

C1
Biofacies 1
Dalmanella

	%
Dalmanella	81.8
ramose trepostomes	5.2
thin ramose bryozoans	2.9
Strophomena	1.9
Zygospira	1.8
Rafinesquina	1.7
Flexicalymene	1.6
Isotelus	0.9
Sowerbyella	0.5
Cincinnaticrinus	0.4
Glyptocrinus	0.3
Platystrophia	0.2
Hebertella	0.2
nautiloids	0.2
Escharopora	0.2
bifoliate trepostome	0.1
encrusting bryozoans	0.1
Ectenocrinus	0.1

C1
Biofacies 2
Dalmanella-ramose trepostome

	%
Dalmanella	56.8
ramose trepostomes	11.4
Sowerbyella	8.5
thin ramose bryozoans	5.9
Rafinesquina	5.2
Flexicalymene	2.4
Isotelus	1.7
Zygospira	1.5
Ectenocrinus	1.4
Triarthrus	1.3
bifoliate trepostome	0.6
Cryptolithus	0.6
Cornulites	0.4
Cincinnaticrinus	0.4
odontopleurids	0.3
Petrocrania	0.3
Ambonychia	0.3
Merocrinus	0.3
Escharopora	0.2
fenestrate bryozoans	0.2
encrusting bryozoans	0.1
Iocrinus	0.1
Cyclonema	0.1
inarticulates	0.1

SHE Parameters, based on natural logs
(Hayek, L.C., and Buzas, M.A., 1997,
Surveying Natural Populations:
New York, Columbia University Press.)

S 4.26
H 0.87
E 0.56

S 6.63
H 1.58
E 0.73

C1
 Biofacies 3
 ramose trepostome

	%
ramose trepostomes	80.7
Dalmanella	3.3
Rafinesquina	3.0
Sowerbyella	2.5
Zygospira	2.4
Flexicalymene	1.9
Isotelus	0.6
Strophomena	0.6
Cryptolithus	0.6
bifoliate trepostome	0.6
lingulids	0.5
Escharopora	0.5
Ectenocrinus	0.5
encrusting bryozoans	0.4
Ambonychia	0.3
Glyptocrinus	0.3
thin ramose bryozoans	0.3
Petrocrania	0.3
nautiloids	0.2
Aspidopora	0.2
Cincinnatiocrinus	0.1
Cornulites	0.1
fenestrate bryozoans	0.1

C1
 Biofacies 4
 Rafinesquina - ramose trepostome

	%
Rafinesquina	54.0
ramose trepostomes	12.4
Dalmanella	6.0
Zygospira	4.5
thin ramose bryozoans	4.2
fenestrate bryozoans	2.6
Flexicalymene	2.5
encrusting bryozoans	2.1
Petrocrania	1.8
Isotelus	1.5
Cincinnatiocrinus	1.1
Cryptolithus	1.0
nautiloids	1.0
gastropods	1.0
ostracods	0.9
Merocrinus	0.6
Platystrophia	0.5
Glyptocrinus	0.5
Escharopora	0.5
Ectenocrinus	0.4
odontopleurids	0.4
Ambonychia	0.4

S 6.67
 H 0.78
 E 0.33

S 7.50
 H 1.86
 E 0.86

C1
 Biofacies 5
 Dalmanella - ramose trepostome -
 Zygospira

	%
Dalmanella	20.6
ramose trepostomes	17.5
Zygospira	12.2
Cryptolithus	8.5
thin ramose bryozoans	7.4
Flexicalymene	6.6
Rafinesquina	4.4
Isotelus	2.5
Sowerbyella	2.2
Lophospira	2.1
Strophomena	1.8
bifoliate trepostome	1.6
Triarthrus	1.4
Ambonychia	1.2
Cincinnaticrinus	1.2
Ectenocrinus	1.1
odontopleurids	1.0
ostracods	1.0
Merocrinus	0.8
Lepidocoleus	0.6
fenestrate bryozoans	0.5
Hormotoma	0.4
nautiloids	0.4
Cornulites	0.3
Aspidopora	0.3
Platystrophia	0.3
inarticulates	0.3
Hebertella	0.3
Glyptocrinus	0.3
encrusting bryozoans	0.2
Escharopora	0.2
Plectorthis	0.2
gastropods	0.2
Cyclonema	0.1
Iocrinus	0.1
bivalves	0.1
Petrocrania	0.1
Eridorthis	0.0
Liospira	0.0

