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**SEDIMENTOLOGY AND STRATIGRAPHY OF THE
CARBONIFEROUS DONEGAL BASIN**

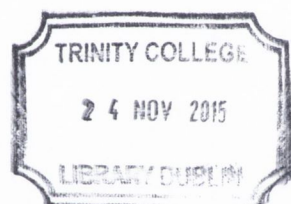
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By

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VOLUME 2

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ABBREVIATIONS & EXPLANATIONS TO APPENDIX 1

ang.	angular	m	metre
appear.	appearance	mic.	micaceous
aren.	arenaceous	Michel.	<i>Michelinia</i> coral
argill.	argillaceous	m.sup.	matrix supported
bdd	bedded	mudst.	mudstone
btwn	between	nod.	nodules
bioturb.	bioturbated	N	north
bk	black	NBF	Northern Boundary Fault
brach.	brachiopod	o/c	outcrop
br.	brown	ool.	oolitic
burr/s.	burrow/s	ostrd	ostracod
calc.	calcareous	pbly	pebbly
clvd	cleaved	poss.	possibly
co.-gr.	coarse-grained	predom.	predominantly
compt	compact	psamm.	psammite
cong.	conglomerate	ptings	partings
crin.	crinoidal	Pt.	Point
cryst.	crystalline	qtzt.	quartzite
c. supp.	clast-supported	qtzose	quartzose
C/U	coarsening-up sequence	rub.	rubbly
deform.	deformation	sed.	sediment
dk	dark	seq.	sequence
dol.	dolomitic	sh.	shale
E	east	siltst.	siltstone
ech.	echinoid	si.	silty
eros. surf.	erosional surface	sndy	sandy
feld.	feldspathic	sst.	sandstone
f.-gr.	fine-grained	std	sorted
fiss.	fissile	stres	structures
Fm.	Formation	strm	stream
foss.	fossiliferous	supp.	supported
frag.	fragment	Syringo.	<i>Syringopora</i> coral
F/U	fining-up sequence	S	south
gastrop.	gastropod	tab.	tabular
gen.	generally	tk	thick
gn.	green	tn	thin
grad.	gradual	trgh	trough
gy	grey	unstd	unsorted
hd	hard	var.	variegated
horiz.	horizon	varb.	variable
hor.	horizontal	vert.	vertical
hum.	hummocky	vn qtz	vein quartz
HIS	Inclined Heterolithic Strata	W	west
immat.	immature	w.	with
intbdd	interbedded	wl	well
intbds	interbeds	X-st	cross-stratified
int.	internal	.../....	faulted contact
irreg.	irregular	-....	lithological contact
lam.	laminated	(...)	Member within Formation
loc.	location		
ls.	limestone		
mass.	massive		
Mbr	Member		
med.-gr.	medium-grained		

COLOURS corresponding to TCD Nos.

Yellow	Thin-section sampling
Blue	Conodont sampling
Green	Hand Sample

CNB No.	TCD No.	GRID REF	AREA	MAP	GENERAL DESCRIPTION	FORMATION
L101		17501 37644	Bruckless Hbr	17/37 SW	Green buff pebbly sst.	Largysillagh Sst. Fm.
L102		17489 37639	Bruckless Hbr	17/37 SW	Green buff pebbly sst., pebbly horizons	Largysillagh Sst. Fm.
L103		17485 37639	Bruckless Hbr	17/37 SW	Red sst., some pebbly horizons	Largysillagh Sst. Fm.
L104		17485 37642	Bruckless Hbr	17/37 SW	Red/green feld. sst., vein-quartz pebbles (2cm)	Largysillagh Sst. Fm.
L105		17485 37646	Bruckless Hbr	17/37 SW	Conglomeratic lag under bedded red sst.	Largysillagh Sst. Fm.
L106		17486 37647	Bruckless Hbr	17/37 SW	Steep dipping ssts.	Largysillagh Sst. Fm.
L107		17480 37647	Bruckless Hbr	17/37 SW	Massive conglomerates	Largysillagh Sst. Fm.
L108		17500 37599	Bruckless pier	17/37 SW	Wedge bedded green sst., pebbly horizons	Largysillagh Sst. Fm.
L109		17502 37603	Bruckless pier	17/37 SW	Cross-stratified sst.	Largysillagh Sst. Fm.
L110		17504 37604	S of Bruckless pier	17/37 SW	Green siltstone draped between irregular ssts.	Largysillagh Sst. Fm.
L111		17506 37611	S of Bruckless pier	17/37 SW	Co.-gr. green to buff ssts with quartz pebbles	Largysillagh Sst. Fm.
L112		17496 37593	S of Bruckless pier	17/37 SW	Buff cros- stratified, tabular ssts., channel above	Largysillagh Sst. Fm.
L113		17493 37586	S of Bruckless pier	17/37 SW	Trough cross-stratified, co.-gr. ssts.	Largysillagh Sst. Fm.
L114		17495 37576	Darney Pt.	17/37 SW	Green/ buff ssts., 1m silty bed w. plant fragments & rootlets	Largysillagh Sst. Fm.
L115		17543 37514	Killaghtee	17/37 SW	Variably bedded sst, x-strat, gy silty interbeds, plant fragments	Largysillagh Sst. Fm.
L116		17539 37522	Killaghtee	17/37 SW	Cross-stratified ssts, pebbly horizons, plant fragments	Largysillagh Sst. Fm.
L117		17526 37526	Killaghtee	17/37 SW	Irreg. bedded mudrocks and siltstones, possible burrows	Largysillagh Sst. Fm.
L118		17532 37524	Killaghtee	17/37 SW	Fault, siltst/mudst. W. caliche structures, palaeosols btwn co. ssts	Largysillagh Sst. Fm.
L119		17521 37528	Killaghtee	17/37 SW	Fault, approx. 4 m green/red mud/siltstones, var., biot., rootlets	Largysillagh Sst. Fm.
L120		17512 37529	Killaghtee	17/37 SW	4 F/U sequences - cong, sst, siltst, mudst., beds pinch out laterally	Largysillagh Sst. Fm.
L121	50730	17551 37428	Castle Port	17/37 SW	Sst, siltst, mudstones, ripples, poss. channel fill, soft sed. deform.	Shalwy Fm.
L122	50731	17543 37404	SE of Rahan Far	17/37 SW	Syringopora, arenac. ls., more calc upsection, crin. debris ls. beds	Shalwy Fm.
L123	50732	17552 37401	Kiln Port	17/37 SW	Argill. foss., biotur. ls., Daviesiella brachs, dome shaped surfaces	Rinn Pt. Ls. Fm.
L124		17745 37465	E of Dunkineely	17/37 SW	Poss.humm. X-strat. co.qtz. ssts, v. biotur. silty ls. & cryst. ls	Cavan Sst. Mbr.
L125		17720 37403	W of Coastguard Stn	17/37 SW	Fault- Argill. ls. to S, tab. clastic, cryst. & argill. ls. tab. beds to N	Rinn Pt. Ls. Fm./Cavan Sst. Mbr.
L126	50501	17704 37391	SE. of Dunkineely	17/37 SW	Argill., foss. ls.	Rinn Pt. Ls. Fm.
L127		17642 37343	Menamny Port	17/37 SW	Argill., foss. (crin., echin., brachs etc.), biotur. ls. with burrs.	Rinn Pt. Ls. Fm.
L128		17381 37596	Ballyloughan Strand	17/37 SW	U/C or Fault ?- Metaseds 60 m west of red cong. sequences	Dalradian/Oily River Cong. Fm.

NO.		GRID REF	AREA	MAP	GENERAL DESCRIPTION	FORMATION
L129	50733	17393 37603	Ballyloughan Strand	17/37 SW	Mudst. from basal silty layer of red clastic sequence	Oily River Cong. Fm.
L130		17396 37604	Ballyloughan Strand	17/37 SW	Mudst. from basal silty layer of red clastic sequence (SE of L129)	Oily River Cong. Fm.
L131		17398 37607	Ballyloughan Strand	17/37 SW	Faulted o/c, Cong. F/U seq., to ssts., 1 m siltst. as marker horizon	Oily River Cong. Fm.
L132	50502	16438 37480	Shalwy- west	14/37 SE	Clast supp. cong w. interbedded sst. bodies, poss x-strata from W	Roelough Cong. Fm.
L133		16465 37463	Shalwy - east	14/37 SE	Band of dk graphitic shales, qtzose ssts, horiz burr.	base of Shalwy Formation
L134	50503	18575 37804	Mountcharles - McMonA	17/37 SE	Well sted ssts with micac. layers	Mullaghmore Sst. Fm.
L135		19695 38638	Greenan Bridge	17/37 NE	Tab. green cong. & ssts.	Edergole Formation
L136		19706 38671	Edergole Bridge	17/37 NE	Tab. green cong. & ssts.	Edergole Formation
L137		17495 37588	S of Bruckless pier	17/37 SW	Trough X-strat. ssts	Largysillagh Sst. Fm.
L138		17494 37585	S of Bruckless pier	17/37 SW	Cross-strat. ssts., w. red siltst. beneath	Largysillagh Sst. Fm.
L139		17490 37576	S of Bruckless pier	17/37 SW	Thin bedded, co.-gr. ssts., qtz pebbles,	Largysillagh Sst. Fm.
L140		17494 37574	S of Bruckless pier	17/37 SW	Fault, silty layer draping sst.	Largysillagh Sst. Fm.
L141		17493 37570	S of Bruckless pier	17/37 SW	Irreg. bedding planes in ssts. & siltstones	Largysillagh Sst. Fm.
L142		17486 37559	Darney Pt	17/37 SW	Trough X-strat. ssts.	Largysillagh Sst. Fm.
L143		17487 37557	Darney Pt	17/37 SW	Coal exposed on irreg. sst. surface	Largysillagh Sst. Fm.
L144		17490 37559	Darney Pt	17/37 SW	Var. beds - Ssts, siltst. draping mudst., sand filled burr.	Largysillagh Sst. Fm.
L145		17494 37557	Darney Pt	17/37 SW	Fault - pebbly cong. horizon within ssts.	Largysillagh Sst. Fm.
L146		17503 37554	E of Darney Point	17/37 SW	Fault- green X-strat. sst., lateral pinching out	Largysillagh Sst. Fm.
L147		17504 37550	E of Darney Point	17/37 SW	Fault - warped beds of ssts, dark grey siltst. sample	Largysillagh Sst. Fm.
L148		17512 37542	Killaghtee	17/37 SW	Fault, var. mudrocks overlain by pebbly ssts.	Largysillagh Sst. Fm.
L149		17500 37538	Killaghtee	17/37 SW	F/U seq. - pbly sst, co. buff sst., red/buff sst., gn siltstones	Largysillagh Sst. Fm.
L150		17505 37532	Killaghtee	17/37 SW	Thin (2 mm) coal horizon within buff ssts.	Largysillagh Sst. Fm.
L151		17512 37529	Killaghtee	17/37 SW	Trough X-strat. ssts, some pebbly & green silty horizons	Largysillagh Sst. Fm.
L152		17527 37527	Killaghtee	17/37 SW	Scrappy coal within ssts.	Largysillagh Sst. Fm.
L153	50504	17552 37513	Killaghtee (Syring. Bed)	17/37 SW	Biotur., silty/aren. ls. w. Syringo, gastro., basal quartz pebbles	Syringopora Bed (Shalwy Fm.)
L154		17507 37534	Killaghtee	17/37 SW	X-strat. non calc. ssts.	Largysillagh Sst. Fm.
L155		17554 37507	Killaghtee	17/37 SW	Irreg. lenseoid ssts, mudrks in hollows, mass. sst.-channel seq.	Largysillagh Sst. Fm.
L156	50734	17555 37502	Killaghtee	17/37 SW	Plant frag. in biotur. siltst., thick bded sst. above	Largysillagh Sst. Fm.

CNB No.	TCD No.	GRID REF	AREA	MAP	GENERAL DESCRIPTION	FORMATION
L157		17558 37492	Killaghtee/Rahan Near	17/37 SW	50 cm beds of sandy siltst. with burrows,	Largysillagh Sst. Fm.
L158		17560 37443	Castle Port	17/37 SW	F/U seq. pbly lag. sst/ biotur. sst/ syringo. & crin. calc sst. unit	Shalwy Fm.
L159		17555 37431	Castle Port	17/37 SW	Fault - normal & thrust, <i>Syringopora</i> Bed, S to N X-strata	Shalwy Fm.
L160		17543 37415	SE of Rahan Far	17/37 SW	Interbbed co.-gr. ssts & calc. siltst/mudst., horiz burr.	Shalwy Fm.
L161		17558 37450	Castle Port	17/37 SW	F/U seq., 20 cm mudst sharply overlain by ssts	Largysillagh Sst. Fm.
L162		17562 37445	Castle Port	17/37 SW	Var. sst., siltst. & mudst., plant frag. & coal, burrs., X-st.	Largysillagh Sst. Fm.
L163		17560 37443	Castle Port	17/37 SW	Varb. lenses & beds of sst. siltst & mudst.	Shalwy Fm.
L164		17543 37415	SE of Rahan Far	17/37 SW	Trough X-st. ssts.	Shalwy Fm.
L165	50505	17544 37411	SE of Rahan Far	17/37 SW	One set - high angled forsets, wl. sted med-co. ssts	Shalwy Fm.
L166		17442 37272	N. of Port Ned	17/37 SW	Quaternary. bog oak - crin. debris in biotur. argill./silty ls.	Quaternary-
L167		17790 37579	E of Dunkineely	17/37 SW	Argill. ls., irreg. bded, bioturb, scarcely foss.	Cavan Sst.Mbr (St.J. Pt. Sdy L.s Fm.)
L168	50506	17786 37556	E of Dunkineely	17/37 SW	Calc. ssts. debris, irreg. bded, poss. humm. X-st.	Cavan Sst.Mbr (St.J. Pt. Sdy Ls Fm.)
L169		18383 38468	West of Lettermore	17/37 NW	X-st. pbly sst., tn co-med.-gr. sst beneath	Killin Sst. Mbr. (Bundoran Shale Fm.)
L170		17403 37218	Ballysaggart	17/37 SW	Tab. crin. ls. w. intbds of biotur. calc. sh. Siphonella ?, large brachs	Rinn Pt. Ls. Fm.
L171	50507	17228 37098	Cassan Sound	17/37 SW	Scarc. foss. ls., nodular surfaces, Zoophycus- little muddy content	Rinn Pt. Ls. Fm.
L172		17558 37442	Castle Port	17/37 SW	Gn sst, intbbed sst/siltst., tab sst, biotur. calc. siltst. w. foss.debris	Shalwy Fm.
L173	50735	17749 37619	Ballymagowan	17/37 SW	V. foss. argill. ls, gen. thin bded, crins, brachs, bryozoa	Bundoran Shale Fm.
L174	50508	17564 37753	Calhame	17/37 SW	F. calc. sst to co.gr. calc. siltst	Calhame Ls. Mbr. (Shalwy Fm.)
L175		17562 37748	Calhame	17/37 SW	Crin., silty ls.	Calhame Ls. Mbr. (Shalwy Fm.)
L176	50736	17566 37747	Calhame	17/37 SW	Silty ls. with some sparry ls.	Calhame Ls. Mbr. (Shalwy Fm.)
L177		17528 37983	N of Gilbertstown	17/37 SW	Clast supp. cong., pbly sst, sst., bipolar x-beds	Shalwy Fm.
L178		17492 37900	Gilbertstown Hill	17/37 SW	Trgh X-st. unsted sst/ gen. clast supp. cong. (vein qtz & qtzite)	Largysillagh Sst. Fm.
L179		17468 37889	Oily River	17/37 SW	Red co.-gr. ang.unsted feld. sst. & gen. clast supp. cong.	Oily River Cong. Fm.
L180		17499 37708	Milltown	17/37 SW	Unsted gy. sst. & pbly cong., non.calc. micac. siltst. within cong.	Largysillagh Sst. Fm.
L181	50509	17467 37694	Oily River	17/37 SW	Gy mudrk beneath var. bded cong. & co.-gr. ssts.	Oily River Cong. Fm.
L182		17546 37698	N of Darney	17/37 SW	Fault - calc. siltst./sst to N, non-calc. sst. to S	Calhame Ls. Mbr/Largysillagh Sst. Fm.
L183		17720 37708	Cashelfean	17/37 SW	Hard cryst. Ls.	St John's Point Sandy Limestone Fm.
L184	50510	17710 37681	Cashelfean	17/37 SW	Scrappy o/c of crin. ls.	St John's Point Sandy Limestone Fm.

