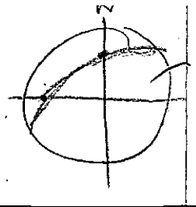
CHIKYU Operation

Structural Geology Observation Sheet

Last Update 3/June/2011

No. 1

Exp.: 338 Site: C0021 Hole: B Core: 1H Observer: TT, OF, KO Summary:



Section No.	Structure ID	Top of Struct	Bottom of Struct	ave, depth	Thickness of Struct	Core face app. Dip az.	Core face app. Dip dip	2nd app. Dip az.	2nd app. Dip dip	Striation on surface rake (≤90)	Striation on surface from (±1, 90 or 270) "Top → "1" Bottom → "-1"	Coherent interval (for P-mag) top	Coherent interval (for P-mag) bottom	P-mag pole az./trend	P-mag pole dip	Notes
1H	1															There is no important structure to describe. CT scan images suggest a flat-lying (i.e., horizontal) layering defined by alternating layers of fine and coarse silt, but nothing clear on cores. This flat-lying layering is also found on section 5
	5															
	CC															
2H	1,2															Nothing to describe.
	4.	bedding	31.5 95	34 95		2,5	270 270	5 0	180 180	10 8			0 0	140 140			
	7	bedding	31.5	32.5			270	0	180	5			0	140		
	9	bedding	38.5	38.5			0	0	?	?			0	100		→ not measurable
3H	2	bedding	24	25	24		90	0	180	1			0	45,5		
	5	bedding	35	35	35		90	0	180	15			0			read from CT scan
		bedding	123	123												
	6	fault	109 122	118 134	1135		270 180	5 34	0 270	0 64	check ok		0	140		read from CT scan. Faults clearly post-date TTD-formation
		fault	112	127	1195		270	67	180	11			0	140		
	7	fault	31,5	40			23	0	113	51	check OK		0	91,5		
		fault	45	59	52		260	65	190	0.	check ok		0	91,5		
	8-9	NOTHING TO DESCRIBE/MEASURE SAME FOR section 10														

CHIKYU Operation

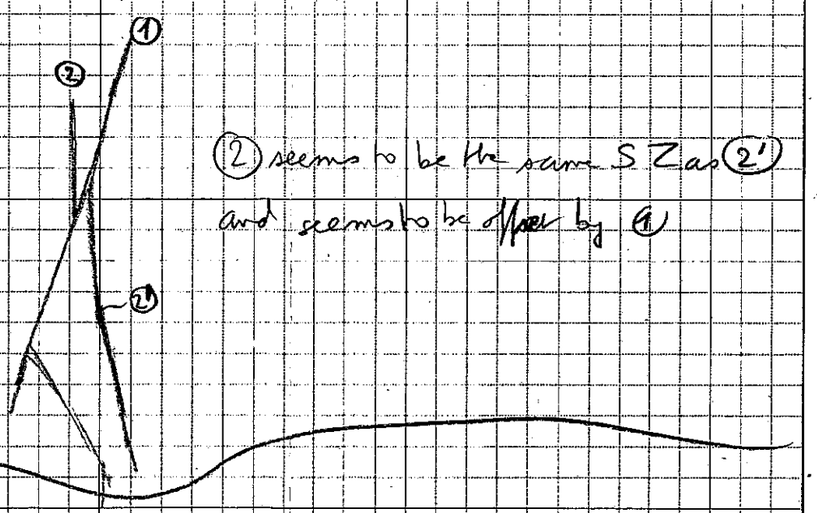
Last Update 3/June/2011

Structural Geology Observation Sheet

No. 2

Exp.: 338 Site: C0021 Hole: 21B Core: 4 Observer: KO+TT+OF Summary:

