

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
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↓ 0-4  
↑ 14 of Fam 11  
↑ 270

Deformed  
11 180 52

COBBLES

metre minute, striated (down-dip)  
; well developed kinkation in green material similar to host rock, on a curvilinear surface with a polished appearance.

strike = 90°

black seam? stylolite? planar contact?  
@ 31-33 cm → zone of enastomosing bands, looks somewhat elongate (flattened or stretched clasts?) Aperticity? no obvious grain size reduction, bedding parallel

coherent, homogeneous isotropic.

270 7 000 3  
bisect @ 81-82

sharp bed, confined massive ment

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
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Coherent →  
homogeneous

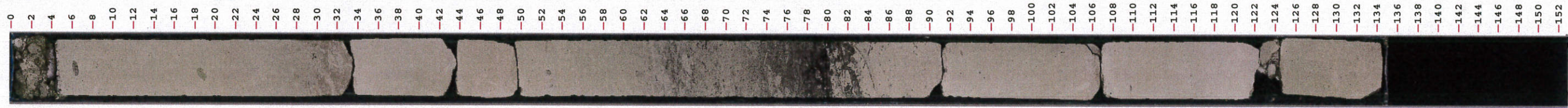
— base wt boundary —

# Expedition 375 - Hikurangi

375-U1520C-3R-1-A | SHLF9444331

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
Comments/Sketches										

CM Scale





Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
<p>CM Scale: 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152</p>										
								<p>Several stratified inclined faults, distinct from non-stratified fractures in section 5</p>	J.M.	
								<p>3D sketch of broken fragment</p> <p>striations parallel to core face, up to 50 to ward, 000, 1230</p> <p>88-92: indeterminate fault, still healed (270, 49; 000, 21) - can spread to open "fracture" above!!</p> <p>80-84: indet. fault (270, 45; 000, 3)</p> <p>Not striated - now over</p> <p>striations parallel to core face, up to 50 to ward, 000, 1230</p> <p>88-92: indeterminate fault, still healed (270, 49; 000, 21) - can spread to open "fracture" above!!</p> <p>probably normal offset</p>		
								<p>shows</p> <p>Broken fragment strikes lines on inclined surf. 119-122; (270; 42; 180, 20) - planar orie.</p> <p>rate on the surface 8° from core face?? rate 100, 0.??</p>		
								<p>Basalt fragment suggests top of MTD</p>		

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer: J.M. M.W.	Date:
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0 - 81 Debris flow deposit, with altered basalt fragments\* alteration of surrounding sediments  
 - lots of clay fragments, elongated, aligned  
 - shear surfaces, thin, X-cutting low angles  
 - sedimentary flow fabrics, sometimes truncated at boundaries  
 - some possible brecciation 18-25  
 - cross-striating dark seams 23-30  
 - swirly flow bands 60-73

precipitated fragments  
 coarse (spds) clasts  
 flow coloration, bedded bedup  
 possible brecciation  
 possible boundary bedding  
 sharp flow shear surfaces  
 sharp shear surfaces

Non-welded flow & sands



CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0	↓ 1-3,								1-3, basal in flow, more of debris flow		
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59-74, cross cutting bioturbation, has E. vert →

72-74, fracture w/ no striations

88-90, fracture w/ no striations

120-123, fracture w no striations

striations  
fracture  
fracture

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
<p style="text-align: center;"><i>No structures</i></p>										

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SAPCOM



Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								12-15, possible fault, normal offset		
								✓ 67-72, fault, core face (090, 42) (80, 4)		
								striation (rake) L		
								80, bedding (090, 0; 000, 0) ✓		
								83-87, three faults		
								86-87, fault, (090, 43)		
								✓ 94-98, normal fault (270, 40; 180, 45)		
								rake (090, 23)		
								✓ 99-102 Small normal faults (270, 25; 180, 13)		
								offset: 0.7 cm		

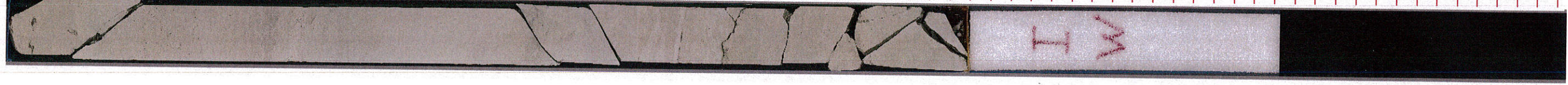
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Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
									J.M M.W	
								7~13, fault with splay (270, 49; 180, 0) ✓ rake (0, 19) - M.W		
								49~52, fault, (090, 40; 180, 17) ✓ rake (270, 5)		
								56-60, two faults (090, 40; 000, 12) ⊕ rake (090, 25) fault 2 55~57 (090, 27; 180, 21) lower conflicts		
								69~70, fault (270, 20; 180, 20) ✓ rake, <del>000</del> 90		
								84~88, fault (270, 48; 000, 0) ✓ rake <del>000</del> (90; 28)		
								90~93, fault (090, 52; 180, 8) ✓ rake (090, 0)		
								92~93, fault (090, 33; 000, 8) ✓ rake: (090, 26) beautiful striation		

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Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								Comments/Sketches	J.M. m.w	
								Dn 18, multiple thin normal faults fault plane ↘ 1090, 46; 000, 38) ✓ Slickenside not measurable, offset: 5 ~ 10 mm.		
								48 ~ 53, fault, (090, 45; 180, 26) ✓ Slickenside trace (270, 20)		
								55 ~ 62, fault (090, 32; 000, 18) ✓		
								66 ~ 80 ↘ multiple, parallel faults, at least 2 faults normal core face (090, 49; —) fault 84 ~ 87, fault (090, 42; 000, 45) ✓ trace = (090, 25)		
								87 ~ 93, fault, (090, 60; 180, 27) ✓ striation trace (090, 2)		
								92 ~ 96, fault, (090, 41; 180, 15) ✓ trace (090, 30)		
								100 ~ 106, fault, (090, 46; 180, 0) ✓ trace (090, 10)		
								108 ~ 110, fault (090, 45; 000, 37) ✓		
								117 ~ 124, parallel normal faults (090, 42; 000, 51) ✓ offset = 7 mm		

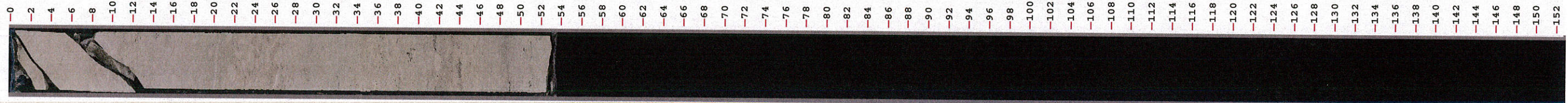
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Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer: J.M.	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								0~4, fault (090, 36; 000, 6) ✓ rake (090, 10)		
								6~12, fault (090, 49; 180, 5) ✓ rake (290, 14)		

CM Scale







Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
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								Comments/Sketches		

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2-7, stratified fault (090, 37; 180, 42) ✓  
 rake 7° toward 270

9-14, stratified fault (270, 42; 180, 46) ✓  
 rake 46° toward 090

60N, bedding (090, 0; 000, 0) ✓

note, offset on marking rel. to archive?  
 (72, 75)

77-78, stratified fault (270, 6; 180, 36) ✓  
 rake 86° towards 090

108-109, stratified fault (270, 14; 180, 50) ✓  
 rake 72° toward 090



Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								13-17, striated fault (090, 40; 100 55) ✓ rake 45° toward 270		
								41-46, striated fault (270, 40; 009 2) ✓ rake 5° toward 090		
								59-66, striated fault (270, 50; 000, 40) ✓ rake 11° toward 270		
								64-70, Debris flow deposit		

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Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								29-33, striated fault (090, 52°; 000, 18°) Take 10° towards 090		
								19-20, bedding (270, 10; 180, 18)		

→ wrong page

CM Scale

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# Expedition 375 - Hikurangi

375-U1520C-5R-5-A | SHLF9445451

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
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89-33, strike fault from previous page  
 (090, 52; 000, 107)  
 rake 10° towards 090



Expedition 375 - Hikurangi

375-U1520C-6R-1-A | SHLF9445651

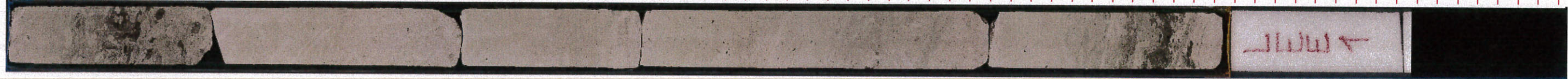
CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
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← bisect

Homogeneous, coherent  
no structures

bisect

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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152											





CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0											
-2											
-4											
-6											
-8											
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Erosional, Sharp contact

270 4 000 15

2-3

← b

S<sub>0</sub> @ 80

← 5

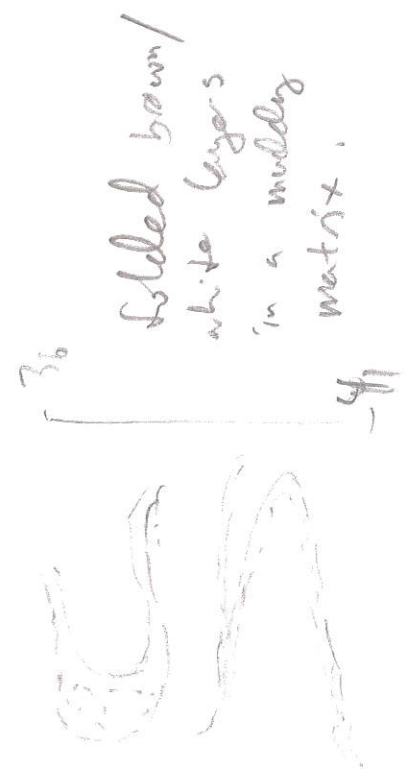
← b



CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0											
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0-4 cm - destroyed



@ 42-44 - small fault w/ slickens  
 Slickenline  $\rightarrow$  090, 11°  
 normal sense of slip

@ 71-73 cm - small fault w/ slickens  
 Slickenline  $\rightarrow$  270, 20°

@ 91-93 cm - small fault w/ slickens  
 Slickenline  $\rightarrow$  270, 74°

111-113 cm - destroyed

Slight brecciating

# Expedition 375 - Hikurangi

375-U1520C-7R-2-A | SHLF9446301

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0											
-2											
-4											
-6											
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42-44  
@ 43 cm small fault w/ slicks  
slicks 090, 55°, in deterrment

@ 62-66 cm - small fault  
Slicks 270, 22°, in deterrment.

