

Table 1: EWS309 Dredge Haul Recovery

Station ID #	Latitude Longitude	Depth (meters)	Feature Dredged	Date	Rock Recovery	Glass Recovery	Weight (kg)
1D	45°08'S 4°24.5'W	2782-2492	Seamount, SW end of Discovery Chain	11/26/93	20 kg rounded erratic (coarse granite) with 2-3 mm thick Mn coating two 10x8x5 cm Mn crusts rounded cobbles (10-15)	n/a	18
2D	47°32.9'S 10°11.1'W	2552-2435	Small volcano - center of MAR rift valley floor - over Discovery gravity high	11/27/93	2D-2: one large pillow w/glass crust ~1 cm thick 2D-1, 3: 3 very fresh glassy slabs several other pillows of the same type with little glass left	2D-4g: glass nuggel 2D-5,6,7,8,9g: small glass chips station glass in bag #3	247
3D	47°47.7'S 10°09.2'W	2654-2444	Center of MAR rift valley floor - over Discovery gravity high	11/28/93	pillow basalt fragment with some glass: 2-3 types 3D-1: older with crust and thick glass, thin Mn coating, plagiophyric 3D-2: large, glassy, hydrothermal stain, younger 3D-3: fresh, glassy, bread brown crust, plagiophyric 3D-4: small pillow with some fresh glass (mostly peeled off) 3D-5: very large pillow with some glass, thin Mn coating (older) 3D-10: serpentine 2 or 3 pieces of serpentine	3D-6,7,8,9g: glass nuggels	441
4D	47°58'S 10°05'W	2990-2800	East flank of volcanic ridge - center of MAR rift valley floor over Discovery gravity high	11/28/93	very fresh glassy pillows with abundant glass and crust 4D-3: 10x10 cm slab of glass/crust 4D-4: 6x6 cm slab of glass/crust 4D-5: small glassy pillow 4D-6: small glassy pillow, crust 4D-7: 15x15 cm glass/crust 4D-8: 20x20 cm glass/crust	4D-1g: rognon 4D-2g: 4x3 cm glass slab 4D-9,10,11,12,13,14,15 g: 2x3cm slabs of pure, very fresh glass 2 bags of station glass in bag#1	182

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5D	48°14.4'S 9°59.7'W	3525-3380	Volcanic ridge - center of MAR rift valley floor over Discovery gravity high	11/28/93	pillow basalt fragments with minor glass preserved (5D-1, 5D-2, 5D-3, 5D-4, 5D-5)	glass chips (5D-6g, 5D-7g, 5D-8g, 5D-9g)	272
6D	48°33.21'S 10°10.0'W	3279-3255	Center of MAR rift valley floor over Discovery gravity high	11/28/93	one fragment of pillow with some glass remaining	6D-1g (glass from pillow)	25
7D	48°45.6'S 10°04.2'W	3272-3163	Deep - MAR rift valley floor	11/29/93	1. aphyric pillow basalt with some glass preserved (7D-1, 7D-2) 2. highly plagiophyric pillow with bread crust (very large pillow)(7D-3) & fragment of same type	6D-2g (fresh glass chip 3x2cm) 6D-3g (fresh glass chip) 6D-4g (small fresh glass chip) fresh station glass (abundant nuggets - one snapped) 7D-4g, 7D-5g, 7D-6g, 7D-7g, 7D-8g, 7D-9g : aphyric type glass nugget or chips 7D-10g: plagiophyric type	250
8D	48°57.8'S 9°58.4'W	3911-3876	Elongated volcano - center of MAR rift valley floor - south end of Discovery gravity high	11/29/93	1 small pillow basalt w/minor glass remaining (8D-1)	4 pieces of glassy (variolitic?) basalt (1 to 2cm)(8D-2g, 8D-3g, 8D-4g, 8D-5g)	20
9D	49°8.8'S 9°54.6'W	4004-3780	Two small hills in center of MAR rift valley floor (south end of Discovery gravity high)	11/29/93	Three generations of basalts: (1) extremely fresh, highly glassy slabs (9D-1) (2) two pillow fragments with some glass retained (9D-2) (3) small highly plagiophyric pillow with fresh striated brown breadlike crust (9D-3) two types of pillow basalts:	abundant station glass nuggets (9D-4g, 9D-5g, 9D-6g, 9D-7g) two bags of station glass (bag #1)	150
10D	49°14.7S 8°8.4'W	3970-3750	MAR valley floor - nodal deep at RTI	11/30/93	(1) older type (up slope talus) with some glass preserved and plagiophyric (most abundant) (10D-1, 10D-2) (2) deep in valley flow - fresh glassy, plagiophyric basalt (10D-3)	glass nuggets (10D-4g, 10D-5g, 10D-6g) some station glass type 1 & 2	241
11D	49°26.6'S 7°58.0'W	3884-3852	Center of MAR rift valley floor	11/30/93	pillow basalt fragment with glass (11D-1) slabs with glass (11D-2, 11D-3) slabs without glass	glass nuggets (11D-4g, 11D-5g, 11D-6g, 11D-7g, 11D-8g, 11D-9g)	255