CNB No.	TCD No.	GRID REF	AREA	MAP	GENERAL DESCRIPTION	FORMATION
L185	50511	17722 37708	Cashelfean	17/37 SW	Cryst. ls. over sst. oval stres in ls., ltd o/c	St John's Point Sandy Limestone Fm.
L186	50737	17746 37755	Bunlacky River	17/37 SW	6 m + silty ls/calc. shale, scarcely foss., 2 brachs	Bundoran Shale Formation
L187	50512	17756 37909	Drumrainy	17/37 SW	Thinly bded (20-25 cm) silty ls./calc. siltst., gen unfoss.	Bundoran Shale Formation
L188	50513	17749 37897	Lisavaddy	17/37 SW	3 m + hard silty ls. & calc. sitlst., gen unfoss., some brachs	Bundoran Shale Formation
L189	50738	17729 37871	Lisavaddy	17/37 SW	Qtzose sst. & crin cryst. ls, calc sst.	base of Bundoran Shale Formation ?
L190		17671 37800	Casheltown	17/37 SW	Calc. sst. beneath calc. siltst. & sitly ls.	Shalwy Fm. - marine pulse
L191	50514	17653 37854	Bloody Bridge	17/37 SW	Qtzose co./f. ssts, under var. sitly ls, calc. Siltst & sst.	Shalwy Fm. - marine pulse
		to 17660 37861				
L192	50739	17663 37867	Bloody Bridge area	17/37 SW	Qtzose sst. & gy calc. sst.	Largysill. Sst. Fm. or Shalwy Fm.
L193		17680 38054	Lough Muilt	17/37 SW	F. sst./siltst, w calc. sst/siltst (ostrds, gastrop.), ripples, burrs	Shalwy Fm. - marine pulse
L194	50515	17765 38051	Meenabrock	17/37 SW	Predom. calc. foss. crins. sst./siltst intbbed with non-calc. sst.	base of Bundoran Sh. Fm. ?
L195	50740	17768 38146	Ballywoges	17/37 SW	C/U seq. - burr. calc. sst., med/co.-gr. sst., clast supp. cong.	Shalwy Fm. or Bundoran Shale Fm.
L196	50516	17822 38052	E of Rahanlacky	17/37 SW	Calc. siltst./silty ls. with few brachs, bryozoa	Bundoran Shale Formation
L197	50741	17757 37918	Drumrainy	17/37 SW	Trilobite in silty foss. ls., also crins, brachs., horiz. burrs.	Bundoran Shale Formation
L198	50742	17818 38018	E of Meenabrock	17/37 NW	Silty ls. with few brachs, corals	Bundoran Shale Formation
L199	50517	17025 36994	St. John's Point	17/35NW,14/35NE	Poss. debris slide ? irreg. bding, in cryst ls, sandy ls, & calc. ssts.	Gullhuch Ls. Mbr (St.J.P.Sdy Ls.Fm.)
L200	50518	17451 37811	Cashelreagh Glebe	17/37 SW	U/C bndry/Fault semipelites to E, qztzite near road	Oily River Cong. Fm./Dalradian
L201		17457 37815	Cashelreagh Glebe	17/37 SW	Fault - Quartzite against clast. supp. cong.	Oily River Cong. Fm./Dalradian <i>Fault</i>
L202	50519	17417 37906	Quarry - Killybegs road	17/37 SW	Fault - Red cong. & co. pbly ssts. against pelites	Oily River Cong. Fm./Dalradian <i>Fault</i>
L203	50520	17433 37969	Drumaghy - Killybegs	17/37 SW	Clvd orange qztzite ?	Oily River Cong. Fm./Dalradian
L204	50743	17602 38016	S. of Loughmuilt	17/37 NW	Gen. well sted feld. ssts., burrs, roots, gy siltst. band beneath	Largysillagh Sst. Fm.
L205	50744	17610 38275	Corkerbeg - Ford	17/37 NW	Faulted - Clast supp. purp cong., clved qztzite, grn/orange ign. rock	Oily River Cong. Fm./Dalradian <i>Fault</i>
L206	50521	17660 38220	Whitehill	17/37 NW	Green igneous rock	Non- Carboniferous
L207		17687 38214	Rockhouse	17/37 NW	Gn/gy mudstone beneath cong.	Oily River Cong. Fm.
L208	50522	17690 38220	Rockhouse	17/37 NW	Fault - Several m's quartzite -	Oily River Cong. Fm./Dalradian <i>Fault</i>
L209	50523	17359 37186	Ballycroy	17/37 SW	Hard cryst., slightly sandy crin. ls.	Gullhuch Ls. Mbr (St.J.P.Sdy Ls.Fm.)
L210		17385 37207	Ballysaggart W	17/37 SW	<i>Fault</i> - E: hd argill ls & calc. sh. W: irreg bded argill & cryst foss. ls.	Rinn Pt. Ls. Fm.
L211		17317 37118	Herring Holes - B'croy	17/37 SW	Argill., bioturb., ls., v. foss.-	Rinn Pt. Ls. Fm.

CNB No.	TCD No.	GRID REF	AREA	MAP	GENERAL DESCRIPTION	FORMATION
L212	50745	17063 36976	St. John's Point	17/35NW,14/35NE	V. rich debris horiz. (inc., Syringo.) hard sndy ls.	Gullhuch Ls. Mbr (St.J.P.Sndy Ls.Fm.)
L213	50746	18392 37426	East of Ramp Hole	17/37 SW	Coal, ostrac in shales, downcutting sst chann. over calc. shales	Ramphole Sst Mbr (Bundoran Sh. Fm.)
L214	50747	17924 38167	Garrafada area	17/37 NW	2 m intbds 5 -20 cm, scarc. foss. calc. siltst & hard sandy ls.	Bundoran Shale Fm.
L215	50524	17916 38206	Garrafada area	17/37 NW	Calc. siltst./silty ls, under qtzose sst under silty/sandy foss. ls.	Bundoran Shale Fm.
L216	50525	17960 38231	N of Casheloogary	17/37 NW	Silty/sandy foss. ls	Bundoran Shale Fm.
L217	50526	17955 38257	Garrafada area	17/37 NW	Calc. sst./sandy ls w. crin. Debris, calc. ssts, well sted sst	Bundoran Shale Fm.
L218	50527	17994 38166	Casheloogary	17/37 NW	10 m + calc. siltst. & foss. silty foss. ls, burrs.	Bundoran Shale Fm.
L219	50748	17834 37562	East of Dunkineely	17/37 SW	Silty bioturbated crinoidal limestone	Bundoran Shale Fm.
L220	50749	c. 17918 37614	Mullanbane	17/37 NW	Argill. ls. & calc. shale	Bundoran Shale Fm.
L221	50750	17514 37903	S of Gilbertstown	17/37 NW	Foss. calcareous sandstone	Calhame Ls. Mbr.? (Shalwy Fm.)
L222	50751	17631 38195	Bridge End	17/37 NW	Faulted ? gn/red gen. unsted ssts, intbds of pbly. to m. supp. cong.	Largysillagh Sst Fm. or Shalwy Fm. ?
L223	50528	18065 38279	Altcor	17/37 NW	Calc. foss. sst./siltst. & silty foss. ls.	Bundoran Shale Fm.
L224		18000 38318	South of Lough Namanfin	17/37 NW	Qtzose sst. above calc. sst./siltst., poss. channel	Killin Sst. Mbr. (Bundoran Sh. Fm.) ?
L225	50752	17506 37338	Btwn. Kiln Port & Port Ned	17/37 SW	Calc. sst. beneath calc. crin. siltst. and argill. ls, co.-med.-gr. br. ssts.	Shalwy Fm.
L226	50529	17502 37333	Btwn. Kiln Port & Port Ned	17/37 SW	Qtzose ssts, impure ssts., pbly cong. with calc. matrix, argill. ls	Shalwy Fm.
L227	50530	17130 37069	Portnaman	17/37 SW	N. of fault, argill. ls.	Rinn Pt. Ls. Fm.
L228	50753	17133 37068	Portnaman	17/37 SW	S of fault, rubbly, biotur. argill. ls, Zoophycus traces,	Rinn Pt. Ls. Fm.
L229	50531	17227 37088	Cassan Sound -S. of pier	17/37 SW	Calc. sst./siltst., argill. ls.	Rabley Ls. Mbr (St. J. Pt.Sdy Ls.Fm.)
L230	50532	17230 37087	Cassan Sound- S. of fault	17/37 SW	Calc. sst./siltst., argill. ls. with echinoid fragments	Rabley Ls. Mbr (St. J. Pt.Sdy Ls.Fm.)
L231	50533	17230 37090	Cassan Sound	17/37 SW	Argill, bioturb ls.	Rinn Pt. Ls. Fm.
L232		19567 38728	North of Banagher Hill	17/37 NE	Gn/gy qtz rich sst. w. cong. horizons , clasts: pink qtz, pelite	Lough Eske Sst. Fm.
L233		19539 38584	Banagher Hill	17/37 NE	Calc. sst., pbly horizons, sandy ls., dolom. diagenesis	Lough Eske Sst.Fm (<i>orig.Basal Clastics</i>)
L234	50534	19520 38598	Banagher Hill	17/37 NE	Several cliffs exposing sandy ls, cleaner/foss. towards top	Clady Ls. Mbr.
L235		19508 38604	Banagher Hill	17/37 NE	Co.-gr., pbly sst. qtz/qtzite, co./med.-gr. ssts, x-st.	Banagher Sst. Fm.
L236		19504 38552	Banagher Hill	17/37 NE	Unsted pbly & co. to med. ssts.	Banagher Sst. Fm.
L237	50535	19260 38472	Altalow	17/37 NE	Foss. fiss. calc. shale (large brachs., crins., Caninia)	Bundoran Shale Fm.
L238	50536	19103 38515	Bridge Sruell/Eglis Rivers	17/37 NE	Tn bded calc. shale-brachs, crins + Caninia	Bundoran Shale Fm.
L239		19162 38829	Meenaguse area	17/37 NE	Psammite	Dalradian rocks

CNB No.	TCD No.	GRID REF	AREA	MAP	GENERAL DESCRIPTION	FORMATION
L240		19540 38635	Greenan	17/37 NE	Splay fault from NBF: calc. shales, shaly ls.	Lough Eske Sst. Fm. ?
L241		19445 38730	North of Eglis River	17/37 NE	Lenoid sst. (20 to 50 cm) overlain by clast supp. cong.	Lough Eske Sst. Fm.
L242	50537	19414 38722	North of Eglis River	17/37 NE	Several m's calc. sh, argill. ls., foss., poss. Ammonite ?	Clady Ls. Mbr.
L243		19394 38722	North of Eglis River	17/37 NE	Gy pbly to co.-gr. sst.	Lough Eske Sst. Fm.
L244	50538	19427 38707	Fault Eglis River (N)	17/37 NE	Fault - grey unsted pbly./co.-gr. sst.	Banagher Sst. Fm./Clady Ls. Mbr
L245	50539	19475 38679	North of Banagher Hill	17/37 NE	Var. clean to argill. ls.	Clady Ls. Mbr.
L246	50540	19245 38421	West of Altillow	17/37 NE	2.5 m waterfall exposure - clean and argill. ls. with crins.	Bundoran Shale Fm.
L247		19528 38384	Lackrom	17/37 NE	Fissile calc. siltst. and shale	Bundoran Shale Fm.
L248	50541	19254 38600	Eglis River	17/37 NE	N to S: co./med. sst., calc. sst/siltst., silty & sparry ls	Banagher Sst. Fm.- Bundoran Sh. Fm.
L249	50542	19210 38558	Eglis River	17/37 NE	2 m. silty ls., clean ls., foss.	Bundoran Shale Fm.
L250	50543	19185 38538	Eglis River	17/37 NE	Foss. silty ls.	Bundoran Shale Fm.
L251		19164 38518	Eglis River	17/37 NE	Calc. siltst.	Bundoran Shale Fm.
L252		19102 38534	River N of Eglis	17/37 NE	Calc. siltstone, large brachs.	Bundoran Shale Fm.
L253		19106 38550	River N of Eglis	17/37 NE	Calc. Siltst, silty sst., med., wl sted sst., pbly sst., cong	Bundoran Shale Fm. ?
L254	50544	19224 38619	Meenataggart	17/37 NE	Med.-gr. well sted sst., pbly sst. w. poss. bipolar X-st, irreg. bded	LoughEske Sst Fm or Banagher Sst.Fm?
L255	50545	18986 38473	Tullynaha	17/37 NE	Gen. clean ls., some silt and mica	Bundoran Shale Fm.
L256	50546	19084 38650	Owenboy	17/37 NE	Co.-gr. unsted sst., trough beds, f-med.-gr. sst, calc. shale	LoughEske Sst Fm or Banagher Sst.Fm?
L257	50547	18728 38697	Cloghmeen near NBF	17/37 NE	Clean feldspathic sst.	Lough Eske Sst. Fm. ?
L258	50548	18824 38668	Sallows	17/37 NE	Pink co.-gr., immat. sst. (granitic)	Lough Eske Sst. Fm. ?
L259	50549	19673 38436	Clady River -by road	17/37 NE	Silty to fine sandy limestone	Lough Eske Sst. Fm.
L260		19638 38435	Lodge Clady River	17/37 NE	Buff, med.-f.-gr. sst., bipolar beds, sligh. calc, Tertiary dykes	Lough Eske Sst. Fm.
L261	50550	19609 38431	Clady River	17/37 NE	Si./micac foss. ls. - crins.	Donegal Ls. Mbr.
L262		19598 38430	Clady River	17/37 NE	Sandy limestone	Donegal Ls. Mbr./Lgh Eske Sst. Fm. ?
L263	50551	19583 38429	Under bridge Clady R.	17/37 NE	Sandy limestone and calc sst.	Donegal Ls. Mbr.
L264		19836 38432	Garvagh - East of L Eske	17/37 NE	Green igneous rock	Non Carboniferous
265/301	50552	19686 38204	River Ekse Bridge	17/37 NE	Clean ls. and fiss. calc. shale	Donegal Ls. Mbr (Ballyshann. Ls. Fm.)
L266-1	50553	19634 38306	West Lough Eske shore	17/37 NE	Foss. argill. ls. and fiss. calc sh., crin. debris & corals	Donegal Ls. Mbr (Ballyshann. Ls. Fm.)
L266-2		19623 38292	West Lough Eske shore	17/37 NE	Foss. argill. ls. and fiss. calc sh., crin. debris & corals	Donegal Ls. Mbr (Ballyshann. Ls. Fm)

