

K 213-1a (Sep. 10, 2001)

Described by H.Mashima

Sample Size : X= 7 cm, Y= 5 cm, Z= 5 cm; Weight: 100g

Mn coating : <0.5 mm; Color (inside the rock): black

Alteration: no weak strong; Vesicularity 5 %

Lithology: monomict* or polymict

Occurrence: lava* hyaloclastite volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite:	Phenocrysts=	%,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt*	Phenocrysts=	20 %,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks _____

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.:	mono	poly
Rock type:	aphyric B, porphyritic B, picrite, others	
Grain size (mm) :	< 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <	
Sorting :	well-----	poorly
Roundness :	round-----	angular
Fabric:	clast-support -----	matrix support
Grading	normal-----	none-----reverse
Matri	silt sand paragonaite volcanic glass	
	Lithified or unlithified	

Sedimentary structure: _____



K 213-1b (Sep. 10, 2001)

Described by T.Hanyu

Sample Size : X= 8 cm, Y= 7 cm, Z= 7 cm; **Weight:** 200g

Mn coating : <1 mm; **Color (inside the rock):** dark gray

Alteration: no weak* strong; **Vesicularity** 3 %

Lithology: monomict* or polymict

Occurrence: lava* hyaloclastite volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt* Phenocrysts= ol: 5-10 %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks _____

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

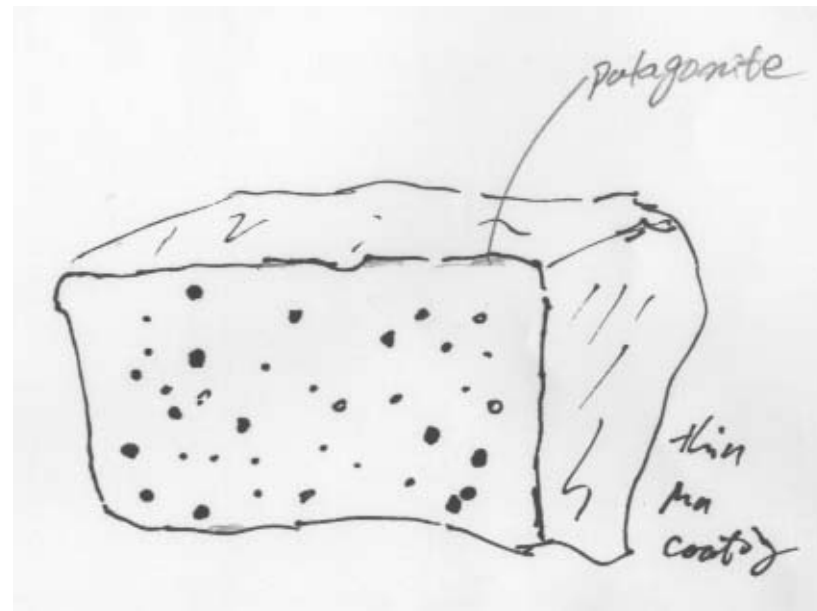
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonite volcanic glass

Lithified or un lithified

Sedimentary structure: _____



K 213-2a (Sep. 10, 2001)

Described by T. Hanyu

Sample Size : X= 8 cm, Y= 6 cm, Z= 6 cm; Weight: 100g

Mn coating : 1 mm; Color (inside the rock): gray

Alteration: no weak* strong; Vesicularity 10 %

Lithology: monomict* or polymict

Occurrence: lava* hyaloclastite volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

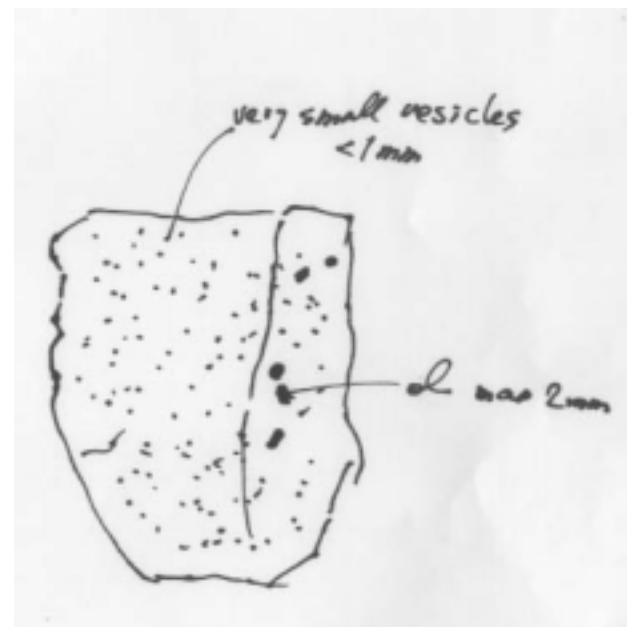
Picrite:	Phenocrysts=	%,	%
Ol basalt*	Phenocrysts= ol: 3	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks _____

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.:	mono	poly
Rock type:	aphyric B, porphyritic B, picrite, others	
Grain size (mm) :	< 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <	
Sorting :	well-----poorly	
Roundness :	round-----angular	
Fabric:	clast-support ----- matrix support	
Grading	normal-----none-----reverse	
Matri	silt sand paragonaite volcanic glass	
	Lithified or un lithified	

Sedimentary structure: _____



K 213-2b (Sep. 10, 2001)

Described by E. Takahashi

Sample Size : X= 9 cm, Y= 7 cm, Z= 6 cm; **Weight**: 180g
Mn coating : <0.5 mm; **Color (inside the rock)**: dark brown
Alteration: no weak* strong*; **Vesicularity** _____ %
Lithology: monomict* or polymict
Occurrence: lava hyaloclastite volcanoclastics* others

Rock types (lava and hyaloclastite)

Thickness of glass		mm	
Picrite:	Phenocrysts=	%,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks _____