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12D	49°45.4'S 8°2.0'W	3951-3797	Two small hills in center of MAR rift valley floor	11/30/93	plagiophytic pillow basalts with brown-striated glassy crust (12D-1, 12D-2) glassy pillow-less plagiophytic (12D-3) flat size pillows (12D-4, 12D-5)	massive glass (12D-6g) plagiophytic glass-2x3cm size (12D-7g, 12D-8g) more massive glass (12D-9g) glass chip (12D-10g) glass nugget (12D-11g) 2 bags of station glass plagiophytic and one small with selected chips - highly granular	250
13D	49°59.6'S 7°52.9'W	3646-3464	Small volcano in center of MAR rift valley floor	12/1/93	fresh glassy pillow basalts - some aa like pieces as well (13D-1, 13D-2, 13D-3, 13D-4, 13D-5)	glass nuggets (13D-6g, 13D-7g, 13D-8g, 13D-9g, 13D-10g, 13D-11g, 13D-12g, 13D-13g, 13D-14g) one bag station glass	218
14D	50°16'S 7°3.7'W	3387-3307	Volcanic ridge in center of MAR rift valley floor	12/1/93	large pillow basalts with some glass preserved and thin coating of Mn large pillow: 14D-1 smaller pillow: 14D-2 thick slab: 14D-3 small pillow minor glass: 14D-4	station glass chips - minor amount 3x5x1cm glass crust with Mn coating: 14D-6g	222
15D	50°34.7'S 6°25.7'W	3021-2939	Center of MAR rift valley floor - north part of Shona gravity high	12/1/93	very fresh and glassy pillow basalts and slabs - abundant glass nuggets & chips. Some blueish hydrothermal stains. One older pillow w/ glass: 15D-4 15D-1: large pillow w/ glass 15D-2: glassy slab (hydrothermal stained) 15D-3 loaflike pillow w/ glass	abundant station glass nuggets in burlap bag #1	227
16D	50°49.8'S 6°25.7'W	2874-2863	Basin on flank of MAR axis	12/2/93	empty haul; lost dredge bag inside!		
17D	50°45.4'S 6°20.2'W	3050-2835	Small volcano in center of MAR rift valley floor - north transition zone of Shona gravity high	12/3/93	two very large pillow basalt with some glass preserved and thin Mn coating (17D-1, 17D-2) small pillow piece with glass: 17D-4	glass nuggets (17D-5g, 17D-6g, 17D-7g, 17D-8g, 17D-9g) minor station glass minor mud (glob ooze)	181