@ 90-91 cm - small fault  
slicks - 090, 42°

@ 93-97 cm - small fault  
slicks - 090, 38°, normal

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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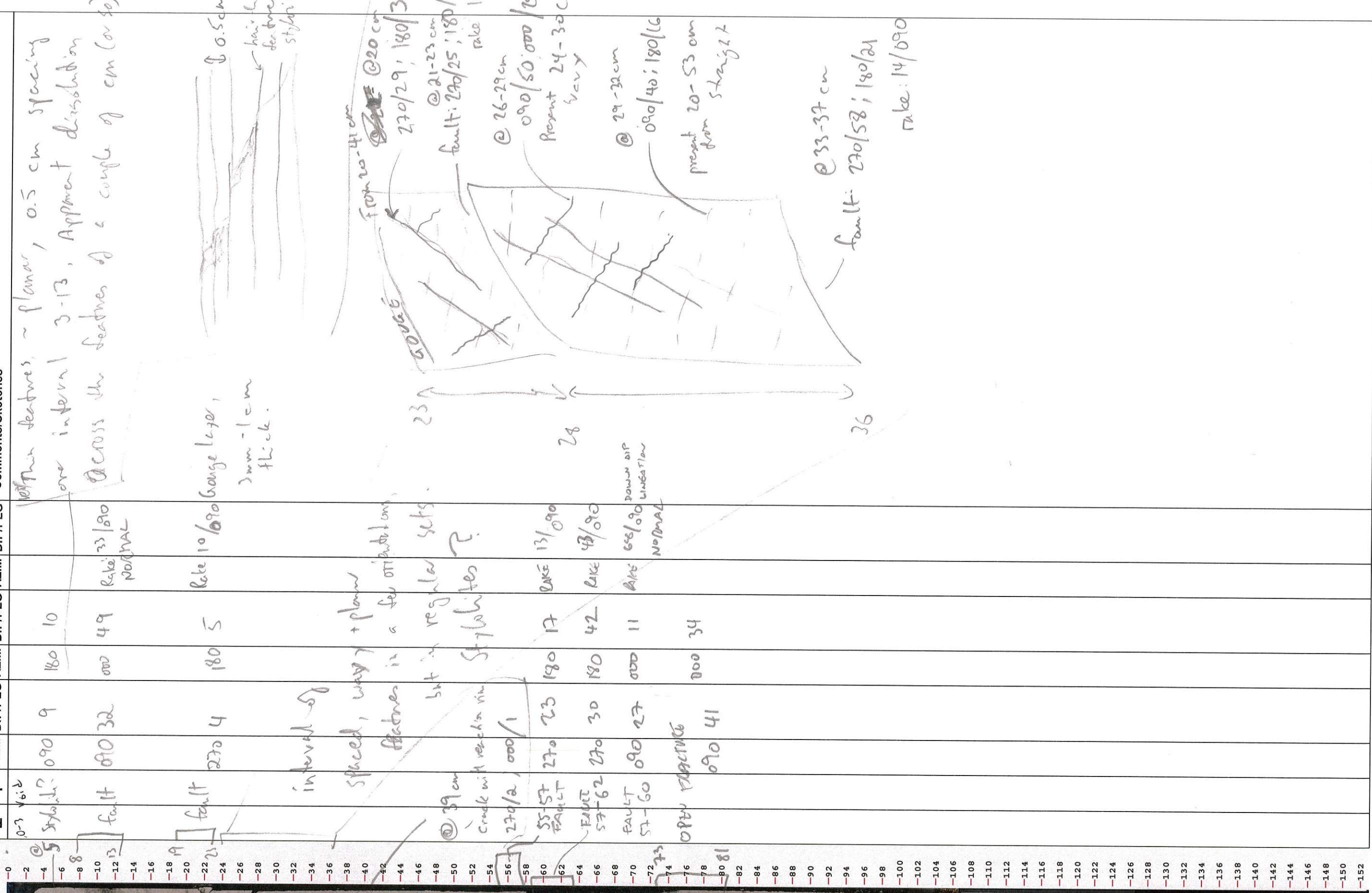
@ 62-64 cm - small fault  
 slicks, 090, 80°, normal  
 @ 69 cm - small fault, slicks, 270, 73°  
 @ 65-70 cm - small fault  
 slicks = 270, 24°  
 @ 74-78 cm - small fault  
 slicks = 090, 6°, normal

DD:  
 9794-locked

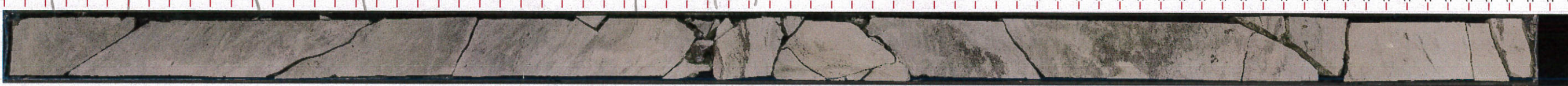
CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0	0-3 void									4SF AF	4/4/18
2	Stylolite		090	9	180	10					
4											
6											
8	fault		090	32	000	49		Rate: 33/090 NORMAL	Other features, ~ planar, 0.5 cm spacing over interval 3-13. Apparent dissolution across the features of a couple of cm (or so).		
10											
12											
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16											
18											
20	fault		270	4	180	5		Rate 10/090	Grange layer, 3mm-1cm thick.		
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60											
62	55-57 FAULT		270	23	180	17		Rate 13/090			
64	FAULT 57-62		270	30	180	42		Rate 43/090			
66											
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CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0											
2											
4											
6	5-12 FAULT		270	55	180	10		RAKE 6/810		HS+AF	4/4/18
8											
10											
12											
14											
16											
18											
20											
22											
24	25										
26											
28	FAULT		270	63	180	15		RAKE 3/090	approx down-dip lineation		
30											
32											
34	35										
36											
38											
40											
42	42		270	25	000	3					
44	45										
46											
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52	53										
54			270	38	000	10		RAKE 15/270	NORMAL		
56	58										
58											
60											
62	61		090	55	180	16		RAKE 5/270			
64											
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68	68										
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72	72										
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80											
82											
84	81		090	45	000	19		RAKE 17/090	Fault with thin fault rock layer that is 2mm thick.		
86											
88	89										
90											
92											
94											
96	96		090	24	000	28		RAKE 19/090			
98											
100	100										
102											
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114											
116											
118											
120	120										
122	121		270	13	000	19		RAKE 10/090			
124											
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128	120		090	54	000	29					
130	131										
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CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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18	fault		090	28	180	12					
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RAKE  
18/270

BEUDINS

20 180 7

RAKE  
10/90  
NORMAL  
(PROBABLY)

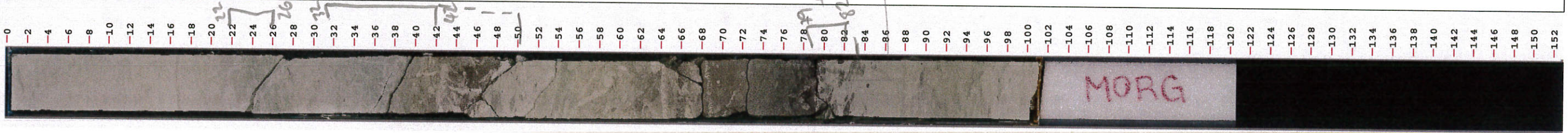
zone of  $\geq 4$  parallel faults

3 more faults  
an above

RAKE  
17/090

3 faults:  
270 50 180 13

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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FAULT 270 33 180 26  
 63/090  
 21/90  
 270 24 180 22

RAKE 32/20  
 NORMAL  
 Has a thin gouge layer

few minor normal faults 90-93

MORG



CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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sharp bedding contact

No <sup>6th</sup> structure of waste.

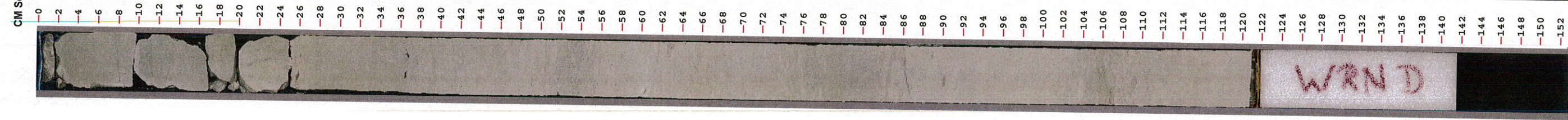
@ S<sub>0</sub> 90 4 180 3  
23



# Expedition 375 - Hikurangi

375-U1520C-9R-1-A | SHLF9447761

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer: <i>J.M. m.w</i>	Date: <i>5/6/2008</i>
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
									<i>No Structures</i>	
									<i>bioturbated mudstone</i>	



CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer: M.W	Date: 5/4
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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CM Scale

20-21, bedding (090, 9; 000, 1) ✓  
 21-25, dark lines  
 30-51, dark seams, sub-horizontal  
 1 mm thick or less, nrt fractures  
 40-41, (270, 6; )  
 45-47, (090, 13; )



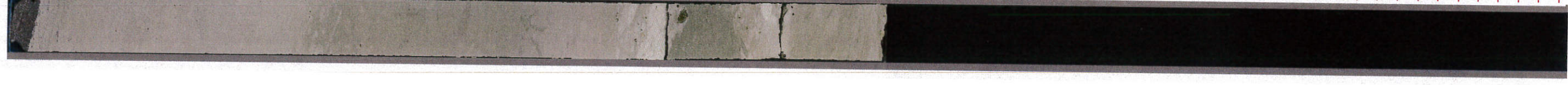
CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0											
2											
4											
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No Structures

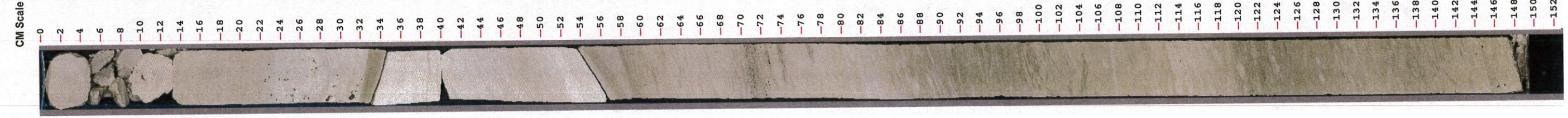
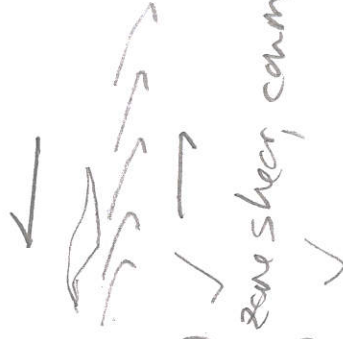
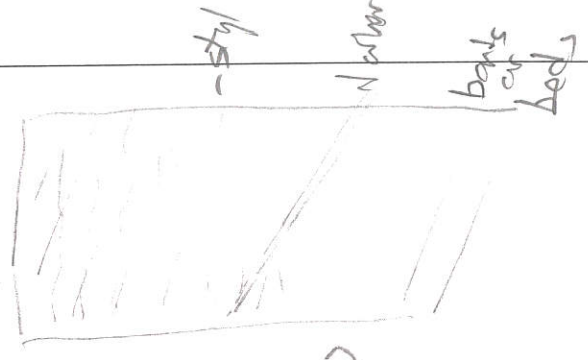
Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								2-3, (270, 13; wuv, 6) ✓ bedding		
								debris deposits sort clast		
								61~76, 64: plane surface (090, 2; wuv, 6) ✓		

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Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								Comments/Sketches		
								<p>- Flattened, elongate "clasts" thru out                      - some asymmetric features                      → probably pre- or syn compaction...</p> <p>15-33, debris deposit, scattered clasts                      - interbedded                      31-32, bedding (270, 12; 000, 9) ✓                      → low dips ~ 10-15</p> <p>34-58, light colored "banded" sediments w/                      oblique "stylolitic" fabric, sub horiz.                      - bands (090, 18; 000, 8) ✓                      - stylolites (090, 0; no reliable 2nd plane)</p> <p>51 ~ 53, (090, 27; 000, 2)                      rake 10 → 270                      new low angle surface                      that centres ponds to "band"                      (broke after culling)                      - note linear surface but                      not polished slickenlines,                      instead rough</p> <p>106, asymmetric "clast"                      107, asymmetric biotite                      (090, 9; 000, 12) ✓                      110, fine band, possible zone shear, comminution,                      (270, 3; 000, 17) ✓</p>		



Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								0-4, thin debris deposit		
								14, shearband?		
								49, fractn, prob. drilling striated		
								67-69, fault (270, 10; 180, 32) ✓ rake 72° toward 090.		
								83-87, striated fault (090, 31; 000, 68) rake 69, toward 090 (almost ⊥ to core axis) -stepped straddlers imply HW down, i.e., normal fault		
								113, shear surface above fine debris zone		

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WRND



Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								8-10, shear plane? thin bed or "band" above thin sandy layer (090, 21; 180, 19) ✓		
								21-27, shear plane (090, 55; 000, 22) / normal offset ~ 1 cm ✓		
								46-47, shear plane (090, 15; 000, 5) mod confidence ✓		
								48-52, shear plane (090, 37; 000, 18) mod conf - normal offset, ~ 1.2 cm ✓		
								71-73, shear plane (090, 29; 000, 10) ✓		

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WRND

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Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								12-13, bedding or shear plane (on sandy debris) (090, 7; 180, 10)		
								118-125, stratified fault (090, 47; 180, 33) rake 10° toward 270		

# Expedition 375 - Hikurangi

375-U1520C-10R-5-A | SHLF9448961

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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*No clear structures*

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CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
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17-18, (shear) band (090, 14; 180, 5) low card.

79-87, inclined bioturb.