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly*
 Rock type: aphyric B, porphritic B, picrite, others
 Grain size (mm) : * < 1 - 2* - 4 - 8 - 16 - 32 - 64 - 128 - 256 <
 Sorting : well*-----poorly
 Roundness : round-----*-----angular
 Fabric: clast-support -----*----- matrix support
 Grading normal-----none*-----reverse
 Matri silt sand * paragonaite* volcanic glass
 Lithified or unlithified

Sedimentary structure: ___ Volcanic clastics, sand stone with many olivine crystals. Paragonitized glass matrix



K 213-2c (Sep. 10, 2001)

Described by T. Hanyu

Sample Size : X= 4 cm, Y= 3 cm, Z= 3 cm; **Weight:** 40g

Mn coating : <1 mm; **Color (inside the rock):** dark gray

Alteration: no* weak strong; **Vesicularity** 5 %

Lithology: monomict* or polymict

Occurrence: lava* hyaloclastite volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass <3 mm

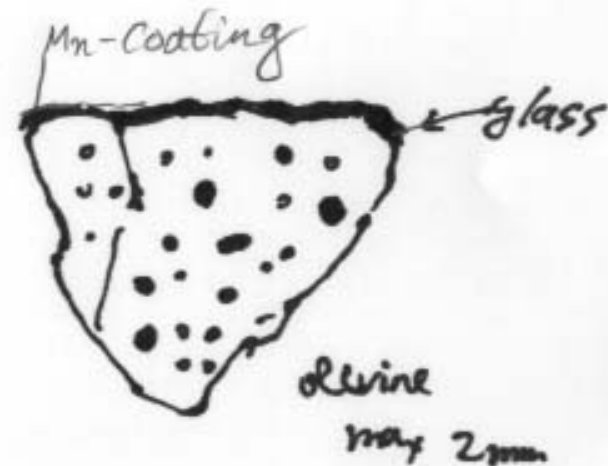
Picrite:	Phenocrysts=	%,	%
Ol basalt*	Phenocrysts=	ol: 5-10 %,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks _____

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.:	mono	poly
Rock type:	aphyric B, porphyritic B, picrite, others	
Grain size (mm) :	< 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <	
Sorting :	well-----poorly	
Roundness :	round-----angular	
Fabric:	clast-support ----- matrix support	
Grading	normal-----none-----reverse	
Matri	silt sand paragonaite volcanic glass	
	Lithified or unlithified	

Sedimentary structure: _____



K 213-3a (Sep. 10, 2001)

Described by M. Nakagawa

Sample Size : X= 13 cm, Y= 10 cm, Z= 8 cm; **Weight**: 800g

Mn coating : <0.5 mm; **Color (inside the rock)**: dark grey

Alteration: no* weak strong; **Vesicularity** 10 %

Lithology: monomict or polymict

Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt* Phenocrysts= ol: 5 %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks___MnO coating exists but thin. Paragnite very thin

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or unlithified

Sedimentary structure:_____



K 213-3b (Sep. 10, 2001)

Described by M. Maruyama

Sample Size : X= 13 cm, Y= 6 cm, Z= 4 cm; **Weight:** 150g

Mn coating : <0.1 mm; **Color (inside the rock):** dark gray

Alteration: no weak* strong; **Vesicularity** 10 %

Lithology: monomict* or polymict

Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt* Phenocrysts= ol: 5 %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks _____

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

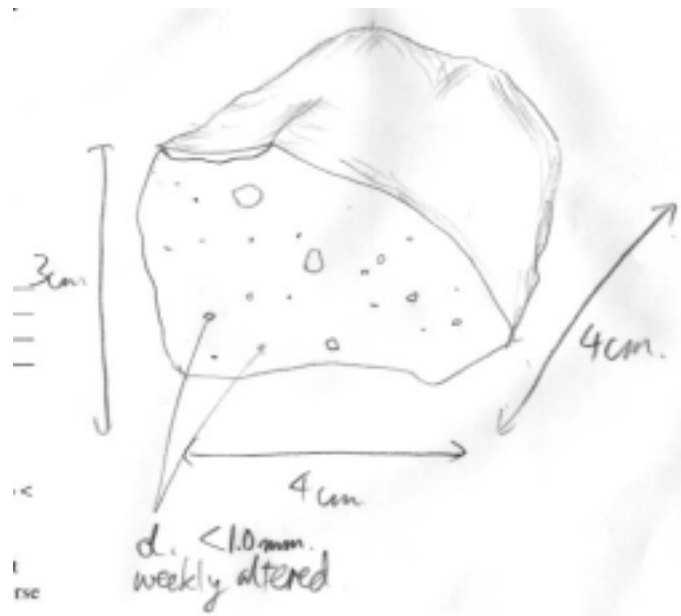
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or un lithified

Sedimentary structure: _____



K 213-4a (Sep. 10, 2001)

Described by M. Nakagawa

Sample Size : X= 15 cm, Y= 10 cm, Z= 9 cm; **Weight**: 1.5kg

Mn coating : <0.5 mm; **Color (inside the rock)**: dark grey

Alteration: no* weak strong; **Vesicularity** 10 %

Lithology: monomict* or polymict

Occurrence: lava* hyaloclastite volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt* Phenocrysts= ol: 10 %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks_____ol phenocryst are fine (1mm)

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or un lithified

Sedimentary structure:_____



K 213-4b (Sep. 10, 2001)

Described by M. Nakagawa

Sample Size : X= 12 cm, Y= 8 cm, Z= 7 cm; **Weight:** 500g

Mn coating : <0.5 mm; **Color (inside the rock):** dark grey

Alteration: no* weak strong; **Vesicularity** 20 %

Lithology: monomict* or polymict

Occurrence: lava * hyaloclastite volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt* Phenocrysts= ol: 10 %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks__Vesiculation heterogeneous