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Station ID #	Latitude Longitude	Depth (meters)	Feature Dredged	Date	Rock Recovery	Glass Recovery	Weight (kg)
18D	51°03.2'S 6°11.9'W	2029-1953	Elevated ridge axis over Shona gravity high (saddle point) - over axi-symmetric magnetic anomaly	12/4/93	pillow basalts and slab with glass and thin Mn coating ropey type slabs (18D-1, 18D-3) small pillow fragments (18D-2, 18D-3) glacial erratics (quartz pebbles, schist, granodiorite, limestone?) large pillow basalt fragment, highly vesicular with some glass and thin Mn-coating (19D-1, 19D-2)	minor station glass	136
19D	51°03.7'S 6°09.5'W	1800-1686	Elevated ridge axis over Shona gravity high - east flank of elevated ridge	12/4/93	small pillow fragments with glass (19D-3) pillow fragment w/ vesicles (19D-7) small piece with pipe vesicles for Phillippe Sarda (19D-8) glacial erratics	glass trumps (19D-4g, 19D-5g, 19D-6g) minor station glass	227

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Station ID #	Latitude Longitude	Depth (meters)	Feature Dredged	Date	Rock Recovery	Glass Recovery	Weight (kg)
20D	51°25.7'S 5°46.8'W	1739-1699	Elevated MAR axis over Shona gravity high - axial part	12/5/93	two types: 1) very fresh glassy basalt and dark brown crust slabs (20D -1, 20D-2, 20D-3, 20D-4) 2) older type with glass and brown crust: 20D -5	some station glass: glass nuggets - type 1) some plagioclase (20D-6g, 20D-7g, 20D-8g, 20D-9g) type 2)(20D-10g) some brown glassy scrapped for station glass	45
21D	51°49.3'S 5°30.2'W	2070-1980	MAR elevated ridge axis - southern part of Shona gravity high	12/6/93	highly plagiophyric pillow basalts with some brown glassy crust retained, uniform (21D-1)		227
22D	52°27.5'S 4°34.0'W	3222-2896	Center of MAR rift valley floor - south of Shona gravity high	12/7/93	very fresh highly glassy basaltic slabs (22D-1, 22D-2) pillows (22D-3) pillow with minor glass (22D-5) older type pillow with minor glass (22D-4)	abundant station glass nuggets (22D-6g, 22D-7g, 22D-8g, 22D-9g)	32
23D	52°9.4'S 5°20.4'W	2664-2554	Small hill in MAR rift valley floor - southern part of Shona gravity high	12/7/93	1 large, very fresh, glassy basalt (23D-1)	small slabs of very fresh highly glassy basalt with dark brown crust (23D-2g, 23D-3g) abundant station glass	20
24D	50°27.5'S 6°32.0'W	3378-2988	MAR rift valley floor - northern rifted part of Shona gravity high	12/8/93	two small fist-size pillow plagiophyric basalts 24D-1 with very fresh glass 24D-2 with no glass	two small very fresh, glassy slabs with dark brown crust 24D-3g: 4x6x2cm 24D-4g: thin glassy crust	0.5
25D	47°20.9'S 10°19.2'W	2087-1977	Volcano in center of MAR rift valley floor - north end of Discovery gravity high	12/10/93	small pillow fragments with very fresh and thick glass (25D-1, 25D-2, 25D-3)	large glass nuggets (25D-4g, 25D-5g, 25D-6g)	23
26D	47°21.2'S 13°23.9'W	3914-3800	MAR-Falkland RTI - central ridge in nodal deep	12/10/93	a few pillow basalt fragments with some glass retained (26D-1, 26D-2)	large glass "scale" type (25D-7g) good station glass nuggets (25D-stg) one small glass nuggets (26D-3g)	27
27D	47°6.4'S 13°23.9'W	3163-2998	Small volcano in center of MAR rift valley floor	12/11/93	one large fresh highly plagiophyric glass with dark brown crust pillow basalt (27D-1) few smaller fragments of the same (27D-2)	one small glass nugget (27D-4g) glass chip with crust (27D-3g) also plagiophyric minor station glass	136

