

# Structural Geology

Exp:

Site: *C0002A*

Core: *1H*

Observer: *OF  
CEL*

Summary: *Foraminifera*

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
<i>1</i>	<i>clear no structure</i>															
	<i>same for sections 2 ~ cc.</i>															
<i>5</i>	<i>bedding</i>	<i>78</i>	<i>86</i>			<i>90</i>	<i>57</i>									
<i>8</i>	<i>bedding</i>	<i>39</i>	<i>41</i>			<i>270</i>	<i>20</i>									
<i>sect. 6</i>	<i>bedding</i>	<i>86</i>	<i>86</i>			<i>270</i>	<i>01</i>	<i>0</i>	<i>10</i>			<i>0</i>	<i>145</i>			<i>— sand layer of 6 cm thick</i>
<i>6</i>	<i>fault (normal)</i>	<i>1</i>	<i>23</i>			<i>270</i>	<i>66</i>	<i>8</i>	<i>0</i>			<i>1</i>	<i>145</i>			<i>healed. offset = 0.6 cm</i>
<i>6</i>	<i>fault (normal)</i>	<i>125</i>	<i>145</i>			<i>270</i>	<i>84</i>	<i>155</i>	<i>0</i>			<i>1</i>	<i>145</i>			<i>healed. clear on CT images. color and density difference across the fault.</i>