105-108, flattened bioturb. marks

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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✓  
 53 ~ 62, fault (270, 63; 000, 35) > low confi. clence  
 bidurbation appear to across fault

possible shear band (270, 7; —)

132 ~ 141, fault (270, 59; —)

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								31-32, bedding, (270, 14; 000, 20) ✓		
								69-70, bedding, (090, 0; 180, 2) ✓		

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CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
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104~105, bedding (090, 11; 180, 8) ✓







# Expedition 375 - Hikurangi

375-U1520C-11R-7-A | SHLF9449801

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
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# Expedition 375 - Hikurangi

375-U1520C-12R-1-A | SHLF9450571

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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 M.R. - 152

# Expedition 375 - Hikurangi

375-U1520C-12R-2-A | SHLF9450601

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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fault

be 2

sharp

@ 4-9 cm: fault, slicks = 270, 110

DD - extension  
0-23 - fractured  
↳ slight

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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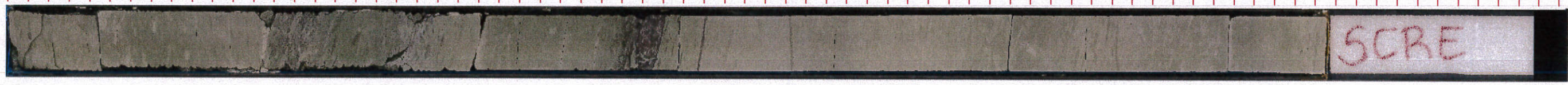
AD<sup>o</sup>  
 extension  
 mod. rock

Expedition 375 - Hikurangi

375-U1520C-12R-4-A | SHLF9450661

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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26	bed		270	7	000	8					
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62											
64	bed		270	7	180	5					
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152											

PD: *exposed*  
*5.0 m*  
*10.0 m*





Expedition 375 - Hikurangi

375-U1520C-12R-5-A | SHLF9450691

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0											
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6											
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150											
152											

@ 114 cm → open fracture

270 12 900 3

TD expansion  
m

Expedition 375 - Hikurangi

375-U1520C-12R-6-A | SHLF9450721

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0											
-2											
-4											
-6											
-8											
-10											
-12											
-14											
-16											
-18											
-20											
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-150											
-152											

DD: mild expansion

- bed 090 Z 000 Z



Expedition 375 - Hikurangi

375-U1520C-13R-1-A | SHLF9451261

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
-0											
-2											
-4											
-6											
-8											
-10											
-12											
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-150											
-152											

108-113 - fault -> slicks  
 indeter.  
 offset greater  
 than core exposure

270 56 180 17

142-145 - fault -> slicks  
 090, 68

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0											
-2											
-4											
-6											
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-10											
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-152											

fault

@ 5-9 cm, fault → slicks, 090, 180, normal

DD: expansion cracks  
Slight

Expedition 375 - Hikurangi

375-U1520C-13R-3-A | SHLF9451321

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0											
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TD  
Precision  
Sketches

090 8 180 4

bed

H W

Expedition 375 - Hikurangi

375-U1520C-13R-4-A | SHLF9451351

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
-0											
-2											
-4											
-6											
-8											
-10											
-12											
-14											
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Thin bed

090 45 000 26

bed

270 2 000 11

sharp

TD: slight  
exposure  
cracks

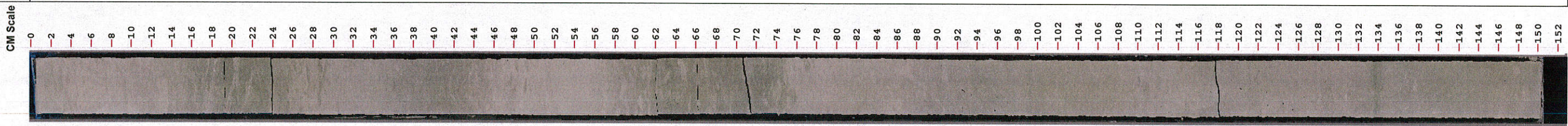
INAR

515

# Expedition 375 - Hikurangi

## 375-U1520C-13R-5-A | SHLF9451381

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
									HS+AF	4/5/18



DD: [unclear]  
Slight  
Expansion



Expedition 375 - Hikurangi

375-U1520C-13R-6-A | SHLF9451411

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0											
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open fracture

DD's slip extension

090 23 140 2

11m

# Expedition 375 - Hikurangi

375-U1520C-13R-7-A | SHLF9451441

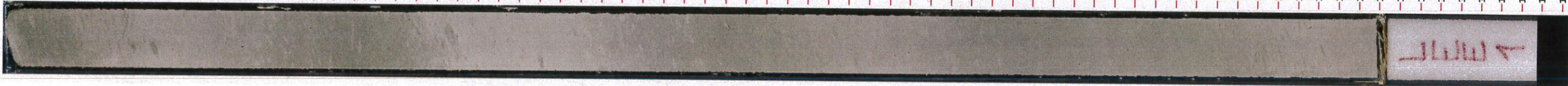
CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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32											
34	bed		110	10	180	13					
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irreg

DD: expansion

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0										AF & HS	5/4-18
2											
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Big + w bated,  
 coherent,  
 no structure to  
 record.



Expedition 375 - Hikurangi

375-U1520C-14R-2-A | SHLF9451851

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
-0										HS & AF	5/4
-2											
-4											
-6											
-8											
-10											
-12											
-14											
-16											
-18											
-20											
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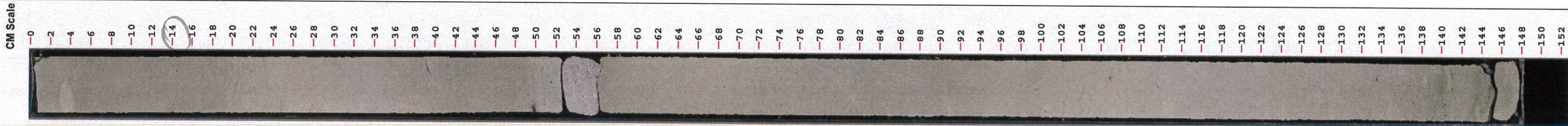
71 @ 180 9 4  
 Irregular, discontinuous tephra layer

# Expedition 375 - Hikurangi

375-U1520C-14R-3-A | SHLF9451881

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0											
2											
4											
6											
8											
10											
12											
14	50		090	8	000	11					
16	14										
18											
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152											

Sharp bedding, appears representative for the section.

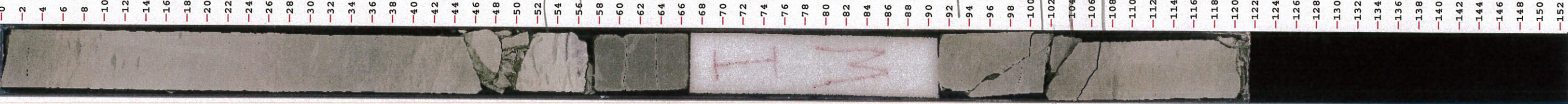


Expedition 375 - Hikurangi

375-U1520C-14R-4-A | SHLF9451911

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0											
2											
4											
6											
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10											
12											
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46											
48											
50											
52	Fault										
54	53		090	12	000	11					Minimum 3cm apparent separation
56	56										
58											
60											
62											
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68											
70											
72											
74											
76											
78											
80											
82											
84											
86											
88											
90											
92											
94											
96											
98											
100											
102											
104	104		270	55	072	00					irregular fault surface, may be drilling disturbed but preserves patchy striations; stops against crack in core face.
106	106										
108	107		270	26	180	28					
110											
112											
114											
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150											
152											

CM Scale



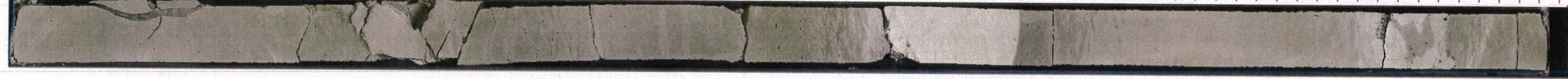
Expedition 375 - Hikurangi

375-U1520C-14R-5-A | SHLF9451941

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
									HS & AF	5/4/14
		090	12	180	5			IRREGULAR BED		
		090	9	180	61		84/ 090			

CM Scale

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So  
55

mult  
56-  
57

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0										HS JAF	5/4/14
2									0-26 Fractured, disturbed		
4											
6											
8											
10											
12											
14											
16											
18											
20											
22											
24											
26											
28											
30	fault		090	13	180	46		74/90			
32											
34											
36											
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40											
42											
44											
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0-26  
Fractured, disturbed

Rubby fault, striation preserved in patches.

11-m note, brief scan shows some similar "stylolite" like features in (carbonate-rich) lithologies, all oriented sub-horizontally. None at high angles to bedding planes - suggests post-depositional features, i.e., post MTD)

Stylolites are typically this orientation, although anastomosing, sub-mm spacing.

But from 100-114 also see a second orientation (more horizontal). Cuts of clasts at 100.





CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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Stylolites at  
 Spacing of  
~~1~~ sub-mm to  
 cm. Amorphous  
 in places.  
 Wavy at sub-mm  
 amplitude, thin (sub-mm)  
 Variable intensity.



AVE 84/90  
 normal

stylolites return  
 270 28 140 10

@ stylolite  
 270 13

28-31 cm  
 over  
 fracture

@ stylolite  
 270 26

Fault  
 64

31

# Expedition 375 - Hikurangi

375-U1520C-15R-1-A | SHLF9452501

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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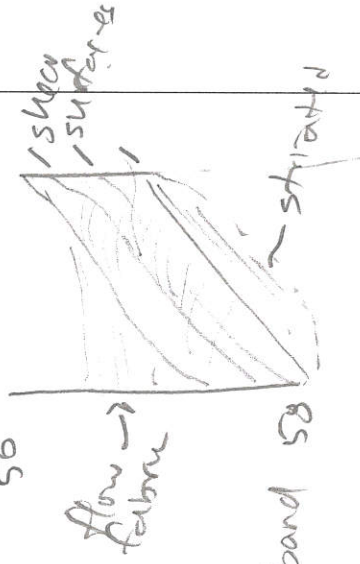
11~18, fault,

23~27, fault

28-34, fault, (270, 47; 180, 26)

Striation (270, 5)

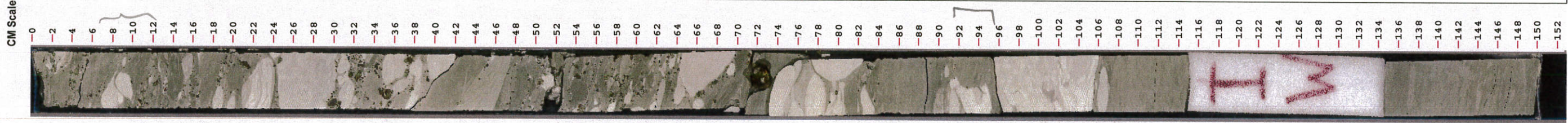
50



50~58, three shear band 58

52~58, fault, (270, 52; 180, 5)  
striation (90, 0)

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer: J.M M.W	Date: 6/4/2018
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								Comments/Sketches		
								thin dark 6~10, fault (090, 43);  Planar contact 38~42, fracture 42~45, Planar contact (270, 13; 345, 0) - underlying material shows surface parallel flow bands  homogeneous green color		
								sheared clast 92-96, folded clast 97-107, elongate clasts in sed flow		



Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer: J. M M.W.	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			

30, bedding, (090, 10; 000, 4)

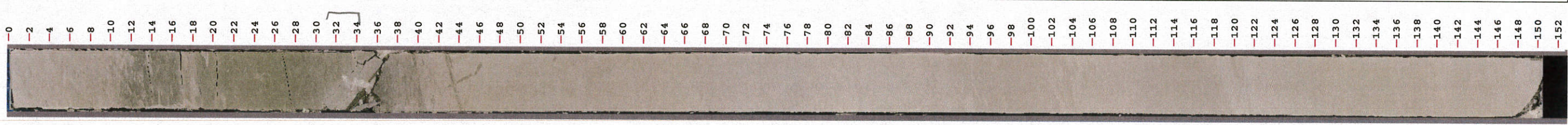
107~112, fault (270, 50; 000, 22)  
- finite thickness ~ 1mm or less, variable