CNB No.	TCD No.	GRID REF	AREA	MAP	GENERAL DESCRIPTION	FORMATION
L266-3	50554	19623 38284	West Lough Eske shore	17/37 NE	Foss. argill. ls. and fiss. calc sh., crin. debris & corals	Donegal Ls. Mbr (Ballyshann. Ls. Fm)
L267		not located	S of Burn's Mt	17/37 NE	Micac, gen. non-calc. sst.	Banagher Sst. Fm.- lateral facies change
L268	50555	19543 38164	Harraghy's Bridge	17/37 NE	Micac. sandy limestone	Donegal Ls. Mbr (Ballyshann. Ls. Fm)
L269		19560 38265	L Eske Demesne	17/37 NE	Silty micaceous limestone	Donegal Ls. Mbr (Ballyshann.Ls. Fm)
L270		19485 38312	S Burns Mt	17/37 NE	Well sorted buff sst.	Banagher Sst. Fm.
L271		19468 38313	S Burns Mt	17/37 NE	Qtz. rich sst.	Banagher Sst. Fm.
L272	50556	19492 38318	S Burns Mt	17/37 NE	Pbly. sst. overlain by calc. sst., pbly calc. sst.	Banagher Sst. Fm.
L273		19521 38293	S Burns Mt	17/37 NE	Tn.bded., well sted. immat. sst. (mica, feld grains)	Banagher Sst. Fm.- lateral facies change
L274		19468 38304	S Burns Mt	17/37 NE	Well sted. buff feld. sst.	Banagher Sst. Fm.- lateral facies change
L275	50754	19450 38307	Stream S of Burns Mt	17/37 NE	Co.-gr. siltst., and sst. - plant fragments	Banagher Sst. Fm.- lateral facies change
L276		19439 38315	S Burns Mt	17/37 NE	Co.-gr. to pbly. sst., irreg. bded	Banagher Sst. Fm.
L277		19464 38281	S Burns Mt	17/37 NE	Tab. x-st. sst. overlain by co.-gr./pbly sst.+ pbly cong.	Banagher Sst. Fm.
L278		19415 38260	S Burns Mt	17/37 NE	Very co.-gr., qtzose sst., with qtzite clasts	Banagher Sst. Fm.
L279		19468 38341	S Burns Mt	17/37 NE	Tk bded. co./med.-gr. sst., thinner bded buff sst.	Banagher Sst. Fm.
L280		19498 38248	S Burns Mt	17/37 NE	Fault ? - calc. siltst. and argill. ls.	Banagher Sst. Fm./Donegal Ls. Mbr. ?
L281		19502 38256	Roadway S Burns Mt.	17/37 NE	Tab. bded., med-gr. sst, thin siltst. horizons	Banagher Sst. Fm.- lateral facies change
L282		19518 38254	Near w'fall S Burns Mt.	17/37 NE	Med.-gr. buff sst., over siltst. - (some calc.)	Banagher Sst. Fm.- lateral facies change
L283		19530 38200	Limestone Brook	17/37 NE	Argill. limestone	Donegal Ls. Mbr.
L284	50557	19546 38215	Stream S of Burns Mt.	17/37 NE	Co.-gr. sst + qtz pebbles	Banagher Sst. Fm.- lateral facies change
L285		19520 38252	Stream S of Burns Mt.	17/37 NE	Slightly calc. siltst.	Banagher Sst. Fm.- lateral facies change
L286		19532 38280	South of Burns Mt.	17/37 NE	Buff well sted., (mica, feld) sst.	Banagher Sst. Fm.- lateral facies change
L287		19514 38277	South of Burns Mt.	17/37 NE	Buff sst.	Banagher Sst. Fm.- lateral facies change
L288		19518 38380	Banagher Hill	17/37 NE	Matrix supp., cong and co.-gr. sst. (bipolar X-st. ?)	Banagher Sst. Fm.
L289		19551 38355	East of Burns Mt.	17/37 NE	Tn beds - med./co.-gr., buff, wl sted., micac. sst, gy silt & plants	Banagher Sst. Fm.- lateral facies change
L290	50558	19572 38333	Tawnvorgal	17/37 NE	Sandy ls. with argill. flasers (+ crins and gastrop.)	Clady Ls. Mbr.
L291		19677 38322	NW Pidgeon Lake	17/37 NE	Med.- gr., well sted, calc. sst. - laminations	Lough Eske Sst. Fm.
L292		19694 38428	L. Eske - Clady River	17/37 NE	Med.-gr calc. sst, si. ls, clean ls., med-co.-grained sst. (Syringo.)	Lough Eske Sst. Fm.
L293	50559	19583 38387	Friary - Lough Eske	17/37 NE	Calc., med.-gr., wl. sted. sst, sandy ls., clean ls., foss.	Lough Eske Sst. Fm. -Clady Ls. Mbr.

CNB No.	TCD No.	GRID REF	AREA	MAP	GENERAL DESCRIPTION	FORMATION
294-302	50560	19583 38371	Friary - Lough Eske	17/37 NE	Argill. ls., irreg. bded, muddy flasers	Clady Ls. Mbr.
L295		19590 38475	N of Clady Bridge	17/37 NE	Sandy foss. ls. with crins.	Lough Eske Sst. Fm. ?
L296		19610 38554	Greenan	17/37 NE	Calc. bipolar, X-st. sst.	Lough Eske Sst. Fm.
L297	50561	19532 38515	Banagher Hill East	17/37 NE	Clean ls. intbeded with argill. ls.	Clady Ls.Mbr (Ballyshannon Ls. Fm.)
L298	50562	19527 38490	Banagher Hill (E)	17/37 NE	Immat., unsted., co.-gr./pbly. sst. and cong.	Banagher Sst. Fm.
L299	50563	19606 38172	Lough Eske Demesne	17/37 NE	Hard sandy ls. with crins.	Donegal Ls. Mbr or Clady Ls. Mbr ?
L300	50564	19639 38221	Ross dhu - Lough Eske	17/37 NE	Variab. argill. ls., calc. siltst., sandy ls. + crins	Donegal Ls. Mbr (Ballyshann. Ls Fm.)
301-265	50565	19686 38204	Lough Eske Bridge	17/37 NE	Hd. micac. foss. silty ls.	Donegal Ls. Mbr (Ballyshann. Ls Fm.)
302-294	50566	19583 38371	Friary - Lough Eske	17/37 NE	Argill. ls. with black chert	Clady Ls. Mbr.
303	50567	19538 38418	Clady River	17/37 NE	Silty limestone	Clady Ls. Mbr (Ballyshannon Ls Fm.)
L304		19353 38470	West Banagher Hill	17/37 NE	Co.gr./pbly sst., trgh X-st, med.gr., well sted sst., poss. channel	Banagher Sst. Fm.
L305		19378 38256	S Burns Mt/Leagans Hill	17/37 NE	Faulted contact - btwn pbly. /co. sst. and calc. shales/silty ls.	Banagher Sst. Fm/Bundoran Shale Fm.
L306		19530 38505	Banagher Hill (E)	17/37 NE	Contact - co./pbly. sst. and clean foss. sandy ls.	Clady Ls. Mbr.-Banagher Sst. Fm.
L307		19526 38453	Banagher Hill (SE)	17/37 NE	Irreg. beds of co.-gr. pbly sst.	Banagher Sst. Fm.
L308		19529 38438	Banagher Hill (SE)	17/37 NE	Argill ls. + brachs., crins., hor. burrs., biotur.	Clady Ls. Mbr (Ballyshannon Ls.Fm.)
L309		19528 38414	Waterfall - Clady River	17/37 NE	Intbded. co/med. gr. sst. overlain by pbly. sst.	Banagher Sst. Fm.
L310	50755	19528 38516	Banagher Hill (E)	17/37 NE	Boundary between crin. limestone and co.-gr. to pbly sst	Clady Ls. Mbr.-Banagher Sst. Fm.

CNB No.	TCD No.	GRID REF	AREA	MAP	GENERAL DESCRIPTION	FORMATION
95-01	50568	17552 37513	Killaghtee	17/37SW	40 cm above base of sandy foss. ls. bed	Syringopora Bed (Shalwy Fm.)
95-02		17559 37445	Castle Port	17/37SW	2 m. beneath first calc. bed at Castle Port cliff	Largysillagh Sst. Fm.
95-03	50569	17558 37439	Castle Port	17/37SW	First calc. sst. bed at cliff	Syringopora Bed (Shalwy Fm.)
95-04		17544 37418	Rahan Far	17/37SW	Hd. crsyt. ls. with crin. debris, <i>Syringopora</i>	Shalwy Fm.
95-05	50570	17540 37413	Rahan Far	17/37SW	Sandy ls. bed at base and F/U, biotur., syringo, brachs, crin debris	Shalwy Fm.
95-06		17540 37410	Rahan Far	17/37SW	From X-st ssts south to cliff - sst, biotur. crin ls., argill. ls.	Shalwy Fm.
95-07	50571	17545 37402	Kiln Port	17/37SW	Argill. crin. ls., fault, ssts & siltst. with faulted block	Rinn Pt. Ls. Fm./Shalwy Fm.
95-08		17556 37404	Kiln Port	17/37SW	Argill. foss. limestone	Rinn Pt. Ls. Fm.
95-09		17561 37408	Kiln Port	17/37SW	Argill. foss. limestone	Rinn Pt. Ls. Fm.
95-10		17567 37402	Kiln Port/Riggyheugh	17/37SW	N. of fault at Kiln Port - Argill. foss. ls	Rinn Pt. Ls. Fm.
95-11	50572	17568 37398	Kiln Port/Riggyheugh	17/37SW	S. of fault - qtzose ssts. overlain by crin. ls.	Rinn Pt. Ls. Fm./Shalwy Fm.
95-12	50573	17565 37392	S. of Kiln Port	17/37SW	Crin.&argill. ls. & calc. Siltst, biotur., large brachs,	Rinn Pt. Ls. Fm.
95-13		17551 37377	Btwn. Kiln Port & Port Ned	17/37SW	N. of fault - Wave cut platform of argill. foss. ls.	Rinn Pt. Ls. Fm.
95-14		17546 37373	Btwn. Kiln Port & Port Ned	17/37SW	Argill. & crin ls, & calc. shales, foss- crins, brachs, solitary corals	Rinn Pt. Ls. Fm.
95-15	50574	17528 37354	Btwn. Kiln Port & Port Ned	17/37SW	Crin. argill. ls., biotur. ls., calc. siltst.	Rinn Pt. Ls. Fm.
95-16		17497 37325	Btwn. Kiln Port & Port Ned	17/37SW	Sst. & siltst. under bk. mudst., sst/siltst., calc. cong.	Shalwy Fm.
95-17		17485 37312	Btwn. Kiln Port & Port Ned	17/37SW	Fault - clastic seq. N of fault, crin. ls. S of fault	Rinn Pt. Ls. Fm./Shalwy Fm.
95-18	50575	17468 37299	Btwn. Kiln Port & Port Ned	17/37SW	Bioclastic ls. & argill. ls., thinly bded & fractured appearance	Rinn Pt. Ls. Fm.
95-19	50576	17452 37287	Btwn. Kiln Port & Port Ned	17/37SW	Hd. cryst. ls.	Rinn Pt. Ls. Fm.
95-20	50577	17414 37224	Ballysaggart School	17/37SW	Hd. cryst. crin. ls. with Caninia corals, calc. sh. interbeds	Rinn Pt. Ls. Fm.
95-21	50578	17151 37123	Rannys	17/37SW	Foss. calc. siltst, argill. ls. & hard cryst. ls., Foss (crins,caninioids)	Rinn Pt. Ls. Fm.
95-22	50579	17132 37125	Rannys Boatslip	17/37SW	Caninia, Michelinia corals on argill. ls surfaces	Rinn Pt. Ls. Fm.
95-23	50580	17102 37111	Pound Point	17/37SW	Hard crin. ls. intbbed (~70 cm) argill. ls., abund. Caninia & brachs	Rinn Pt. Ls. Fm.
95-24	50581	17117 37182	E of Lackadawson	17/37SW	Argill. ls. & hard. crin. ls.	Rinn Pt. Ls. Fm.
95-25 i		17131 37040	Rabley	17/37SW	E. of fault, rubb., gen. sandy to hard. crin. ls, argill. ls.	Rabley Ls. Mbr (St.J. Pt. Sdy Ls.Fm.)
95-25 ii	50582	17128 37039	Rabley	17/37SW	Btwn 2 faults, rubb., gen. sandy to hard. crin. ls, some argill. ls.	Rabley Ls. Mbr (St.J. Pt. Sdy Ls.Fm.)
95-25 iii		17125 37038	Rabley	17/37SW	W of wrench fault, rubb., gen. sandy to hard. crin. ls, argill. ls.	Rabley Ls. Mbr (St.J. Pt. Sdy Ls.Fm.)
95-26	50583	17097 17013	S of Drumroe	17/37SW	Rubbly tn bded, hard crin. ls, argill.ls, Syringopora, biotur.	Rabley Ls. Mbr (St.J. Pt. Sdy Ls.Fm.)

