Modern forams

CC: Mn-crust
Glass

(A)

multicolor

matcolor: very pale brown

Poorly sorted, grain-supported conglomerate (white micrite)

Matrix: cement, foraminifera-bearing micrite(?) → medium-sand to microbreccia rich in basalt and biogenic fragments

1

(B)

multicolor

matcolor: pale brown

very poorly-sorted, matrix-supported conglomerate (brownish micrite)

Matrix: silty micrite → microbbreccia

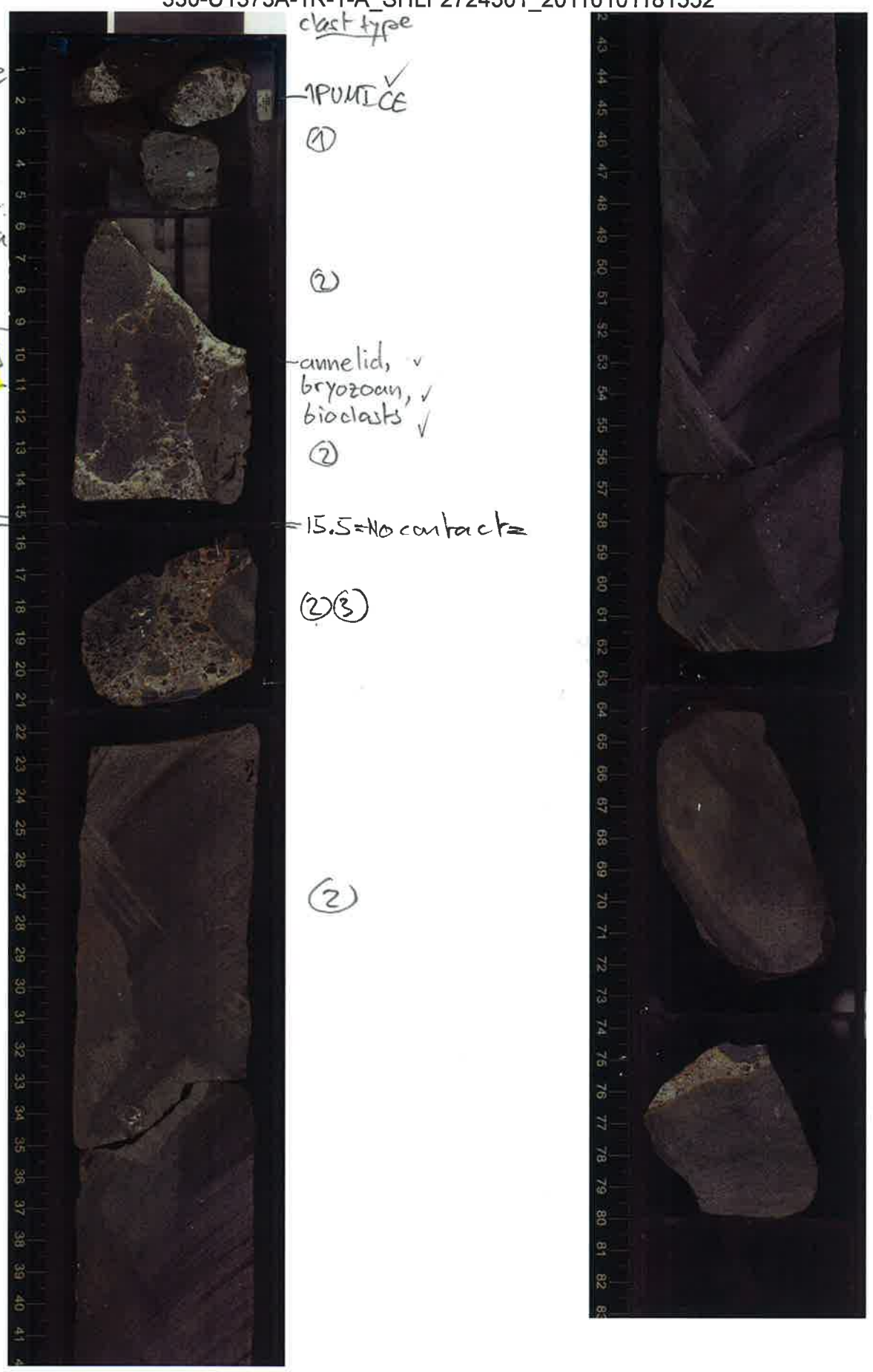
larger clasts are better rounded

lower content in bioclast, although some large (1.2 mm) grains in neat section

- grains mostly; some fine-grained grey specimen not seen as larger clast

bioturbated

330-U1373A-1R-1-A_SHLF2724501_20110101181552



clast type

PUMICE ✓

(1)

(2)

annelid, ✓

bryozoan, ✓

bioclasts ✓

(2)

=15.5=No contact=

(2)(3)

(2)

(2)

(2)

SED 1R1

330-U1373A-1R-2-A_SHLF2724531_20110101182236

brownish matrix supported conglomerate (continued)

4.5 — bioclast w/ annelid ✓

7.5 — bioturbation ✓ [TS]

17 — annelid ✓

fresh Olivine grain

28.5 — bioclast ✓

biotrbated sed. under larger clast ✓

[TS] Bioturbated ✓ w/ cement + dark grains - fecal pellets?

