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Title of article Early Cretaceous volcanism on the northeastern American margin and implications for plate tectonics

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Contents 4 pages

Tables A, B., and C

TABLE A - ELECTRON MICROPROBE AVERAGE ANALYSES OF CLINOPYROXENE

	Hercules 2540-2550 ft.	Argo 3400-3410 ft.	Jason 4520-4530 ft.	Hesper 8960-8970 ft.
SiO_2	46.98	47.89	46.55	48.13
TiO_2	3.14	2.92	3.21	2.33
Al_2O_3	4.68	3.84	4.46	3.29
FeO	11.17	11.76	11.47	11.68
MnO	0.26	0.21	0.24	0.24
MgO	12.04	12.39	12.12	12.73
CaO	20.62	21.19	21.20	20.81
Na_2O	0.38	0.47	0.56	0.53
K_2O	-	-	-	-
Total	99.27	100.67	99.81	99.74
No. of analyses	7	8	6	8
Atomic Formulae on the basis of 6 oxygens				
Si	1.80	1.81	1.78	1.84
Al^{iv}	0.20	0.17	0.20	0.15
Al^{iv}	0.01	-	-	-
Ti	0.09	0.08	0.09	0.07
Fe	0.36	0.37	0.37	0.37
Mn	0.01	0.01	0.01	0.01
Mg	0.69	0.70	0.69	0.72
Ca	0.85	0.86	0.87	0.85
Na	0.03	0.04	0.04	0.04
K	-	-	-	-

TABLE B - REPRESENTATIVE ELECTRON-MICROPROBE ANALYSES OF BIOTITE, AMPHIBOLE AND ZEOLITE

	Biotite			Amphibole	Zeolite	
	Hercules	Argo	Hesper	Jason	Hercules	Hesper
	2540-2550 ft.	3400-3410 ft.	8990-9000 ft.	4520-4530 ft.	2540-2550 ft.	8990-9000 ft.
SiO_2	39.33	39.64	38.95	44.99	47.30	49.99
TiO_2	4.87	5.11	3.31	2.56	-	-
Al_2O_3	12.22	11.76	12.54	6.83	22.44	23.01
FeO	13.29	14.97	14.99	13.60	0.44	0.18
MnO	-	0.06	0.08	0.25	-	-
MgO	16.78	16.58	17.21	14.50	-	-
CaO	0.05	-	0.06	10.94	1.79	0.87
Na_2O	0.75	0.82	0.86	3.06	14.93	12.57
K_2O	9.17	8.77	9.25	1.30	1.78	-
Total	96.46	97.25	97.25	98.03	88.68	86.62

TABLE C - EXAMPLES OF ELECTRON MICROPROBE ANALYSES OF SECONDARY MINERALS.

	IDDINGSITE			CHLORITES					
	Argo		Jason	Hercules					
	3400-3410 ft.		4520-4530 ft.	2460-2470 ft.				2540-2550 ft.	
	Bright orange	Brown	Clean brown	1	2	3	4	5	6
SiO_2	46.26	47.22	47.53	37.03	30.56	30.97	34.39	37.61	32.72
TiO_2	0.10	0.15	0.14	0.18	0.11	0.51	0.72	-	0.02
Al_2O_3	4.99	4.98	2.43	9.69	11.02	11.78	13.77	12.28	12.59
FeO	27.61	27.85	25.44	18.55	25.80	28.31	24.71	19.02	29.81
MnO	0.03	0.04	0.68	0.17	0.58	0.41	0.42	0.26	0.33
MgO	8.51	8.46	10.21	14.02	10.85	9.55	12.53	16.24	12.41
CaO	1.16	1.07	0.40	0.92	1.09	1.16	0.90	0.99	0.36
Na_2O	0.70	1.04	0.42	0.36	0.42	0.49	0.39	0.46	0.22
K_2O	0.41	0.46	0.28	0.10	0.15	0.08	0.11	0.07	0.02
Total	89.77	91.26	87.53	81.02	80.58	83.36	87.95	86.93	88.48
No. of analyses	3	1	2	5	2	2	1	2	4

TABLE C - CONTINUED

CHLORITES

	Argo	Jason			Hesper	
	3400-3410 ft.	4520-4530 ft.			8960-8970 ft.	
	7	8	9	10	11	12
SiO_2	34.64	37.09	32.41	33.53	28.02	30.46
TiO_2	0.09	0.14	-	-	-	0.04
Al_2O_3	13.78	10.51	12.87	10.69	15.90	13.76
FeO	24.96	21.63	29.70	25.89	34.11	31.76
MnO	0.11	0.25	0.32	0.14	-	0.17
MgO	14.41	15.01	12.41	15.44	8.79	11.40
CaO	0.56	1.35	0.54	1.18	0.79	0.80
Na_2O	0.34	0.43	0.42	0.32	0.16	0.23
K_2O	0.07	0.47	0.07	0.04	0.05	0.03
Total	89.50	86.88	88.44	87.23	87.83	88.65
No. of analyses	5	4	2	1	1	7

Alterations products in Porphyritic basalt; in Holocrystalline basalt (5-12). (1) Yellow to brown-yellow fine-grained aggregates; (2) Brown to colourless euhedral crystal; (3) Yellow anhedral crystals lining a spherule; (4) Green core of spherule (with brown rims of composition similar to 1); (5) Dusty green patches (? pseudomorph); (6) Green and brown-green anhedral crystals; (7) Green anhedral crystals; (8) Green, brown and dusty brown fine grained aggregates; (9) Green and brown-green euhedral crystals; (10) and (11) Extreme compositions; (12) Average composition of green and brown crystals (10 and 11 also included).