CM Scale



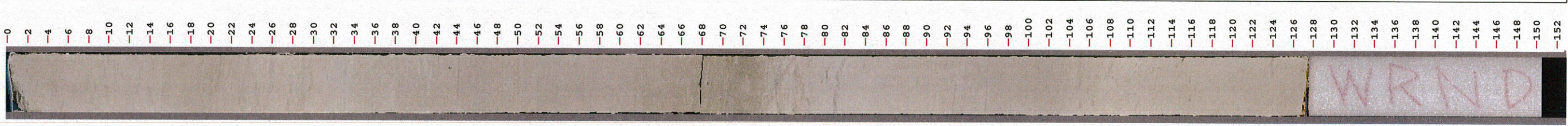
MORG

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer: J.M M.W	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			



31~34, fault(270, 36; 180, 20)  
rake ( 28 → 270 )

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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irregular  
clast dikes

~~18~28, (270, 70; 180, 70)  
20~23,  
25~27, (090, 79; 300, 0)~~

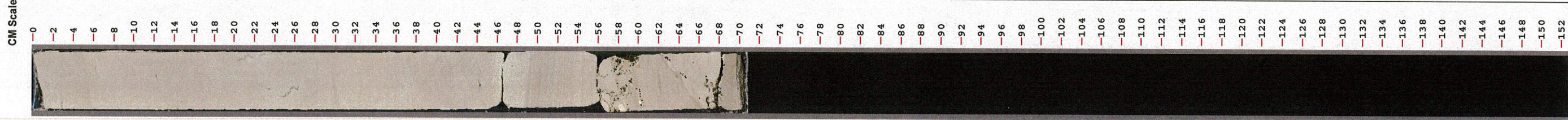
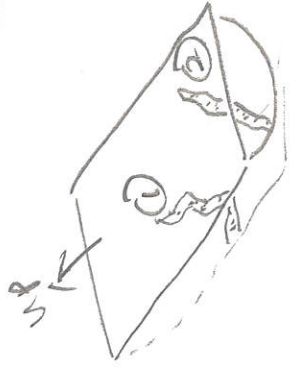
48~56, bedding, (270, 4; 180, 5)

20, planar dark band (bedding parallel, or shear)  
(270, 4; 180, 20)

44, planar bioturbation  
(270, 0; 180, 24)

96, planar dark band (bed parallel or shear)  
(270, 2; 180, 16)

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								18-28, irregular clastic dikes ① 20-30 cm, (270, 70; 180, 70) ② 25-27 cm (090, 79; 300, 50) ↗ requires saw cut to see 2nd 48-56, bedding (270, 4; 180, 5)		







CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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28									726-27, bedding (090, 18; 000, 28) ✓		
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60-65, "recumbent" fold

116-120, stratified fault (270, 16; 000, 54) ✓  
 rake 42° toward 270

130-134, stratified fault (270, 49; 000, 21) ✓  
 rake 10° toward 270

fault

Expedition 375 - Hikurangi

375-U1520C-16R-2-A | SHLF9453501

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
Comments/Sketches										

CM Scale

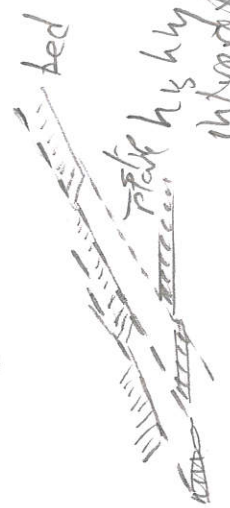
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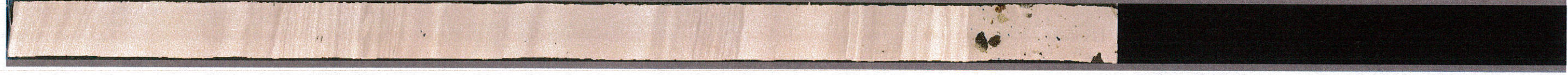
119-133, 'recumbent' fold

139-141 sealed fault (090, 64; 270, 11)  
offset normal, ~ 0.8 cm

WRND

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0									0-38, fine bedding denuded by dune layers - show minor extension of beds along normal slip planes - extending beds eg, 27, offset beds		
2											
4									- appears to be primary sedimentary structure		
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CM Scale



- appears to be primary sedimentary structure

0-38, fine bedding denuded by dune layers  
- show minor extension of beds along normal slip planes - extending beds eg, 27, offset beds

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
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- 124, bedding parallel plane, may be shear zone?  
(090, 3; 00017)



Handwritten notes in red ink at the bottom of the ruler, possibly indicating a specific measurement or location.







Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer: <i>M.W.</i>	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			

CM Scale

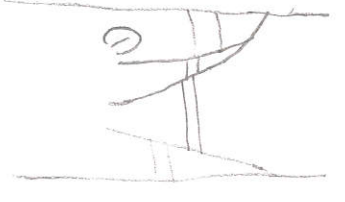
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fault...

No structures

82-89, a set of normal faults  
① (0870, 7i (80, 2p)







CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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No structures??

57-59, planar surface (270, 10; 000, 0)

122, lith boundary = bedding?  
(090, 7; 100, 10)



# Expedition 375 - Hikurangi


375-U1520C-18R-2-A | SHLF9454891


CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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Structure w/out stratifications, drilling?  
(270, 1; 100, 45) ✓

85-95, contorted beds in debris deposit  
100-104, finely laminated flow bands

Flow   
110, finely laminated cobg bending, w/ clargate  
"augen" all cross-cut by rip-up clasts

115, asymmetric clast  
and flow fabric  
w "augen" 

138, bedding (090, 2; 100, 9) ✓

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								22-45, near vertical brown feature, we interpret as filled fracture recrystallized - difficult to trace		
								28, elliptical donut feature, white w/ brown core - very flattened compare to others		
								61-77, sub-vertical brown "fractures" recrystallized. - fine white (chalky) precip. along the surface, very irregular (note, similar material elsewhere too)		

CM Scale

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WRND



Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								Comments/Sketches		
								<p>0-13, basalt of coffee brown biturbated - cherty clast w/ biturbata</p> <p>19-37, basalt of same, tapered at base</p> <p>38-121, highly fractured &amp; brecciated zone, clay deposition differs - fractures mostly subvertical - drilling enhanced? (no obvious striations, few offset features)</p>		

CM Scale

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# Expedition 375 - Hikurangi

375-U1520C-18R-6-A | SHLF9455011

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								0-21, non vertical fractures		
								26-32, fractures in cement piece with white precipitate, - might be drilling induced or enhanced (azimuth ~000)		

CM Scale



0-21, non vertical fractures

26-32, fractures in cement piece with white precipitate, - might be drilling induced or enhanced (azimuth ~000)

# Expedition 375 - Hikurangi

375-U1520C-18R-CC-A |

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0											
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CM Scale



PAL



CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0-20										AS+AF	4/6/18
20-22	seam		270	5	000	5			0-18 - Rubble		
22-24									@20 - black seam, presumably pressure solution, form a set from 18-28 cm, 2 cm spacing		
24-26											
26-28											
28-30											
30-32											
32-34											
34-36											
36-38											
38-40											
40-42											
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54-56											
56-58											
58-60											
60-62											
62-64											
64-66											
66-68	seam		270	18	000	13			66-78 cm - black seam, fine as above		
68-70									seam occurs at from 57-69, 2.3 cm spacing		
70-72											
72-74											
74-76											
76-78											
78-80											
80-82											
82-84											
84-86											
86-88											
88-90											
90-92											
92-94											
94-96											
96-98	seam		270	3	000	10			99-104 cm - finely-spaced, measurements measured @ 97cm		
98-100											
100-102											
102-104	bed		270	14	000	2			@103 cm - bedding, pinched in places		
104-106											
106-108											
108-110											
110-112											
112-114											
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146-148											
148-150											
150-152											



Expedition 375 - Hikurangi

375-U1520C-19R-2-A | SHLF9455461

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0											
2											
4											
6											
8											
10	-bed		090	17	180	10				AF+HS	4/6/18
12											
14											
16											
18											
20											
22											
24											
26											
28	-fault		090	20	180	61					
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CM Scale



SLICKS  
small fault, 270, 52, normal

IKAR S.E.S.

# Expedition 375 - Hikurangi

375-U1520C-19R-3-A | SHLF9455491

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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CM Scale

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- maybe bad, medium confidence

270 5 000 8

-bed

@25-127 - layer of anastomosing veins,  
prob. pres. soln.

810 2 180 12

14m

large clast w/ folded white laminae

# Expedition 375 - Hikurangi

375-U1520C-19R-CC-A |

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
-0											
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CM Scale



PAL

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
-0											
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69

General trend of seams:  
090 Z 180 I

89-89 - Zone of vert

fine, anastomosing black seams

89

116

zone of flat-lying black seams

120

MORG

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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CM Scale



DD

0-72

moderately fractured / brecciated.

44  
63

zone of density development  
fine, 6mm spacing,  
alternating black seams,  
subhorizontal.  
70 2 180 3

81  
88

zone of alternating  
black seams.

98  
98

70 6 000 5

Sharp bedding

SAFF

CM Scale		Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer: HS & AF	Date: 6/4
0	-2			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
-4	-6											
-8	-10											
-12	-14											
-16	-18											
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748 Persistent black sands  
 53 @ 270 3 000 3

61  
 zone of anastomosing  
 black seams, subhorizontal

76  
 8687 Anastomosing  
 seams

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary	Observer: HS & AF	Date: 6/4
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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13  
 (15)  
 12  
 26  
 31

Fine consistency seams  
 seen in zones throughout  
 core 20 - stylolitic?  
 fabric?

40- clear stylolites (?) displaced  
 42 1.1cm by an apparent normal fault.

45-51 normal fault  
 52-54

Normal fault, apparent separation  
 of 1.1 - 1.2 cm.  
 Irregular surface.

52-66, normal fault  
 3mm apparent separation

but this varies in magnitude  
 all direction, within ductural  
 interval from 58-66.

Spacing is irregular but  
 in the range 2mm - 2cm.  
 Orientations typically  
 subvertical. Open ductures,  
 so generally dense but some  
 shear displacement.



Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
Comments/Sketches										

CM Scale

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CM Scale

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Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								(DD) Fall in  DISTURBATION,  NO STRUCTURES OBSERVED		
								129-157 Biscuiting / sediment flow		

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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090 17 000 7

128-150  
Biscuiting, faulting.

DD

99

# Expedition 375 - Hikurangi

375-U1520C-21R-CC-A |

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
Comments/Sketches										

CM Scale

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Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
									HS+AX	4/6/18
								<p>@2-26cm - fractured interval, two long, healed fractures (no fault)</p> <p>offset = 2 mm, normal</p> <p>fault [090, 79] [000, 55]</p> <p>fracture [090, 85] [60, 0]</p> <p>fault</p> <p>consolidating fracture</p> <p>26</p> <p>bioturbation</p>		

CM Scale

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Expedition 375 - Hikurangi

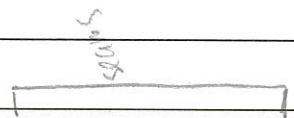
375-U1520C-22R-2-A | SHLF9457241


CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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144											
146											
148											
150											
152											

@25-40 cm, black seams, prob stylolites

@142-146 cm: black seams, prob stylolites,

NO slight extension



Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
		090	45	180	44			@ 5-13 cm i Fault -> Striations 090, 30°	AF+HS	4/10/18
		090	Z	000	G			69-73 beautiful overturned fold sln beds		
								@ 72-89 cm Set of 15 m. thrust faults, 1 cm spacing largest one 80-89 cm, 2 mm disp, 1 mm thick [090, 55] [000, 42]		

CM Scale

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CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0	Fault		090	55	000	67			small thrust fault, offset = 3mm	AF+HS	4/6/18
2											
4	Fault								@ 14-17m - set of small normal faults, 2mm apparent offset	AF+HS	4/6/18
6											
8	Seams		090	4	150	3			@ 21-34cm - black seams, prob stylolites, up to 2mm amplitude	AF+HS	4/6/18
10											
12	Seams								@ 48-75cm - black seams, prob stylolites	AF+HS	4/6/18
14											
16	Fracture								@ 70-92cm - healed fracture	AF+HS	4/6/18
18											
20	Fracture									AF+HS	4/6/18
22											
24	Fracture									AF+HS	4/6/18
26											
28	Fracture									AF+HS	4/6/18
30											
32	Fracture									AF+HS	4/6/18
34											
36	Fracture									AF+HS	4/6/18
38											
40	Fracture									AF+HS	4/6/18
42											
44	Fracture									AF+HS	4/6/18
46											
48	Fracture									AF+HS	4/6/18
50											
52	Fracture									AF+HS	4/6/18
54											
56	Fracture									AF+HS	4/6/18
58											
60	Fracture									AF+HS	4/6/18
62											
64	Fracture									AF+HS	4/6/18
66											
68	Fracture									AF+HS	4/6/18
70											
72	Fracture									AF+HS	4/6/18
74											
76	Fracture									AF+HS	4/6/18
78											
80	Fracture									AF+HS	4/6/18
82											
84	Fracture									AF+HS	4/6/18
86											
88	Fracture									AF+HS	4/6/18
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92	Fracture									AF+HS	4/6/18
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96	Fracture									AF+HS	4/6/18
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136	Fracture									AF+HS	4/6/18
138											
140	Fracture									AF+HS	4/6/18
142											
144	Fracture									AF+HS	4/6/18
146											
148	Fracture									AF+HS	4/6/18
150											
152	Fracture									AF+HS	4/6/18