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave. depth	Thickness of Struct	Core face app. Dip az.	Core face app. Dip dip	2nd app. Dip az.	2nd app. Dip dip	Striation on surface rake (≤90)	Striation on surface from (±1, 90 or 270) * Top → "1" Bottom → "-1"	Coherent interval (for P-mag) top	Coherent interval (for P-mag) bottom	P-mag pole az./trend	P-mag pole dip	Notes
1	"Shear Zone"	114	131		1mm	18	0	288	69	check ok		0	140			Blackish narrow band, which appears bright layer under X-CT image
2	"Shear Zone"	0	10.5		<1mm	16	0	286	58	check ok		0	20			measured under X-CT image
	"	15	20		"	145	0	235	40	check ok		0	20			
3	"	52.5	57		"	146	0	236	(50)	check ok		0	140			
4																disturbed zone between 53cm and 96cm (origin?)
5	bedding	94	95.5			270	9	0	0			1	145			
	"Shear Zone"	56.5	67.0		<1mm	170	0	260	58	check ok						
6	bedding	77				90	1	0	28			20	144			
	bedding (?)	27.5	31.5			0	17	270	31							Wavy surface. possibly related to flow structure
	"Shear Zone"	131.5	134			0	9	270	17							
7	bedding	6.5	10			20	0	110	15			0	141			
	shear ③ 3mm	27	29		~1cm 2mm	26	0	296	26	check ok						
	shear ④ 3mm	43	53		3~5 mm	0	56	270	57	"	"					
	shear ② 3mm	38	48		2-3 mm	0	10	100	87	"	"					
	SZ ②'	49	60		2-3 mm	6	0	96	72	"	"					
	SZ	69	78		~1mm	171	0	261	53	"	"					
	SZ	86	93		~1mm	0	0	90	47	"	"					



CHIKYU Operation

Structural Geology Observation Sheet

Last Update 3/June/2011

No. 3

Exp.: 338 Site: C0021 Hole: 21B Core: 4 Observer: KOTTHOF Summary:

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave, depth	Thickness of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Notes
						az.	dip	az.	dip	rake (≤90)	from (±1, 90 or 270) * Top → "1" Bottom → "-1"	top	bottom	az./trend	dip	
8	SZ	20	25		2-5mm	17	0	107	35			17	30			
core 5 1	Fault	75	78			90	0	0	88	73	90	75	131			→ striated surface (fault surface with slight foliation) → photographs taken by Hisamitsu-san
3	SZ(?)	8,5	12			180	24	90	47			0	140			
	SZ(?)	31	40			0	28	270	50							
3	SZ	63	80			80	0	170	67							60–90 Linear feature
4	Nothing	to	describe.													
5			〃													
6	bedding	68	68			90	0	0	6			0	180			
	〃	110	111			90	0	0	21							
7	bedding	64	64			270	4	180	3			44	95			44–64 Linear feature
8	SZ.	50	70			180	68	90	63			0	70			
9	Nothing to describe															
cc																

CHIKYU Operation

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Structural Geology Observation Sheet

No. 4

Exp.: 338 Site: C0021 Hole: B Core: 6 Observer: OF. TT. KO Summary:

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave. depth	Thickness of Struct	Core face app. Dip az.	Core face app. Dip dip	2nd app. Dip az.	2nd app. Dip dip	Striation on surface rake (≤90)	Striation on surface from (±1, 90 or 270) "Top → "1" Bottom → "-1"	Coherent interval (for P-mag) top	Coherent interval (for P-mag) bottom	P-mag pole az./trend	P-mag pole dip	Notes
1.		Nothing To describe														
2.				"												
4.																
5.		Nothing to describe														
6	bedding	78	84		1.0 cm	90	42	?	?		check by X-CT					under alignment of volcanic clast or ashey pebble
7		Nothing To describe										0	121			CT scann suggest 2 shear zones from 59cm to 61cm 180→17° // 90→46° Thickness < 1mm the other from 75cm to 80cm 0→19° // 90°→46° Thickness < 1mm
8	bedding?	114	1165		8mm	0	18	270	35			79	119			
9.		Nothing To describe														
CC.				s												Recurrent "flow structure" possibly reflecting soft sediment slumping and/or sliding