*2H mud with occasional appearance of large pumice gravels.*

*— sand layer of 6 cm thick*

*healed. offset = 0.6 cm*

*healed. clear on CT images. color and density difference across the fault.*

# Structural Geology

Exp: 3/6

Site: C0008A

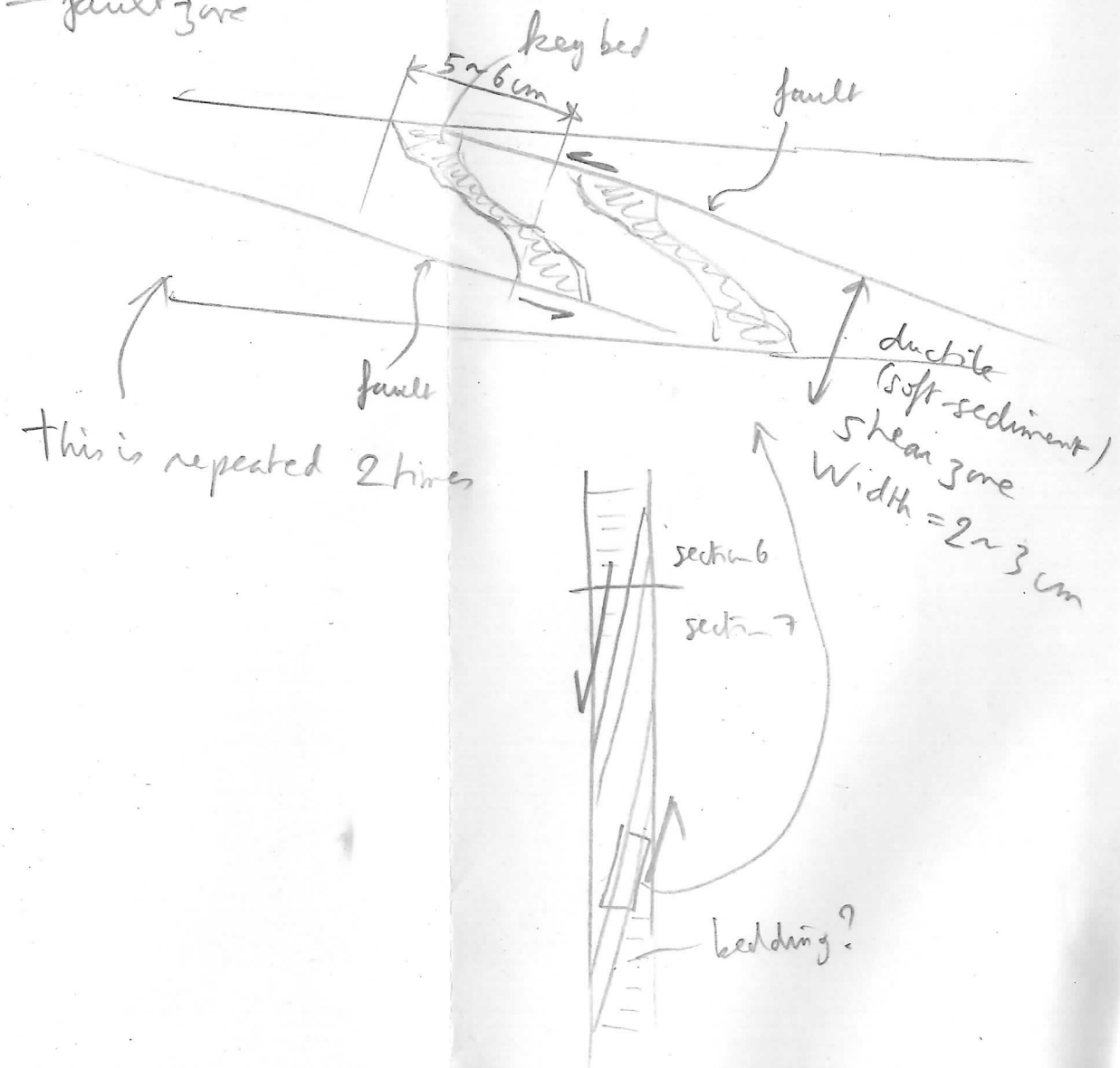
Core: 2H

Observer: <sup>DF</sup>CPZ

Summary:

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
5	soft sediment shear zone	85	89			270	21									
7	normal fault	<del>85</del> 63	<del>89</del> 94			270	84	35	0			<del>126</del> 0	<del>145</del> 145			
7	normal fault	63	94			270	76	5	0			0	145			
9	bedding	3	8			270	32	180	23			0	53			
9	bedding	43	45			90	5	180	3			0	53			

from section 6 - 126<sup>cm</sup> down to section 7 - 94, a series of steep (>75°) normal faults offsetting horizontal(?) bedding(?) = fault zone



# Structural Geology

Exp: 316    Site: C0008A    Core: 3H    Observer: <sup>of</sup> ~~CF~~ <sub>AT</sub>

Summary: Greenish bedding? High-angle normal fault?

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole	
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip
1	bedding	33	38	doubtful		90	32	0	31			0	41		
	"	60	62			90	12	0	33			57	142		
	"	94	97			90	21	0	29			57	142		
2	normal? fault?	36	67			90	80	47	0			0	146		
6	bedding	12	12			90	6	0	10			0	50		
9	bedding	62	65			90	23	180	43			0	119		
10	bedding	56	57			270	3	0	6			0	95		
	bedding	63	64			270	3	0	12			0	95		
	bedding	78	79			90	3	0	4			0	95		
cc	bedding	26	27			270	4	0	4			0	44		
	bedding	33	34			270	7	180	3			0	44		

Greenish layers are often parallel to the true bedding

white sand layer (volcanic ash)

# Structural Geology

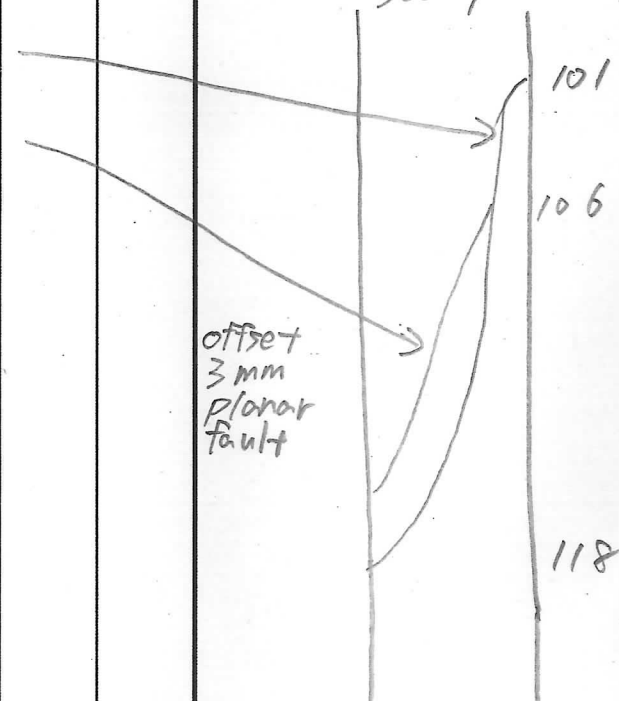
Exp: 316 Site: <sup>Cood</sup>A Core: 4H Observer: AY EU

Summary: subhorizontal beds locally w/ faults

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
1	bedding	62	63			90	1	0	4			0	130			
2	bed	61	62			90	3	180	4			0	131			
7	fault	101	118			270	82	17	0			0	133			
	fault	106	118			270	69	34	0			0	133			
8	bed	81	82			90	3	180	4			0	131			
9	bed	22	23			90	8	180	3			0	44			
	fault (normal)	60	76			270	78	351	0			60	82			

curvilinear, bifurcated  
Sec. 7

offset  
3 mm  
planar  
fault



# Structural Geology

Exp: 316

Site: C0008  
A

Core: 5H

Observer: KU  
AY

Summary: horizontal to subhorizontal beds  
one fault

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
1	bed	105	106			90	4	0	3			0	131			
2	bed	36	37			90	7	0	4			0	140			
3	bed	59	59			90	2	0	2			0	149			
7	fault	84	94			90	59	171	0			0	132			
8	bed	61	61			horizontal						0	131			
	bed	104	105			90	7	180	7			0	131			
9	bed	67	67			horizontal						0	77			