SCORE



CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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22											
24	] fault		060	17	180	47			15~24, two fractures ① (270, 5; 331, 0) ② (090, 28; 345, 0)		4/6/18
26									@24-26 - small fault, indeterm. slicks 090, 56		
28											
30											
32											
34											
36											
38											
40											
42											
44	] fault		090	33	180	40			② @29-45 - large headed fracture		
46											
48											
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58											
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15~24, two fractures  
 ① (270, 5; 331, 0)  
 ② (090, 28; 345, 0)

@24-26 - small fault, indeterm.  
 slicks 090, 56

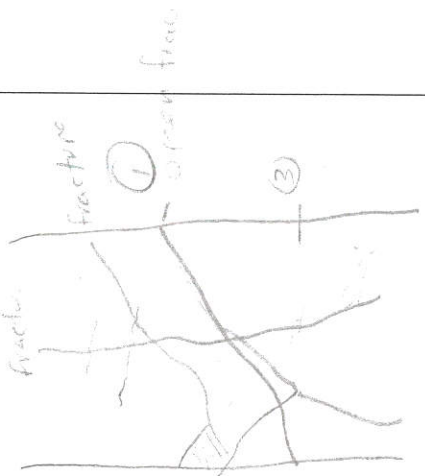
② @29-45 - large headed fracture

@39-45 - mix of headed 39 fractures + stylolites, some sty cross frac, others abut, mixed brittle fault behavior

③ @43 - stylolites 45  
 090, 12; 090, 15

@85-93 com  
 cross-striking, stylolites

DD: 46-55 com frac



90m

SAFEOM

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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10			090	37	180	35					
12			090	2	000	1					
14			090	11	180	1					
16											
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26											
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32											
34											
36											
38											
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42											
44											
46			090	70	180	65					
48											
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@ 5.11 cm: filled, irregular fracture.  
 @ 12 cm: bed, sharp  
 @ 15-20 cm: stylolites  
 ↳ there are two orientations. One is an incipient S-C fracture

Cataclastic not clastic injection  
 @ 54-62 cm: poss. cleastic dyke, somewhat braided appearance, branches off @ ~ 4/6 cm  
 45~48, cataclastic dyke (090, 20|025, 0) ↙

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer: J.M M.W	Date: 7/4/2018
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								7~10, thin subhorizontal "stylolites" ✓ (270, 10; 180, 5)		
								12~14, inclined seam, "dissolution surf.?" (090, 30; 000, 32) truncates "stylolites" ✓		
								14~38, fracture. (irregular)		
								31~36, fracture, (090, 55; 180, 1) ✓		
								24~27, thin "stylolites"		
								43~47, ↑ (090, 39; 180, 27) ✓ fracture		
								filled fracture, (090, 30; 180, 20) ✓		38
								89-91, fault (thrust?), (090, 25; -)		
								114~116, anastomosing, stylolite. ✓ (090, 2; 000, 2)		

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SAFEOM

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								<p>5~8, thin sub horizontal stylolite also xcuts bioturbation</p> <p>176: striated fault (270, 42; 000, 61) ↓ down dip raise</p> <p>two faults fractures fracture: ✓</p> <p>14~18, { open fracture: (270, 40; 000, 8) ✓</p> <p>29, bedding, (270, 1; 000, 11) ✓</p> <p>31~36, thin subhorizontal stylolite</p> <p>35, ↓ (270, 4; 000, 6) ✓</p> <p>76~81, normal fault (090, 44; 180, 55) ✓ offset: 0.5</p> <p>82, bedding, (270, 3; 000, 5)</p>		

CM Scale

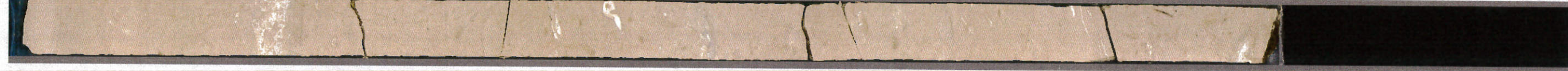
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Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								2-7, normal fault, (090, 70; 180, 44) offset: 0.4 cm ✓		
								3-30, irregular fracture 25-30, (090, 39; 180, 25) ✓		
								38-40, fracture, (090, 68; 180, 30) ✓		
								82-90, fractures, (090, 59; 000, 8) ✓ 84-91, fracture (090, 61; —)		
								106-108, bedding, (090, 17; 000, 12) ✓		
								116-123, normal fault, (090, 52; 180, 30) ✓ offset: 2 mm		

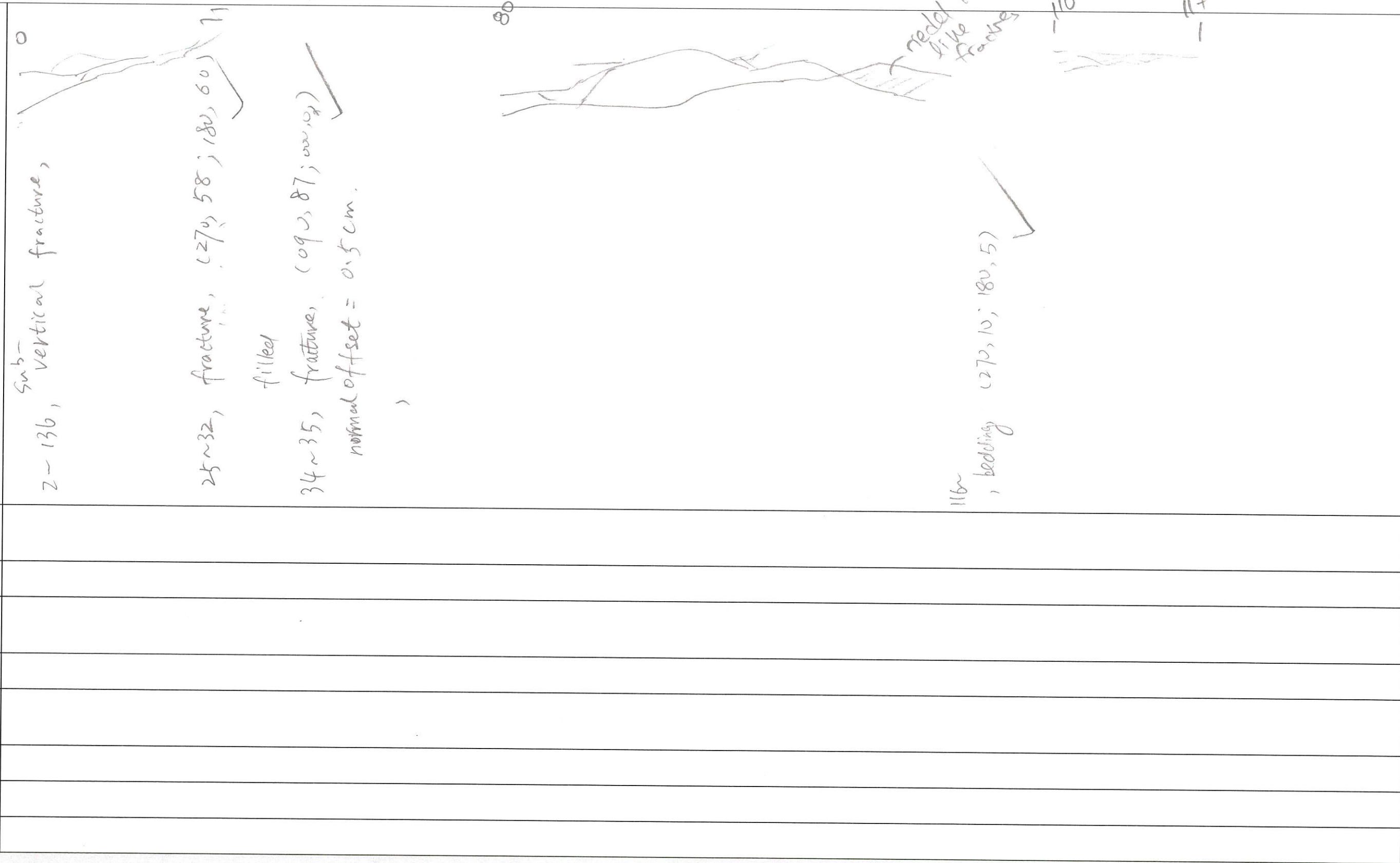
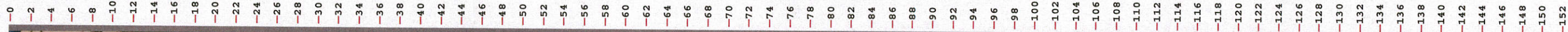
CM Scale

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Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								Sub-vertical fracture, 2-136, 25-32, fracture, (270, 58; 180, 60) ✓ filled 34-35, fracture, (090, 87; 000, 0) ✓ normal offset = 0.5 cm.		
								116 bedding (270, 10; 180, 5) ✓ normal log like fracture		

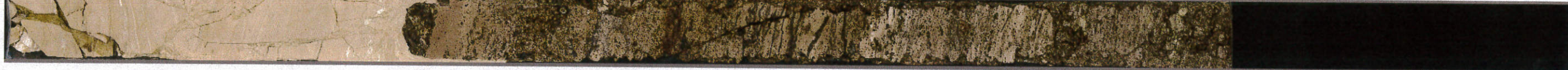
CM Scale



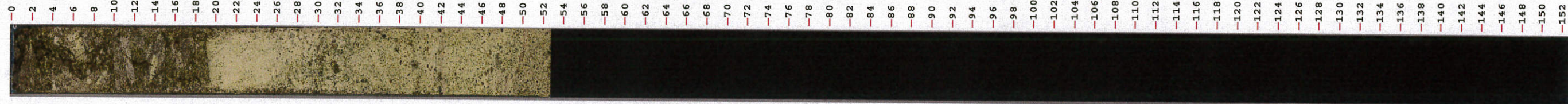
Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								0~38, vertical fractures, drilling enhanced filled fracture, 10~11, thin stylolite, (090, 10; -) 6~8, thin seams		
								82, bedding, (270, 4; 180, 5)		

CM Scale

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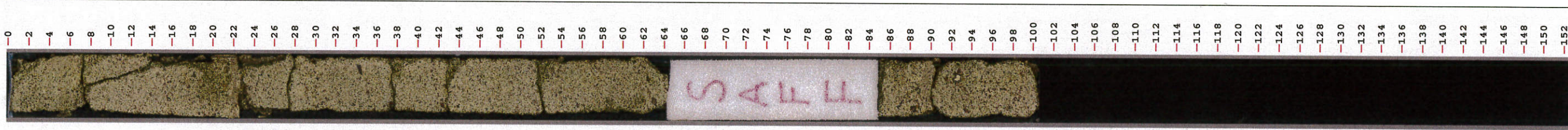
CM Scale



Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
									J.M	
								44		
								49~51, brown bed, (270, 2; →)		
								46~52, normal fault, (270, 44; →)		
								offset = 1.5cm		







Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								90, bedding (brunchy layer) (270, 2; 000, 5)		

*90, bedding (brunchy layer) (270, 2; 000, 5)*



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Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			