VCD_sheet_str110603

CHIKYU Operation

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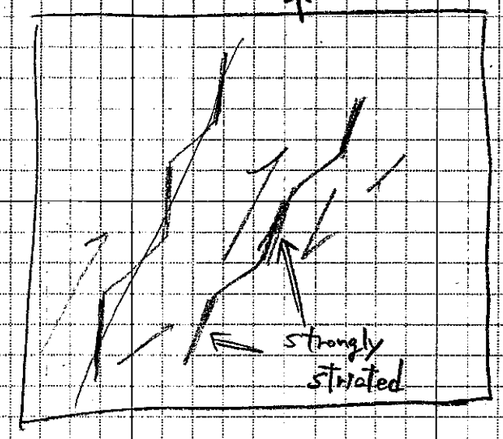
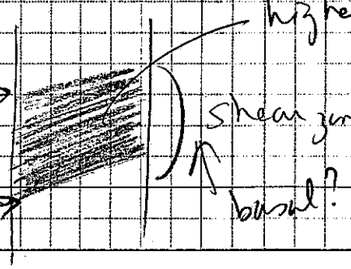
Structural Geology Observation Sheet

No. 5

Exp.: 338 Site: C002 Hole: B Core: 7 Observer: DPTTT+VCO Summary:

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave, depth	Thickness of Struct	Core face app. Dip az.	Core face app. Dip dip	2nd app. Dip az.	2nd app. Dip dip	Striation on surface rake (≤90)	Striation on surface from (±1, 90 or 270) "Top → "1" Bottom → "-1"	Coherent interval (for P-mag) top	Coherent interval (for P-mag) bottom	P-mag pole az./trend	P-mag pole dip	Notes
1	SZ	54	59		<1mm	180	37	90	18			20	66			from CT images
2	Fault	83	90	PICTURE of fault surface		270	50	180	47	72	270			0	81	measured on core → very thin striation, reverse fault?
	"	82	92			180	55	270	52					82	130	→ from CT images
	"	61	71			180	57	270	35							→ "
	"	425	52			90	0	180	52							→ "
	"	22	30			115	0	205	56							→ "
	"	3	13			180	55	270	23							→ "
2	"	65	69			270	32	180	37	80	270					measured on core
	bedding	126	127			180	16	90	14							→ from CT images
Nothing on Core	3.	Fault	10.5	19		192	55	102	0							→ from CT images
	5.															
	6															
	7	Fault	52	67,5	PICTURE OF FAULT on working half	0	29	270	65							→ seem on core but measured on CT imag
		bedding	98,5	100,5		180	11	90	12							" " " " " "
Nothing on Core	8															
	9															higher density
	10	bedding?	43,5	47		90	0	0	29							shear zone as a whole?
	cc	bedding?	58,5	61,5		180	25	270	19							from CT imag





CHIKYU Operation

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Structural Geology Observation Sheet

No. 6

Exp.: 338 Site: C0021 Hole: B Core: 8 Observer: KOTTHOF Summary:

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave, depth	Thickness of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Notes
						az.	dip	az.	dip	rake (≤90)	from (±1, 90 or 270) * Top → "1" Bottom → "-1"	top	bottom	az./trend	dip	
1.	Fissility	34	39			270	2	180	2			34	41			weakly developed
2.	bedding	32	34			90	0	0	1			0	142			
	=	59	60			270	9	0	0							
3	beddg	3	3,5		0	90	0	0	11°			1	142			from CT images
4	bed	60	60			0	5	90	0			1	141			from CT images
	bed	74,5	74,5			0	0	270	15							
	bed	133	134,5			0	13	90	0							
5	bed	54	54,5			180	1	270	6			0	125			from CT
		60	61			0	10	270	7							
6	bed	119	121		10mm	270	4	0	3			0	140			
7	beddg	96	101			270	9	0	21			34	140			
		97,5	97,5			0	0	270	14	from CT						
	=	109	111			270	11	6	1			34	140			
		110	110,5			180	8	270	8							
	=	121	123			270	10	0	5			34	140			
		122,5	123,5			0	8	270	11							
8	beddg	27	27			90	1	0	3			0	56			
c e	Nothing to describe															