S 8.61
 H 2.50
 E 1.41

C1
 Biofacies 6
 Sowerbyella - ramose trepostome -
 thin ramose bryozoan

	%
Sowerbyella	41.3
ramose trepostomes	12.5
thin ramose bryozoans	11.5
Dalmanella	10.7
Cryptolithus	5.9
Flexicalymene	3.6
Zygospira	3.5
bifoliate trepostome	1.7
Isotelus	1.5
Ectenocrinus	1.2
Cincinnaticrinus	1.2
Aspidopora	0.9
odontopleurids	0.5
Rafinesquina	0.5
Cornulites	0.5
Lepidocoleus	0.5
encrusting bryozoans	0.4
bivalves	0.4
Ambonychia	0.3
Strophomena	0.2
Petrocrania	0.2
Geniculograptus	0.2
Merocrinus	0.2
Lophospira	0.2
inarticulates	0.1
Cyclonema	0.1
Liospira	0.1
Eridorthis	0.1
gastropods	0.1
lingulids	0.1

S 8.19
 H 2.02
 E 0.92

C1
Biofacies 7
Sowerbyella

	%
Sowerbyella	80.9
Dalmanella	5.5
Zygospira	3.3
thin ramose bryozoans	2.3
ramose trepostomes	1.6
Ectenocrinus	1.4
Flexicalymene	1.0
bifoliate trepostome	0.8
odontopleurids	0.8
Cryptolithus	0.7
Cincinnatiacrinus	0.5
Ambonychia	0.4
Isotelus	0.2
Cornulites	0.2
Geniculograptus	0.2
ostracods	0.2

C2
Biofacies 1
Rafinesquina

	%
Rafinesquina	48.1
ramose trepostomes	9.4
Zygospira	8.5
Platystrophia	6.3
Hebertella	5.3
Parvohallopora	4.0
dalmanellids	3.3
thin ramose bryozoans	2.7
Flexicalymene	1.4
Ambonychia	1.3
Plectorthis	1.0
encrusting bryozoans	1.0
Cincinnatiacrinus	1.0
modiomorphids	0.8
Caritodens	0.7
Isotelus	0.7
Escharopora	0.7
Lophospira	0.6
Platystrophia ponderosa	0.6
Glyptocrinus	0.6
Ectenocrinus	0.3
Cyclonema	0.3
bifoliate bryozoans	0.2
Cuffeyella	0.2
Strophomena	0.2
odontopleurids	0.2
massive bryozoans	0.2
fenestrate bryozoans	0.1
Constellaria	0.1
nautiloids	0.1
Petrocrania	0.0

S 5.91
H 0.87
E 0.40

S 7.76
H 2.01
E 0.97

C2
 Biofacies 2
 Rafinesquina - Platystrophia -
 ramose trepostome - Plectorthis

	%
Rafinesquina	22.8
Platystrophia	19.5
ramose trepostomes	16.1
Plectorthis	12.1
Zygospira	3.1
Isotelus	2.9
Hebertella	2.9
Flexicalymene	2.8
bifoliate trepostome	2.4
Glyptocrinus	2.1
encrusting bryozoans	1.9
Petrocrania	1.9
Escharopora	1.6
Constellaria	1.4
Lophospira	1.0
dalmanellids	0.9
Strophomena	0.8
Ceraurus	0.4
Caritodens	0.4
bivalves	0.4
Ambonychia	0.4
modiomorphids	0.3
Cincinnatiacrinus	0.3
Ectenocrinus	0.3
Ptychocrinus	0.3
fenestrate bryozoans	0.3
Cornulites	0.2
Platystrophia ponderosa	0.1
Cyclonema	0.1
gastropods	0.1
nautiloids	0.1
bellerophon	0.1

S 8.81
 H 2.42
 E 1.28

C2
 Biofacies 3
 dalmanellid - Strophomena

	%
dalmanellids	35.1
Strophomena	30.9
ramose trepostomes	11.8
Rafinesquina	3.3
encrusting bryozoans	3.2
Zygospira	2.8
Platystrophia	1.9
Escharopora	1.9
Isotelus	1.4
Flexicalymene	1.3
Glyptocrinus	1.1
bifoliate trepostome	1.0
thin ramose bryozoans	0.6
Ambonychia	0.5
Plectorthis	0.5
Hebertella	0.5
Ectenocrinus	0.3
Cincinnatiacrinus	0.3
Constellaria	0.3
fenestrate bryozoans	0.3
Petrocrania	0.3
Caritodens	0.3
crinoids	0.2