CNB No.	TCD No.	GRID REF	AREA	MAP	GENERAL DESCRIPTION	FORMATION
95-27 i		17068 36987	Lackaphuill	17/37NW,14/35NE	N of wrench F. rubb., clean foss., crin. sandy ls. & argill. ls..	Rabley Ls. Mbr (St.J. Pt. Sdy Ls.Fm.)
95-27ii	50584	17067 36982	Lackaphuill	17/37NW,14/35NE	S. of wrench fault, rubb. crin. sandy ls. and some argill. ls.	Rabley Ls. Mbr (St.J. Pt. Sdy Ls.Fm.)
28 i,ii,iii	50585	17055 36957	Dough Cove	17/37NW,14/35NE	NW of fault, thin bded, argill.to cryst. ls., rubbly, foss. biotur.	Rabley Ls. Mbr (St.J. Pt. Sdy Ls.Fm.)
28 iv, v		17059 36952	Dough Cove	17/37NW,14/35NE	SE of fault, tab. beds of sandy ls.	Gullhuch Ls. Mbr (St.J.P. Sdy Ls.Fm.)
95-29	50586	17047 36927	Gullhuch	17/37NW,14/35NE	Clean cryst. crin ls., v. jointed, 40 -80 cm beds	Gullhuch Ls. Mbr (St.J.P. Sdy Ls.Fm.)
95-30	50587	17062 36916	St. John's Pt. - inland	17/37NW,14/35NE	Cryst. crin. limestone	Gullhuch Ls. Mbr (St.J.P. Sdy Ls.Fm.)
95-31	50588	17096 36913	Stag Leap East	17/37NW,14/35NE	Cryst. crin. limestone	Gullhuch Ls. Mbr (St.J.P. Sdy Ls.Fm.)
95-32	50589	17169 36984	Lacknaman	17/37NW,14/35NE	Cryst crin. ls, beds (30-60 cm & less)	Gullhuch Ls. Mbr (St.J.P. Sdy Ls.Fm.)
95-33	50590	17184 36988	N. of Heelin Port	17/37NW,14/35NE	Hard cryst. ls, sandy ls., some crin. debris	Gullhuch Ls. Mbr (St.J.P. Sdy Ls.Fm.)
95-34	50591	17162 37000	Trabane South	17/37SW	Oolitic/sandy ls., crin. Ls- faulted zone, anticline visible	Gullhuch Ls. Mbr (St.J.P. Sdy Ls.Fm.)
95-35	50592	17165 37040	Trabane North	17/37SW	Non-rubbly, biotur., argill./silty ls.	Rinn Pt. Ls. Fm.
95-36	50593	17722 37708	Cashelfean	17/37SW	Cryst. ls over sst. oval stres in ls., ltd o/c	St. John's Pt. Sandy Ls. Fm.
95-37		17720 37708	Cashelfean	17/37SW	Qtzose sst., thin micac. siltst., qtzose sst., cryst. ls.	St. John's Pt. Sandy Ls. Fm.
95-38	50594	17710 37681	Cashelfean	17/37SW	Scrappy o/c of crin. ls.	St. John's Pt. Sandy Ls. Fm.
95-39 i	50595	17717 37554	Dunkineely Station	17/37SW	Crin. hard sandy to clean ls.	St. John's Pt. Sandy Ls. Fm.
95-39 ii		17712 37550	Dunkineely Station	17/37SW	Crin. hard sandy to clean ls.	St. John's Pt. Sandy Ls. Fm.
95-40	50596	17687 37441	Cavan	17/37SW	Tab. hard crin. ls	St. John's Pt. Sandy Ls. Fm.
95-41 i		17567 37297	Ballyederlan	17/37SW	N of Quay - Bioclastic crin. ls., sparry in places	Rinn Pt. Ls. Fm.
95-41 ii	50597	17560 37285	Ballyederlan	17/37SW	Silty brittle, fiss. ls	Rinn Pt. Ls. Fm.
95-41 iii		17562 37281	Ballyederlan	17/37SW	Hard compact ls.	Rinn Pt. Ls. Fm.
95-41 iv		17562 37278	Ballyederlan	17/37SW	Silty brittle, fiss. ls	Rinn Pt. Ls. Fm.
95-42		17543 37256	Ballyederlan SE	17/37SW	10 -30 cm bded argill., biotur. crin. ls	Rinn Pt. Ls. Fm.
95-43	50598	17494 37211	Stranaher	17/37SW	Gentle anticline, argill., biotur. bioclastic ls., >60 % debris.	Rinn Pt. Ls. Fm.
95-44 i	50599	17471 37184	Ballysaggart - N of pier	17/37SW	20-30 cm reg. bded, v. foss., crin. argill. ls	Rinn Pt. Ls. Fm.
95-44 ii		17470 37180	Ballysaggart - S of pier	17/37SW	Bioturb. (horiz. & Zoophy.), gen. less foss. debris in argill. ls.	Rinn Pt. Ls. Fm.
95-44 iii		17468 37177	Ballysaggart - S of pier	17/37SW	Bioturb. (horiz. & Zoophy.), gen. less foss. debris in argill. ls.	Rinn Pt. Ls. Fm.
95-44 iv, v		17445 37168	E of Ackle Back	17/37SW	Less foss., more shaly, similar bedding style to Kiln Port area	Rinn Pt. Ls. Fm.
95-45 i, ii		17415 37160	Ackle Back	17/37SW	Fault - crin. bioclastic rich argill. ls.	Rinn Pt. Ls. Fm.

CNB No.	TCD No.	GRID REF	AREA	MAP	GENERAL DESCRIPTION	FORMATION
95-45 iii	50600	17412 37156	Ackle Back	17/37SW	Crin debris in cryst. ls. on lower block as at Stranaher	Rinn Pt. Ls. Fm.
95-46	50601	17749 37619	Dunkineely E Road	17/37SW	Argill. ls to calc. shale, crin, brachs., bryozoa	Bundoran Shale Fm.
95-47	50602	17587 37307	Ballyederlan North	17/37SW	Intbided argill. ls. (60cm -1m beds) , and thinner hard ls.	Rinn Pt. Ls. Fm.
95-48 i	50603	17632 37339	Menamny Port	17/37SW	Intbided fiss. argill. ls & hard. biotur foss. ls (crin), irreg. surfaces	Rinn Pt. Ls. Fm.
95-48 ii		17638 37339	Menamny Port	17/37SW	Intbided fiss. argill. ls & hard. biotur foss. ls (crin), irreg. surfaces	Rinn Pt. Ls. Fm.
95-49 i		17660 37354	Menamny NE	17/37SW	Fault - intbided fiss. argill. ls. & hard biotur. foss. Ls	Rinn Pt. Ls. Fm.
95-49 ii		17663 37355	Menamny NE	17/37SW	Fault - intbided fiss. argill. ls. & hard biotur. foss. Ls	Rinn Pt. Ls. Fm.
95-49 iii		17664 37358	Menamny NE	17/37SW	Fault - intbided fiss. argill. ls. & hard biotur. foss. Ls	Rinn Pt. Ls. Fm.
95-49 iv	50604	17667 37357	Menamny NE	17/37SW	Fault - intbided fiss. argill. ls. & hard biotur. foss. Ls	Rinn Pt. Ls. Fm.
95-50 i	50605	17697 37386	Cavan Boathouse	17/37SW	Faulted area- argill ls., v. foss. crin. debris horizons	Rinn Pt. Ls. Fm.
95-51 i	50606	17718 37402	Cavan Point	17/37SW	S of fault - bioturb. bioclastic ls. intbided with silty ls.	Rinn Pt. Ls. Fm.
95-51 ii	50607	17720 37405	Cavan Point	17/37SW	N of fault - tab. (30-80cm) intbds of calc. sst., silty ls., crin. ls.	Cavan Sst. Mbr (St. J.Pt Sdy Ls. Fm.)
95-52 i		17722 37410	W of Cavan Pt.	17/37SW	Interbedded calc. sst and argill. ls.	Cavan Sst. Mbr (St. J.Pt Sdy Ls. Fm.)
95-52 ii		17723 37417	S of Jetty - Cavan Pt.	17/37SW	Interbedded calc. sst and argill. ls.	Cavan Sst. Mbr (St. J.Pt Sdy Ls. Fm.)
95-53 i	50608	17735 37442	Cavan East	17/37SW	Interbedded 20 cm calc. sst. & biotur. foss. silty ls.	Cavan Sst. Mbr (St. J.Pt Sdy Ls. Fm.)
95-53 ii		17740 37445	Cavan East	17/37SW	Silty biotur. ls., tabular x-st. in ssts. further north	Cavan Sst. Mbr (St. J.Pt Sdy Ls. Fm.)
95-53 iii		17737 37449	Cavan East	17/37SW	Biotur. sitly ls & calc. sst.	Cavan Sst. Mbr (St. J.Pt Sdy Ls. Fm.)
95-54	50609	17749 37486	The Scar	17/37SW	Crin. argill. ls overlain by sitly, biotur., gen. non-foss. ls.	Cavan Sst. Mbr (St. J.Pt Sdy Ls. Fm.)
95-55	50610	17773 37534	Ballybodonnell E	17/37SW	Argill. biotur. ls.	Cavan Sst. Mbr (St. J.Pt Sdy Ls. Fm.)
95-56 i,ii	50611	17790 37579	Dunkineely Beach	17/37SW	Biotur. ls. with burrs., few fossils	Cavan Sst. Mbr (St. J.Pt Sdy Ls. Fm.)
95-57	50612	17674 37602	Dunkineely Village	17/37SW	Non-calc., med.-gr. sst. exposed in road due to road works	Shalwy Fm.
95-58	50613	67257558-67207533	Rinn Point - eastern end	14/37SE	Intbided med.-gr. sst. & siltst., small x-st, irreg. surface	Shalwy Fm.
95-59	50614	67257558-67207533	Rinn Point - eastern end	14/37SE	Tab. co.-gr./pbly bioturb. sst. with crin. debris, Syringopora	Shalwy Fm.
95-60	50615	67257558-67207533	Rinn Point - eastern end	14/37SE	Rubb., bioturb. clac. ssts w. burrs., biodebris, Syringopora	Shalwy Fm.
95-61	50616	67257558-67207533	Rinn Point - eastern end	14/37SE	Co.-gr. calc. siltst./f. ssts., bioturb. horiz.burrs., thin muddy flasers	Shalwy Fm.
95-62	50617	67257558-67207533	Rinn Point - eastern end	14/37SE	Biotur. calc. sst./silty ls., some co. grains, crins, muddy flasers	Shalwy Fm.
95-63	50618	67257558-67207533	Rinn Point - eastern end	14/37SE	Fine sandy ls., foss., numerous Syringopora, biotur.	Shalwy Fm.
95-64	50619	67257558-67207533	Rinn Point - western end	14/37SE	Hard sparry ls., v. little mud except betwn beds, ostracod in sample	Rinn Pt. Ls. Fm.

CNB No.	TCD No.	GRID REF	AREA	MAP	GENERAL DESCRIPTION	FORMATION
95-65		67257558-67207533	Rinn Point - western end	14/37SE	Hard sparry ls. with Syringopora	Rinn Pt. Ls. Fm.
95-66	50620	67257558-67207533	Rinn Point - western end	14/37SE	2 beds of compact ls., biotur., muddy horizons, Syringo.	Rinn Pt. Ls. Fm.
95-67		67257558-67207533	Rinn Point - western end	14/37SE	Compact argill. ls, biotur. large brachs cf. Kiln Port	Rinn Pt. Ls. Fm.
95-68	50621	67257558-67207533	Rinn Point - western end	14/37SE	Hummocky type argill. ls.	Rinn Pt. Ls. Fm.
95-69	50622	67257558-67207533	Rinn Point - western end	14/37SE	Hard crin. sparry ls.	Rinn Pt. Ls. Fm.
95-70	50623	16712 37552	West of Rinn Point	14/37SE	Argill. flasers in hard sparry ls., foss. debris	Rinn Pt. Ls. Fm.
95-71	50624	16712 37552	West of Rinn Point	14/37SE	Hard, rubbly, bioturb. ls., some argill, large brachs, caninoid, crins.	Rinn Pt. Ls. Fm.
95-72	50625	16708 37544	West of Rinn Point	14/37SE	Weathered argill. ls. with large brachs, crin. debris	Rinn Pt. Ls. Fm.
95-73	50626	16702 37553	West of Rinn Point	14/37SE	Fiss. argill./shaly ls.	Rinn Pt. Ls. Fm.
95-74	50627	16700 37552	West of Rinn Point	14/37SE	Fiss. Sh. & argill. biotur. ls., lge crin. stems, rich biodebris horiz.	Rinn Pt. Ls. Fm.
95-75	50628	16697 37548	West of Rinn Point	14/37SE	Fiss. argill./shaly ls. & 30-60 cm, argill. biotur. ls., Zoophycus	Rinn Pt. Ls. Fm.
95-76	50629	16694 37545	West of Rinn Point	14/37SE	Cyclical - 50 cm compact argill biotur. ls & 40 cm fiss. argill.	Rinn Pt. Ls. Fm.
95-77	50630	16689 37543	West of Rinn Point	14/37SE	Cliff - compact argill, biotur. ls.	Rinn Pt. Ls. Fm.
95-78	50631	16681 37537	West of Rinn Point	14/37SE	Intbided argill. fiss. ls & compact argill biotur. ls, nodules	Rinn Pt. Ls. Fm.
95-79	50632	16675 37537	West of Rinn Point	14/37SE	Argill. ls with zoophycus, brachs. some shaly ls lenses	Rinn Pt. Ls. Fm.
95-80	50633	16669 37535	West of Rinn Point	14/37SE	Intbided rubbly, biotur. sandy and shaly ls.	Rinn Pt. Ls. Fm.
95-81	50634	16663 37533	West of Rinn Point	14/37SE	V. rubbly, biotur. foss. argill. ls, hor & vert. burrs.)	Rinn Pt. Ls. Fm.
95-82	50635	16657 37533	West of Rinn Point	14/37SE	Hard compact biotur. argill. ls.	Rinn Pt. Ls. Fm.
95-83	50636	16663 37533	West of Rinn Point	14/37SE	Calc. ssts. and sandy ls.	Muckros Sst. Fm.
95-84	50637	16491 37450	Shalwy Point	14/37SE	Fiss. shaly ls. with 35 cm intbds of silty, biotur. ls.	Rinn Pt. Ls. Fm.
95-85	50638	16497 37449	Shalwy Point	14/37SE	Biotur., foss. (large brachs) muddy/silty ls., var. fiss & comapct	Rinn Pt. Ls. Fm.
95-86	50639	16505 37455	Shalwy Point	14/37SE	Compact hard sparry ls., brachs on surface	Rinn Pt. Ls. Fm.
95-87	50640	16504 37460	Shalwy Point	14/37SE	Intbided hard sparry ls and shaly fiss. ls.	Rinn Pt. Ls. Fm.
95-88	50641	16517 37470	Shalwy Point	14/37SE	Rubbly, fiss. biotur. argill/shaly ls. with large brachs & biodebris	Rinn Pt. Ls. Fm.
95-89		16521 37468	East of Shalwy Point	14/37SE	Intbided compact argill bioturb. ls & fiss. shaly ls.	Rinn Pt. Ls. Fm.
95-90		16528 37468	East of Shalwy Point	14/37SE	Intbided compact argill bioturb. ls & fiss. shaly ls.	Rinn Pt. Ls. Fm.
95-91	50642	16556 37472	East of Shalwy Point	14/37SE	Compt, bioturb. argill. ls., muddy flasers,	Rinn Pt. Ls. Fm.
95-92	50643	16560 37475	East of Shalwy Point	14/37SE	Thin bided compact biotur. ls. (large brachs.)	Rinn Pt. Ls. Fm.