55 — bioturb. under clast ✓

biogenic encrustment annelid? ✓ + black grains

bioturbated ✓ + cement

77 — altered ✓ red algae

rounded border

SED IR2

330-U1373A-1R-3-A_SHLF2724561_20110101194138

brownish matrix-supported conglomerate

encrusted/ coated grain

annelid on grain

coated grain

Most larger clasts are encrusted / coated

TS?

large shell

cemented + void

erosive contact 37

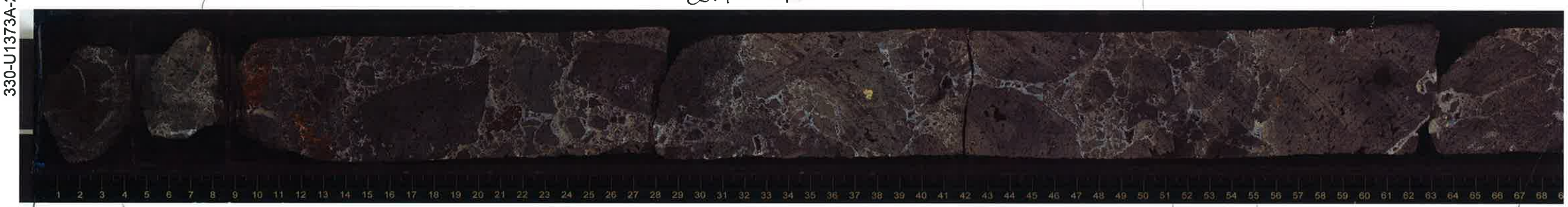
algae

Pale grain-supported conglomerate w/ bioclasts (including shells) variety of (A)

SED 2R1

welded

bc



abundant geopetal str.
cemented

autobrecciated

contact not seen

lava flow
w/ pinkish
white, silty micrite

brec geopetal

brown micrite → Geopetal

Geopetal

peperite??
Autobrecciated basalt
+ micrite + rare bioclast.

where?

330-U1373A-2R-2-A_SHLF2725111_20110102000107

altered glass rim

5cm

lava flow unit 1

(C) grain-supported very Poorly sorted

Brownish Basalt breccia

matrix: cement

No bioclast

heterolithic

B breccia (unit 2)

Sediment (C) (heterolithic)

49cm

lava (?) unit 3

Nicely welded

SED 2R2

330-U1373A-2R-3-A_SHLF2725141_20110102000922

Unit 3
(continued)