S 8.44
 H 1.83
 E 0.74

C2
 Biofacies 4
 Platystrophia ponderosa - ramose
 trepostome - Hebertella

	%
Zygospira	41.5
Rafinesquina	13.9
ramose trepostome	13.4
thin ramose bryozoans	5.0
Platystrophia	4.9
Plectorthis	2.7
Hebertella	2.7
Lophospira	2.5
bifoliate bryozoans	2.3
Ambonychia	2.1
Flexicalymene	1.2
Parvohallopora	1.1
encrusting bryozoans	0.9
Platystrophia ponderosa	0.7
Escharopora	7.0
modiomorphids	0.6
Isotelus	0.6
dalmanellids	0.5
gastropods	0.4
Glyptocrinus	0.4
Ectenocrinus	0.4
bivalves	0.3
Caritodens	0.3
Cincinnaticrinus	0.2
Strophomena	0.2
Constellaria	0.2
bellerophonts	0.1
massive bryozoa	0.1
odontopleurids	0.1
Cornulites	0.1

S 7.53
 H 1.81
 E 0.81

C2
 Biofacies 5
 ramose trepostome - Hebertella -
 Zygospira

	%
ramose trepostomes	22.7
Hebertella	17.2
Platystrophia ponderosa	14.8
Platystrophia	6.6
Zygospira	5.9
Rafinesquina	5.3
Lophospira	4.4
thin ramose bryozoans	4.3
bifoliate bryozoans	4.0
Parvohallopora	2.0
Flexicalymene	1.8
encrusting bryozoans	1.6
Ambonychia	1.5
massive bryozoans	1.2
Caritodens	1.0
modiomorphids	0.7
Strophomena	0.7
Cornulites	0.6
Glyptocrinus	0.6
Cuffeyella	0.5
Petrocrania	0.5
Isotelus	0.4
Plectorthis	0.3
Ceraurus	0.3
Cincinnaticrinus	0.2
fenestrate bryozoans	0.2
bivalves	0.2
Escharopora	0.2
crinoids	0.2
dalmanellids	0.1
Constellaria	0.1

S 8.55
 H 2.52
 E 1.46

C2
 Biofacies 6
 Rafinesquina - Platystrophia -
 ramose trepostome - Plectorthis

	%
ramose trepostome	55.2
Rafinesquina	5.3
Hebertella	5.2
Platystrophia	4.0
Constellaria	3.7
Zygospira	3.5
Platystrophia ponderosa	3.5
Lophospira	2.5
Strophomena	2.3
Parvohallopora	2.0
bifoliate bryozoans	1.7
encrusting bryozoans	1.3
thin ramose bryozoans	1.3
Ambonychia	1.0
Flexicalymene	0.9
fenestrate bryozoans	0.8
Plectorthis	0.8
Isotelus	0.8
modiomorphids	0.6
Escharopora	0.5
Cyclonema	0.5
Glyptocrinus	0.4
Caritodens	0.4
Ectenocrinus	0.4
massive bryozoans	0.3
Cuffeyella	0.3
dalmanellids	0.2
Cincinnatiocrinus	0.2
Ceraurus	0.1
crinoids	0.1
Ptychocrinus	0.1
odontopleurids	0.1
Petrocrania	0.0

C3
 Biofacies 1
 Platystrophia ponderosa - bifoliate
 trepostome - ramose trepostome -
 Hebertella

	%
Platystrophia ponderosa	45.7
bifoliate trepostome	12.2
ramose trepostomes	11.1
Hebertella	10.0
Zygospira	5.6
encrusting bryozoans	2.5
Rafinesquina	2.3
Parvohallopora	2.0
Cornulites	1.2
Platystrophia	1.2
Caritodens	1.0
Glyptocrinus	0.8
Isotelus	0.7
Ambonychia	0.6
bivalves	0.4
Flexicalymene	0.3
Cyclonema	0.3
odontopleurids	0.3
thin ramose bryozoans	0.3
nautiloids	0.3
modiomorphids	0.2
massive bryozoans	0.2
Cincinnatiocrinus	0.2
Petrocrania	0.2
Dalmanella	0.1
gastropods	0.1
crinoids	0.1
Lophospira	0.1
Cuffeyella	0.1