CHIKYU Operation

Structural Geology Observation Sheet

7/3

Last Update 3/June/2011

No. 7

Exp.: 338 Site: 21 Hole: B Core: 9 Observer: OFTTTKO Summary:

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave. depth	Thickness of Struct	Core face app. Dip az.	Core face app. Dip dip	2nd app. Dip az.	2nd app. Dip dip	Striation on surface rake (≤90)	Striation on surface from (±1, 90 or 270) * Top → "1" Bottom → "-1"	Coherent interval (for P-mag) top	Coherent interval (for P-mag) bottom	P-mag pole az./trend	P-mag pole dip	Notes
1	Shear zone	51	71		3cm	180	70	270	64	from	CT scan	47	96			→ JPEG file
3	SZ	51	63,5		2-3mm	0	62	90	51	"	"	"	130 (very sharp zone)			
	SZ	117	131		2-3mm	180	56	90	71	from	CT image					
4	bedding	46	46			180	18	90	7	from	CT scan image					
	Fault	55	72		~1mm	0	70	90	65	from	CT scan					clear normal fault offset = 2,1 cm (CT scan)
	bedding	87	87			0	0	270	13	CT						
	Fault	103	109,5			166	0	76	46	CT						→ No clear striations on the surface.
	SZ?	117,5	123,5			0	42	90	24							
	bedding	130	131			0	20	90	18	CT						
5.	bedding	124	126			90	12	0	10			64	144			
6.	bedding	30	34			90	0	180	8			0	14			
7.	"	45	47			90	0	0	7			0	68			
	"	86	89			90	15	0	29			82	130			

CHIKYU Operation

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Structural Geology Observation Sheet

No. 8

Exp.: 338 Site: C0021 Hole: B Core: 9H Observer: OF+TT+KO Summary:

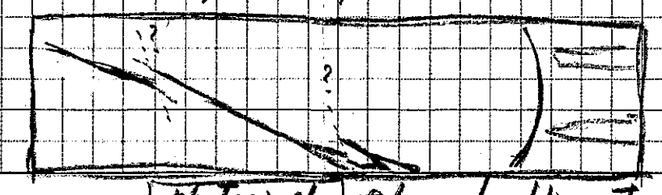
Section No.	Structure ID	Top of Struct	Bottom of Struct	ave. depth	Thickness of Struct	Core face app. Dip az.	Core face app. Dip dip	2nd app. Dip az.	2nd app. Dip dip	Striation on surface rake (≤90)	Striation on surface from (±1, 90 or 270) "Top → "1" Bottom →"-1"	Coherent interval (for P-mag) top	Coherent interval (for P-mag) bottom	P-mag pole az./trend	P-mag pole dip	Notes
8.	Shear Zone	9	15		1mm	90	45	?	?							faintly developed
	"	18	23		1mm	90	34	?	?							?
	"	24	33		1mm	90	55	?	?							?
CC	Nothing To describe															
10H 1.	Nothing To describe															
2.	bedding	34	35			270	4	180	18			0	141			
3.	bedding	101	108			90	20	0	3			0	141			
4.	bedding	44	48			270	13	180	15			0	119			
5																
6.	fissility	124	134									0	134			→ subhorizontal faintly developed.
7	shear zone	1	21		1mm	Taken by X-CT						0	32			en échelon -like

112~126 : Shear zone?

98~85 : Shear zone?

36~47 : Shear zone?

12~30 : Shear zone?