May locally contain sediments seen in core 2R2 (B breccia)

voids

SD 2R3

330-U1373A-2R-4-A_SHLF2725171_20110102001730

45

Basalt
breccia
type ©
//2R2
heterolithic
→ sedimentary

Unit 4

SED 2R4

330-U1373A-3R-1-A_SHLF2725771_20110102063648

B
Breccia
type(C)

gradual transition

24 ||
lava flow

SED 3R1

330-U1373A-3R-2-A_SHLF2725801_20110102064835

Lava flow

64

multicolor conglomerate w/ v. pale brown micrite Sed. type (1) (core 1R1)

large annelid fragment

annelid (?) around clast

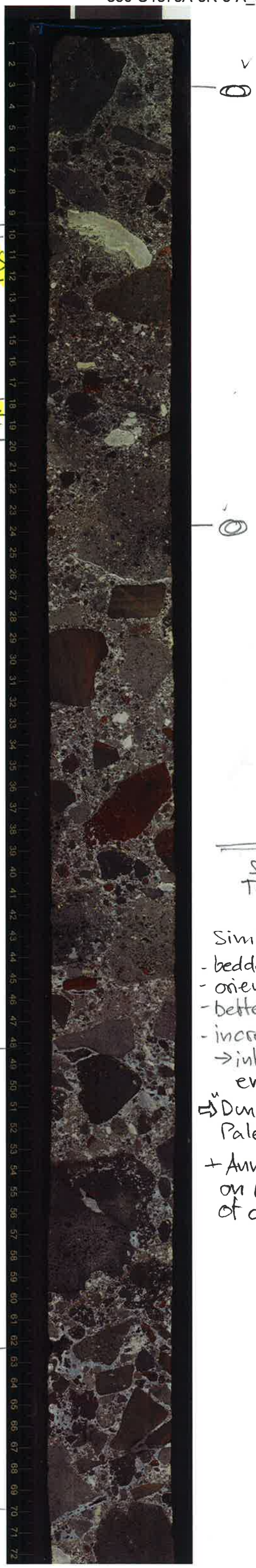
330-U1373A-3R-3-A_SHLF2725831_20110102073314

multicolor conglo w/ very pale brown micrite + cement
Sed. type (A)

very large bioclast

TS

large bioclast (perforated)



Bioclast-rich interval

TS

112

SED Type (D)

Similar to A, but:
- bedded / cross-bedded
- oriented clasts
- better sorting
- increased porosity
→ intermitent emersion?
⇨ "Dune-like" facies Paleo beach
+ Annelid encrust. on both sides of clasts

dissolved + partly cemented shell

Increased porosity

Basalt-richer increased porosity

cross-bedded

bedded

void

void

void

SED 3R3

330-U1373A-3R-4-A_SHLF2725861_20110102084634

SED type (D) (continued) ✓

large ✓ bioclast

both sides ✓

SED 3R4

330-U1373A-4R-1-A_SHLF2726291_20110102135010

SED Type (D)

macroscopic trace fossil
annelid in living position
includes perforation w/ black grain
SimtoCore 1RZ