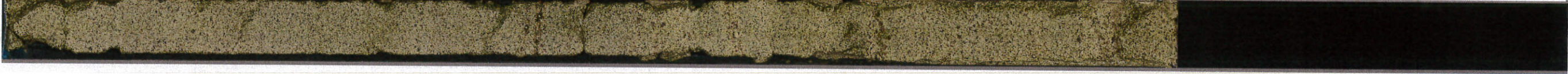
# Expedition 375 - Hikurangi

375-U1520C-24R-4-A | SHLF9459181

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			

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Expedition 375 - Hikurangi

375-U1520C-24R-5-A | SHLF9459211

CM Scale

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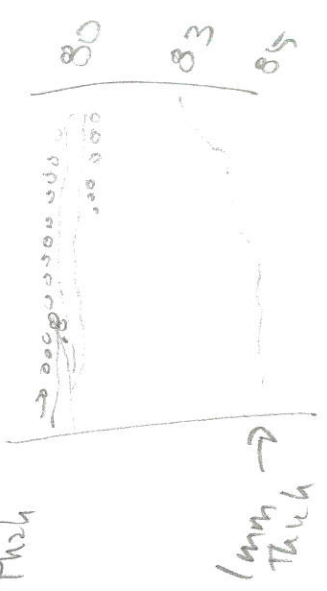


Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			

33-34 bedding (270, 25, 000, 0)



Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								7-8, fracture filling vein, ~2mm thick - irregular geometry, calcite filling 8-9, pure filling vein, calcite } both fizz	J. M M.W	7/4/2018
								22-24, disseminated vein filling material also concentrated along <sup>steepest</sup> boundary - fibrous appearance		
								23-24, yellowish quartz clast surrounded by white disseminated calcite		
								50-53, vein, (270, 30; 000, 0) ✓		
								64-68, vein, (270, 70; 180, 30) ✓		
								63, bedding, (090, 10; 000, 0) ✓		
								79-80, vein, (270, 3; 000, 3) - calcite 0.4mm thick		



F.H.S

CM Scale

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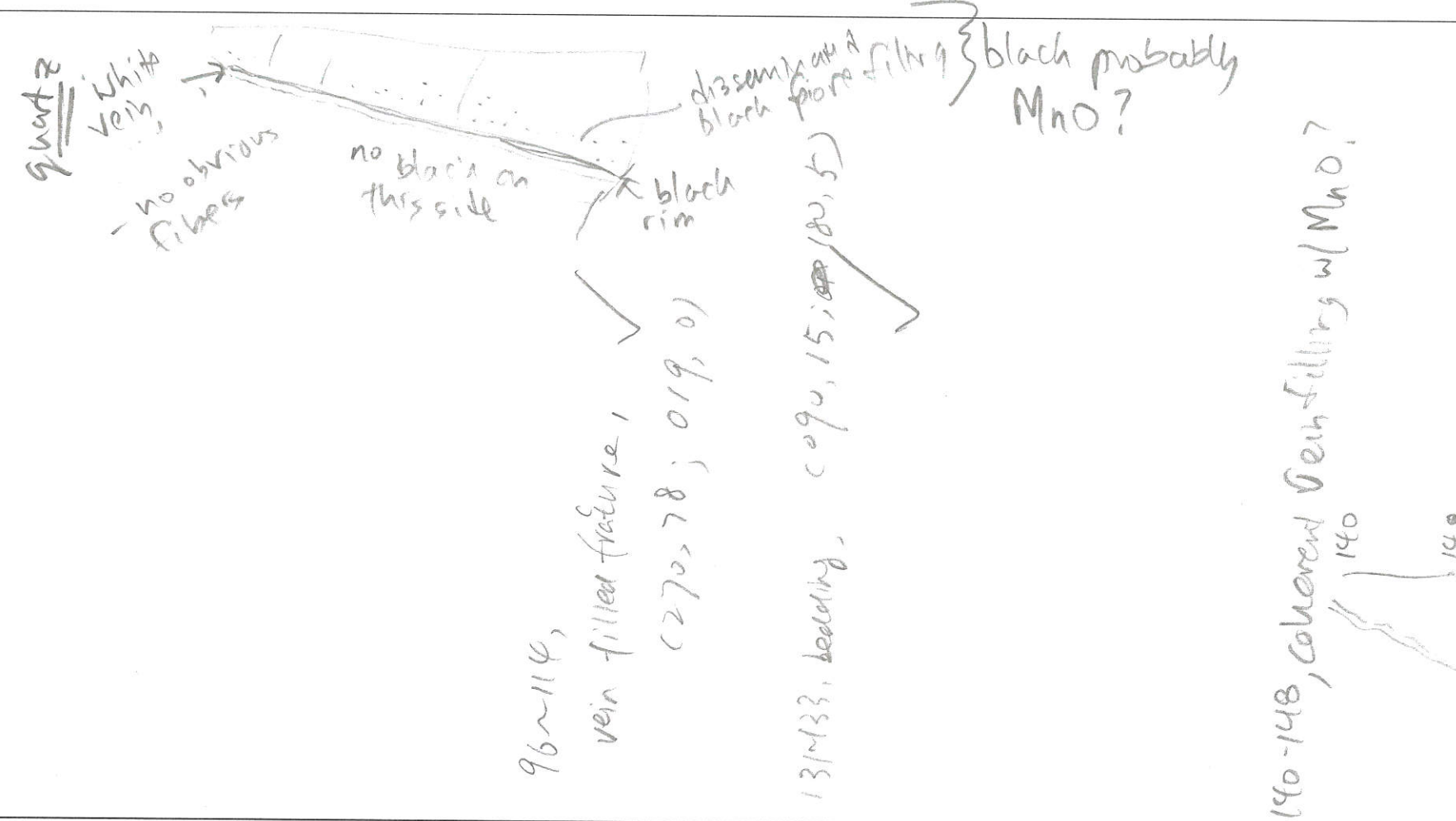
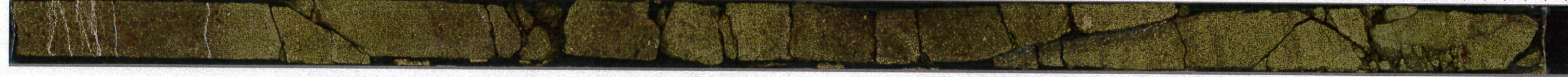




Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary	Observer: J.M m.w	Date: 7/4/2018
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								Comments/Sketches 4-10 - irregular veins & disseminated pore filling 1mm - 3mm thick, massive not fibrous 10, vein, (090, 7; var, 8) (8cm shuns) (wall inclusion) quartz vein, (090, 0; var, 0) (irregular) calcite		
								96~114, vein filled fracture, ✓ (270, 78; 019, 0) 13/133, bedding, (090, 15; var, 5) ✓		
								140-148, coherent vein filling w/ MnO <sub>2</sub> ? 140 148		

CM Scale

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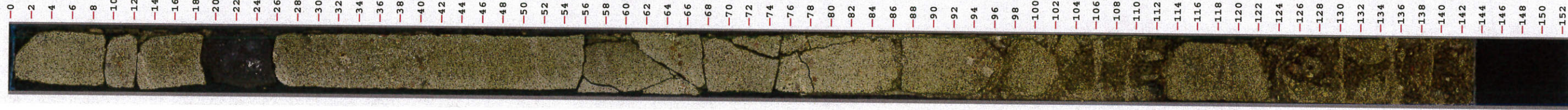


# Expedition 375 - Hikurangi

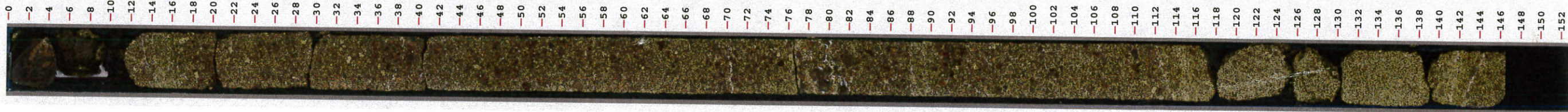
375-U1520C-25R-3-A | SHLF9459981

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
									J.M. M.M.	7/4/2018
								13-14, vein. (090, 15; 000, 2)		
								vein filled fracture, (090, 55; 180, 17)		

CM Scale



CM Scale



Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								15, vein (090, 12; 000, 13) 4 mm thick ✓		
								72-73, vein (090, 5 ; 180, 13), 1 mm ✓		
								80-83, calcite(?) pore filling, MnO rinds on grains		
								114-117, vein (090, 22; 180, 8) < 1 mm ✓		

CM Scale



Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								5-6, bedding (270, 10; 000, 15) ✓		

**Expedition 375 - Hikurangi**

**375-U1520C-26R-3-A | SHLF9461101**

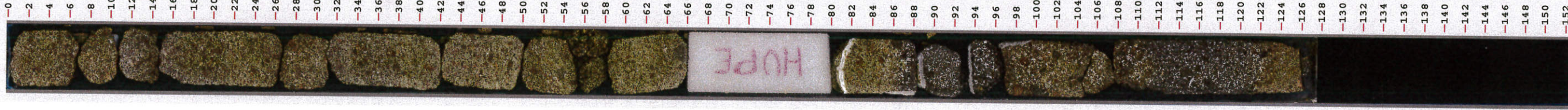
Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			

CM Scale

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CM Scale



Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								87-123, disseminated calcite pore filling		
								83-84, vein (270, 15; 000, 3) 4mm thick ✓ 85-90, vein (270, 6; 353, 0) 3mm thick ✓ 91-92, vein w/ 5mm thickness 95, vein face exposed, > 3mm thick - see xtal faces on surface (quartz?)		
								98-101, vein face exposed		

# Expedition 375 - Hikurangi

375-U1520C-26R-5-A | SHLF9461161

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			

CM Scale



48-50, gradual bedding (090, 14; 180, 23) ✓  
 50-51, vein (090, 18; 180, 14) ✓





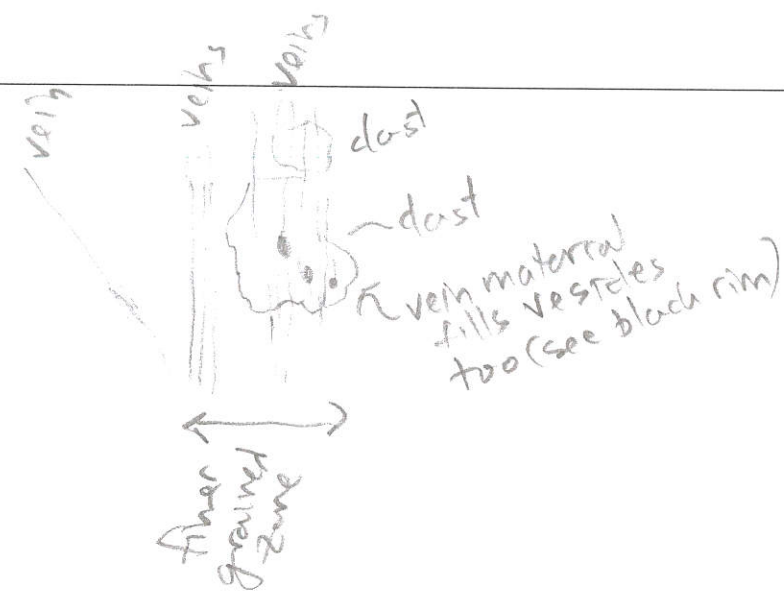
Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
									J.M. M.W.	7/4/2018
								29-30, vein, (090, 7; 000, 20) ✓		
								40, vein, (090, 3; 180, 35) ✓ min thick = 6 mm		
								50-51, vein, (090, 4; 180, 5) ✓ thickness = 3mm		
								79-80, vein, (090, 10; 180, 8) ✓		
								115-122, beautiful splaying vein 115-120 → main splay, (270, 10; 000, 30) ✓ thickness = 8 mm		



CM Scale

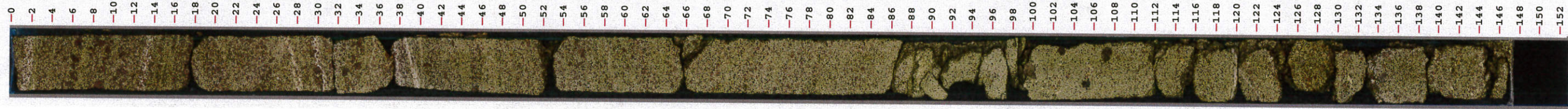


Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								4~5, vein, bedding and thin bedded parallel vein ↓ (270, 8; 000, 10); thickness = 1mm ✓ 11~16, thin vein, (090, 75; 325, 0) ✓		
								49~52, vein, (270, 35; 000, 35) ✓ thickness = 1mm 61~68, vein array, through cists ✓ (090, 9; 000, 8)		
								64, vein, (270, 3; 000, 23) ✓ thickness = 4mm.		
								71~77, irregular vein, (270, 39; 000, 66) ✓		



Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer: J.M	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								13~14, vein, (disseminated) 070, 10; 180, 15) ✓		
								27~28, vein, (090, 14; 180, 19) ✓ 1 mm thickness		
								39~41, vein, (090, 17; 180, 5) ✓		

CM Scale



CM Scale



Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								19, disseminated, 670, 4; ovv, 42) ✓ kein		
								32~34, vein, (090, 0; ovv, 60) ✓ 1mm thick (cross)		

# Expedition 375 - Hikurangi

## 375-U1520C-27R-5-A | SHLF9462581

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			

CM Scale



# Expedition 375 - Hikurangi

375-U1520C-27R-6-A | SHLF9462611

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			

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Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								Comments/Sketches		
								5 ~ 6, olivine grain in clast (basalt)		

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Expedition 375 - Hikurangi

375-U1520C-28R-2-A | SHLF9463411

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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gradational

@ 91-97, vein, irregular, 2 mm thick

vein

Dip signed biscuit

Expedition 375 - Hikurangi

375-U1520C-28R-3-A | SHLF9463441

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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@ 77-78 cm: thick calcite vein  
up to 1cm thick

AD: slip surface +



**Expedition 375 - Hikurangi**

**375-U1520C-28R-4-A | SHLF9463471**

Feature		Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
			290	2	180	3				AFHS	4/7/18
									@ 27cm : open crack		
			270	14	180	7			@ 80-83 - proto-vein, more cemented ↓ than surrounding material but still more grain than cement, 1-1.5 cm		

CM Scale

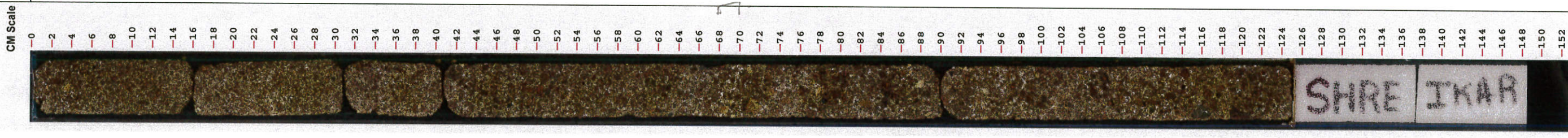
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Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
									AF+AS	4/7/18
		270	9	180	25					

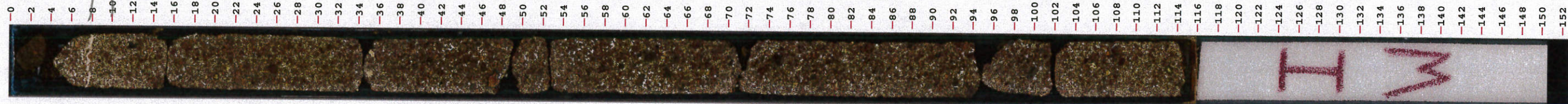
@ 68-70 cm. proto-vein, 2.5 cm thick

DD: slight biscuit





CM Scale



Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
8' ID vein		270	11	000	72			0-7 Fall in	HSA AF	7/4-2018
								Irregular, ≤4mm thick, carbonate vein.		(DD)

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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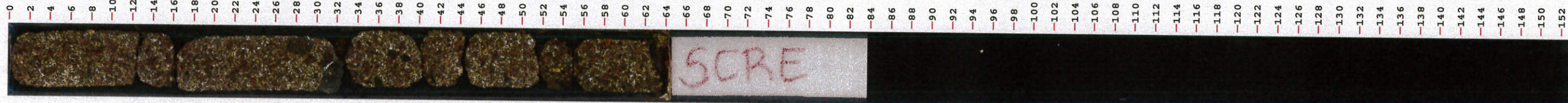
CM Scale



VERY SLIGHT  
DISCUSSING

Continued same  
No can of LA STICKS,  
no structures to  
record

CM Scale



Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
									WS & AF	7/4
SLIGHT BISCUITS. (77)										







CM Scale



Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
									HS & AF	7/4/18
								6-16 - Fsl in - destroyed. 16 → end brecciating slight		
								<p style="text-align: center;">Breccia layer 270 5 000 25</p> <p>→ Melstone breccia, with irregular boundary to the volcaniclastics. Contains mudstone clasts, in a muddy matrix with minor carbonate. Clast size &lt; 1cm.</p> <p>- lobbs like fractured basalt clast (jkm) - and very hard</p>		

47+  
52

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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CM Scale

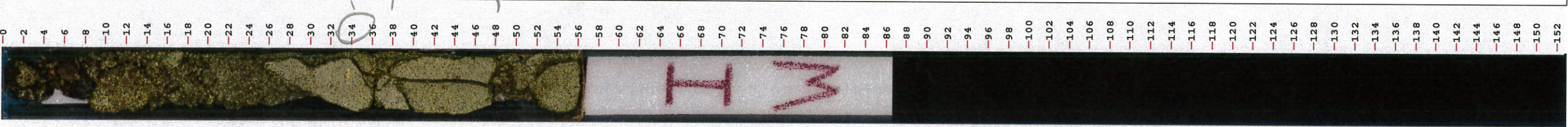


O-1A Fall in

56 - open 270 2 000 40  
- faultve

65  
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86  
discarded

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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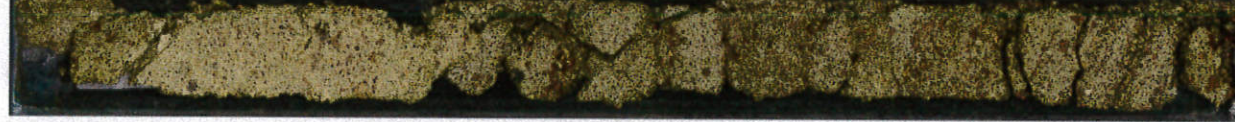
0-10 full in

Very thin, irregular, cuts through clasts -

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
									HS & AF	7/4/18
<p style="text-align: center;">Briccited</p> <p style="text-align: center;">very soft + incohesive.</p> <p style="text-align: center;">No confidence that pre-drilling structures are preserved.</p>										

CM Scale

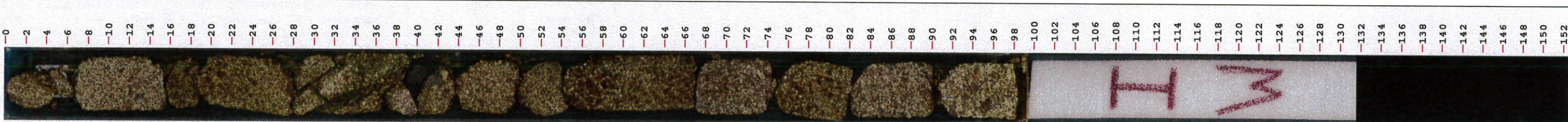
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Expedition 375 - Hikurangi

375-U1520C-33R-1-A | SHLF9466401

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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CENTENTED  
 VOLCANICLASTICS  
 WITH NO DEFINED  
 BEDDING OR  
 SEPARATION  
 STRUCTURES  
  
 DD;  
 Biscuited

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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1 mm thick, waxy, massive

63-70 Prob vein, 2.5 cm thick -

Irregular boundary at the base, more regular at the top.

Separates two different, oxidized (black) cemented volcanic clasts.

Top is the now usual, green, subangular 'conglomerate'. Base has a wider grain size distribution, matrix supported, with subrounded clasts.

Network of v. thin veins, forming a tabular core that cross cuts the cemented volcanic clasts. Probably calcite veins + calcite cement. Network is ~1 cm wide.

DD: Biscuits, slight



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Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
									Hs & AF	7/4/18

29 → end

Brecciated, <sup>where</sup> ~~detrital~~



Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
									HS+AG	4/7/18
		270	80	343	0					
		090	5	180	3					

@44-66 cm: 3mm thick vein, massive, post-dates com. d., cracks tan conglomerate base as an intact rock (e.g. goes thru clasts)

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DDi  
Biscuit d., slight

Expedition 375 - Hikurangi

375-U1520C-34R-2-A | SHLF9466771

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
									AF+AS	4/7/18

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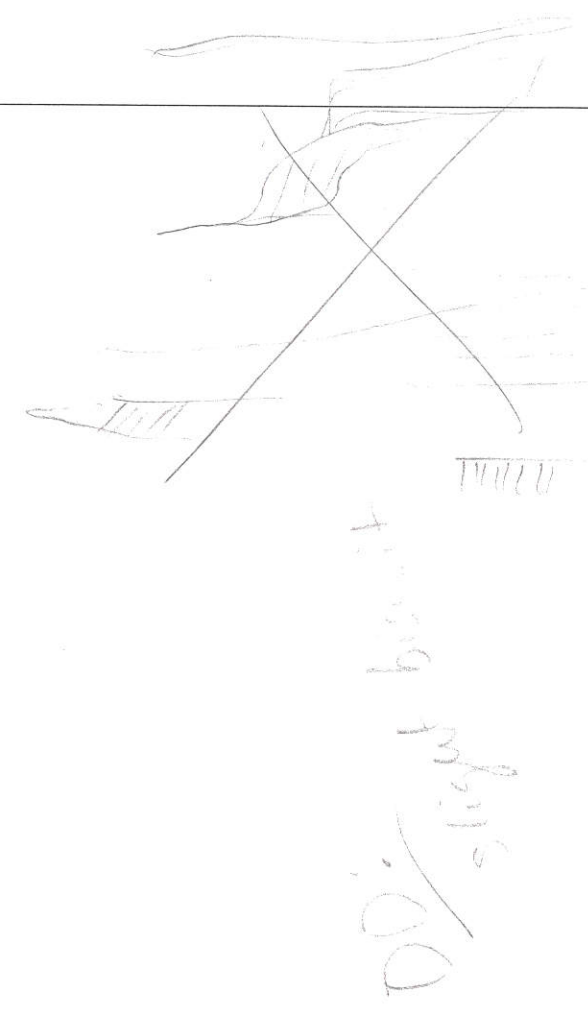
152




@ 32-72 cm - folded beds, bedding becomes spinifexed

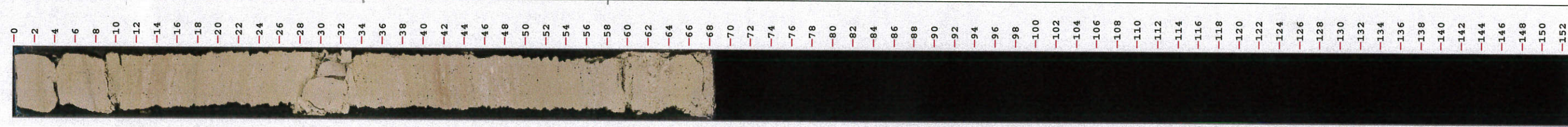
Note, dismembered pink-lithology (calcite) is stretched and aligned with bedding

- see fibers in fragments, and same dissolution
- note pieces aligned w/ beds



CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0									Lots of boundaries w/ calcite fragments - fibers perpendicular to "bedding" mustn't if shell wash or "very wash" 8-9, thicker zone of wash w/ unusual arrangement 15-16, calcite is banded    to bedding occurs throughout section 1-1cm apart 	AF+HS	4/7/18
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DD: Bixbying  
slight



CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
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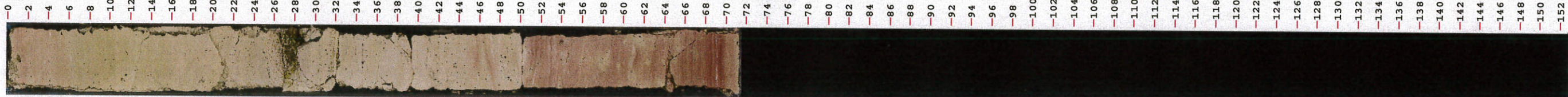


45-47, distinct green sandy layer (olive?)  
 @ 33-43 - zone of green veins  
 measured @ 38 cm, banded beneath =  
 different orientation, diffuse  
 boundaries, up to 2mm thick, wavy,  
 1-2 cm spacing

@ 57-59 cm - folded vein  
 - note "hast" like appearance,  
 but fibrous + to planar surface  
 ↳ w planar bands