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

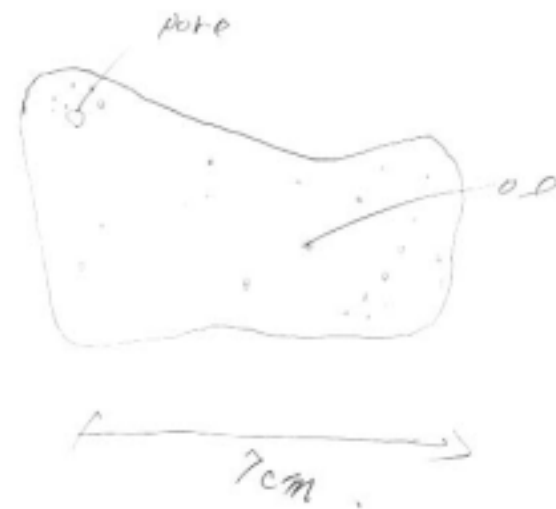
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or un lithified

Sedimentary structure:_____



K 213-13 (Sep. 10, 2001)

Described by T. Hanyu

Sample Size : X= 7 cm, Y= 7 cm, Z= 6 cm; Weight: 100g
 Mn coating : 1 < mm; Color (inside the rock): brown-gray
 Alteration: no weak strong*; Vesicularity _____ %
 Lithology: monomict or polymict
 Occurrence: lava hyaloclastite volcanoclastics* others

Rock types (lava and hyaloclastite)

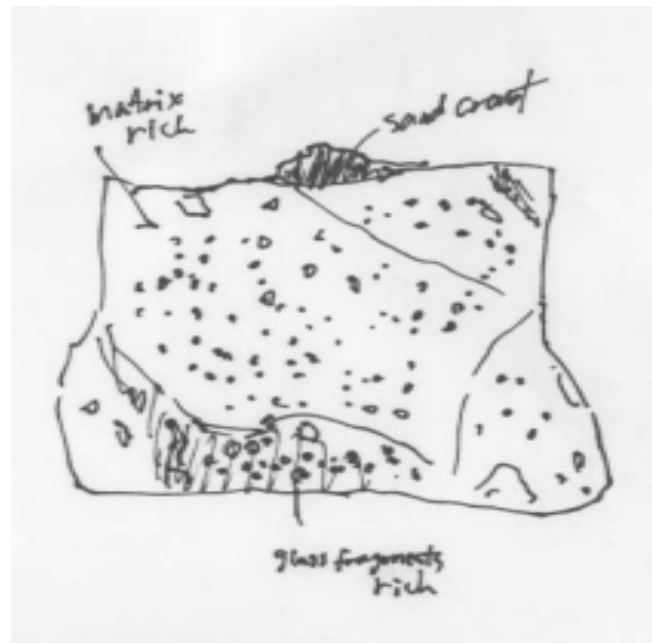
Thickness of glass	mm		
Picrite: Phenocrysts=	%,		%
Ol basalt Phenocrysts=	%,		%
Pl-ol basalt Phenocrysts=	%,		%
Aphyric rock Phenocrysts=	%,		%
Others Phenocrysts=	%,		%

Remarks _____

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly*
 Rock type: aphyric B*, porphyritic B, picrite, others*
 Grain size (mm) : < 1 - 2 - *4 - 8* - 16 - 32 - 64 - 128 - 256 <
 Sorting : well---*-----poorly
 Roundness : round-----*-----angular
 Fabric: clast-support ----- matrix support*
 Grading normal-----none*-----reverse
 Matri silt sand* paragonaite volcanic glass
 Lithified or unlithified

Sedimentary structure: _____



K 213-6 (Sep. 10, 2001)

Described by N. Noguchi

Sample Size : X= 9 cm, Y= 7 cm, Z= 5 cm; **Weight**: 300g

Mn coating : 0.5 mm; **Color (inside the rock)**: dark gray

Alteration: no* weak strong; **Vesicularity** 5-10 %

Lithology: monomict* or polymict

Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt* Phenocrysts= ol: 15 %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks _____

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

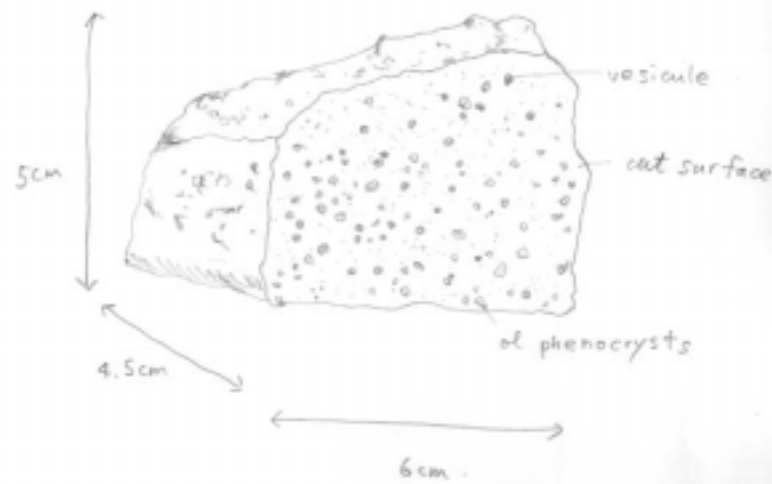
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or un lithified

Sedimentary structure: _____



K 213-7 (Sep. 10, 2001)

Described by E. Takahashi

Sample Size : X= 15 cm, Y= 11 cm, Z= 6 cm; Weight: 800g

Mn coating : -0.5 mm; Color (inside the rock): dark gray

Alteration: no weak* strong; Vesicularity <5 %

Lithology: monomict or polymict

Occurrence: lava* hyaloclastite volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt Phenocrysts= ol: -10 %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks small olivine phenocryst – micro phenocrysts sparse large elongated vesicles



Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 – 2 – 4 – 8 – 16 – 32 – 64 – 128 – 256 <

Sorting : well-----poorly

Roundness : round-----angular

Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or un lithified

Sedimentary structure: _____



K 213-8 (Sep. 10, 2001)

Described by T. Kunikuyo

Sample Size : X= 17 cm, Y= 14 cm, Z= 13 cm; **Weight:** 2kg
Mn coating : -0.5 mm; **Color (inside the rock):** dark grey & dark blue
Alteration: no weak* strong; **Vesicularity** 4 %
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