# Structural Geology

Exp: 316

Site: C0008  
A

Core: 6H

Observer: KU  
AY

Summary: subhorizontal bedding

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
1	bed	110	111			90	5	0	2			0	133			
2	bed	60	61			90	6	180	1			0	145			
3	bed	72	74			90	12	0	1			61	142			
4	bed	90	90			90	2	180	10			0	108			
6	bed	53	54			90	5	0	4			0	90			
8	bed	10	11			90	3	180	6			0	131			
9	bed	59	59			90	2	180	5			0	76			

# Structural Geology

Exp: 316

Site: 00008  
A

Core: 7H

Observer: F. [unclear]

Summary: Turbidite beddings + 2 ash layers

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
	8 bedding	33	33			270	3	0	6	0	130					
	9 bedding	15.5	15.5			90	2	180	3	0	78					
	9 bedding	39	39			90	1	180	2	0	78					
	9 bedding	55	55			90	3	0	2	0	78					
	9 fault (W)	36	40.5			90	61	152	0	0	78					
	cc bedding	12	13			90	8	180	5	0	57					
	cc bedding	24	25			270	15	180	9	0	57					

enter [unclear] healed offset = 1cm

# Structural Geology

Exp: 16

Site: 60008  
A

Core: 7H

Observer: Fabrice Li

Summary: Same as 6H

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
4	bedding	45	45			90	2	0	6			0	114			
4	bedding	70	70			90	4	180	5			0	114			
4	bedding	89	89			90	1	0	2			0	114			
6	bedding	56	56			90	11	180	1			0	143			
6	bedding	12	18			270	41	180	5			0	143			- slumped bedding
6	fault (N)	4	14			270	51	180	49			0	143			Normal fault clear on the CT scan
6	bedding	123.5	123.5			90	3	0	7			0	143			
7	bedding	13	13			270	5	0	8			0	134			
7	bedding	61.5	61.5			90	3	180	1			0	134			
7	bedding	92	92			90	5	0	4			0	134			
7	bedding	109	109			90	0	0	7			0	134			



# Structural Geology

Exp: 316

Site: 00008  
A

Core: 74

Observer: Fabbri

Summary: turbidite beddings

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
1	bedding	36	36			90	17	0	2			0	130			
1	bedding	46	47			90	16	0	2			0	130			
1	bedding	60	61			90	10	0	1			0	130			
1	bedding	94.5	94.5			270	0	0	10			0	130			
1	bedding	116	117			90	5	0	9			0	130			
2	bedding	70	70			90	4	0	1			58	136			
3	bedding	38	39			90	5	0	1			30	131			
3	bedding	61	62			90	9	180	2			30	131			
3	bedding	76	77			90	6	180	6			30	131			
3	bedding	98	98			90	5	180	9			30	131			
4	bedding	12	12			90	8	180	7			0	114			
4	bedding	29	29			90	5	0	7			0	114			

# Structural Geology

Exp: 316

Site: 00008 A

Core: 8H

Observer: Fabbri

Summary: periodic turbidite bedding

~~Sand~~  
mud

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
1	bedding	6.5	6.5			270	2	0	6			0	131			
1	bedding	22	22			270	8	0	7			0	131			
1	bedding	51	51			270	5	180	1			0	131			
1	bedding	65	65			90	5	0	6			0	131			
1	bedding	80	80			90	6	180	1			0	131			
1	bedding	98	98			90	1	180	2			0	131			
1	bedding	116	116			90	0	0	13			0	131			
-----																
2	bedding	9	10			270	4	0	7			0	130			
2	bedding	20.5	20.5			270	5	180	5			0	130			
2	bedding	57.5	59			270	11	0	5			0	130			
2	bedding	81	81			90	2	180	1			0	130			
2	bedding	96	96			90	1	0	8			0	130			
2	Fault N	116	122			270	56	147	0			0	130			

- heated. offset = 1 cm

# Structural Geology

Exp: 316 Site: <sup>0008</sup>A Core: 8H Observer: Fabrik Summary: Getting less sandy downcore.