← photographs taken by Hisamitsu-san

CHIKYU Operation

Last Update 3/June/2011

Structural Geology Observation Sheet

No. 81

Exp.: 338 Site: C0021 Hole: B Core: 9 Observer: TT+OF+KO Summary: All observations from CT Scan image

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave. depth	Thickness of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Notes
						az.	dip	az.	dip	rake (≤90)	from (±1, 90 or 270) * Top → "1" Bottom → "-1"	top	bottom	az./trend	dip	
5	SZ	37	45		3-4mm	120	0	210	55					64	143	(CT scan data)
	Fault	94	102			155	0	65	51							
	(tiny) Fault	131	139			0	0	90	49							
7	bedding	47	48			0	9	90	13							
		84,5	89			0	28	90	20					82	141	
8	Fault	7	15,5			0	58	90	48					0	50	
		18	23			31	0	121	48							
		23	33			150	0	60	57							

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Structural Geology Observation Sheet

No. 9

Exp.: 338 Site: C002J Hole: B Core: 10H Observer: OF+TT+KO Summary:

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave, depth	Thickness of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Notes
						az.	dip	az.	dip	rake (≤90)	from (±1, 90 or 270) * Top → "1" Bottom →"-1"	top	bottom	az./trend	dip	
9		Nothing to describe.														
10.																69-100cm: subvertical flow-like structure.
CC		Nothing to describe.														

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CHIKYU Operation

Structural Geology Observation Sheet

Last Update 3/June/2011

No. 91

Exp.: 338 Site: 21 Hole: B Core: 10 Observer: OFTHOTT Summary: CT scan observation

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave, depth	Thickness of Struct	Core face app. Dip az.	Core face app. Dip dip	2nd app. Dip az.	2nd app. Dip dip	Striation on surface rake (≤90)	Striation on surface from (±1, 90 or 270) "Top → "1" Bottom →"-1"	Coherent interval (for P-mag) top	Coherent interval (for P-mag) bottom	P-mag pole az./trend	P-mag pole dip	Notes
1	/															
2	bedd.	34,5	36,5			180	22	270	16			0	43			
3	fault	55,5	67,5			10	0	350	64		→	0	138			→ Normal fault component, offset is at least 6m
	bedding	95	95			168	0	78	18							
	bedding	106	106			152	0	62	15							
	ZS	113	127		3-4 mm	175	0	265	65							
4	bedding	45.5	49		3cm	270	13	180	25.5							
	Shear zone	56	63			290	42	189	53							
					(08)	306	0	216	62							
5	Shear zone	40	47			16	0	106	67			36	74			
6	Shz	13	23			19	0	109	81			10	92			
	Shz	24	46			30	0	300	85			"	"			
	Shz	100	109			30	0	120	83			93	123			
	Shz	111	123			27	0	297	76			"	"			
7	Shz	6	22			0	0	270	75			6	32			

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Structural Geology Observation Sheet

No. 10

Exp.: 338 Site: C0021 Hole: B Core: 11 Observer: TT Summary:

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave. depth	Thickness of Struct	Core face app. Dip		2nd app. Dip		Striation on surface		Coherent interval (for P-mag)		P-mag pole		Notes
						az.	dip	az.	dip	rake (≤90)	from (±1, 90 or 270) "Top → "1" Bottom →"-1"	top	bottom	az./trend	dip	
2	bedding	5	12.5		4cm	~~284~~	0	194	49			3	22.5			
	bedding?	81	87			41	0	131	43			33.5	138			
3	bedd.	55	57			90	20	180	21			0	60			from core
	bedd.	55	61			58	0	148	29			3	60			from CT
	Sh.Z (?)	46	54			46	0	136	53			3	60			
	Sh.Z.	96	104			270	45	180	55			90	119			
5	Sh.Z	65	73			40	0	130	56			35	126			4 → destroyed