S 8.31
 H 1.92
 E 0.82

S 8.38
 H 1.95
 E 0.84

C3

Biofacies 2

ramose trepostome - Rafinesquina

	%
ramose trepostomes	42.9
Rafinesquina	10.3
Parvohallopora	6.1
Platystrophia	5.4
Platystrophia ponderosa	4.8
bifoliate trepostome	4.4
Hebertella	4.2
Zygospira	4.2
Flexicalymene	3.8
Ambonychia	1.8
thin ramose bryozoans	1.7
modiomorphids	1.4
Plectorthis	1.1
encrusting bryozoans	1.1
massive bryozoans	0.8
Deceptrix	0.8
Isotelus	0.8
Glyptocrinus	0.8
Caritodens	0.8
Lophospira	0.7
Cincinnatiocrinus	0.6
nautiloids	0.4
Cyclonema	0.3
Petrocrania	0.2
Cuffeyella	0.2
Dalmanella	0.2
odontopleurids	0.1
gastropods	0.1
Leptaena	0.1
Iocrinus	0.1
crinoids	0.0

S 9.24
H 2.14
E 0.92

C3

Biofacies 3

Zygospira - ramose trepostome -
Rafinesquina

	%
Zygospira	42.0
ramose trepostomes	12.9
Rafinesquina	12.9
thin ramose bryozoans	6.4
Platystrophia ponderosa	4.6
Flexicalymene	3.6
bifoliate trepostome	3.4
gastropods	2.0
Cincinnatiocrinus	1.9
Isotelus	1.5
encrusting bryozoans	1.4
Caritodens	1.3
Parvohallopora	0.8
Ambonychia	0.7
Glyptocrinus	0.6
bivalves	0.6
Cyclonema	0.6
Hebertella	0.5
Lophospira	0.5
nautiloids	0.4
modiomorphids	0.4
Platystrophia	0.3
massive bryozoans	0.2
Dalmanella	0.2
Cuffeyella	0.2
odontopleurids	0.1

S 8.50
H 2.11
E 0.97

C3
 Biofacies 4
 Rafinesquina - ramose trepostome

	%
Rafinesquina	38.4
ramose trepostomes	14.8
encrusting bryozoans	6.4
Zygospira	6.3
Parvohallopora	5.7
Flexicalymene	3.5
bifoliate trepostome	3.0
thin ramose bryozoans	2.5
Ambonychia	2.5
Iocrinus	2.1
Dalmanella	2.1
Hebertella	2.0
Platystrophia ponderosa	1.8
Platystrophia	1.5
modiomorphids	1.4
Cyclonema	1.2
Isotelus	1.1
Caritodens	0.9
Cuffeyella	0.8
Glyptocrinus	0.8
Cincinnatiocrinus	0.5
Plectorthis	0.2
Petrocrania	0.2
nautiloids	0.1
Lophospira	0.1
odontopleurids	0.1

C3
 Biofacies 5
 Rafinesquina

	%
Rafinesquina	69.3
ramose trepostomes	9.2
Zygospira	3.6
Flexicalymene	3.4
encrusting bryozoans	2.2
Petrocrania	2.1
bifoliate trepostome	1.8
Ambonychia	1.7
Glyptocrinus	1.7
Isotelus	1.4
modiomorphids	0.9
Hebertella	0.5
thin ramose bryozoans	0.4
nautiloids	0.4
Plectorthis	0.4
Platystrophia	0.4
Parvohallopora	0.3
Iocrinus	0.3
Cincinnatiocrinus	0.3

S 9.12
 H 2.24
 E 1.03

S 7.00
 H 1.30
 E 0.52

C3
 Biofacies 6
 Dalmanella - Rafinesquina

	%
Dalmanella	55.8
Rafinesquina	26.4
ramose trepostomes	6.0
Flexicalymene	5.5
Caritodens	2.1
Isotelus	2.0
odontopleurids	0.8
thin ramose bryozoans	0.8
encrusting bryozoans	0.6

C4
 Biofacies 1
 ramose trepostome - Hebertella

	%
ramose trepostomes	18.3
Hebertella	12.3
thin ramose bryozoans	8.9
Rafinesquina	8.7
Platystrophia	8.5
bifoliate trepostome	7.0
encrusting bryozoans	4.1
Flexicalymene	3.8
Deceptrix	3.6
Zygospira	3.5
Lophospira	2.7
massive bryozoans	2.6
Parvohallopora	2.1
Cyclonema	1.9
Leptaena	1.8
Ambonychia	1.6
Isotelus	1.6
Petrocrania	1.4
Caritodens	1.3
Dalmanella	1.1
bivalves	0.7
Cincinnatiocrinus	0.6
modiomorphids	0.6
Glyptocrinus	0.6
Xenocrinus	0.3
bellerophonts	0.3
nautiloids	0.1
Cuffeyella	0.1