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95-93	50644	16565 37478	East of Shalwy Point	14/37SE	Biotur. 50-70 cm beds of argill. ls, large brachs., Caninia	Rinn Pt. Ls. Fm.
95-94	50645	16570 37482	East of Shalwy Point	14/37SE	8 m + of var. bded, v. biotur. argill. ls., var. fiss & compact	Rinn Pt. Ls. Fm.
95-95	50646	16577 37486	East of Shalwy Point	14/37SE	1.2 m compact argill. ls, large hor. & vert. burrs.	Rinn Pt. Ls. Fm.
95-96		16585 37490	East of Shalwy Point	14/37SE	Micac. silty biotur. ls, brown	Muckros Sst. Fm.
96-01	50647	70286895-73046890	St. John's Point	17/35NW,14/35NE	Crin. sandy ls.	Gullhuch Ls. Mbr (St.J.Pt.Sdy Ls.Fm)
96-02	50648	70286895-73046890	St. John's Point	17/35NW,14/35NE	Calc. ssts., ~50 cm v. rich foss. debris horizon-brachs, crins, Syringo.	Gullhuch Ls. Mbr (St.J.Pt.Sdy Ls.Fm)
96-03	50649	70286895-73046890	St. John's Point	17/35NW,14/35NE	Hard gy., cryst to sandy ls. with crin debris	Gullhuch Ls. Mbr (St.J.Pt.Sdy Ls.Fm)
96-04	50650	70286895-73046890	St. John's Point	17/35NW,14/35NE	Hard gy., cryst to sandy ls. with crin debris	Gullhuch Ls. Mbr (St.J.Pt.Sdy Ls.Fm)
96-05	50651	70286895-73046890	St. John's Point	17/35NW,14/35NE	Tabular beds of sandy ls.	Gullhuch Ls. Mbr (St.J.Pt.Sdy Ls.Fm)
96-06	50652	70286895-73046890	St. John's Point	17/35NW,14/35NE	Irreg. beds, hummocky appear. sandy ls. w. 10-15 cm silty ls.	Gullhuch Ls. Mbr (St.J.Pt.Sdy Ls.Fm)
96-07	50653	70286895-73046890	St. John's Point	17/35NW,14/35NE	Gen. tab. sandy ls. with crin. debris	Gullhuch Ls. Mbr (St.J.Pt.Sdy Ls.Fm)
96-08	50654	70286895-73046890	St. John's Point	17/35NW,14/35NE	Gen. tab. sandy ls. with crin. debris	Gullhuch Ls. Mbr (St.J.Pt.Sdy Ls.Fm)
96-09	50655	70286895-73046890	St. John's Point	17/35NW,14/35NE	Calc. sst. & sandy ls., foss., stylolites, horiz burrows	Gullhuch Ls. Mbr (St.J.Pt.Sdy Ls.Fm)
96-10	50656	70286895-73046890	St. John's Point	17/35NW,14/35NE	Fo. cryst. sandy ls., intbeds of argill.ls/sh., large crin. fragment	Gullhuch Ls. Mbr (St.J.Pt.Sdy Ls.Fm)
96-11	50657	70286895-73046890	St. John's Point	17/35NW,14/35NE	Clean sandy oolitic ls. with crin. debris	Gullhuch Ls. Mbr (St.J.Pt.Sdy Ls.Fm)
96-12	50658	16528 37468	East of Shalwy Point	14/37 SE	W. of bioherm, Argill biotur. ls w. fiss. argill. ls intbeds, corals, crins	Rinn Pt. Ls. Fm.
96-13	50659	c. 17780 37558	East Dunkineely	17/37 SW	Med to coarse ssts., rotten crin. debris	Cavan Sst. Mbr (St. J.Pt Sdy Ls.Fm.)
96-14	50660	17563 37265	Ballyederlan	17/37 SW	Rich biodebris horiz., argill. ls. -brachs, crin, horiz. trace foss.	Rinn Pt. Ls. Fm.
96-15	50661	16531 37469	East of Shalwy Point	14/37 SE	Rinn Point Bioherm- ls. sample along bioherm bed	Rinn Pt. Ls. Fm.
96-16	50662	16531 37469	East of Shalwy Point	14/37 SE	Rinn Point Bioherm - ls sample above bioherm bed (along platform)	Rinn Pt. Ls. Fm.
96-17	50663	16531 37469	East of Shalwy Point	14/37 SE	Rinn Point Bioherm - ls sample beneath bioherm bed	Rinn Pt. Ls. Fm.
96-18	50664	18518 37502	Burn Foot - Doorin	17/37 SE	Silty micaceous, gen. fissile ls./calc. shale	Bundoran Shale Fm.
96-19		not collected	Holme		Fissile calc shale with crin. debris	Bundoran Shale Fm.
96-20		not collected	Holme		Argill, non-fiss. calc. ls.	Bundoran Shale Fm.
96-21	50665	18390 37423	Ramp Hole	17/37 SW	Pebbly, calc. sst. W. clasts of quartz, shale & solitary horn coral	RampHole Sst. Mbr.
96-22	50666	18335 37384	West of Portachurry	17/37 SW	Calc., micac. siltst. to shale with brachs	Bundoran Shale Fm.
96-23	50667	18319 37378	Long Lack	17/37 SW	Compact argill. ls. beds (3 -10 cm) within calc. shales	Bundoran Shale Fm.
96-24	50668	18302 37359	Long Lack area	17/37 SW	Compact argill. ls. beds (3 -10 cm) within calc. shales	Bundoran Shale Fm.

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96-25	50669	18279 37344	Murder Hole	17/37 SW	Compact argill. ls. beds (3 -10 cm) within calc. shales, brachs	Bundoran Shale Fm.
96-26	50670	18185 37297	Murles Point	17/37 SW	Compact argill. ls. beds (3 -10 cm) within calc. shales	Bundoran Shale Fm.
96-27	50671	18138 37296	Murles Point - White Hill	17/37 SW	Compt argill. ls. beds (3 -10 cm), calc. shales, burrs & debris	Bundoran Shale Fm.
96-28	50672	18111 37288	Doorin Point	17/37 SW	Compt argill. ls. beds (3 -10 cm), calc. sh., brachs, corals, bry.	Bundoran Shale Fm.
96-29		18105 37274	Doorin Point	17/37 SW	2cm coal horiz., foss. Debris- calc. Shales	Bundoran Shale Fm.
96-30	50673	18100 37272	Doorin Point	17/37 SW	First 40 cm thick compact argill. ls. beds , Zoophycus trace	Bundoran Shale Fm.
96-31	50674	18080 37268	Doorin Point	17/37 SW	First 40 cm thick compact argill. ls. beds , Zoophycus trace	Bundoran Shale Fm.
96-32	50675	17759 37671	North of Ballymagown	17/37 SW	Silty biotur. calc. shale w. horiz. burrs.,foss. & poss. plants ?	Bundoran Shale Fm.
96-33	50676	17742 37695	Stream S of Bunlacky W'fal	17/37 SW	Bioturb. calc. siltst. & silty ls., gastros, crin. debris, plants, roots	Bundoran Shale Fm.
96-34	50677	17753 37730	Bunlacky River	17/37 SW	Gen. thin bded calc. siltst. & silty ls., also var. bded ssts.	Bundoran Shale Fm.
96-35	50678	17787 37727	Bunlacky River	17/37 SW	5 cm beds of silty foss. ls.	Bundoran Shale Fm.
96-36	50679	17792 37717	Bunlacky River	17/37 SW	Small erosive channels within siltst., lamin beds calc. sst.	Bundoran Shale Fm.
96-37	50680	17039 36891	St. John's Point	17/35NW,14/35NE	Hard clean sandy ls with abundant crin debris	Gullhuch Ls. Mbr (St J.Pt.Sdy Ls.Fm)
96-38	50681	17139 36935	Knockintraw	17/37 SW	Hard clean sandy ls with crin debris	Gullhuch Ls. Mbr (St J.Pt.Sdy Ls.Fm)
96-39	50682	17233 37075	Cassan Sound - south	17/37 SW	Hard clean sandy ls, thin bded, very little argill. ls.	Rabley Ls. Mbr (St.J. Pt.Sdy Ls Fm)
96-40	50683	17233 37063	South of Cassan Sound	17/37 SW	Hard clean sandy oolitic ls.	Rabley Ls. Mbr (St.J. Pt.Sdy Ls Fm)
96-41	50684	17229 37055	South of Cassan Sound	17/37 SW	Fiss. sndy/silty ls., foss. debris, biotur., horiz. burrs.	Rinn Pt. Ls. Fm. ?
96-42		17175 37042	N of Trabane	17/37 SW	Biotur., silty ls.	Rinn Pt. Ls. Fm.
96-43	50685	17103 37108	Rannys/Pound Point	17/37 SW	Compact tabular beds of argill., biot. foss. ls., Caninia, brachs	Rinn Pt. Ls. Fm.
96-44	50686	17127 37070	Lackadawson/Portanvan	17/37 SW	Brittle, sand rich beds of ls., biotur., foss., horiz. burrs.	Rinn Pt. Ls. Fm.
96-45	50687	17116 37034	SW of Rabley Hill	17/37 SW	Along platform - 40 cm clean, hard, crin. ls.	Rabley Ls. Mbr (St.J. Pt.Sdy Ls Fm.)
96-46	50688	17505 37532	Killaghtee	17/37 SW	3-8 cm x-st, co. unsted, immat. pbly sst., schist & pk feld. clasts	Largysillagh Sst. Fm.
96-47		19134 37744	Rossylongan House	17/37 SE	Compt biotur.calc. siltst., argill. lens., crins, gastropods & brachs	Bundoran Shale Fm.
96-48	50689	18048 37669	Port Pier	17/37 SW	Fiss. calc. sh & siltst., biotur. some foss., thin compt ls.	Bundoran Shale Fm.
96-49		18101 37737	Port Pier	17/37 SW	Fiss. calc. sh & siltst., biotur. & thin compact argill. ls.	Bundoran Shale Fm.
96-50		18616 37931	Monghan's Quarry	17/37 SE	Coal and black mudst.	Mullaghmore Sst. Fm.
96-51		17720 37407	Cavan Port	17/37 SW	Fault - compact., biotur. argill. ls.	Rinn Pt. Ls. Fm.
96-52		17614 37331	Menamny/Ballyederlan	17/37 SW	Compact., biotur. argill. ls.	Rinn Pt. Ls. Fm.

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96-53	50690	18450 38153	W of Eanymore Bridge	17/37 NW	Fiss. tn. bded, biot. calc. siltst., shale	Bundoran Shale Fm.
96-54	50691	18499 38388	W'fall NW of Lettermore Sch	17/37 NW	Well sted micac. sst. + silty particles	Killin Sst. Mbr. (Bundoran Sh. Fm.)
96-55		19078 37683	Summerhill	17/37 SE	Tabular argillac. limestone	Bundoran Shale Fm.
96-56		19076 37676	Summerhill	17/37 SE	60 cm tabular clean ls.	Bundoran Shale Fm.
96-57	50692	19033 37637	Ball Hill	17/37 SE	40 cm tabular ls., lenoid towards south	Bundoran Shale Fm.
96-58	50693	19298 37853	Donegal Town	17/37 SE	Pbly., calc. crin. sandstone	Donegal LsMbr &/or Banagher Sst.Fm
96-59	50694	19300 37853	Donegal Town	17/37 SE	Tn. bded, calc. siltst. + pbles	Donegal Ls.Mbr &/or Banagher SstFm
96-60		18216 38005	NW of Bonny Glen	17/37 NW	Fiss. siltst., calc. sst., biotur. and crins	Bundoran Shale Fm.
96-61	50695	18213 39717	N of Inver Station	17/37 SW	Fiss. calc. siltst., crin. sandy ls.	Bundoran Shale Fm.
96-62	50696	18273 37964	Bonny Glen	17/37 SW	Fiss. biot. calc. silt., sandy ls., calc. sst.	Bundoran Shale Fm.
96-63	50697	18285 38008	Cranny Upper	17/37 NW	Biot. calc. siltst., foss. sandy ls.	Bundoran Shale Fm.
96-64	50756	19378 37911	River Eske Milltown	17/37 NE	Biotur., fiss. clac. siltst. and argill. ls.	Donegal Ls. Mbr.
96-65	50698	19576 38109	Foxes Hole	17/37 NE	Generally clean crinoidal ls.	Clady ls. Mbr ? or Donegal Ls. Mbr.
96-66	50757	19588 38116	Foxes Hole	17/37 NE	Generally clean crinoidal ls.	Donegal Ls. Mbr.
96-67	50699	19650 38127	Clarlougheask	17/37 NE	Foss. silty ls.	Donegal Ls. Mbr.
96-68	50700	18212 38232	Carraduffy	17/37 NW	Foss. silty ls., fiss. in places	Bundoran Shale Fm.
96-69	50701	18322 38311	Killin Hill (E)	17/37 NW	Foss. calc. siltst., silty ls.	Bundoran Shale Fm.
96-70		19515 38604	Banagher Hill	17/37 NE	Co. siltst. and plant material	Banagher Sst. Fm.
96-71	50702	18749 37747	Mountcharles Village	17/37 SE	Fault ? - black shales (disrupted ?)	Bundoran Shale Fm.
96-72		18621 37761	Mountcharles Qy west	17/37 SE	Plant rich, tabular sst.	Mullaghmore Sst. Fm.
96-73	50703	18527 37593	Dromore Stream	17/37 SE	Variable arg. ls, calc. sst, co. sst.	Bundoran Sh Fm-Mullaghmore Sst Fm
96-74	50758	18596 38035	E of Drumbaran School	17/37 NE	Pbly lenses within sst., vert. burrs.	Mullaghmore Sst. Fm.
96-75		19312 38136	Ogherbeg	17/37 NE	Fiss. calc. siltst.+ clean limestone	Donegal Ls. Mbr. ?
96-76	50704	18735 38225	Eanymore Water	17/37 NE	Calc. siltst., f. to med sst., sandy lenses w. calc. siltst.	Killin Sst. Mbr. (Doorin Sh. Fm.)
96-77		18655 38204	Drumgraa bridge area	17/37 NE	Sandy limestone	Bundoran Shale Fm.
96-78	50705	18783 38272	Letterbarra Church/Fas	17/37 NE	Loose but local, well sted., buff, feld. sst.	Killin Sst. Mbr. (Doorin Sh. Fm.)
96-79	50706	19287 38609	Meenataggart stream	17/37 NE	as 96-89 Pbly. co. sst., ls + pbles, calc sst	Grad:Banagher Sst.Fm-Bundor.Sh Fm.
96-80	50707	19191 37815	Revlin Strand	17/37 SE	Clean ls. and fiss. argill. ls.	Donegal Ls. Mbr.