CHIKYU Operation

360
72
288

+13

Structural Geology Observation Sheet

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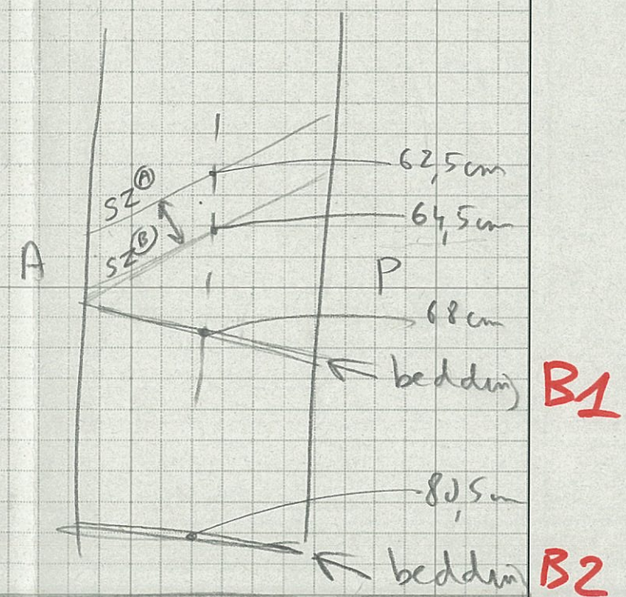
No. 11

Exp.: 338 Site: C0021 Hole: B Core: 12 Observer: Summary:

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave. depth	Thickness of Struct	Core face app. Dip az.	Core face app. Dip dip	2nd app. Dip az.	2nd app. Dip dip	Striation on surface rake (≤90)	Striation on surface from (±1, 90 or 270) • Top → "1" Bottom → "-1"	Coherent interval (for P-mag) top	Coherent interval (for P-mag) bottom	P-mag pole az./trend	P-mag pole dip
2	sh.z	43	104			270	49	0	44			9	19		
3	sh.z	0.5	9			18	0	~~288~~	62			0	141		
	sh.z	19	27			~~270~~	0	10	53						
	sh.z	53	65			90	62	0	50						
	sh.z	66	69			0	27	270	15						
	sh.z	70	82			345	0	75	85						
	sh.z	89	91			313	0	43	58						
	sh.z	94	102			319	0	49	62						
4	sh.z	11	15			316	0	46	58			11	34		
	sh.z	37	44			345	0	255	60			37	50		
5															
13 13 1-	SZ (A)	60,5	64,5		← SZ	0	30	270	10			0	140		
	SZ (B)	62	66			180	20	270	13			0	140		
	beddin	79	82,5	B2		0	0	90	30			"	"		
	Normal fault	93	100,5			6	0	96	45			"	"		
	bedding	67	69,5	→ B1											

Notes

all from CT scan images



→ destroyed

offset along steepest line = 3,7 cm

from CT images

bedding

VCD_sheet_str110603

CHIKYU Operation

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Structural Geology Observation Sheet

No. 12

Exp.: 338 Site: C0021 Hole: B Core: 13 Observer: OF, KO Summary: all measurements from core working halves

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave. depth	Thickness of Struct	Core face app. Dip az.	Core face app. Dip dip	2nd app. Dip az.	2nd app. Dip dip	Striation on surface rake (≤90)	Striation on surface from (±1, 90 or 270) * Top → "1" Bottom → "-1"	Coherent interval (for P-mag) top	Coherent interval (for P-mag) bottom	P-mag pole az./trend	P-mag pole dip	Notes
1	bedding	67	69			270	15	180	18			3	140			(Core observation)
	bedding	79	83			90	30	180	10			3	140			" "
2	bedding	7	7			270	4	180	5			0	48			" "
	bedding	20	23			270	30	0	0			"	"			
	bedding	38	40			270	5	180	10			"	"			
4	bedding	7	8			90	8	0	10			0	74			
	"	24	25,5			90	13	0	17			0	74			
	"	32,5	33,5			270	13	180	11			0	74			
		50	52			270	12	0	17			0	74			
4	bedding	106	107			270	9	0	17			77	140			
	"	116	117			90	7	0	0			77	140			
5	bedd	2,5	3			270	6	0	1			0	29			
	"	21,5	21,5			90	0	0	2			0	29			
6	bedd	23	23			90	4	0	1			0	72			
	"	44	44			90	1	0	3			0	72			
	"	54	54			270	0	180	11			0	72			
7	bedd	8	8			270	3	180	7			0	93			
	"	24	24,5			270	2	180	3			0	93			
	"	45	45,5			90	2	180	1			0	93			
	"	78	80			270	2	180	5			0	93			