large shell fragment

TS

increased porosity

Bioturbated

large shell fragment

Bioturbated

Bioturbated

dissolved & partly cemented shell fragment

SED 4R1

330-U1373A-5R-1-A_SHLF2727121_20110102145917

or transition contact not seen

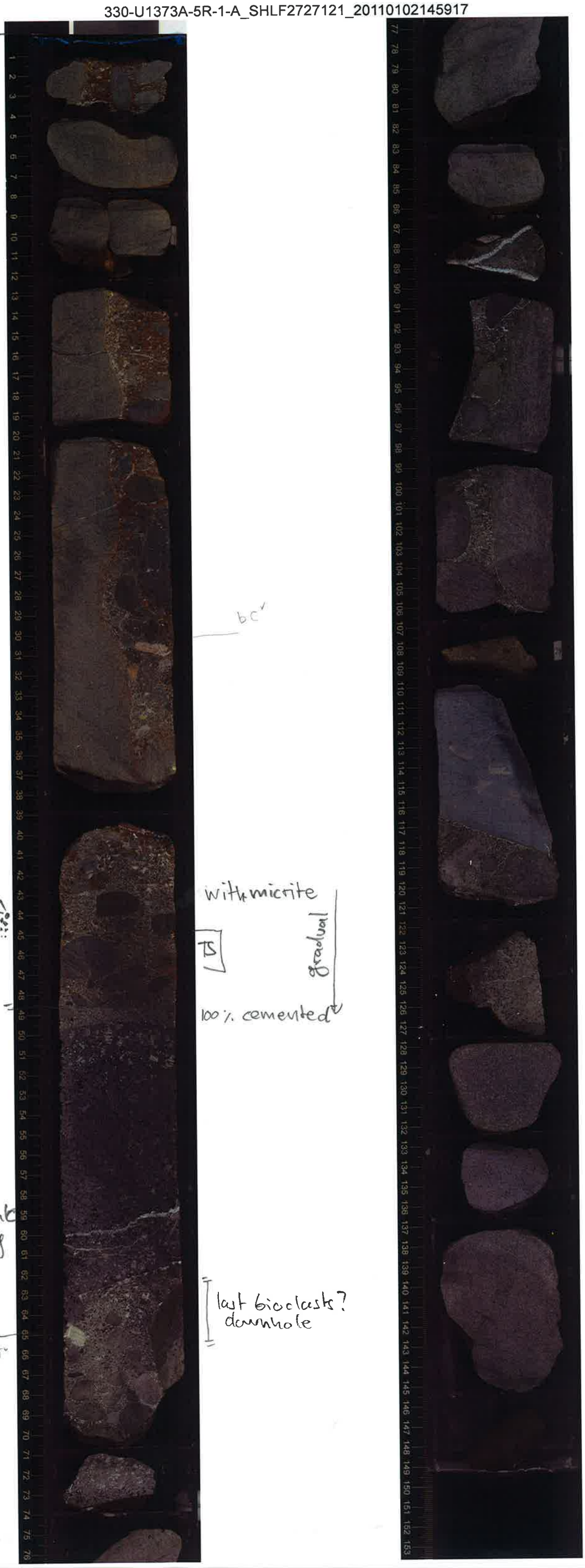
SED (E)

well-rounded poorly sorted multicolor Basalt conglomerate

matrix:

Pale yellow silty micrite to basalt(micro) conglomerate w/ bioclasts or cement

abundant echinoderm fragments



bc

A

Bioclasts

C

48.5

with micrite

gradual

100% cemented

SED (F)

Similar to (E) but nearly azoic, 100% cemented,

→ bluish grey basalt conglomerate + increased sorting of matrix conglo

large shell frag.

last bioclasts? downhole

SED 5R1

330-U1373A-5R-2-A_SHLF2727151_20110102144310

No Bioclast
↓

SED(E) with green micrite (?)

-SED(E) altered?

-SED(E) with porosity

Sediment fill blueish gray but weathered place is brownish →

SED(E) ← including brownish conglomerate

← well rounded pebble

SED5R2

330-U1373A-6R-1-A_SHLF2728271_20110102185407

105

105

reddish clast margin

SED (G)
very poorly sorted
matrix supported
dark multicolor
basalt breccia
matrix:
dark grey
azoic micrite →
basalt siltstone -
breccia
Angular grains
(v. angular -
subrounded)