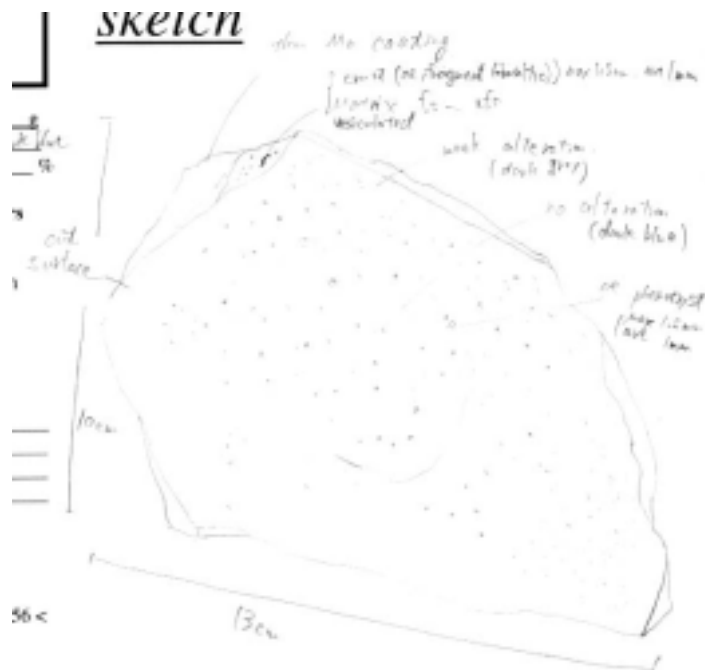
Picrite:	Phenocrysts=		%,		%
Ol basalt*	Phenocrysts=	ol: 10	%,		%
Pl-ol basalt	Phenocrysts=		%,		%
Aphyric rock	Phenocrysts=		%,		%
Others	Phenocrysts=		%,		%

Remarks___This have a matrix . So this might be a part of volcanoclastic crust _____

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.:	mono	poly
Rock type:	aphyric B, porphritic B, picrite, others	
Grain size (mm) :	< 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <	
Sorting :	well-----	poorly
Roundness :	round-----	angular
Fabric:	clast-support -----	matrix support
Grading	normal-----	none-----reverse
Matri	silt sand paragonaite volcanic glass	
	Lithified or un lithified	

Sedimentary structure:_____



K 213-9a (Sep. 10, 2001)

Described by T. Kani

Sample Size : X= 15 cm, Y= 10 cm, Z= 8 cm; Weight: 1.5kg

Mn coating : <1 mm; Color (inside the rock): grey

Alteration: no weak strong; Vesicularity _____ %

Lithology: monomict or polymict

Occurrence: lava hyaloclastite volcanoclastics* others

Rock types (lava and hyaloclastite)

Thickness of glass _____ mm

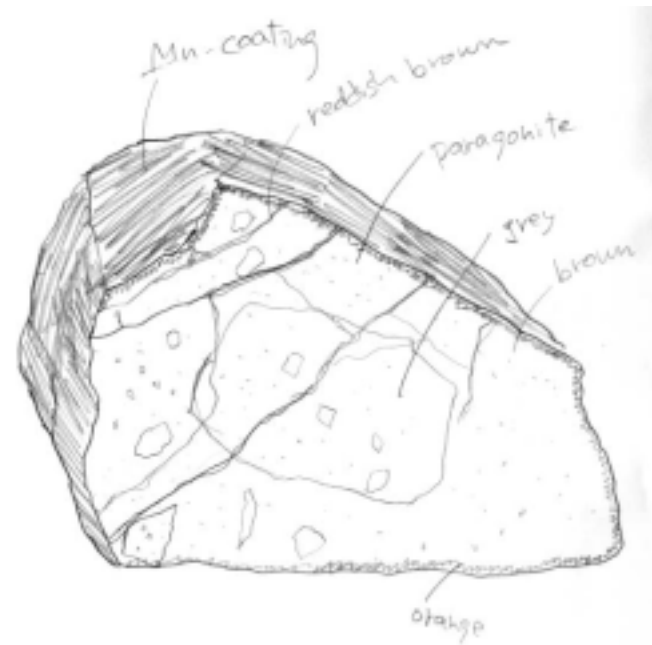
Picrite:	Phenocrysts=	%,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks _____

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly*
 Rock type: aphyric B*, porphyritic B, picrite, others
 Grain size (mm) : * < 1 - 2 - 4 - 8 - 16 - 32* - 64 - 128 - 256 <
 Sorting : well*-----poorly
 Roundness : round-----*----angular
 Fabric: clast-support ----- matrix support*
 Grading normal-----none*-----reverse
 Matri silt sand* paragonaite volcanic glass
 Lithified* or unlithified

Sedimentary structure: _____



K 213- 9b (Sep. 10 , 2001)

Described by Y. Orihashi

Sample Size : X= 12 cm, Y= 9 cm, Z= 9 cm; **Weight:** 600g
Mn coating : <0.1 mm; **Color (inside the rock):** dark grey partly brown
Alteration: no weak strong*; **Vesicularity** <1-3 %
Lithology: monomict or polymict
Occurrence: lava hyaloclastite* volcanics others

Rock types (lava and hyaloclastite)

