7	
Cpx	SD	Microgranular	Core	0.3		0.13	0.1		0.5	0.05	0.2	0.5	0.03				0.5	0.9				
	N = 6			52.5	0.41	0.8	—	21.4	0.43	23.1	1.7	—	—	—	—	100.5		65.8				
Opx	SD	Microgranular		52.5	0.41	0.8	—	21.4	0.43	23.1	1.7	—	—	—	—	100.5		65.8				
	N = 12			0.3	0.04	0.1		0.4	0.04	0.3	0.2					0.6		0.6				
Detection limits:																						
Pl, Cpx, and Opx							0.0	0.07	0.0	0.14	0.1	0.10	0.0	0.0	0.06	0.07	0.12	0.16				
Ol							0.0	0.04	0.0	0.04	0.0	0.02	0.0	0.0			0.02					

Notes: Replicate N = number of analyses and SD = standard deviation of the mean of replicates. AP = analyzed position in the crystal. An% = anorthite mol%. Mg# = 100 × Mg/(Mg + Fe), Fo = forsterite mol%. UDS = upper dike screen, LDS = lower dike screen. Pl = plagioclase, Cpx = clinopyroxene, Opx = orthopyroxene, Ol = olivine. — = below detection limit, blank cell = not analyzed.