S 4.67
 H 1.27
 E 0.77

S 9.19
 H 2.74
 E 1.68

C4
 Biofacies 2
 ramose trepostome

	%
ramose trepostomes	59.5
Rafinesquina	7.4
Hebertella	5.9
Platystrophia	5.0
Zygospira	3.0
thin ramose bryozoans	2.6
bivalves	2.3
encrusting bryozoans	2.3
Isotelus	2.0
Flexicalymene	1.6
gastropods	1.2
bifoliate trepostome	1.1
Ambonychia	1.1
Cornulites	1.1
Cyclonema	1.0
Dalmanella	0.9
Caritodens	0.8
Lophospira	0.5
bellerophonts	0.2
Glyptocrinus	0.2
Ptychocrinus	0.1
massive bryozoans	0.1
Cuffeyella	0.1

S 8.63
 H 1.67
 E 0.61

C4
 Biofacies 3
 ramose trepostome - Rafinesquina
 - Zygospira

	%
ramose trepostomes	31.5
Rafinesquina	26.2
Zygospira	12.9
Parvohallopora	7.4
thin ramose bryozoans	2.7
Flexicalymene	2.5
bifoliate trepostome	2.1
Ambonychia	2.1
Glyptocrinus	2.0
Platystrophia	1.7
Leptaena	1.3
nautiloids	1.1
Cincinnatiocrinus	0.9
encrusting bryozoans	0.9
Cyclonema	0.9
Petrocrania	0.8
Caritodens	0.7
Isotelus	0.7
Lophospira	0.4
Hebertella	0.4
Ropalonaria	0.2
gastropods	0.2
Cornulites	0.1
modiomorphids	0.1
lingulids	0.1

S 8.92
 H 2.10
 E 0.91

C4
 Biofacies 4
 Rafinesquina - Zygospira

	%
Rafinesquina	35.7
Zygospira	31.2
ramose trepostomes	7.2
encrusting bryozoans	4.5
Flexicalymene	2.5
Cincinnaticrinus	2.2
bifoliate trepostome	2.1
Cyclonema	2.0
Ambonychia	1.9
Glyptocrinus	1.8
thin ramose bryozoans	1.6
Leptaena	1.5
Retrorsirostra	1.0
Caritodens	0.8
Hebertella	0.6
Platystrophia	0.5
Isotelus	0.4
gastropods	0.4
Cuffeyella	0.4
Dalmanella	0.3
modiomorphids	0.3
Ropalonaria	0.3
Petrocrania	0.2
Parvohallopora	0.2
massive bryozoans	0.2
nautiloids	0.1

S 9.71
 H 2.00
 E 0.76

C4
 Biofacies 5
 Zygospira

	%
Zygospira	61.4
Rafinesquina	8.0
ramose trepostomes	7.8
thin ramose bryozoans	7.4
Flexicalymene	5.1
bifoliate trepostome	2.0
encrusting bryozoans	1.5
Ambonychia	1.4
Isotelus	0.9
Cyclonema	0.9
Cornulites	0.8
Dalmanella	0.6
Cincinnaticrinus	0.5
Glyptocrinus	0.5
Iocrinus	0.3
bivalves	0.2
Caritodens	0.2
modiomorphids	0.1
Petrocrania	0.1
Parvohallopora	0.1
gastropods	0.1
Ptychocrinus	0.1
lingulids	0.0
Platystrophia	0.0
Hebertella	0.0
Leptaena	0.0

S 8.58
 H 1.42
 E 0.48

C4

Biofacies 6

Rafinesquina - ramose trepostome

	%
Rafinesquina	58.5
ramose trepostomes	10.5
Zygospira	6.0
Flexicalymene	4.1
Ambonychia	2.7
bifoliate trepostome	2.4
Cincinnaticrinus	2.2
encrusting bryozoans	2.2
thin ramose bryozoans	2.0
Dalmanella	1.5
Parvohallopora	1.4
Caritodens	1.3
Isotelus	1.1
Glyptocrinus	1.0
Cyclonema	1.0
modiomorphids	0.6
Retro	0.4
Platystrophia	0.4
nautiloids	0.2
Iocrinus	0.1
Petrocrania	0.1
Ropalonaria	0.1
Cuffeyella	0.1
lingulids	0.1
gastropods	0.0