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Station ID #	Latitude Longitude	Depth (meters)	Feature Dredged	Date	Rock Recovery	Glass Recovery	Weight (kg)
28D	46°54.0'S 13°27.2'W	3433-3400	Small volcano in center of MAR rift valley floor	12/11/93	two types: 1) most abundant very fresh glassy brown crust, highly plagiophyric pillow (28D-1); basalts and slabs (28D-2) (stratified crust) 2) aphyric pillow basalt fragments (28D-3, 28D-4)	abundant plagiophyric glass nuggets - very fresh (28D-5g, 28D-6g, 28D-7g, 28D-8g)	196
29D	46°39.9'S 13°25.6'W	3860-3850	Deep basin in MAR rift valley floor	12/11/93	empty dredge	empty dredge	
30D	46°35.5'S 13°23.1'W	3211-3095	Small ridge in center of MAR rift valley floor	12/11/93	possibly three types: 1) plagiophyric pillow basalt with fresh granular glass and brown crust (30D-1) most abundant 2) older type, aphyric pillow basalt with black glass remaining (30D-2); 3) three small slabs with very fresh glass and dark brown crust, essentially aphyric (30D-3, 30D-4)	minor chips of glass with brown crust	113
31D	46°23.3'S 13°27.3'W	2852-2792	Small volcano in center of MAR rift valley floor	12/12/93	two pillow fragments with some glass retained (scale type) (31D-1 (largest), 31D-2)	scale type glass from pillows	5
32D	46°13.6'S 13°33.3'W	3121-3095	Small ridge in MAR rift valley floor at RT1 (small transform)	12/12/93	pillow basalt fragments - possible 4 types: 1) most abundant - highly plagiophyric with some glass and crust preserved (32D-1) slab (32D-2) 2) grenade like plagiophyric, fresher (32D-4), but very small 4) small older slab w/glass and palagonite (32D-5)	a few glass nuggets (32D-6g, 32D-7g, 32D-8g (older type), 32D-9g)	136
33D	45°59.4'S 14°4.6'W	3550-3212	Volcanic ridge n MAR rift valley floor (20km long segment) (oblique section north of Discovery anomaly)	12/13/93	three types: 1) aphyric basalts, small grenade size pillow with very fresh glass (mostly peeled off) (33D-1, 33D-2) 2) older pillow with minor glass remaining (33D-3, 33D-4)	3) abundant glass nmuggets (probably belonging to type 1) with minor rock attached (33D-5g, 33D-6g, 33D-7g, 33D-8g, 33D-9g) 4) pure glass nuggets (33D-10g, 33D-11g) a bag of "serpentinite" fragments	154

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Station ID #	Latitude Longitude	Depth (meters)	Feature Dredged	Date	Rock Recovery	Glass Recovery	Weight (kg)
34D	45°50.8'S 14°11.6'W	3501-3384	Small volcanic ridge in MAR rift valley floor (short 20km long segment) (oblique section north of Discovery anomaly)	12/13/93	fresh glassy pillow basalt fragments (34D-1, 34D-2, 34D-3) small fist size (34D-4 (younger looking), 34D-5 (slightly older looking))	minor station glass fresh nugget (kidney like) (34D-6g, 34D- 7g) older looking (kidney like) (34D-8g)	100
35D	45°44.3'S 14°37.3'W	2842-2640	Sleep sided ridge in MAR rift valley floor	12/14/93	lost dredge due to weight hook failure		