CHIKYU Operation

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Structural Geology Observation Sheet

No. 13

Exp.: 338 Site: C0021 Hole: B Core: 13-14 Observer: KO+TT+OF Summary: all measurements from cores

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave, depth	Thickness of Struct	Core face app. Dip az.	Core face app. Dip dip	2nd app. Dip az.	2nd app. Dip dip	Striation on surface rake (≤90)	Striation on surface from (±1, 90 or 270) "Top → "1" Bottom →"-1"	Coherent interval (for P-mag) top	Coherent interval (for P-mag) bottom	P-mag pole az./trend	P-mag pole dip	Notes
8	bedding	62	63			270	4	0	2			55	102			
		84	84			90	0	180	2			55	102			
14 1	bedd	29	31			270	5	0	0			0	32			
	bedd.	114	123			270	42	180	21			43	141			local slumping (?)
3	bedding	18	18			90	3	180	7			0	147			
	"	35	35,5			90	7	180	3			0	147			
	"	62	63			270	6	180	2			0	147			
	"	92	92			90	2	0	13			0	147			
	"	104	104			90	5	0	13			0	147			
	"	136	136			270	6	0	0			0	147			
4	"	17	17			270	3	180	5			0	143			
	"	1135	113,5			270	0	180	1			0	143			
5	"	41,5	41,5			90	0	180	3			0	140			
	"	60,5	60,5			90	1	180	5			0	140			
6	"	6	7			90	7	180	3			0	148			
	"	19,5	19,5			270	1	0	2			0	148			
	"	42	43			270	4	0	6			0	148			
	"	61,5	62,5			270	10	180	2			0	148			
	"	92	93			90	6	0	3			0	148			
	"	1095	107,5			270	14	180	7			0	148			
	"	123	124			90	11	180	10			0	148			
7	"	24	25			90	5	0	12			20	52			
	"	405	40,5			90	0	0	4			20	52			
8		32	33,5			270	6	0	2			0	100			
		62	62,5			90	4	0	5			0	100			
		73	75			90	8	180	3			0	100			
		90	90,5			90	6	180	4			0	100			
	bedding	1045	105			270	4	0	6			101,5	106			

CHIKYU Operation

Last Update 3/June/2011

Structural Geology Observation Sheet

No. 14

Exp.: 338 Site: C0021 Hole: B Core: 13 Observer: TT Summary: all measurement from CT image

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave. depth	Thickness of Struct	Core face app. Dip az.	Core face app. Dip dip	2nd app. Dip az.	2nd app. Dip dip	Striation on surface rake (≤90)	Striation on surface from (±1, 90 or 270) "Top → "1" Bottom → "-1"	Coherent interval (for P-mag) top	Coherent interval (for P-mag) bottom	P-mag pole az./trend	P-mag pole dip	Notes
2	bedding	72	148		7.1cm	0	0	90	0			5	40			
	bedding?	21	24			352	0	262	33							
	bedding	37	41			180	17	270	21		top surface					→ slump fold
	bedding	37	41			180	18	270	0		- bottom surface					
3	bedding	3	28			270	4	0	15			3	18			strike of bedding changes → slump
4	bedding	7	8			180	11	90	10			4	75			
	bedding	19	25			90	16	0	8							
	or					333	0	63	14							
	bedding	33	34			180	16	270	13							
	bedding	51	57			0	12	270	10							
	bedding	58	60			180	18	270	16							
	bedding	88	99			270	19	0	5			top 117	134			
						270	9	180	4			bottom				
	bedding	117	118			0	0	90	6							

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CHIKYU Operation

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Structural Geology Observation Sheet

No. 15

Exp.: 338 Site: C0021 Hole: B Core: 13 Observer: TT Summary: all measurements from X-CT