CNB No.	TCD No.	GRID REF	AREA	MAP	GENERAL DESCRIPTION	FORMATION
96-81	50708	19279 37844	Donegal Town	17/37 SE	Hard argill. ls. fiss. calc. siltst. and calc. sh.	Donegal Ls. Mbr.
96-82	50709	19163 37822	Rossylongan Strand	17/37 SE	Hard argill. ls. W. calcite veins, close to stratigraphical boundary	Donegal Ls.Mbr or Bundor.Shale Fm?
96-83	50710	c. 17790 37579	E of Dunkineely	17/37 SW	Tabular bded argill. ls.	Bundoran Shale Fm.
96-84	50711	18039 38412	Lough Namanfin	17/37 NW	Well sted. qztose sst. with pbles.	Killin Sst. Mbr. (Bundoran Sh. Fm.)
96-85	50712	18350 37385	Portacurry	17/37 SW	Calc. Siltst,sst, calc. sh./sh. ls. W. ostrds, burrs., biotur.	RampHole Sst.Mbr (Bundoran Sh.Fm
96-86		18332 38220	Ballymacahil Stream	17/37 NW	Calc. foss. shales, some foss.	Bundoran Shale Fm.
96-87	50713	18510 38375	N of Lettermore School	17/37 NE	Tn. bded., med.-gr., well sted sst.	Killin Sst. Mbr. (Doorin Sh. Fm.)
96-88	50714	19353 38470	West Banagher	17/37 NE	Co. pbly sst, channel cut over tn wl bded (2 cm) med. sst.	Banagher Sst. Fm.
96-89	50715	19287 38609	Meenataggart Stream	17/37 NE	as 96-79 Foss. sandy ls. (crins, brachs) w. qtz pbles., Michelinia	Banagher Sst. Fm.to Bundoran Sh. Fm
96-90		18725 38410	Oughtadoony Ford	17/37 NE	Flaggy well sted. sst.	Killin Sst. Mbr. (Bundoran Sh. Fm.)
96-91	50716	18748 38538	Eanybeg Water	17/37 NE	Co.-gr., feld. immat. X-st. sst.	Killin Sst. Mbr. (Bundoran Sh. Fm.)
96-92	50717	18516 38032	S of Drumbaran School	17/37 NE	Fine-gr., calc. well sted sst.	Mullaghmore Sst. Fm.
96-93		18671 37939	Upr. Drumkeelan Quarry	17/37 SE	Grey siltst. and fine sst.	Mullaghmore Sst. Fm.
96-94		19576 38429	Clady River 20m w.of bridge	17/37 NE	Argill. ls.	Lough Eske Sst. Fm.
96-95		19081 38645	Owenboy River	17/37 NE	F.-gr. sst/co.-gr. siltst. w. plant fragmts, silty ls. W. crin. debris	Lough Eske Sst. Fm. ?
96-96	50718	17505 37336	Kiln Port/Port Ned	17/37 SW	Fusain & gastropod samples with sst., calc. sst/siltst. intbds	Shalwy Fm.
96-97	50719	18623 37763	Mountcharles West Qy	17/37 SE	Well sted, feld. sst.	Mullaghmore Sst. Fm.
97-01	50759	18085 37305	Doorin Point	17/37 SW	Calc. shale	Bundoran Shale Fm.
97-02	50760	18088 37306	Doorin Point	17/37 SW	Calc. shale	Bundoran Shale Fm.
97-03	50761	19133 37787	Rossylongan West	17/37 SE	Argillaceous limestone	Bundoran Shale Fm.
97-04	50720	19164 37825	Rossylongan	17/37 SE	Argillaceous limestone	Donegal Ls. Mbr.

SAMPLE	UNIT	GRID REF	WEIGHT KG	CONODONTS	ADDITIONAL GRAINS
L153	<i>Syringopora</i> Bed	17552 37513	1.4	<i>Clydognathus</i> or <i>Mestognathus</i> - Pa element, juvenile stage	
L184	St. John's Pt. Sandy Ls. Fm.	17710 37681	1	None	Fish teeth
L194 -1	Bundoran Shale Fm.	17765 38051	1	None	Plant fragments
L194 - 3i	Bundoran Shale Fm.	17765 38051	0.8	None	Scolecodonts
L209	Gullhuch Sandy Ls. Mbr.	17359 37186	1	<i>Mestognathus beckmanni</i> , <i>Apatognathus</i>	Scolecodonts
L229	Rabley Ls. Mbr.	17227 37088	1.1	None	
L230	Rabley Ls. Mbr.	17230 37087	1.5	Indeterminate fragment	
L231	Rinn Point Ls. Fm.	17230 37090	0.4	none	
L290	Clady Ls. Mbr.	19572 38333	2	Indeterminate fragment of <i>Apatognathus</i> or <i>Synclydognathus</i>	Ostracods, fish scale & tooth, trilobite pygidium
L297	Clady Ls. Mbr.	19532 38515	2.25	<i>Gnathodus homopunctatus</i> (well preserved)	Fish scales & teeth, scolecodonts,
				<i>Mestognathus beckmanni</i> (juvenile & adult stages)	
L297 - 2	Clady Ls. Mbr.	19532 38515		<i>Gnathodus texanus</i>	Fish scale, ostracod
L302	Clady Ls. Mbr.	19583 38371	5	None	
L310	Clady Ls. Mbr.	19528 38516	1.25	None	Scolecodonts, pyrite
96-03	Gullhuch Sandy Ls. Mbr.	17029 36895	2	None	Scolecodont
96-15	Rinn Point Ls. Fm.	16531 37469	1.7	Indeterminate fragment - ramiform element	
96-49	Bundoran Shale Fm.	18101 37737	2.8	None	
96-51	Rinn Point Ls. Fm.	17720 37407	2.3	None	Fish scales & tooth
96-65	Donegal Ls. Mbr.	19576 38109	1.65	None	
96-81	Donegal Ls. Mbr.	19279 37844	1.5	None	
97-04	Bundoran Shale Fm.	19164 37825	1.5	None	
Ballyederlan	Rinn Point Ls. Fm.	17563 37265	1.5	<i>Polygnathus bischoffi</i> - Pa element	Crinoid ossicles, fish scales, teeth, ostracod
				<i>Mestognathus beckmanni</i>	

LOCALITY	GRID REF	FORMATION	AREA	RESULT
L181	17467 37694	Oily River Cong. Fm	Oily River	Barren
L193(i)	17680 38054	Shalwy Formation	Garrafada	Poor
L193(ii)	17680 38054	Shalwy Formation	Garrafada	Barren
L193(iii)	17680 38054	Shalwy Formation	Garrafada	Poor
L193(iv)	17680 38054	Shalwy Formation	Garrafada	Poor
L115	17543 37514	Largysillagh Sst. Fm.	McSwyne's Bay	Poor
L117	17526 37526	Largysillagh Sst. Fm.	McSwyne's Bay	Poor
L130	17397 37604	Oily River Cong. Fm	Ballyloughan	Barren
L133	16465 37463	Shalwy Formation	Shalwy	Poor
L208	17690 38220	Unknown mudrock	Croagh Lough area	Barren
L224	18000 38316	Shalwy Formation	Sth Lough Namanfin	Poor
95-02	17559 37445	Largysillagh Sst. Fm.	Castle Port	Poor
95-16	17497 37325	Shalwy Formation	West of Ballyederlan	Poor

EXPLANATION TO THIN-SECTION DESCRIPTIONS – APPENDIX 4

Refer to Appendix 1 for locality, grid references, and stratigraphical position of each thin-section.

The foraminifers are arranged (in italics) in the upper part of each sheet. Other grain types are arranged towards the middle part of each sheet. In the lower part of each sheet, the thin-sections are classified (where possible) under the schemes constructed by Folk (1962 - Biosparite, Biomicrite etc.) and Dunham (1962 - Packstone, Wackestone etc.). In thin-sections where this classification is not appropriate, alternative descriptions (siltstone, mudstone, calcareous sandstone etc.) are allocated.

The contents within each sheet are not standard. Due to the variability of thin-sections and the limited page size, the grain types and subsequent descriptions were chosen to reflect the contents of the thin-sections within that sheet.

X	Present
XX	Present in large amounts
x	Subordinate presence
?	Presence is questioned
co.	Coarse-grained quartz
ang.	Angular quartz

THESIS NO.	153i	153iia	153iii	165i	165ii	165iii	168	171	171b
CONTENTS									
<i>Brunsia</i>									X
<i>Dainella</i>								?	
<i>Earlandia</i>								X	X
<i>Endothyra</i>								X	X
<i>Eostaffella</i>								X	X
<i>Eoparastaffella</i>									X
<i>Forschia</i>									X
<i>Glomodiscus</i>									
<i>Glomospiranella</i>								X	X
<i>Mediocris</i>									
<i>Omphalotis</i>									
<i>Palaeospiroplectam.</i>									
<i>Tetrataxis</i>								X	
<i>Pseudoammodiscus</i>									X
<i>Uralodiscus</i>									
<i>Pseudotaxis</i>									
<i>Viseidiscus</i>									
Bivalve	X		X			X			X
Brachiopod	X		X		X	X	X	X	X
Bryozoa	X	X	X			X	X		X
Calcsphere			X	X				X	X
Coral								X	
Echinoderm	X	X	X	X	X	Xx	X	X	X
Gastropod	X							X	X
<i>Girvanella</i>			X						
<i>Koninckopora</i>								X	
<i>Globochaete</i>									
Moravamminid	X							X	X
Salebrid						X			
Aoujgaliid									
<i>Mendipsia</i>								X	X
Ostracod			X			X		X	X
Peloid		X	X					X	
Ooids									
Bioturbated					X				
Sponge spicule									
Shell debris	X	X	X	X	X	X	X	X	X
Quartz grains	XX co.	XX co.	X	X	X	X	X	X	
Sparite	X	X	X	x	x	x	x	x	X
Micrite								X	X
Fe oxide	X	X	X						
Argillaceous	X	X	X	X	X	X	X	X	X
Biomicrite								X	X
Biosparite									
Pelsparite									
Oosparite									
Oobiosparite									
Oobiopelsparite									
Wackestone								X	
Packstone									X
Intraclasts		X							
Mudstone				x	x				
Siltstone	Calc Sst	Calc Sst	Sandy ls	X	X	X	X	x	x

Information on thin-section constituents within the carbonates of the Donegal Basin

THESIS NO.	171iia	174	184	185ii	187	187ii	188	191iii	194i
CONTENTS									
<i>Archaeodiscus</i>					X				
<i>Brunsia</i>	X		X	X	X	X	X		X
<i>Dainella</i>	?		X	X					?
<i>Earlandia</i>	X		X	X	X	X			
<i>Endothyra</i>	X		X	X	X	X	X		X
<i>Eostaffella</i>	X		X	X			X		X
<i>Eoparastaffella</i>			?						
<i>Forschia</i>					X	X			X
<i>Glomodiscus</i>									
<i>Glomospiranella</i>			X	X	X				
<i>Mediocris</i>			X	X					
<i>Omphalotis</i>									
<i>Urbanella</i>			X						
<i>Tetrataxis</i>	X		X	X	X				X
<i>Pseudoammodiscus</i>			X	X	X	X			
<i>Uralodiscus</i>									
<i>Pseudotaxis</i>			X	X	X				
<i>Viseidiscus</i>					?				
Bivalve			X	X	X		X		X
Brachiopod	X	X	X	X			X	X	X
Bryozoa		X	X	X	X		X		X
Calcsphere	X		X		X	X			X
Coral									
Echinoderm	X	X	X	X	X		X	X	X
Gastropod									
<i>Girvanella</i>				X	X				
<i>Koninckopora</i>	X		X	X	X				X
<i>Globochaete</i>			X						X
Moravamminid	X		X	X	Xx	X	X	X	X
Salebrid			X	X	X		X		
Aoujgaliid									
<i>Mendipsia</i>	X					X			
Ostracod	X		X	X		X	X		
Peloid			X						X
Ooids									
Intraclasts	X		X	X					X
Sponge spicule									
Shell debris	X	X	X	X	X	X	X	X	X
Quartz grains	X	X				X	X	X	XX
Sparite	x	x	X	X	X		x		x
Micrite	X				x	X	X		
Dolomite					x				x
Argillaceous	X	X				X	X	X	X
Biomicrite	X					X	X		
Biosparite			X	X	X				
Pelsparite									
Oosparite									
Oobiosparite									
Oobiopelsparite									
Wackestone	X					X	X		
Packstone			X	X	X				
Grainstone									
Mudstone		x				x	x		
Siltstone	x	X	clean ls.			x	x	X	Sst-Sandy ls

Information on thin-section constituents within the carbonates of the Donegal Basin