including brownish conglomerate →

SED 6R1

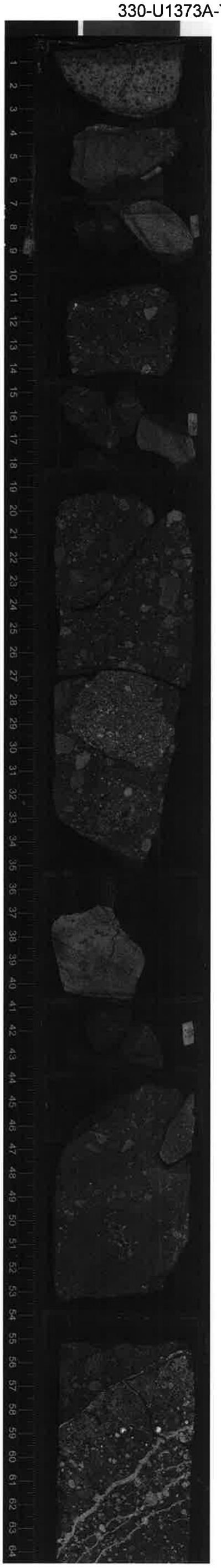
SED (6)
(continued)

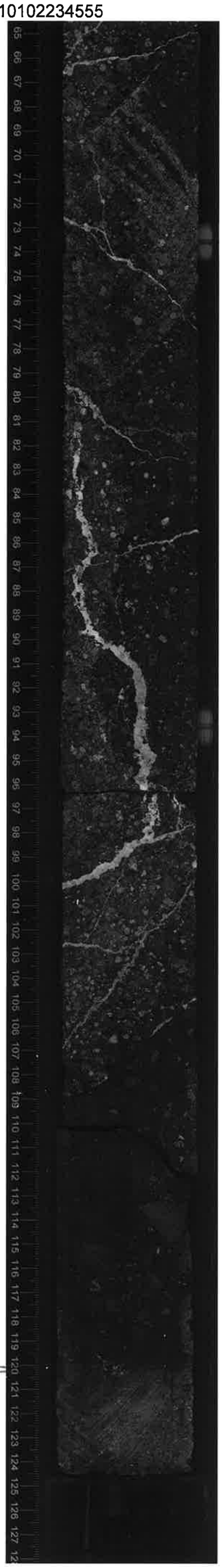
330-U1373A-6R-2-A_SHLF2728301_20110102190132

SED6R2

330-U1373A-7R-1-A_SHLF2729041_20110102234555

SED (6) continued





120
Lava flow

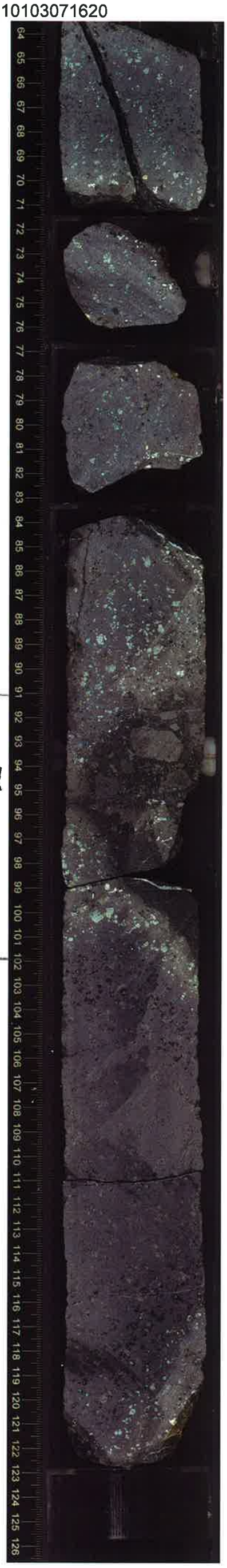
Basalt breccia
Conglomerate ?
Basement
Volcanic Basement

SED 7R1

330-U1373A-7R-2-A_SHLF2729071_20110102235206

SED7R2

330-U1373A-7R-3-A_SHLF2729101_20110103071620



91

Sediment
(G)
interbedded
or
included
in lava flow

102

7R3 SED

330-U1373A-7R-4-A_SHLF2729131_20110103072921

SED 7R4


330-U1373A

330-U1373A-7R-4-A_SHLF2729131_20110103072921

A

SED 7R4

SED 7R5

330-U1373A-7R-5-A_SHLF272916
330-U1373A-7R-5-A_SHLF272916161_20110103073357
A
A