C5

Biofacies 1

thin ramose bryozoan - ramose trepostome

	%
thin ramose bryozoans	61.8
ramose trepostomes	12.3
Strophomena	6.6
Hebertella	4.6
Hiscobeccus	2.8
Platystrophia	2.1
Rafinesquina	1.8
modiomorphids	1.3
Plaesiomys	1.3
Holtedahlinia	0.8
Isotelus	0.7
Streptelasma	0.6
Flexicalymene	0.5
Caritodens	0.4
encrusting bryozoans	0.4
Petrocrania	0.3
Eochonetes	0.3
Glyptorthis	0.2
Zygospira	0.2
Lophospira	0.2
gastropods	0.1
Protaraea	0.1
Cincinnaticrinus	0.1
bivalves	0.1
nautiloids	0.1
Ambonychia	0.1
Grewingkia	0.1
Cuffeyella	0.0
bifoliate trepostome	0.0
Cornulites	0.0
Iocrinus	0.0

S 6.78
H 1.73
E 0.83

S 8.04
H 1.14
E 0.39

C5
 Biofacies 2
 ramose trepostome

	%
ramose trepostomes	88.2
Hebertella	2.7
Platystrophia	1.9
Hiscobeccus	1.6
Streptelasma	1.4
Protaraea	0.6
Strophomena	0.5
Grewingkia	0.4
Holtedahlina	0.4
Rafinesquina	0.4
Isotelus	0.4
bivalves	0.3
nautiloids	0.2
gastropods	0.1
Zygospira	0.1
Cyclonema	0.1
bifoliate trepostome	0.1
Leptaena	0.1
modiomorphids	0.1
Caritodens	0.1
bellerophonts	0.0
encrusting bryozoans	0.0
crinoids	0.0
Lophospira	0.0
Xenocrinus	0.0
Cincinnaticrinus	0.0
Flexicalymene	0.0

S 6.40
 H 0.69
 E 0.31

C5
 Biofacies 3
 ramose trepostome - Rafinesquina

	%
ramose trepostomes	54.0
Rafinesquina	7.9
thin ramose bryozoans	5.2
Hebertella	5.1
Strophomena	4.0
Platystrophia	3.6
Hiscobeccus	2.5
Zygospira	2.1
bifoliate trepostome	1.8
Dalmanella	1.4
encrusting bryozoans	1.3
Streptelasma	1.2
massive bryozoans	1.1
Holtedahlina	1.0
Grewingkia	0.9
modiomorphids	0.9
Rhynchotrema	0.7
Tentaculites	0.6
Isotelus	0.6
gastropods	0.5
Parvohallopora	0.5
Eochonetes	0.3
Caritodens	0.3
Ambonychia	0.2
Cyclonema	0.2
Leptaena	0.2
Flexicalymene	0.2
fenestrate bryozoans	0.2
bellerophonts	0.2
nautiloids	0.1
Lophospira	0.1
Cyrtodonta	0.1
Protaraea	0.1
Plaesiomys	0.1
Petrocrania	0.1
Xenocrinus	0.1
Liospira	0.1
bivalves	0.1
Cuffeyella	0.0
Glyptocrinus	0.0
Cincinnaticrinus	0.0

S 8.03
 H 1.97
 E 0.89

C5
 Biofacies 4
 Eochonetes - Strophomena

	%
Eochonetes	58.6
Strophomena	11.9
thin ramose bryozoans	5.3
Hiscobeccus	4.6
ramose trepostomes	4.4
Rafinesquina	2.7
Dalmanella	2.5
Grewingkia	1.8
Plaesiomys	1.5
Isotelus	1.2
Hebertella	1.2
encrusting bryozoans	1.2
Protaraea	0.7
Zygospira	0.4
Platystrophia	0.3
crinoids	0.3
Ceraurus	0.3
Liospira	0.3
Tentaculites	0.2
Streptelasma	0.2
Flexicalymene	0.1
Caritodens	0.1
Ambonychia	0.1
Holtedahlna	0.1

C5
 Biofacies 5
 Rafinesquina

	%
Rafinesquina	67.4
ramose trepostomes	7.3
Strophomena	7.0
Hebertella	2.5
Zygospira	2.5
Isotelus	2.0
Flexicalymene	1.5
Caritodens	1.3
Hiscobeccus	1.3
Tentaculites	1.3
Platystrophia	1.1
modiomorphids	0.9
Ambonychia	0.7
Protaraea	0.7
Cincinnatiocrinus	0.6
thin ramose bryozoans	0.5
Ropalonaria	0.4
Xenocrinus	0.3
encrusting bryozoans	0.3
Dalmanella	0.2