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave. depth	Thickness of Struct	Core face app. Dip az.	Core face app. Dip dip	2nd app. Dip az.	2nd app. Dip dip	Striation on surface rake (≤90)	Striation on surface from (±1, 90 or 270) "Top → "1" Bottom → "-1"	Coherent interval (for P-mag) top	Coherent interval (for P-mag) bottom	P-mag pole az./trend	P-mag pole dip	Notes
5	bedding	80	63			270	3	180	3			53	121			
	bedding	75	76			270	3	180	2							
	bedding	98	98			90	2	0	3							
6	bedding	42	44			90	1	0	14			05	72			
	bedding	67	68			270	4	0	4							
	bedding	102	102			0	0	0	0			75	130			
7	bedding	15	15			0	0	0	0			1	93			
	bedding	23	25			270	8	180	7							
8	bedding	21	21			90	0	0	4			5	52			
	bedding	47	48			180	5	90	7							
	bedding	66	66			270	5	0	2			65	102			
	bedding	90	91			270	3	0	7							

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Structural Geology Observation Sheet

No. 16

Exp.: 338 Site: C0021 Hole: B Core: 14 Observer: TT Summary: all data from CT images

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave. depth	Thickness of Struct	Core face app. Dip az.	Core face app. Dip dip	2nd app. Dip az.	2nd app. Dip dip	Striation on surface rake (≤90)	Striation on surface from (±1, 90 or 270) * Top → "1" Bottom → "-1"	Coherent interval (for P-mag) top	Coherent interval (for P-mag) bottom	P-mag pole az./trend	P-mag pole dip	Notes
1	bedding	52	52			270	4	180	4			4	134			
	bedding	81	82			270	3	180	3							→ bedding changes
	bedding	93	97			270	20	0	33							
	bedding	104	108			270	36	0	28							
2	bedding	13	16			270	6	180	2.5			4	28			
3	bedding	4	5			90	13	180	4		→	1	77			
	bedding	20	20			180	6	90	9							
	bedding	44	44			0	3	90	14							
	bedding	81	82			90	4	0	12			97	147			
	bedding	92	92			90	3	0	6							
	bedding	136	136			270	7	0	5							
4	bedding	17	18			270	4	180	8			4	95			
	bedding	32	35			0	35	270	8							
	bedding	70	71			0	7	270	16							
	bedding	80	87			0	0	90	2							
	bedding	114	115			0	0	90	2			104	143			

CHIKYU Operation

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Structural Geology Observation Sheet

No. 17

Exp.: 338 Site: C0021 Hole: B Core: 14 Observer: TT Summary: all data from X-CT

Section No.	Structure ID	Top of Struct	Bottom of Struct	ave. depth	Thickness of Struct	Core face app. Dip az.	Core face app. Dip dip	2nd app. Dip az.	2nd app. Dip dip	Striation on surface rake (≤90)	Striation on surface from (±1, 90 or 270) * Top ↔ "1" Bottom ↔"-1"	Coherent interval (for P-mag) top	Coherent interval (for P-mag) bottom	P-mag pole az./trend	P-mag pole dip	Notes
5	bedding	42	47			90	0	0	0			8	140			from CT
	bedding	61	61			90	8	180	3							
	bedding	103	104			90	4	180	0							
	bedding	122	122			270	10	0	5							
6	bedding	14	15			90	3	0	2			3	147			
	bedding	56	56			270	5	180	1							
	bedding	89	90			270	5	0	3							
	fault	85	91			270	66	0	45							→ normal fault displacement 1mm (difficult to distinguish from drilling induced deformation)
	bedding	107	109			270	11	180	9							
	bedding	124	124			90	8	180	2							
	bedding	141	142			270	5	180	12							
7	bedding	23	25			90	5	0	6			5	52			
	bedding	41	46			90	3	0	7							black layer
8	bedding	10	12			90	6	180	5			13	99			
	bedding	60	62			90	3	180	3							
	bedding	73	74			90	15	180	13							→ disturbed
	bedding	89	93			90	12	180	9							