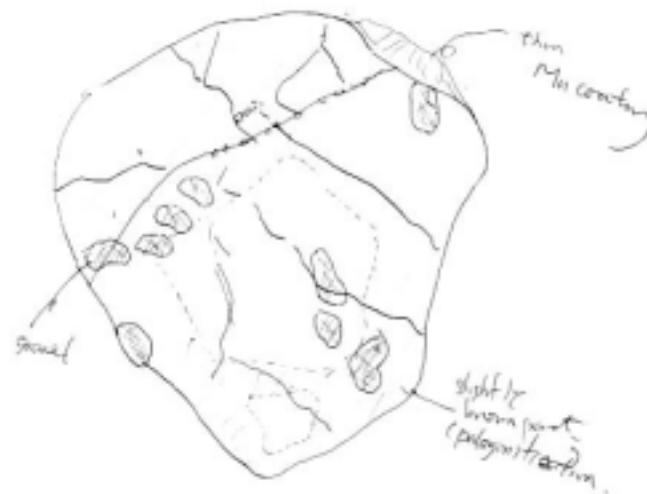
Thickness of glass	mm		
Picrite: Phenocrysts=	%,		%
Ol basalt Phenocrysts=	%,		%
Pl-ol basalt Phenocrysts=	%,		%
Aphyric rock Phenocrysts=	%,		%
Others Phenocrysts=	%,		%

Remarks _____

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly*
 Rock type: aphyric B*, porphritic B, picrite, others
 Grain size (mm) : * < 1 - 2 - 4 - 8 - 16* - 32 - 64 - 128 - 256 <
 Sorting : well-----poorly*
 Roundness : round-----*-----angular
 Fabric: clast-support ----- matrix support*
 Grading normal-----none*-----reverse
 Matri silt sand paragonaite volcanic glass *
 Lithified or unlithified

Sedimentary structure: _____



K 213-10 (Sep. 10, 2001)

Described by E. Takahashi

Sample Size : X= 12 cm, Y= 9 cm, Z= 9 cm; **Weight**: 700g
Mn coating : <0.5 mm; **Color (inside the rock)**: brown gray
Alteration: no* weak* strong; **Vesicularity** _____ %
Lithology: monomict or polymict*
Occurrence: lava hyaloclastite volcanoclastics* others

Rock types (lava and hyaloclastite)

Thickness of glass		mm	
Picrite:	Phenocrysts=	%,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks _____

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly*
 Rock type: aphyric B*, porphyritic B, picrite, others
 Grain size (mm) : < 1 - 2* - 4 - 8* - 16 - 32 - 64 - 128 - 256 <
 Sorting : well-----poorly
 Roundness : round-----angular*
 Fabric: clast-support ----- matrix support*
 Grading normal-----none*-----reverse
 Matri silt sand paragonaite* volcanic glass*
 Lithified or unlithified

Sedimentary structure: __volcanic breccia (lappilli) with fresh interior



K 213-11 (Sep. 10, 2001)

Described by M. Maruyama

Sample Size : X= 19 cm, Y= 16 cm, Z= 10 cm; **Weight**: 2kg
Mn coating : 0.5 mm; **Color (inside the rock)**: greenish gray , dark gray
Alteration: no weak* strong; **Vesicularity** 10 %
Lithology: monomict or polymict*
Occurrence: lava hyaloclastite volcanoclastics* others

Rock types (lava and hyaloclastite)

Thickness of glass		mm	
Picrite:	Phenocrysts=	%,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks _____

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly*
 Rock type: aphyric B, porphritic B, picrite, others
 Grain size (mm) : * < 1 - 2* - 4 - 8 - 16 - 32 - 64 - 128 - 256 <
 Sorting : well*-----poorly
 Roundness : round-----*-----angular
 Fabric: clast-support ----- matrix support
 Grading normal-----none*-----reverse
 Matri silt sand* paragonaite* volcanic glass
 Lithified* or unlithified

Sedimentary structure: _____

ketch



K 213-12a (Sep. 10, 2001)

Described by T. Kani

Sample Size : X= 15 cm, Y= 14 cm, Z= 10 cm; **Weight**: 1kg
Mn coating : <0.2 mm; **Color (inside the rock)**: brown - black
Alteration: no weak strong; **Vesicularity** _____ %
Lithology: monomict* or polymict
Occurrence: lava **hyaloclastite*** **volcaniclastics** **others**

Rock types (lava and hyaloclastite)

Thickness of glass		mm	
Picrite:	Phenocrysts=	%,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks _____

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono* poly
 Rock type: aphyric B, porphritic B*, picrite, others
 Grain size (mm) : < 1 - 2 - *4 - 8 - 16* - 32 - 64 - 128 - 256 <
 Sorting : well-----poorly*
 Roundness : round-----angular*
 Fabric: clast-support* ----- matrix support
 Grading normal-----none*-----reverse
 Matri silt sand paragonaite* volcanic glass
 Lithified* or unlithified

Sedimentary structure: _____



K 213-12b (Sep. 10, 2001)

Described by T. Hanyu

Sample Size : X= 12 cm, Y= 10 cm, Z= 6 cm; Weight: 800g
 Mn coating : 1 mm; Color (inside the rock): gray- brown
 Alteration: no weak strong; Vesicularity _____ %
 Lithology: monomict or polymict*
 Occurrence: lava hyaloclastite volcanoclastics* others

Rock types (lava and hyaloclastite)

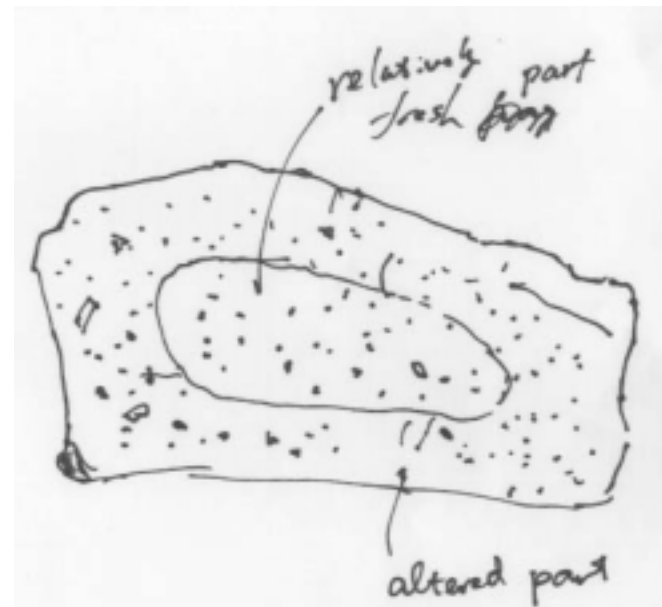
Thickness of glass		mm	
Picrite:	Phenocrysts=	%,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks _____