S 9.22
 H 1.57
 E 0.52

S 6.00
 H 1.45
 E 0.71

C5
Biofacies 6
Strophomena

	%
Strophomena	62.5
Rafinesquina	6.4
Hiscobeccus	5.8
ramose trepostomes	3.9
Hebertella	3.5
Glyptorthis	2.8
Isotelus	2.6
thin ramose bryozoans	2.4
Flexicalymene	2.3
Eochonetes	1.1
encrusting bryozoans	1.1
Leptaena	0.8
Plaesiomys	0.7
Caritodens	0.7
Dalmanella	0.6
Cincinnaticrinus	0.5
Zygospira	0.4
Grewingkia	0.4
Iocrinus	0.3
odontopleurids	0.3
Ambonychia	0.2
bifoliate trepostome	0.2
gastropods	0.2
Petrocrania	0.2
Cornulites	0.1
Ropalonaria	0.0
Platystrophia	0.0

S 8.00
H 1.71
E 0.69

C5
Biofacies 7
Strophomena - ramose
trepostome - Hiscobeccus

	%
Strophomena	22.7
ramose trepostomes	17.1
Hiscobeccus	14.8
Plaesiomys	7.8
Hebertella	6.7
Rafinesquina	4.8
thin ramose bryozoans	4.1
Streptelasma	3.4
encrusting bryozoans	3.1
Grewingkia	2.8
Protaraea	1.7
Isotelus	1.6
Platystrophia	1.5
Eochonetes	1.5
Flexicalymene	1.1
Holtedahlina	1.0
Glyptorthis	0.9
Zygospira	0.7
Leptaena	0.4
Caritodens	0.4
modiomorphids	0.3
Dalmanella	0.3
Iocrinus	0.2
Parvohallopora	0.2
Ambonychia	0.2
Lophospira	0.2
gastropods	0.1
Glyptocrinus	0.1
bifoliate trepostome	0.1
Cincinnaticrinus	0.1
nautiloids	0.0
Cyclonema	0.0

S 9.25
H 2.46
E 1.26

C5
 Biofacies 8
 ramose trepostome - Hebertella

	%
ramose trepostomes	23.0
Hebertella	10.5
Rafinesquina	5.6
Platystrophia	5.2
Tentaculites	5.0
thin ramose bryozoans	4.9
Holtedahlina	4.2
Strophomena	3.7
Deceptrix	3.5
Flexicalymene	3.2
Cyathophylloides	3.0
Lophospira	2.7
Ambonychia	2.6
encrusting bryozoans	2.6
Eochonetes	2.1
Tetradium	1.6
Isotelus	1.4
Leptaena	1.2
Streptelasma	1.2
Zygospira	1.2
Hiscobeccus	1.1
Foerstephyllum	1.1
Platystrophia ponderosa	1.1
modiomorphids	1.0
Petrocrania	1.0
Dalmanella	1.0
Grewingkia	0.7
Plaesiomys	0.6
Parvohallopora	0.5
Caritodens	0.4
Calapoecia	0.3
Rhynchotrema	0.3
Cincinnaticrinus	0.3
bifoliate trepostome	0.3
massive bryozoans	0.2
nautiloids	0.2
Protaraea	0.2
inarticulates	0.2
Cyclonema	0.2
Xenocrinus	0.2
bivalves	0.2
gastropods	0.2
Glyptocrinus	0.1
odontopleurids	0.1
bellerophonids	0.1
Iocrinus	0.1

S 9.00
 H 2.97
 E 2.16

C5
 Biofacies 9
 Rafinesquina - ramose trepostome

	%
Rafinesquina	26.6
ramose trepostomes	19.4
Strophomena	8.0
Leptaena	7.2
Dalmanella	5.2
Hiscobeccus	5.1
Hebertella	4.3
thin ramose bryozoans	3.3
Platystrophia	2.8
encrusting bryozoans	2.3
Zygospira	1.9
Isotelus	1.7
Streptelasma	1.6
Flexicalymene	1.2
modiomorphids	1.1
Plaesiomys	1.0
Petrocrania	0.9
Grewingkia	0.9
Eochonetes	0.7
Ambonychia	0.7
Cornulites	0.6
Protaraea	0.5
bivalves	0.4
Lophospira	0.4
Holtedahlina	0.3
bifoliate trepostome	0.3
Cyclonema	0.3
Cincinnaticrinus	0.3
Tentaculites	0.2
gastropods	0.2
Caritodens	0.1
Glyptocrinus	0.1
Iocrinus	0.1
Cuffeyella	0.1
Rhynchotrema	0.1
Glyptorthis	0.0