THESIS NO.	194iii	194iv	194v	196	199ii	209a	209	215i	215iiia
CONTENTS									
<i>Archaediscus</i>								X	
<i>Brunsia</i>	X	X	X		X	X			X
<i>Eblania</i>			X						
<i>Earlandia</i>	X	X	X	X	X	X	X	X	X
<i>Endothyra</i>	X	X	X		X	X	X	X	X
<i>Eostaffella</i>	X	X	X		X	X	X		X
<i>Eoparastaffella</i>		X	?						
<i>Forschia</i>			X				X		X
<i>Glomodiscus</i>									
<i>Glomospiranella</i>		X	X		X	X			
<i>Mediocris</i>	?	?	?		?				
<i>Omphalotis</i>									
<i>Palaeospiroplectam.</i>									
<i>Tetrataxis</i>					?	X	X	X	
<i>Pseudoammodiscus</i>	X		X		?			X	X
<i>Uralodiscus</i>									
<i>Pseudotaxis</i>									
<i>Viseidiscus</i>	?	?	?						
Bivalve	X	X	X	X		X	X	X	X
Brachiopod	X	X	X	X		X	X		
Bryozoa		X		X	X		X	X	
Calcsphere	X			X				X	
Aoujgaliid							X		
Echinoderm	X	X	X	X	X	X	X	X	X
Gastropod									
<i>Girvanella</i>		X			X				
<i>Koninckopora</i>		X	X		X			X	X
<i>Globochaete</i>									
Moravamminid	X	X	X	X		Xx	X		X
Salebrid									
Intraclasts					X				
<i>Mendipsia</i>						X	X		
Ostracod	X	X			X			X	X
Peloid					X	X	X		
Ooids									
Bioturbated									X
Sponge spicule				X					
Shell debris		X		X		X			
Quartz grains	X	X	X ang.	X		x	x	X	X
Sparite	x	X	x	X	X	X	X	x	x
Micrite		X	X		x	X	X		
Dolomite									
Argillaceous	X	X	X	X		X	X		
Biomicrite		X	X			X	X		
Biosparite					X				
Pelsparite									
Oosparite									
Oobiosparite									
Oobiopelsparite									
Wackestone		X			X				
Packstone						X	X		
Grainstone									
Mudstone				X					
Siltstone	X	X	X	X				X	X

Information on thin-section constituents within the carbonates of the Donegal Basin

THESIS NO.	215iib	215iii	216	217iia	217iib	218	223	226ii	227iia
CONTENTS									
<i>Archaeodiscus</i>	X		X			X	X		
<i>Brunsia</i>		X	?		?				
<i>Dainella</i>				X	X				
<i>Earlandia</i>	X		X	X	X	X		X	
<i>Endothyra</i>	X	X	X	X	X	X	X	X	X
<i>Eostaffella</i>	X			X	X	X			
<i>Eoparastaffella</i>					X	X			
<i>Forschia</i>	X	X							
<i>Glomodiscus</i>	?		X			X			
<i>Glomospiranella</i>		?							
<i>Mediocris</i>									
<i>Omphalotis</i>									
<i>Palaeospiroplectam.</i>									
<i>Tetrataxis</i>			X			X			
<i>Pseudoammodiscus</i>							X		
<i>Uralodiscus</i>	X					X			
<i>Pseudotaxis</i>									
<i>Viseidiscus</i>	?								
Bivalve	X		X	X	X		X	X	
Brachiopod	X		X		X	X	X	X	X
Bryozoa	X	X	X	X		X	X	X	
Calcsphere	X		X	X	X			X	X
Coral									
Echinoderm	X	X	X	X	X	X	X	Xx	X
Gastropod								X	
<i>Girvanella</i>						X		X	
<i>Koninckopora</i>	X		X	X		X			
<i>Globochaete</i>									
Moravamminid			X	X	X	X			Xx
Salebrid									
Aoujgaliid									
<i>Mendipsia</i>			X				X		
Ostracod	X	X		X	X	X	X		X
Peloid									
Ooids									
Conodont									
Sponge spicule					X			X	
Shell debris		X		X					
Quartz grains	X	X	X	x	X	X	X	x	x
Sparite	x	x	X	X	X	X	x		X
Micrite			x	X	X	X		X	X
Dolomite					X				
Argillaceous	X	X		X	X	X	X	X	X
Biomicrite				X	X	X		X	X
Biosparite			X						
Pelsparite									
Oosparite									
Oobiosparite									
Oobiopelsparite									
Wackestone	x			X					
Packstone			X	x				X	X
Grainstone									
Mudstone			x				x		
Siltstone	X	X	x			X	X		

Information on thin-section constituents within the carbonates of the Donegal Basin

THESIS NO.	229	229ii	229 b	230	234i	234ii	234iii	237ii	238
CONTENTS									
<i>Archaeodiscus</i>								X	X
<i>Brunsia</i>	X	X	X			X	X	X	X
<i>Dainella</i>		X	X			?		X	
<i>Earlandia</i>	X	X	X	X		X	X	X	X
<i>Endothyra</i>	X	X	X	X		X	X	X	X
<i>Eostaffella</i>	X	X	X	X		X	X	X	
<i>Eoparastaffella</i>		X				X		X	
<i>Forschia</i>		X	X				X	X	X
<i>Glomodiscus</i>								X	X
<i>Glomospiranella</i>		X							
<i>Mediocris</i>								X	
<i>Omphalotis</i>									
<i>Palaeospiroplectam.</i>									
<i>Tetrataxis</i>	X	X						X	X
<i>Pseudoammodiscus</i>	X	X	X					X	
<i>Uralodiscus</i>									X
<i>Pseudotaxis</i>									
<i>Viseidiscus</i>								?	
Bivalve	X		X	X	X	X	X	X	X
Brachiopod	X	X	X	X		X	X	X	X
Bryozoa	X	X	X	X		X	X	X	X
Calcsphere	X		X	X			X	X	X
Coral									
Echinoderm	Xx	X	X	X	X	X	X	X	X
Gastropod									
<i>Girvanella</i>			X						
<i>Koninckopora</i>		X				X	X	X	
<i>Globochaete</i>									
Moravamminid	X			X			X	X	X
Salebrid	X		X			X			
Aoujgaliid									
<i>Mendipsia</i>	X		X						
Ostracod		X		X		X			X
Peloid							Xx		
Ooids									
Conodont									
Sponge spicule				X					
Shell debris	X	X		X		X		X	
Quartz grains	x		x	X	X	x	x	X	X
Sparite	x	X	X	x	x	X	X	X	X
Micrite	X	x	X			X	X	X	X
Dolomite	x						x		
Argillaceous	X			X				X	
Biomicrite	X					X		X	X
Biosparite		X	X						
Pelsparite									
Oosparite									
Oobiosparite									
Pelbiomicrite							X		
Wackestone						X		X	X
Packstone	X		X				X	x	x
Grainstone									
Mudstone				X					
Siltstone					Sst			X	

Information on thin-section constituents within the carbonates of the Donegal Basin

THESIS NO.	242	244	245	246ii	248	249	250	255i	255ii
CONTENTS									
<i>Archaeodiscus</i>					X	X	X	X	X
<i>Brunsia</i>	X	X	X		X	X		X	
<i>Dainella</i>	X				X			?	
<i>Earlandia</i>	X	X	X		X	X		X	X
<i>Endothyra</i>	X	X	X		X	X	X	X	X
<i>Eostaffella</i>	X	X	X		X		X	X	
<i>Eoparastaffella</i>					X				
<i>Forschia</i>	X		X		X		X	X	X
<i>Glomodiscus</i>					?		X	X	X
<i>Glomospiranella</i>			X						X
<i>Mediocris</i>					X				
<i>Omphalotis</i>									
<i>Palaeospiroplectam.</i>					X				
<i>Tetrataxis</i>		X			X		X	X	
<i>Pseudoammodiscus</i>	X	X	X		X				X
<i>Uralodiscus</i>					?				
<i>Pseudotaxis</i>							?		X
<i>Viseidiscus</i>		?			?				
Bivalve	X		X		X	X	X	X	X
Brachiopod	X	X	X	X	X		X	X	X
Bryozoa	X	X	X		X				
Calcisphere	X	X	X		X				
Coral				X		X			
Echinoderm	X	X	X	X	X	X	X	X	X
Gastropod		X				X			
<i>Girvanella</i>									
<i>Koninckopora</i>		X	X		X			X	
<i>Globochaete</i>									
Moravamminid	X	X	X		X	X	X	X	X
Salebrid									
Intraclast	X	X							
<i>Mendipsia</i>	X		X		X				
Ostracod	X	X	X		X	X	X		X
Peloid									
Ooids									
Conodont		X							X
Sponge spicule							X		
Shell debris	X								
Quartz grains	X	X	X	X	X	X	X	X	X
Sparite	X	X	X	x	X	X	x	X	X
Micrite	X	x	X		X		X	X	X
Dolomite								x	
Argillaceous	X	X	X	X	X	X	X	X	X
Biomicrite	X		X				X	X	X
Biosparite		X			X				
BioPelsparite					X				
Oosparite									
Oobiosparite									
Oobiopelsparite									
Wackestone	X						X	X	X
Packstone	x		X		X			x	x
Grainstone									
Mudstone									
Siltstone	x	x		X	x	X	x	X	x

Information on thin-section constituents within the carbonates of the Donegal Basin

THESIS NO.	256	259	261	263	265a	265b	266	266iii	268
CONTENTS									
<i>Eblania</i>			X						
<i>Brunsia</i>					X	X			X
<i>Dainella</i>					X	X			
<i>Earlandia</i>			X	X	X	X			X
<i>Endothyra</i>			X	X	X	X	X	X	X
<i>Eostaffella</i>				X	X	X			
<i>Eoparastaffella</i>									
<i>Forschia</i>					X	X			
<i>Glomodiscus</i>									
<i>Glomospiranella</i>						X			
<i>Mediocris</i>						?			
<i>Omphalotis</i>									
<i>Palaeospiroplectam.</i>						X	X		
<i>Tetrataxis</i>				X	X	X	?		
<i>Pseudoammodiscus</i>									X
<i>Uralodiscus</i>									
<i>Pseudotaxis</i>			X		X	?			
<i>Viseidiscus</i>									
Bivalve		X	X	X	X	X	X	X	X
Brachiopod		X	X	X	X	X	X	X	
Bryozoa			X	?	X	X	X	X	
Calcisphere			X	X	X			X	X
Coral									
Echinoderm		X	X	X	X	X	X	X	
Gastropod					X		X	X	
<i>Girvanella</i>									
<i>Koninckopora</i>					X	X			
<i>Globochaete</i>									
Moravamminid			X	X	X	X	X	X	X
Salebrid									X
Aoujgaliid						X			
<i>Mendipsia</i>			X		X		X	X	
Ostracod	X		X	X	X	X	X	X	
Peloid									
Ooids									
Conodont									
Sponge spicule						X			X
Shell debris					X	X		X	
Quartz grains	X	X	X	X	x	X	X	X	X
Sparite		X	x	x	X	X			X
Micrite		X	X	X	X	X	X	X	
Dolomite	XX	x	x					x	
Argillaceous	X	X	X	X	X	X	X	X	X
Biomicrite		X	X	X		X	X	X	X
Biosparite									X
Pelsparite									
Oosparite									
Oobiosparite									
Oobiopelsparite									
Wackestone			X	x			X	X	X
Packstone					X	X	X		X
Grainstone									
Mudstone				x		X			x
Siltstone		X	X	X		x	x	x	x

Information on thin-section constituents within the carbonates of the Donegal Basin

THESIS NO.	272	290	293	294ii	297	299	300	302	303
CONTENTS									
<i>Urbanella</i>						X			
<i>Brunsia</i>					X		X		?
<i>Dainella</i>									
<i>Earlandia</i>		X		X	X	X	X		X
<i>Endothyra</i>		X	X	X	X	X	X		
<i>Eostaffella</i>		X			X	X			
<i>Eoparastaffella</i>		?		X	?	?			
<i>Forschia</i>				X			X		
<i>Eblania</i>						X			
<i>Glomospiranella</i>									
<i>Mediocris</i>									
<i>Omphalotis</i>									
<i>Palaeospiroplectam.</i>									
<i>Tetrataxis</i>									
<i>Pseudoammodiscus</i>		X			X				
<i>Uralodiscus</i>									
<i>Pseudotaxis</i>									
<i>Viseidiscus</i>									
Bivalve		X	X	X	X	X	X		X
Brachiopod		X	X		X		X	X	X
Bryozoa			X	X	X	X	X	X	X
Calcisphere		X	X	X		X	X		X
Coral									
Echinoderm		X	X	X	X	X	X	X	X
Gastropod							X		
<i>Girvanella</i>		X			X				
<i>Koninckopora</i>					X		X	Xx	
<i>Globochaete</i>									
Moravamminid		X		X	X	X	X		
Salebrid						X			
Aoujgaliid									
<i>Mendipsia</i>		X	X		X	X	X		
Ostracod		X		X	X		X		
Peloid		Xx							
Ooids									
Conodont									
Sponge spicule					X				Xx
Shell debris		X	X	X	X	X	X	X	
Quartz grains	X	x	X	X	X	X	X	X	X
Sparite		X	X	x	X	X	X		
Micrite		x		X	X	X	X	X	
Dolomite	XX								
Argillaceous			X	X				X	
Biomicrite				X	X	X	X	X	
Biosparite							X		
Pelsparite									
Oosparite									
Oobiosparite									
Pelbiosparite		X							
Wackestone			X	X	X	X			
Packstone		X					X		
Grainstone									
Mudstone				x					X
Siltstone			X						x

Information on thin-section constituents within the carbonates of the Donegal Basin

THESIS NO.	95-01i	95-03iii	95-05i	95-07ii	95-11	95-12iii	95-15ii	95-18	95-19ii
CONTENTS									
<i>Brunsia</i>					?				
<i>Dainella</i>					?				
<i>Earlandia</i>	X	X	X	X	X	X	XX	X	X
<i>Endothyra</i>	X	X	X	X	X	X	X	X	X
<i>Eostaffella</i>					X				
<i>Eoparastaffella</i>									
<i>Forschia</i>									
<i>Glomodiscus</i>									
<i>Glomospiranella</i>									
<i>Mediocris</i>									
<i>Omphalotis</i>									
<i>Palaeospiroplectam.</i>									
<i>Tetrataxis</i>						X	X		X
<i>Tournayella</i>									
<i>Uralodiscus</i>									
<i>Valvulinella</i>									
<i>Viseidiscus</i>									
Bivalve	X	X		X	X	X	X	X	X
Brachiopod	X	X	X	X	X	X	X	X	X
Bryozoa	X	X	X	X	X	X		X	X
Calcisphere		X	X				X		X
Coral									
Echinoid/crinoid	X	X	XX	X	X	XX	X	X	X
Gastropod		X	X		X	X			X
<i>Girvanella</i>		Xx			X	X	X	X	X
<i>Koninckopora</i>							X		X
<i>Globochaete ?</i>									
Moravamminid	X					X			
Salebrid	X				X	X			
Aoujgaliid									
<i>Mendipsia</i>						X			
Ostracod					X				
Peloid									
Ooids	X								
Conodont			X						
Sponge spicule		X							
Shell debris	X	X	X	XX	X		X	X	X
Quartz grains	X	X	X				X	X	X
Sparite	x	x	X	X	X	X	X	X	X
Micrite	X	X	X	X	x	X	X	X	x
Dolomite									
Argillaceous	X	X	X					X	X
Biomicrite	X	X	X			X		X	
Biosparite				X	X		X		X
Pelsparite									
Oosparite									
Oobiosparite									
Oobiopelsparite									
Wackestone		X		X			X	X	
Packstone	X		X		X	X			X
Grainstone					x				
Mudstone									
Siltstone									