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
3	bedding	9	9			90	5	0	1			0	129			
3	bedding	33	33			90	3	0	0			0	124			
3	bedding	95	96			90	7	0	0			0	124			
3	bedding	116	116			270	1	0	2			0	124			
4	Fault (N)	15	25			270	55	180	15			0	60			healed offset = 1.5 cm
4	fault (N)	21	31			270	54	180	28			0	60			healed
4	bedding	84	84			90	0	180	28			81	129			
6	fault (W)	12	23			90	58									offset = 2 cm. healed. No sand found in this section
7	normal fault	0	9			90	60	41	0			0	103			offset 1~2cm. less sandy
	normal fault	54	64			90	60	08	0			0	103			
8	bedding	38	38			270	6	180	11			0	90			
8	bedding	55	56			90	3	0	2			0	90			

# Structural Geology

Exp: 316

Site: 0008  
A

Core: 9H

Observer: Faber

Summary: Gravity flow sequences

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
1	bedding	44	45			90	9	0	6			0	105			
1	bedding	71	71			270	0	0	15			0	105			
2	bedding	26	27			90	6	0	2			0	128			
2	bedding	61	61			270	4	0	10			0	128			
2	bedding	74	74			90	1	180	2			0	128			
2	bedding	99	99			90	5	0	10			0	128			
3	bedding	49	50			270	7	0	10			46	91			
3	bedding	73.5	73.5			90	0	0	5			46	91			
3	bedding	124	124			90	1	0	0			109	133			
4	bedding	10	10			90	4	180	2			0	31			
4	bedding	23	23			90	1	0	3			0	31			
4	bedding	67	67			270	0	0	10			62	88			
6	bedding	44	44			90	6	0	14			40	61			

# Structural Geology

Exp: 316

Site: 00008  
A

Core: 10H

Observer: Fabbri

Summary: low-angle bedding

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
1	bedding	42	45			90	25	0	20			31	47			
2	bedding	16	17			90	10	0	12			0	96			
2	bedding	32	33			90	8	0	10			0	96			
2	bedding	55	56			90	7	0	6			0	96			
2	Fault (N)	86	92			270	52	150	0			0	96			healed. offset = 3 cm (photo taken)
2	bedding	43	43			90	7	0	14			0	96			
3	bedding	10	10			90	3	0	10			0	84			
3	bedding	32	32			90	6	0	5			0	84			
3	bedding	50	50			90	4	0	3			0	84			
3	bedding	69	69			90	2	0	0			0	84			
3	bedding	92	92			90	0	0	3			0	84			
4	bedding	65	65			90	6	180	4			56	78			
4	bedding	86	86			90	8	0	3			80	125			
4	bedding	105	105			90	2	0	5			80	125			
4	bedding	133	133			90	10	180	3			130	140			



# Structural Geology

Exp: 316

Site: <sup>Cop 08</sup>  
A

Core: 11H

Observer: A.T.  
K.U.

Summary:

Sec. 1 ~ 7, Sec. 8 0-70 cm: subhorizontal or gently dipping bedding

Sec. 8. 70-140 cm, cc: disturbed by gas expansion.

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
1	bedding	91	92			90	6	0	8			69	140			
2	bedding	86	87			270	5	0	1			59	139			
5	bedding	18	20			90	23	0	1			0	31			
	bedding	91	93			90	13	0	7			51	117			
6	bedding	84	85			90	8	180	2			81	111			
7	bedding	54	54			270	1	180	4			43	105			
8	bedding	55	55			270	2	180	9			0	70			

# Structural Geology

Exp: 316

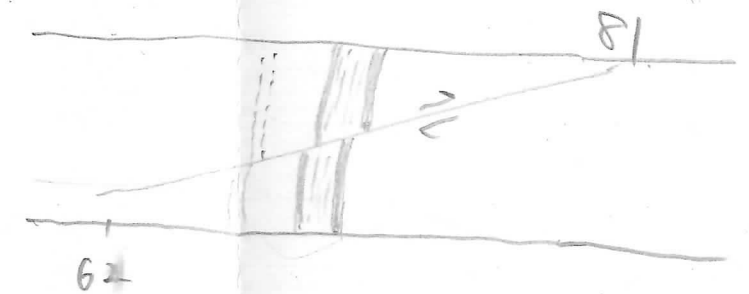
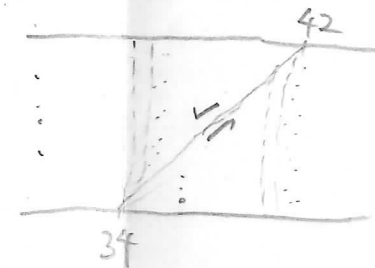
Site: <sup>C0008</sup>  
A

Core: 12H

Observer: AY  
KJ

Summary:

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
1	bedding	23	24			90	2	0	7			0	89			
	bedding	46	47			90	1	0	6			0	89			
2	bedding	9	10			90	2	0	8			0	52			
	bedding	41	42			270	3	180	2			0	52			
	bedding	99	100			270	4	0	12			91	140			
3	bedding	5	6			90	8	0	6			0	30			
	bedding	91	91			90	3	0	6			57	140			
4	bedding	118	118			90	1	180	7			57	140			
	fault (reverse)	34	42			90	48	2	0			31	59			offset = 6.5cm
	bedding	54	54			90	5	180	1			31	59			
6	bedding	100	101			90	3	180	3			86	114			
	bedding	24	25			90	10	180	8			0	52			
	fault (normal)	62	81			90	73	22	0			54	88			offset = 8mm





# Structural Geology

134

Exp: 316

Site: <sup>Coast</sup>A

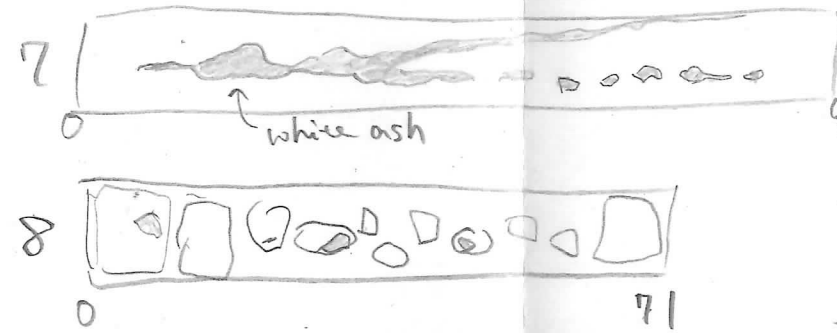
Core: 3H

Observer: A.T. K.U.

Summary: Sec. 1 ~ 4: Subhorizontal bedding, no deformation structures.  
(Sec. 5: IW)

Sec. 6: many voids.

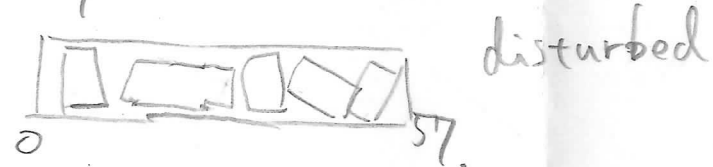
Sec. 7, 8, cc: elongated ash layer along core.



disrupted.

"Nankai gas field"

only cc. |14H|



|15H|

Sec. 2: soopy mud.

Sec. 3 ~ cc: Vertical flow texture. (see next paper)  
probably HPCS coring disturbance.

|16H|

offset: 4.5cm.

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
2	bedding	65	67			270	17	0	4			51	140			
3	bedding	109	110			90	11	0	10			51	132			
4	bedding	5	5			90	4	180	1			0	92			
	bedding	43	44			90	3	0	1			0	92			
	bedding	81	82			90	6	0	2			0	92			
						14H										
						15H										
2	bedding	15	16			16H	270	4	0	8		0	62			
3	fault (normal)	15	28				90	68	196	0		0	29			
5	bedding	9	9				horizontal					0	24			
cc	bedding	18	19				90	11	180	10		5	37			

# Structural Geology

Exp: 316

Site: C0008  
A

Core: 5H

Observer: A.Y.