S 8.57
 H 2.55
 E 1.50

C5
 Biofacies 10
 Dalmanella - ramose trepostome

	%
Dalmanella	45.9
ramose trepostomes	10.6
thin ramose bryozoans	7.3
Rafinesquina	4.6
Strophomena	4.6
Flexicalymene	4.1
Tentaculites	3.5
Platystrophia	2.7
Zygospira	1.9
Ambonychia	1.6
Lophospira	1.2
encrusting bryozoans	1.0
Isotelus	1.0
Hebertella	1.0
Holtedahlna	0.8
Cincinnaticrinus	0.8
Petrocrania	0.7
Caritodens	0.7
Cornulites	0.6
Leptaena	0.6
bifoliate trepostome	0.6
Eochonetes	0.5
Grewingkia	0.4
Glyptorthis	0.4
Platystrophia ponderosa	0.4
Cyclonema	0.4
modiomorphids	0.3
Xenocrinus	0.3
Deceptrix	0.3
Trematis	0.3
bellerophonids	0.2
odontopleurids	0.1
nautiloids	0.1
Glyptocrinus	0.1
Iocrinus	0.1
Liospira	0.1
Cyrtodonta	0.1
bivalves	0.1
Cuffeyella	0.1
Hiscobeccus	0.0

S 8.76
 H 2.23
 E 1.07

C5
 Biofacies 11
 Dalmanella

	%
Dalmanella	75.5
Flexicalymene	4.2
thin ramose bryozoans	3.8
ramose trepostomes	2.6
Rafinesquina	2.0
Eochonetes	1.7
Cincinnaticrinus	1.2
Ambonychia	1.1
Petrocrania	1.1
Tentaculites	1.0
Isotelus	0.9
Zygospira	0.7
bivalves	0.6
encrusting bryozoans	0.5
Leptaena	0.5
Strophomena	0.3
Iocrinus	0.2
Cyclonema	0.2
Cornulites	0.2
inarticulates	0.2
Platystrophia	0.2
odontopleurids	0.2
Caritodens	0.2
Xenocrinus	0.1
bifoliate trepostome	0.1
Cuffeyella	0.1
Ropalonaria	0.1
Hebertella	0.1
Ceraurus	0.1
nautiloids	0.1
Deceptrix	0.0

S 6.81
 H 1.25
 E 0.51

C6
 Biofacies 1
 ramose trepostome -
 Rhynchotrema - Hebertella

	%
ramose trepostomes	37.6
Rhynchotrema	19.8
Hebertella	11.3
Platystrophia	7.9
Strophomena	4.7
encrusting bryozoans	2.9
Holtedahlina	2.7
bifoliate trepostome	2.0
Rafinesquina	1.8
thin ramose bryozoans	1.8
Streptelasma	1.5
Grewingkia	1.1
Caritodens	1.0
Protaraea	0.9
Ambonychia	0.9
Zygospira	0.9
gastropods	0.8
Cuffeyella	0.4
Tentaculites	0.2

C6
 Biofacies 2
 ramose trepostome

	%
ramose trepostomes	72.4
Hebertella	5.4
Platystrophia	4.9
Rafinesquina	3.3
Holtedahlina	2.9
thin ramose bryozoans	2.7
Tentaculites	1.7
Rhynchotrema	1.1
bifoliate trepostome	1.1
Zygospira	0.8
Strophomena	0.6
Caritodens	0.6
Streptelasma	0.5
Protaraea	0.5
Grewingkia	0.5
encrusting bryozoans	0.4
Ambonychia	0.4
gastropods	0.2

S 8.27
 H 2.05
 E 0.94

S 6.29
 H 1.29
 E 0.58

C6
Biofacies 3
thin ramose bryozoan - ramose
trepostome

	%
thin ramose bryozoans	73.3
ramose trepostomes	14.0
Hebertella	7.4
Holtedahlinia	1.6
Caritodens	1.0
Rafinesquina	1.0
Rhynchotrema	0.7
Platystrophia	0.6
gastropods	0.2
Strophomena	0.2

S	6.33
H	0.81
E	0.35