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly*
 Rock type: aphyric B*, porphyritic B, picrite, others*
 Grain size (mm) : < 1 - 2 - 4 - * 8 - 16 - 32 - 64 - 128 - 256 <
 Sorting : well*-----poorly
 Roundness : round-----*-----angular
 Fabric: clast-support ----- matrix support*
 Grading normal-----none*-----reverse
 Matri silt sand * paragonaite volcanic glass
 Lithified or unlithified

Sedimentary structure: _____



K 213-12c (Sep. 10, 2001)

Described by Y. Orihashi

Sample Size : X= 8 cm, Y= 6 cm, Z= 2 cm; **Weight:** 50g

Mn coating : 0.5 mm; **Color (inside the rock):** black- brown

Alteration: no weak* strong; **Vesicularity** 0 %

Lithology: monomict* or polymict

Occurrence: lava hyaloclastite* volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass _____ mm

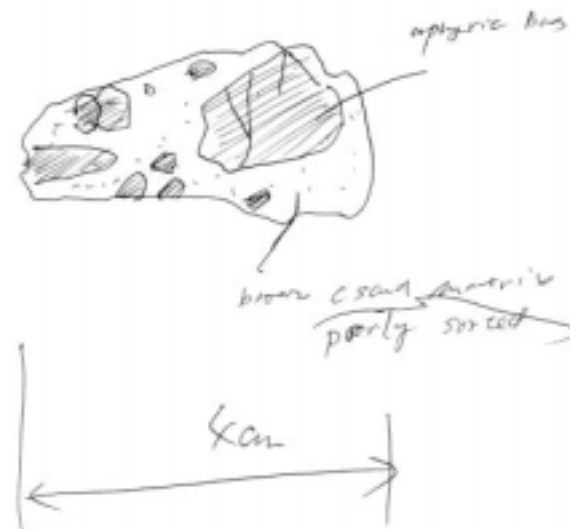
	Phenocrysts=	%,	%
Picrite:			
Ol basalt			
Pl-ol basalt			
Aphyric rock			
Others			

Remarks _____

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.:	mono*	poly
Rock type:	aphyric B*, porphyritic B, picrite, others	
Grain size (mm) :	< 1 - 2 - *4 - 8 - 16 - 32 - 64 - 128 - 256 <	
Sorting :	well-----poorly*	
Roundness :	round-----angular *	
Fabric:	clast-support -----*--- matrix support	
Grading	normal-----none*-----reverse	
Matri	silt * sand* paragonaite volcanic glass Lithified* or un lithified	

Sedimentary structure: _____



K 213-12d (Sep. 10, 2001)

Described by T. Hanyu

Sample Size : X= 6 cm, Y= 6 cm, Z= 4 cm; Weight: 100g
 Mn coating : <1 mm; Color (inside the rock): brown - grey
 Alteration: no weak strong*; Vesicularity _____ %
 Lithology: monomict or polymict*
 Occurrence: lava hyaloclastite volcanoclastics* others

Rock types (lava and hyaloclastite)

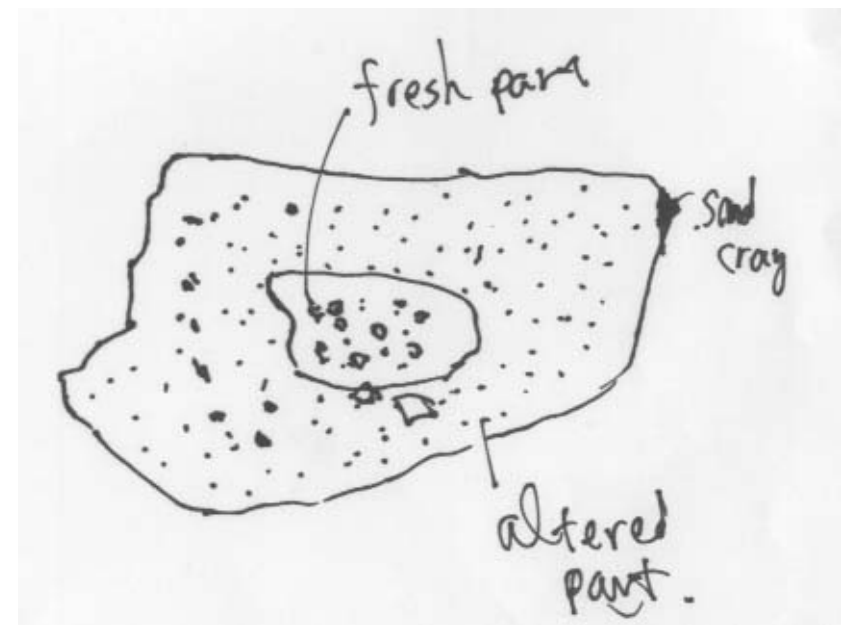
Thickness of glass	mm		
Picrite: Phenocrysts=	%	,	%
Ol basalt Phenocrysts=	%	,	%
Pl-ol basalt Phenocrysts=	%	,	%
Aphyric rock Phenocrysts=	%	,	%
Others Phenocrysts=	%	,	%

Remarks _____

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly*
 Rock type: aphyric B*, porphyritic B, picrite, others*
 Grain size (mm) : < 1 - 2 - 4* - 8 - 16 - 32 - 64 - 128 - 256 <
 Sorting : well*-----poorly
 Roundness : round-----angular*
 Fabric: clast-support ----- matrix support*
 Grading normal-----none*-----reverse
 Matri silt sand* paragonaite volcanic glass
 Lithified or unlithified

Sedimentary structure: _____



K 213-12e (Sep. 10, 2001)

Described by M. Coombs

Sample Size : X= 10 cm, Y= 9 cm, Z= 8 cm; Weight: 300g

Mn coating : <1 mm; Color (inside the rock): grey

Alteration: no weak* strong; Vesicularity N/A%

Lithology: monomict or polymict*

Occurrence: lava hyaloclastite volcanoclastics* others

Rock types (lava and hyaloclastite)