DD: biscuitous, slightly  
 core expansion, slight

CM Scale



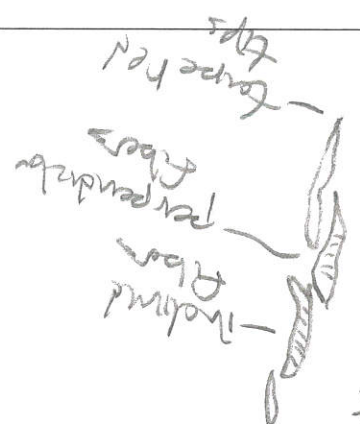
Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
									J.M. M.W.	8/8/2018
<p>55, thin calcite fragments          61, dismembered calcite layer          69~71; bedding;          (090, 5 ; 180, 2)</p> <p>calcite fragments          dip 55          115 to 120</p> <p>↓ 5 mm</p>										

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Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								60	J.M. M.W.	
								50~51, fragmented calcite aligned parallel to bedding		
								59~63, fault, (090, 30; 095, 25) low competence of fault		
								74~75, bedding, (270, 12; 180, 3)		







CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:	
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG				Comments/Sketches
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									7-11, vein on edge of (last fragment)			
												109-116, weakly bedding of volcanic cataclitic

Expedition 375 - Hikurangi

375-U1520C-35R-CC-A |

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			

CM Scale



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CM Scale 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100 102 104 106 108 110 112 114 116 118 120 122 124 126 128 130 132 134 136 138 140 142 144 146 148 150 152	Image	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer: M.W.	Date:
				AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
Sample 375-U1520C-36R-1-A												
131-132, vein, (270, 10; 000, 9)												

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
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2442, disseminated pore filling vein oriented ~ 270, 70° on core face

THIS

# Expedition 375 - Hikurangi

375-U1520C-36R-3-A | SHLF9468671

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
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Expedition 375 - Hikurangi

375-U1520C-36R-4-A | SHLF9468701

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
Comments/Sketches										

CM Scale

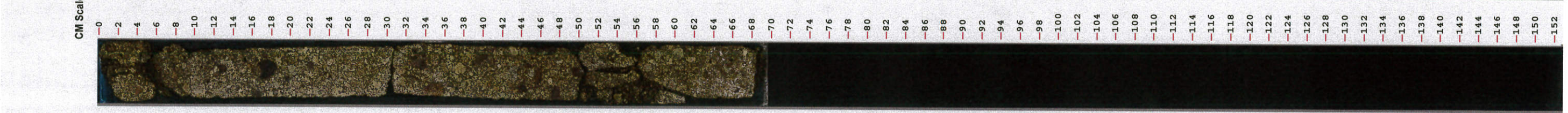
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# Expedition 375 - Hikurangi

375-U1520C-36R-5-A | SHLF9468731

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			









# Expedition 375 - Hikurangi

375-U1520C-37R-2-A | SHLF9469281

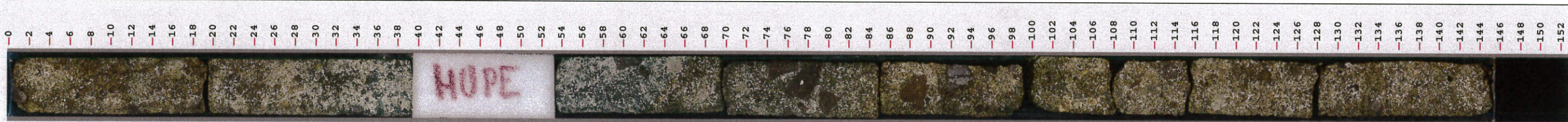
Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
Comments/Sketches 3 cm, note glossy basalt w/ olivine										

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CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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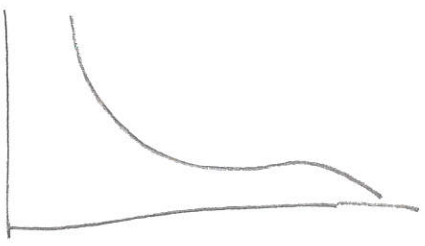


7-16, irregular filled fracture  
 - filled w/ brown mineral  
 - cuts through clasts...

yellow-green

- onset of blue coloration

63-65, green-blue boundary  
 (270, 42; 180, 40)



# Expedition 375 - Hikurangi

375-U1520C-37R-CC-A |

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0											
-2											
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CM Scale

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								42-58, fracture (090, 28; 325, 0)		
								Ø76 98, fracture (090, 5; 337, 0)		

CM Scale



Expedition 375 - Hikurangi

375-U1520C-38R-2-A | SHLF9469831

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer: J.M. <i>mm</i>	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
									35~46, highly altered cherts w/ concentric rims of discoloration - one clast is 10 cm long - calcite in pore spaces		

# Expedition 375 - Hikurangi

375-U1520C-38R-3-A | SHLF9469861

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								3-5 cm, quartz clast		
								34-44, big clast w/ filled vesicles		

CM Scale

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# Expedition 375 - Hikurangi

375-U1520C-38R-5-A | SHLF9469921

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0											
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# Expedition 375 - Hikurangi

## 375-U1520C-38R-CC-A |

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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-2											
-4											
-6											
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# Expedition 375 - Hikurangi

375-U1520C-39R-1-A | SHLF9470561

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
Comments/Sketches										

CM Scale

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Expedition 375 - Hikurangi

375-U1520C-39R-3-A | SHLF9470621

Feature		Thick		Core-face orientation		2nd app. orientation		Core orientation		Summary:		Observer:	Date:
				AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG	Comments/Sketches			
													

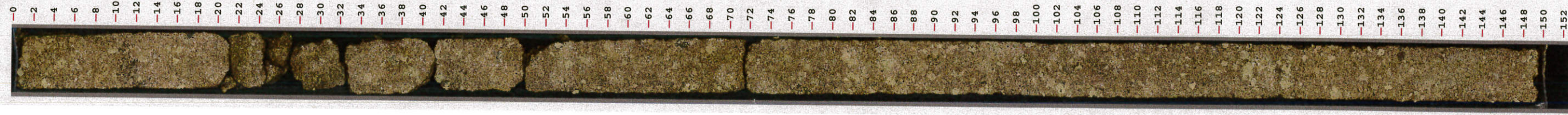
67-67. open fracture.  
~~127,771-000,167~~

**Expedition 375 - Hikurangi**

**375-U1520C-39R-4-A | SHLF9470651**

Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			

CM Scale



# Expedition 375 - Hikurangi

375-U1520C-39R-5-A | SHLF9470681

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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# Expedition 375 - Hikurangi

375-U1520C-39R-CC-A |

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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CM Scale

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Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								fracture surfaces is blue, sharp boundary back to tan-brown		
								13~17, fracture, (090, 52; 180, 30)		
								23~32, possible fracture, (270, 7; 010, 0)		
								4~45, vein, (090, 35; 000, 61) wavy at least 8 mm thickness same		
								48~54, vein, (270, 80; 060, 0) - Vein contact w/ rock also blue-green in color - blue color extends 2-5 mm into wall - thin black coating at vein-rock contact locally		

CM Scale

- 0
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Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
		AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
								vein surface vein cross cuts blue green zone ( 54~56, vein, (090, 27; 02, 17) thickness up to 1cm, 63~68, vein, (270, 15; 075, 0) thickness 7mm		

CM Scale

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-2  
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Expedition 375 - Hikurangi

375-U1520C-41R-1-A | SHLF9471781

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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50cm  
 @ 5-11 cm: black, wavy banded structure  
 1 mm thick

60-140 cm  
 Special Appreciation

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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62	→ bed		270	3	000	5					
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68											
70											
72											
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76											
78	→ fault		270	3	000	40					
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~~44-51, fault, @ 77-78, 180, 30~~  
 (no sample)

@77-78, small fault, slickens: 090, 60

DD / 45.5-57  
 Moderate  
 Moderate



CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0											
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40	vein		090	7	000	5					
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@ 37-41cm: Calcite vein, ~1.5cm thick

SD: 25  
10:25  
45-101 - brecciated  
45-101 - brecciated  
45-101 - brecciated

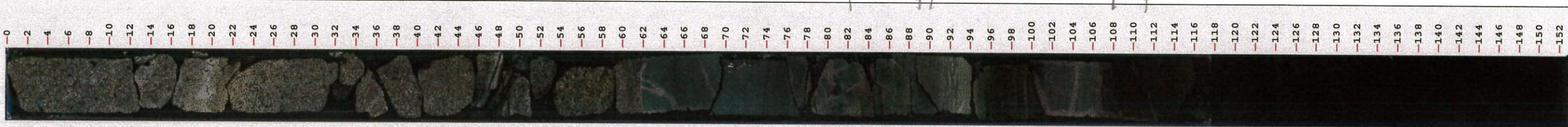




CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0											
2											
4											
6											
8											
10											
12											
14											
16	vein		090	2	180	2			(make thin section?) 12-14 cm (archive), see x-cutting near veins, on background @ 15cm: vein, 1mm thick, calcite cement - also looks like two generations of cement, two shades of gray/white & sharp boundaries fish gray, Qtz?	HSTAF	4/8/18
18											
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54			270	79	180	28			@ 48-59 cm: thin vein, 1mm thick, calcite cement, merges w/ cemented parts of the section		
56											
58											
60											
62											
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78			080	8	180	2					
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DD: Finlayson  
right

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
0											
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20 - boundary, irregular, with finer grained sed. coarsening downward

36 - comminuted zone?

46, bedding or show surface?

@ 87-89: fault, slicks: 270, 30°

@ 108-111 cm: fault, slicks: 270, 70°

DD: slicks, thinning

Expedition 375 - Hikurangi

375-U1520C-42R-3-A | SHLF9472421

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
-0										AFHS	4/8/18
-2											
-4											
-6											
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-10											
-12											
-14											
-16											
-18											
-20											
-22											
-24											
-26	- fault		270	1	000	45			@25-28 cm: fault, slicks: 270, 62°		
-28											
-30											
-32											
-34											
-36											
-38	- fault		090	10	000	35			@37-39 cm: fault, slicks @ 270, 72° (090, 10; 000, 35) normal		
-40											
-42											
-44											
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-48											
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76-77, distinctive white fragments?  
- were veins, or shells??

@12-113 cm: fault, slicks: 090, 85°

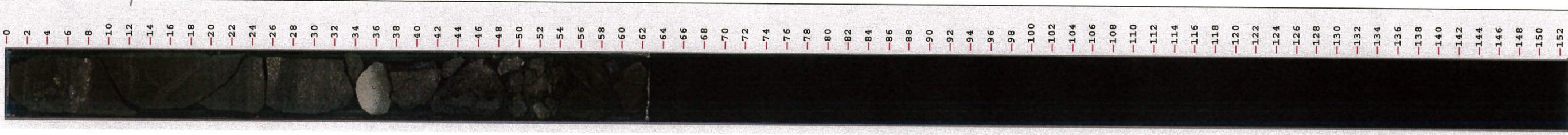
DP: extension, slight



Expedition 375 - Hikurangi

375-U1520C-42R-5-A | SHLF9472481

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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8 cm, contact

090 4 000 6

Thin, slightly  
interstratified  
with 10-15 cm

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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Note Fall in + bisecting such that  
 offset do not match between archive  
 and working halves.  
 - vein in vesiculated basalt dust, vesicles filled  
 another fault @ 24-27  
 270/7 180/45 rake 76/90  
 normal?  
 51-54, color bending and flow fabric  
 w/ possible shear sense  
 82, color bending out contact  
 122-123, complex bending w/ grain-size &  
 color  
Bisecting

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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44-51, fault, (270, 38 ; (80, 38)

46-52, distinct zone of complex color banding, w/ angular white clasts at base

64, elongate layered white clast, aligned w/ "bedding" - lots of other clasts in bed

89-96, complex & localized color banding w/ warped white clasts below

133-136, complex banding of diff grain sizes

Bedding @ 88 270 19 180 22

Take 88/120

CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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13 cm  
17 Feature 29  
60

Note, white clasts biz units within CC  
shows planar, foliar boundary



CM Scale	Feature	Thick	Core-face orientation		2nd app. orientation		Core orientation		Summary:	Observer:	Date:
			AZIM	DIP/PLG	AZIM	DIP/PLG	AZIM	DIP/PLG			
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Biscuit

0-43

Bedding DO 10 180 13  
1.0  
17cm

43-85

Dissected

Severe

85

biscuit