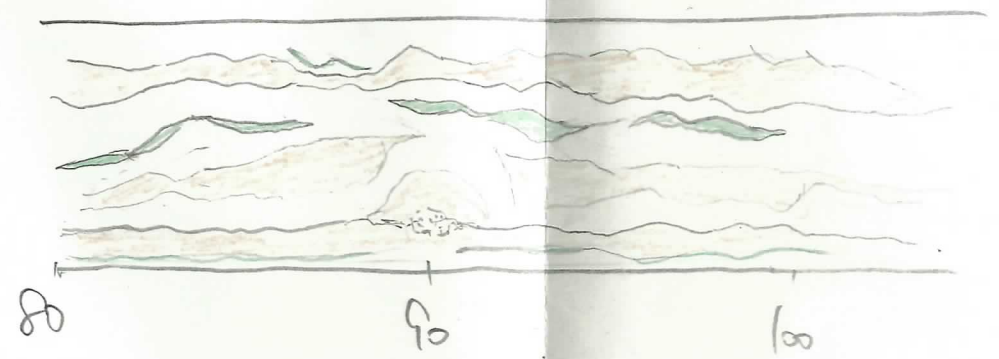
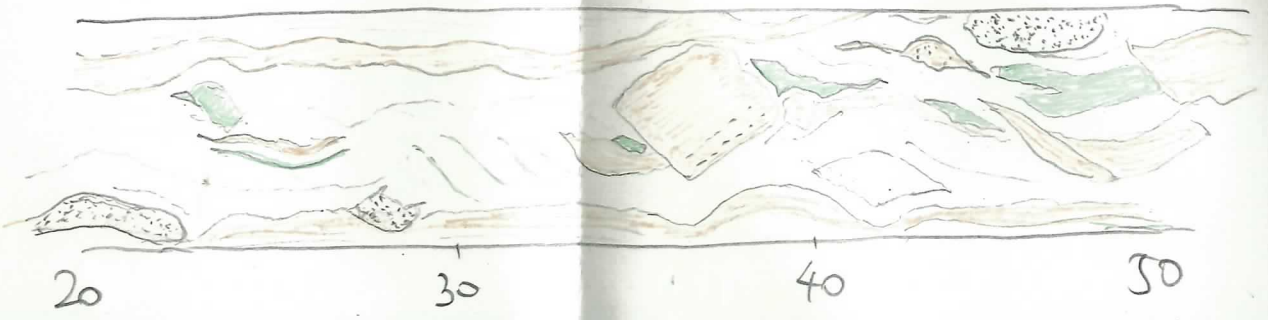
Summary:

Core 5H.

drilling-induced vertical flow texture.

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes	
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip		

Sec. 7.



# Structural Geology

Exp: 16 Site: C0008 A Core: 17H Observer: Fallon Li

Summary:

showing fissilities in siltstone of section 1-3

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
1																
2	bedding	17	17			270	2	0	3			0	38			
3	sand layer	94	115													
4																
5																
6	JW															
7																
8																
9																

Below this sand layer, sediments are quite homogeneous from section 4 to section 9

Show drilling-induced vertical axial banding. The inner part of the core has slightly lighter colors than the margins. (photo)

# Structural Geology

Exp: 316

Site: 00008  
A

Core: 18H

Observer: Fabbrì

Summary:

mud and smeared ash (drilling induced)

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
1	fissility	54	55			270	3	180	2			2	98			
1	bedding	87	92			270	33	180	36			2	98			
1	bedding	110	111			270	8	0	3			107	127			
2																
4																
5																
6	fissility	28	28			270	3	180	16			0	84			
7	fissility	19	19			270	0	180	8			0	66			
8																
cc																
1	fissility	87.5	87.5			270	2	180	7			65	115			
1	bedding	101	101			270	5	0	18			65	115			
1	fissility	105	105			270	4	180	2			65	115			
3	bedding	18	18			270	0	0	6			0	30			
3	fissility	59	59			270	4	180	13			36	88			

smeared ash ————— All throughout the core

19H



# Structural Geology

Exp: 36 Site: 6008 A Core: 21H Observer: KU AT

Summary:

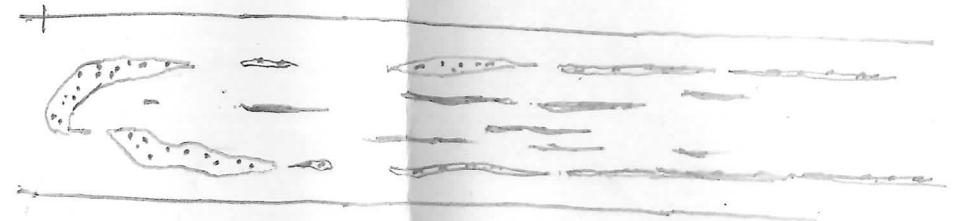
Sec. 1 ~ Sec. 6, 78<sub>cm</sub>: subhorizontal beds

Sec. 6, 78<sub>cm</sub> ~ CC: HPCS coring-related disturbance.

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes	
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip		
1	bedding	87	88			90	3	0	1			0	140				
2	bed	96	96			270	3	180	4			0	140				
4	bed	84	84			90	1	0	17			0	112				
						<u>22H1</u>											
2	bedding	66	66			270	6	0	6			0	76				
3	bedding	7	7			270	4	180	3			0	130				
	bedding	107	108			90	10	180	4			0	130				
4	fault	40	51			90	70	330	0			0	137				
	bed	63	63			90	2	180	2			0	137				

Sec. 6

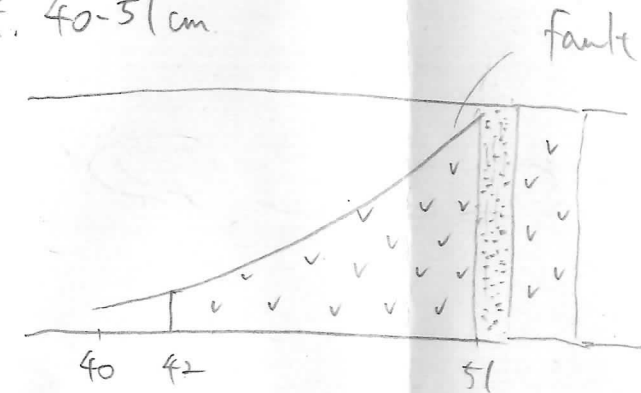
78cm: onset of HPCS coring-related disturbance.