Thickness of glass _____ mm

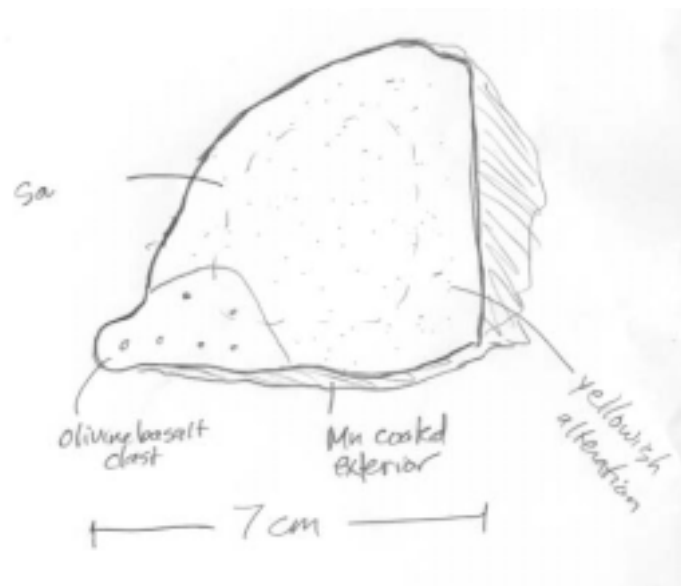
	Phenocrysts=	%,	%
Picrite:			
Ol basalt			
Pl-ol basalt			
Aphyric rock			
Others			

Remarks _____

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.:	mono	poly*
Rock type:	aphyric B, porphyritic B*, picrite, others*	
Grain size (mm) :	* < 1 - 2* - 4 - 8 - 16 - 32* - 64 - 128 - 256	
Sorting :	well-----	poorly*
Roundness :	round-----*	angular
Fabric:	clast-support -----	matrix support*
Grading	normal-----	none-----reverse
Matri	silt sand* paragonite volcanic glass	Lithified* or unlithified

Sedimentary structure: Well sorted sandstone w/ one -2cm basalt clast



K 213-5 (Sep. 10, 2001)

Described by M. Coombs

Sample Size : X= 16 cm, Y= 12 cm, Z= 5 cm; **Weight:** 1kg

Mn coating : <<1 mm; **Color (inside the rock):** dark gery

Alteration: no weak* strong; **Vesicularity** 3 %

Lithology: monomict* or polymict

Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt* Phenocrysts= ol: 20-25 %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

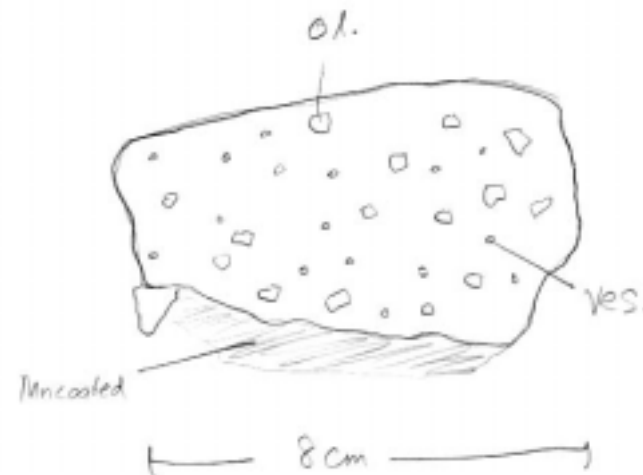
Others Phenocrysts= %, %

Remarks___Olivine – rich basalt

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly
Rock type: aphyric B, porphritic B, picrite, others
Grain size (mm) : < 1 – 2 – 4 – 8 – 16 – 32 – 64 – 128 – 256 <
Sorting : well-----poorly
Roundness : round-----angular
Fabric: clast-support ----- matrix support
Grading normal-----none-----reverse
Matri silt sand paragonaite volcanic glass
Lithified or un lithified

Sedimentary structure:_____



K 213-14 (Sep. 10, 2001)

Described by H. Mashinma

Sample Size : X= 17 cm, Y= 11 cm, Z= 10 cm; **Weight:** 1.8kg

Mn coating : <0.5 mm; **Color (inside the rock):** dark gray

Alteration: no weak* strong; **Vesicularity** 40 %

Lithology: monomict* or polymict

Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

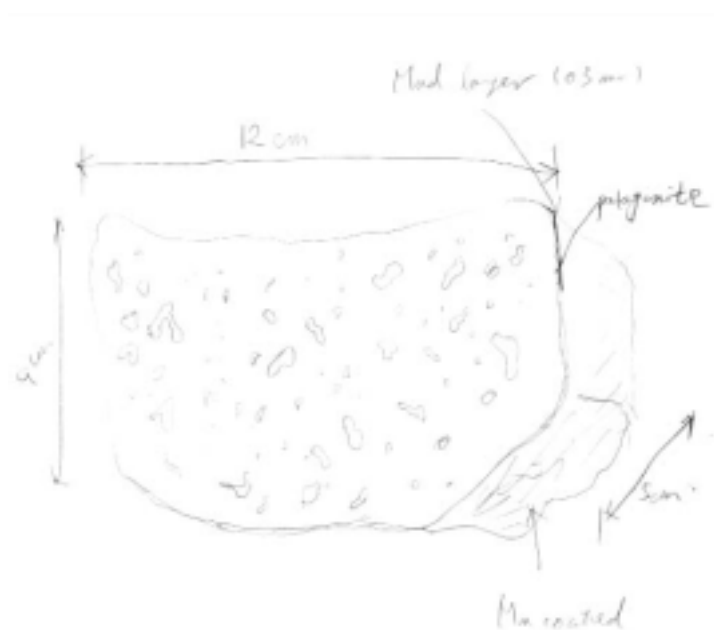
Thickness of glass	mm		
Picrite: Phenocrysts=	%,		%
Ol basalt Phenocrysts=	%,		%
Pl-ol basalt Phenocrysts=	%,		%
Aphyric rock*Phenocrysts=	%,		%
Others Phenocrysts=	%,		%