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Station ID #	Latitude Longitude	Depth (meters)	Feature Dredged	Date	Rock Recovery	Glass Recovery	Weight (kg)
36D	45°34.0'S 14°42.6'W	3229-3000	Small volcano in center of MAR rift valley floor (short 25km long segment) (oblique section north of Discovery anomaly)	12/14/93	5 small pieces of pillow basalt with fresh black glass (thin layer) (36D-2) one glassy slab (36D-1) one thin slab (without glass) (36D-3)	glass limited but good quality	5
37D	45°14.0'S 15°4.5'W	3668-3400	Small ridge in MAR rift valley floor (oblique section north of Discovery anomaly)	12/15/93	1) one large fresh glassy pillow basalt with hydrothermal stain (37D-1) small visicles 2) smaller fragments, glassy (slightly older with traces of ooze (37D-2); 37D-3 (with tubes lined up with glass) 3) small fist size aphyric with glass (37D-4) 4) small slab with glass and crust older > 1, 2, 3 (37D-5); 5) oldest looking pillow with glass and manganese (37D-6)	minor station glass	91
38D	44°48.6'S 15°21.9'W	3860-3639	Deep basin in Mar rift valley floor (short segment)	12/15/93	lost dredge due to bomb failure		
39D	44°40.9'S 15°23.4'W	3685-3520	Small volcano in MAR rift valley floor (northern most station in oblique part of MAR associated with Discovery anomaly)	12/15/93	one fist size pillow basalt fragment (39D-2)	one fist size glass piece coated with manganese (39D-1g)	1
40D	44°24.6'S 15°54.5'W	3600-3376	Small volcanic ridge in center of MAR rift valley floor	12/16/93	several types of fresh pillow basalts with glass: 1) plagiophyric - glassy and brown crust (40D-1:large; 40D-2:chocolate deep type) 2) aphyric pillow glassy basalt (40D-3,40D-4) slightly older 3) aphyric grey with some glass preserved (40D-5) - may be	small glacial erratic pebbles (should be checked for possible glass chips) abundant station glass: 1) plagiophyric type with dark brown crust (40D-7g, 40D-8g) 2) aphyric nugget (40D-9g, 40D-10g) 3) aphyric chip with some brown crust (40D-11g)	155

Table 1: EW9300 Dredge Haul Recovery

Station ID #	Latitude Longitude	Depth (meters)	Feature Dredged	Date	Rock Recovery	Glass Recovery	Weight (kg)
41D	44°1.2'S 16°4.6'W	3600-3444	MAR rift valley floor (small ridge east side)	12/16/93	same type as 27; 4) small slab (40D-6) may be same type as 3? dredge haul full of pillow basalt fragments possibly of three types: 1) most abundant fresh glassy with dark brown crust (41D-1, 41D-2, 42D-3), small slab (41D-4), trace of ooze; 2) fresh grey type with minor glass remaining (first size) (41D-5, 41D-8a, b, c) 3) older looking glassy with crust (41D-6); 4) definitely older minor glass Mn-stained (41D-7) 1) small piece of mud	station glass with few nuggets (41D-9g, 41D-19g, 41d-11g, 41D-12g (with brown crust), 41D-13g)	273
42D	43°25.6'S 16°10.1'W	3522-3375	Small volcano in center of MAR rift valley floor	12/16/93		one 1x2x3cm chip of glass with brown crust and thin coating of Manganese	0.5
43D	42°11.1'S 16°4.9'W	3000-2850	Small volcano in center of MAR rift valley floor	12/17/93	fresh plagiophyric glassy with dark brown crust basalts: large pillow (43D-1) small pillow (43D-2, 43D-3) small slab: 43D-4 large plagioclase phenocryst up to one cm		68
44D	40°51.7'S 16°47.5'W	3194-2939	Small volcano in center of MAR rift valley floor	12/17/93	large haul of highly plagiophyric pillow basalt - possibly two types: 1) 44D-1: large pillow with glassy brown crust and Mn stains 2) 44D-2,3: small loaf like pillow basalt with thick glass with dark brown crust - very fresh	44D-4g, 5g, 6g, 7g: first size plagiophyric chocolate deep type of glass with brown crust 44D-8g, 9g, 10g, 11g: station glass nuggets	259
45D	40°35.2'S 16°46.3'W	3233-3172	Small volcano in deep basin at center of MAR rift valley floor	12/18/93	fresh, highly plagiophyric pillow basalt with fresh glass (with flow striations). Contains large phenocryst of plagioclase up to 12mm and olivine phenocrysts up to 5mm. 45D-1: large pillow 45D-2,3,4: small pillow pieces 45D-5: for olivine separation for Paris	minor station glass	145