Sec. 1 ~ Sec. 7, 33cm: subhorizontal beds

Sec. 7, 33cm ~ CC: HPCS coring-related disturbance.

Sec. 4, 40-51cm



# Structural Geology

Exp: 316

Site: C0008  
A

Core: 23H

Observer: KU

Summary: subhorizontal beds

Sec. 6-cc: soupy sand

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
1	bed	93	94			90	7	180	3			0	127			
2	bed	56	56			90	5	0	1			0	129			
3	bed	52	53			270	4	180	3			42	131			
	bed	101	102			90	4	0	1			42	131			
4	bed	3	3			90	8	180	5			0	36			
						24	11									
2	bedding	48	48			270	2	0	14			36	107			
3	bedding	63	63			90	2	0	18			49	69			
4	bedding	47	47			90	3	180	1			0	68			
	bedding	110	110			270	3	180	3			95	145			

24H

Sec. 1-4: subhorizontal bedding.

5-cc: flow textures caused by HPCS coring

# Structural Geology

Exp: 316

Site: Coopy A

Core: 25H

Observer: Fabrizio

Summary: Horizontal bedding and thin sand layers between thick mudstone layers

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
3	bedding	31	31			90	3	180	10			0	67			
3	bedding	83.5	83.5			90	0	0	2			73	101			
1	fissility	34	34			90	0	0	0			0	145			
1	bedding	53	53			90	1	180	3			0	145			
1	bedding	113	113			90	0	0	5			0	145			
1	bedding	126	126			270	6	0	3			0	145			
4	bedding	38	39			90	5	0	6			0	40			
4	"	55.5	55.5			90	1	0	5			52	100			
4	"	69	69			90	0	0	1			52	100			
4	bedding	92	92			90	0	180	5			52	100			
5	bedding	7.5	7.5			270	5	0	3			0	82			
5	bedding	26	26			270	4	180	6			0	82			
5	bedding	36	36			270	7	90	1			0	82			

cc



# Structural Geology

316

00008

Exp:

Site: A

Core: 26H

Observer: Fabbri

Summary:

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
1	bedding	38	38			270	1	0	0			0	45			found ripple marks ? or erosional base of turbidity flow (pic taken). Measurements of the longitudinal axis: 76° from 270° or 166° - 0° (az) (dip)
1	bedding	120	120			270	6	180	2			95	28			
3	fissility	15	15			270	5	180	1							
4	whitish sand	section														
5	"	"														
6	"	"														
7	"	"														
8	"	"														
9	"	"														
10	"	"														
1	bedding	74	75			270	4	0	13			71	116			
1	bedding	92	92			270	1	0	13			71	116			
2	bedding	19	19			270	0	0	0			0	24			
3	bedding	15	15			270	4	0	6			0	50			
3	bedding	100	100			270	4	0	1			90	121			
4	fissility	40.5	40.5			270	2	180	1			0	89			
6	soapy mud															
7	soapy mud															

found ripple marks ? or erosional base of turbidity flow (pic taken).  
 Measurements of the longitudinal axis:  
 76° from 270° or 166° - 0°  
 (az) (dip)

ash layer. No grading

27H

# Structural Geology

Exp: 216

Site: 00008  
A

Core: 28H

Observer: Fabbricci

Summary: Coherent mudstone interbedded with very thin sand.  
(weak seismic reflections)

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
1	bedding	22	22			90	0	0	3			0	63			
1	bedding	53	53			90	0	0	5			0	63			
2	bedding	35	35			90	0	0	5			0	67			
						90	0	0	2			52	127			
4	bedding	56	56			90	0	0	2							
5	fissility	4	4			270	3	180	4			0	62			
5	bedding	16	16			270	1	180	8			0	62			
-----																
1	bedding	50	50			90	1	0	1			0	130			
1	bedding	65	65			270	2	0	0			0	130			
2	fault (N)	9	12			270	20	180	59	80	270	0	85			
2	fault (N)	19	34			90	54	180	54	30	90	0	85			
2	fault (N)	59	65			270	80	180	85	18	270	0	85			
4	bedding	42	42.5			270	6	0	8			0	98			