Remarks _____

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly
 Rock type: aphyric B, porphritic B, picrite, others
 Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <
 Sorting : well-----poorly
 Roundness : round-----angular
 Fabric: clast-support ----- matrix support
 Grading normal-----none-----reverse
 Matri silt sand paragonaite volcanic glass
 Lithified or unlithified

Sedimentary structure: _____



K 213-15 (Sep. 10, 2001)

Described by E. Takahashi

Sample Size : X= 11 cm, Y= 9 cm, Z=8 cm; Weight: 800 g

Mn coating : -0.1 mm; Color (inside the rock): gray

Alteration: no* weak* strong; Vesicularity <3 %

Lithology: monomict or polymict

Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

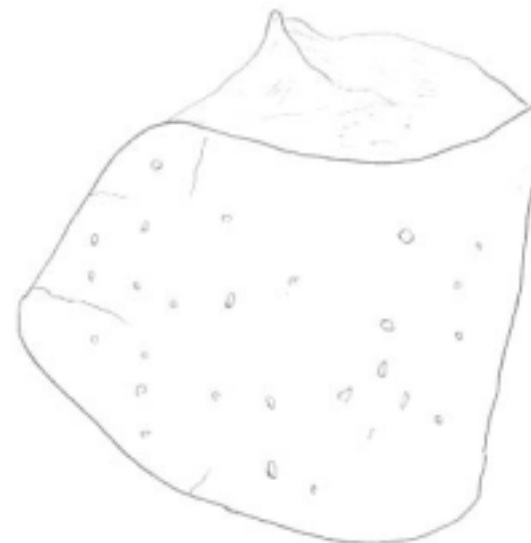
Ol basalt Phenocrysts= %, %

Pl-ol basalt* Phenocrysts= ol: 5 %, pl: <3 %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks Radial cracks similar to fragment of pillow lava. With very small vesicules (0.1- 0.3mm)



Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or un lithified

Sedimentary structure: _____



K 213-16 (Sep. 10, 2001)

Described by M. Maruyama

Sample Size : X= 10 cm, Y= 9 cm, Z= 9 cm; **Weight:** 350g

Mn coating : 0.5 mm; **Color (inside the rock):** black

Alteration: no* weak strong; **Vesicularity** 5 %

Lithology: monomict* or polymict

Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass _____ mm

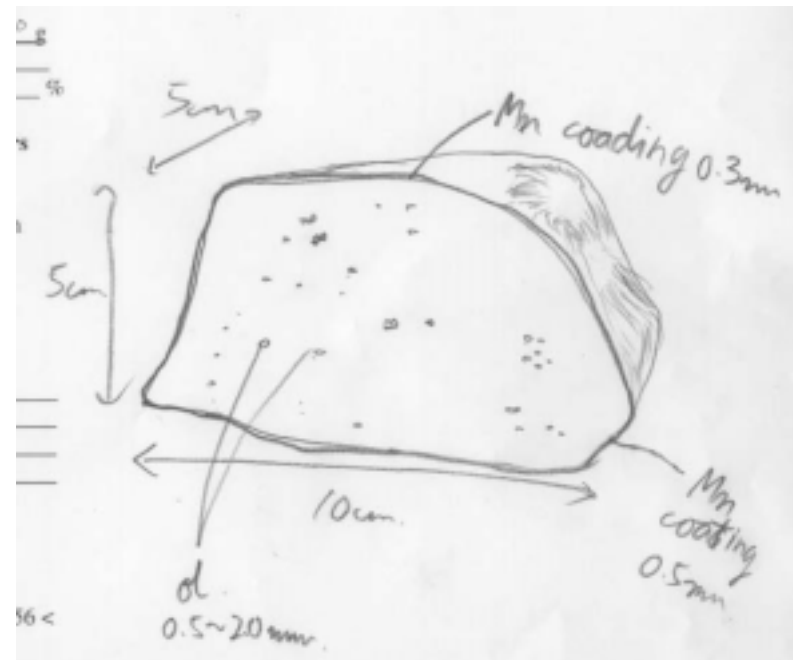
Picrite:	Phenocrysts=		%,	%
Ol basalt*	Phenocrysts=	10	%,	%
Pl-ol basalt	Phenocrysts=		%,	%
Aphyric rock	Phenocrysts=		%,	%
Others	Phenocrysts=		%,	%

Remarks _____

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.:	mono	poly
Rock type:	aphyric B, porphyritic B, picrite, others	
Grain size (mm) :	< 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <	
Sorting :	well-----	poorly
Roundness :	round-----	angular
Fabric:	clast-support -----	matrix support
Grading	normal-----	none-----reverse
Matri	silt sand paragonaite volcanic glass	
	Lithified or un lithified	

Sedimentary structure: _____



K 213-17 (Sep. 10, 2001)

Described by T. Hanyu

Sample Size : X= 24 cm, Y= 21 cm, Z= 10 cm; Weight: 4kg
 Mn coating : <1 mm; Color (inside the rock): brown - gray
 Alteration: no weak strong*; Vesicularity _____ %
 Lithology: monomict or polymict*
 Occurrence: lava hyaloclastite volcanoclastics* others

Rock types (lava and hyaloclastite)

Thickness of glass		mm	
Picrite:	Phenocrysts=	%,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%
Remarks _____			

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly*
 Rock type: aphyric B*, porphyritic B, picrite, others
 Grain size (mm) : < 1 - 2 - 4 - 8* - 16 - 32 - 64 - 128 - 256 <
 Sorting : well*-----poorly
 Roundness : round-----angular *
 Fabric: clast-support ----- matrix support*
 Grading normal-----none*-----reverse
 Matri silt sand* paragonaite volcanic glass
 Lithified or unlithified

Sedimentary structure: _____