29X

# Structural Geology

Exp: 316

Site: C0008  
A

Core: 29X

Observer: Falbr  
L

Summary:

subhorizontal bedding + bi'scutting

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
6	bedding	115	115			90	2	180	1			0	131			
6	bedding	74	79			270	7	180	2			0	131			-black sand layer. Basaltic ash.
7	bedding	12	12			90	0	180	5			0	47			
7	fault (N)	48	52			90	67	180	61	5	270	47	61			
7	bedding	119	119			270	1	180	5			110	120			
8	bedding	91	93			270	7	0	0			63	97			
8	bedding															
9	bedding	41	41			90	7	0	2			38	52			
cc	bedding	17	17			270	3	0	7			9	31			

# CT Description Sheet

Exp:	Site:	Core:	Observer:
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	section	structure Type	top of struct	bottom of struct	ave. depth	thickness (cm)	Notes
29	1	defm band	44	50	47	13cm	large defm band, normal sense by offset of burrows 13 cm thick 158, 63 NE
29	1	defm bands	common throughout				
29	8						
29	9	defm band	0.	34 cm		2cm	thick defm band in several burrows 2cm thick

# Structural Geology

Exp: 316

Site: C-008  
A

Core: 30X

Observer: KM  
AT

Summary:

ESCS coring - and splitting-related disturbance throughout  
One bedding in sec. 9 and occurrence of bioturbation suggest  
subhorizontal beds.

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
9	bed	65	67			270	18	180	2			66	80			
						[31X]										
3	healed fault	93	95			270	11	180	5			93	95			
4	healed fault	49	54			270	76	165	0			49	54			
	healed fault	61	64			90	81	140	0			61	64			
	healed fault	73	74			90	58	236	0			72	75			
	healed fault	73	74			90	82	230	0			72	75			
	healed fault	77	79			90	43	226	0			77	79			
	healed fault	77	79			90	50	234	0			77	79			
7	bedding	95	95			270	1	180	3			93	96			
8	healed fault	32	35			270	75	177	0			31	35			
9	healed fault	44	46			90	24	160	0			44	47			
cc	healed fault	37	38			270	7	180	8			32	41			layer parallel

NOTE From Core 31X, core splitting is done by saw, so identification of coherent interval (biscuiting boundaries) will be reliable.

Summary: probably subhorizontal bedding (similar to 30X) & healed faults. High-angle healed faults are dominated.

# Structural Geology

Exp: 3/6 Site: Coops A Core: 32X Observer: KU AY Summary:

Subhorizontal bedding and <sup>Some</sup> bedding-parallel healed faults.

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
3	bedding	32	33			270	7	180	5			32	35			
5	healed fault	103	106													layer parallel.
8	bedding	19	19			90	3	0	7			16	20			
9	healed fault	13	13			270	3	180	8			12	14			layer parallel.
Cc	bedding	45	45			270	3	0	6			41	47			
						33X										33X
1	fissility	8	8			270	5	180	3			4	9			
	fissility	18	18			90	2	0	1			16	21			
	healed fault	19	19			90	2	0	1			16	21			layer parallel.
2	healed fault	59	59			horizontal						57	61			layer parallel.
	bedding	59	59			horizontal.						57	61			
	fissility	100	100			270	6	180	2			95	102			
3	fissility	25	25			270	2	180	1			24	27			
	bedding	113	113			270	3	180	7			113	119			

Sec. 2-5: conglomerate

layer parallel.

layer parallel.

33X

layer parallel.

layer parallel.

# Structural Geology

Exp: 316 Site: <sup>Coop</sup>A Core: 33X Observer: <sup>KU</sup>AT Summary:

section	structure ID	top of struct	bottom of struct	average depth	thickness (cm)	core face app. dip		2nd app. dip		striation on surface		coherent interval (for P-)		P-mag pole		notes
						az.	dip	az.	dip	rake	from	top	bottom	az/trend	dip	
5	healed fault	11	11			270	5	180	6			10	14			layer parallel
5	healed fault	0	2			180	67	170	0			0	2			
5	healed fault	0	2			180	50	178	0			0	2			
6	healed fault	17	17			90	1	0	5			15	19			
7																
cc																
1	Gravel	19	49													
1	mudstone	49	59													
1	fissility	55	55			270	0	180	4			52	58			
cc	fissility	16	16			90	2	180	1			12	21			
cc	sand	21	35													
36X	fracture	11,5	12			270	4	0	40			6	12			Cores 35 and 36: conglomerate, sand, silt

34X

— Could be fall-offs from above  
 — The mudstone is very much like what saw in Coop D-2/R

38X