Information on thin-section constituents within the carbonates of the Donegal Basin

THESIS NO.	95-20ii	95-21i	95-22	95-23	95-24	95-25ii	95-26	95-27ii	95-28ii
CONTENTS									
<i>Lugtonia</i>						X	X		
<i>Brunsia</i>							X	X	X
<i>Dainella</i>						X			
<i>Earlandia</i>	X	?	X	X	X	X	X	X	X
<i>Endothyra</i>	X			X	X	X	X	X	X
<i>Eostaffella</i>						X	X	X	X
<i>Eoparastaffella</i>						X		X	X
<i>Forschia</i>						X	X	X	X
<i>Glomodiscus</i>									
<i>Glomospiranella</i>								?	
<i>Mediocris</i>									
<i>Omphalotis</i>						X			?
<i>Palaeospiroplectam.</i>						X			
<i>Tetrataxis</i>						X	X	X	X
<i>Tournayella</i>									
<i>Uralodiscus</i>									
<i>Valvulinella</i>						X		X	X
<i>Viseidiscus</i>									
Bivalve	X	X	X	X	X	X	X	X	X
Brachiopod	X	X	X	X	X	X	X	X	X
Bryozoa	X	X	X	X	X	X	X	X	X
Calcisphere			X	X	X	X	X	X	
Coral									
Echinoid/crinoid	XX	X	X	X	X	X	X	X	X
Gastropod			X						
<i>Girvanella</i>				X		X	X		
<i>Koninckopora</i>			X			X		X	X
<i>Globochaete</i> ?				X					
Moravamminid	XX		?	X	X	X	X	X	
Salebrid								X	X
Aoujgaliid									
<i>Mendipsia</i>						X			
Ostracod	X	X	X	X	X	X		X	X
Peloid									
Ooids									
<i>Sphaerina</i>		X							
Sponge spicule									
Shell debris	X	X	X	X	X	X	X	X	X
Quartz grains	X	X	X	X	X	x	X	X	X
Sparite	X	x				X	X	X	X
Micrite	x		X	X	X	X			
Intraclasts									
Argillaceous	X		X	X	X				
Biomicrite			X	X	X		X		
Biosparite	X					X		X	X
Pelsparite									
Oosparite									
Oobiosparite									
Oobiopelsparite									
Wackestone	X		X		X	X			
Packstone	x		x	X		x		X	X
Grainstone									
Mudstone		X							
Siltstone		x							

THESIS NO.	95-29ii	95-30	95-31ii	95-32	95-33	95-34ii	95-35i	95-36	95-38
CONTENTS									
<i>Brunsia</i>	X	X			?	X		X	X
<i>Dainella</i>									X?
<i>Earlandia</i>	X	X	X	X	X	X	X	X	X
<i>Endothyra</i>	X	X	X	X	X	X	X	X	X
<i>Eostaffella</i>	X	X		X		X	X	X	X
<i>Eoparastaffella</i>	X	X					X		X
<i>Forschia</i>	X	X					X		X
<i>Urbanella</i>							X		
<i>Glomospiranella</i>									X
<i>Mediocris</i>									
<i>Omphalotis</i>	?				X				
<i>Palaeospiroplectam.</i>									X
<i>Tetrataxis</i>		X	X	X				?	
<i>Tournayella</i>	X	X	X	X					
<i>Uralodiscus</i>									
<i>Valvulinella</i>	X	?		X				X	X
<i>Viseidiscus</i>									
Bivalve	X	X	X	X	X	X	X	X	X
Brachiopod	X	X	X	X	X		X	X	X
Bryozoa	X	X		X	X	X	X	X	X
Calcisphere	X	X			X		X	X	X
Coral									
Echinoid/crinoid	X	X	X	X	X	X	X	X	X
Gastropod					X				
<i>Girvanella</i>				X					
<i>Koninckopora</i>	X	X		X	X	X		X	X
<i>Globochaete</i> ?									
Moravamminid					X				X
Salebrid								X	
Aoujgaliid									
<i>Mendipsia</i>									
Ostracod	X	X	X		X		X		X
Peloid	X	X	XX	X	X	X		X	
Ooids				X	X	X		X	
Intraclasts									
Sponge spicule									
Shell debris	X	X		X	X		X	X	X
Quartz grains	X	X		X	X	X	X	X	X
Sparite	X	X	X	X	X	x	X	X	X
Micrite		X	X		X	X	X	X	X
Dolomite									
Argillaceous							X		
Biomicrite						X	X		
Biosparite	X	X						X	X
Pelbiosparite	x		X	X	X			x	
Oobiopelmicrite					X	X			
Oobiosparite									
Oobiopelsparite				x	x	x			
Wackestone	X						X		
Packstone		X	X	X	X	X		X	X
Grainstone				x					
Mudstone									
Siltstone									

THESIS NO.	95-39i	95-40	95-41ii	95-43	95-44i	95-45iv	95-46ii	95-47	95-48
CONTENTS									
<i>Eotextularia</i>					X	X			
<i>Brunsia</i>	X			X					
<i>Dainella</i>		?							
<i>Earlandia</i>	X	X		X	X	X	X	X	X
<i>Endothyra</i>	X	X		X	X	X	?	X	X
<i>Eostaffella</i>	X	X			X				
<i>Eoparastaffella</i>	?				X				
<i>Forschia</i>	X	X		X	X	X		X	X
<i>Glomodiscus</i>									
<i>Glomospiranella</i>									
<i>Mediocris</i>									
<i>Omphalotis</i>									
<i>Palaeospiroplectam.</i>									
<i>Tetrataxis</i>					X	X		X	
<i>Tournayella</i>	X								
<i>Uralodiscus</i>									
<i>Valvulinella</i>		X						X	?
<i>Viseidiscus</i>									
Bivalve	X	X	?	X	X	X	X	X	X
Brachiopod	X	X	X	X	X	X	X	X	X
Bryozoa	X	X	X	X	X		X	X	X
Calcisphere	X	X	X	X	X	X		X	X
Coral									
Echinoid/crinoid	X	X	X	X	X		X	X	X
Gastropod				X			X	X	X
<i>Girvanella</i>							X		
<i>Koninckopora</i>	X	X							
<i>Globochaete</i> ?									
Moravamminid	X	?	X	X	XX	X		X	XX
Salebrid									
Aoujgaliid									
<i>Mendipsia</i>	X	X				X		X	X
Ostracod	X	X	X	X	X			X	X
Peloid									
Ooids									
Intraclasts						X			
Sponge spicule						X			
Shell debris	X	X	X	X	X	X	X	X	X
Quartz grains	X	X	X	X	X	X	X	X	X
Sparite	X	X		x	x				
Micrite	X	X	X	X	X	X		X	X
Dolomite									
Argillaceous			X	X			X	X	X
Biomicrite			X	X	X			X	X
Biosparite	X	X							
Pelsparite									
Oosparite									
Oobiosparite									
Oobiopelsparite									
Wackestone	X	X	X	X			X		
Packstone	x	X			X			X	X
Grainstone									
Mudstone			X	X			X		
Siltstone							x		

THESIS NO.	95-49iv	95-50	95-51i	95-53	95-54	95-55	95-56i	95-58	95-59
CONTENTS									
<i>Brunsia</i>		X	X		X				
<i>Dainella</i>									
<i>Earlandia</i>	X	XX	X	X	X	X	?	X	
<i>Endothyra</i>	X	X	X		X	X		X	
<i>Eostaffella</i>		X	X		X				
<i>Eoparastaffella</i>									
<i>Forschia</i>		X			?	?			
<i>Glomodiscus</i>									
<i>Glomospiranella</i>									
<i>Mediocris</i>									
<i>Omphalotis</i>		X							
<i>Palaeospiroplectam.</i>									
<i>Tetrataxis</i>			X		X				
<i>Tournayella</i>		X	?		?	?			
<i>Uralodiscus</i>									
<i>Valvulinella</i>			?		?				
<i>Viseidiscus</i>									
Bivalve		X	X	X	X	X	X	X	
Brachiopod	X	X	X	X	X	X	X	X	X
Bryozoa	X	X	X	X	X		X	X	
Calcsphere	X	X	X	X		X		X	
Coral									
Echinoid/crinoid	X	X	X	X	X	X	X	X	XX
Gastropod	X		X				X		
<i>Girvanella</i>					X				
<i>Koninckopora</i>	X	X	X		X				
<i>Globochaete ?</i>									
Moravamminid	XX	X	X	X	X		X	X	
Salebrid			X	X		X			
Aoujgaliid									
<i>Mendipsia</i>	X	X							
Ostracod	X	X	X					X	
Peloid			X					X	
Ooids									
Conodont			X						
Sponge spicule									
Shell debris	X	X	X	X			X	X	X
Quartz grains	X	X	X	X	x	X	X	XX	X
Sparite		X	X	x	X	x	x	X	X
Micrite	X	X	X	X	X			X	
Dolomite									
Argillaceous	X	x		X		X	X	X	X
Biomicrite	X		X	X	X				
Biosparite		X						X	
Pelsparite									
Oosparite									
Oobiosparite									
Oobiopelsparite									
Wackestone	X			X	X	X	X		
Packstone		X	X					X	
Grainstone									
Mudstone			X	X	X		x		
Siltstone						X	X	x	X

THESIS NO.	95-60i	95-60ii	95-62i	95-63i	95-64	95-66ii	95-68	95-69	95-70
<i>Lugtonia</i>						X			
<i>Brunsia</i>						X	?		
<i>Dainella</i>									
<i>Earlandia</i>	X	X	X	X	X	X	X	X	X
<i>Endothyra</i>	X	X	X	X		X	X	X	X
<i>Eostaffella</i>									
<i>Eoparastaffella</i>									
<i>Forschia</i>						X	?		
<i>Glomodiscus</i>									
<i>Glomospiranella</i>									
<i>Mediocris</i>									
<i>Omphalotis</i>									
<i>Palaeospiroplectam.</i>						X	X		
<i>Tetrataxis</i>				X					
<i>Tournayella</i>									
<i>Uralodiscus</i>									
<i>Valvulinella</i>	X			X		X			X
<i>Viseidiscus</i>									
Bivalve	X	X	X	X	X	X	X	X	X
Brachiopod	X	X	X	X	X	X	X	X	X
Bryozoa	X	X		X	X	X	X	X	X
Calcsphere	X	X	X		X	X		X	X
Coral									
Echinoid/crinoid	X	X	X	X	X	X	X	X	X
Gastropod	X		X		X		X		X
<i>Girvanella</i>	X	X	X		X	X	X	X	X
<i>Koninckopora</i>				X		X			
<i>Globochaete</i> ?									
Moravamminid	X			X	X	X	X		X
Salebrid	X	X		?		?			
Aoujgaliid									
<i>Mendipsia</i>	X	X	X			X			X
Ostracod		X	X		X	X	X	X	X
Peloid		X	X	X	X	X			
Ooids			X						
Intraclasts									
Sponge spicule									
Shell debris	X	X	X	X	X	X	X	X	X
Quartz grains	x	X	X	x	x		X	x	x
Sparite	X	X	XX	X	X	X	X	X	X
Micrite		X				X	X	X	
Dolomite									
Argillaceous	X	X	X	X	X	X		X	
Biomicrite		X					x	X	
Biosparite	X	x		X	X	x	X		X
Pelsparite			X	X	X	x			
Oosparite									
Oobiosparite									
Oobiopelsparite									
Wackestone		X		X	X		X	X	X
Packstone	X		X			X			
Grainstone									
Mudstone								X	
Siltstone		X	X	X			X	x	X

Information on thin-section constituents within the carbonates of the Donegal Basin

THESIS NO.	95-71i	95-72	95-73	95-74	95-75	95-76	95-77	95-78	95-79
CONTENTS									
<i>Brunsia</i>									
<i>Dainella</i>					?	?		X	X
<i>Earlandia</i>	X	X	X	X	X	X	X	X	X
<i>Endothyra</i>	X	X	X	X	X	X	X	X	X
<i>Eostaffella</i>								X	
<i>Eoparastaffella</i>									
<i>Forschia</i>	?	?			?				
<i>Glomodiscus</i>									
<i>Glomospiranella</i>								?	
<i>Mediocris</i>									
<i>Omphalotis</i>									
<i>Palaeospiroplectam.</i>			X		X		X		X
<i>Tetrataxis</i>	X		X		?				
<i>Tournayella</i>									
<i>Uralodiscus</i>									
<i>Valvulinella</i>	X	X	X	X		X	X	X	X
<i>Viseidiscus</i>									
Bivalve	X	X	X	X		X	X	?	X
Brachiopod	X	X	X	X	X	X	X	X	X
Bryozoa	X	X	X	X	X	X	X	X	X
Calcsphere	X	X	X		X	X	X	X	X
Coral							?		
Echinoid/crinoid	X	X	X	X	X	X	X	X	X
Gastropod	X		X			X	X		
<i>Girvanella</i>	X	X				X	X		
<i>Koninckopora</i>	X								
<i>Globochaete ?</i>									
Moravamminid	X		X	?	X	X	X	X	X
Salebrid									
Aoujgaliid									
<i>Mendipsia</i>	X	X	X			X	X	X	
Ostracod		X	X	?	X	X	X	X	X
Peloid									
Ooids									
Wormtubes							X		
Sponge spicule									
Shell debris	X	X	X	X	X	X		X	X
Quartz grains	x	x	x	x	x	x	x	x	x
Sparite	X	X	X	x			X		
Micrite	X								
Dolomite	X								
Argillaceous	X		X	X	X	X			
Biomicrite				X	X	X	X	X	X
Biosparite	X	X	X				x		
Pelsparite									
Oosparite									
Wackestone						X		X	
Packstone	X	X	X	X	X		X		X
Grainstone									
Mudstone	x								
Siltstone	x								

Information on thin-section constituents within the carbonates of the Donegal Basin

THESIS NO.	95-80	95-81	95-82	95-83	95-84	95-85	95-86	95-87	95-88
CONTENTS									
<i>Brunsia</i>	X	X							X
<i>Dainella</i>		?	X	?				?	?
<i>Earlandia</i>	X	X	X	X		X	X	X	X
<i>Endothyra</i>	X	X	X	X		X	X	X	X
<i>Eostaffella</i>	X	X							
<i>Eoparastaffella</i>	X?	X	X						
<i>Forschia</i>	X	X	X				X		X
<i>Glomodiscus</i>									
<i>Glomospiranella</i>									
<i>Mediocris</i>									
<i>Omphalotis</i>									
<i>Palaeospiroplectam.</i>									X
<i>Tetrataxis</i>									X
<i>Tournayella</i>			X						
<i>Uralodiscus</i>									
<i>Valvulinella</i>	X	X	X	X					
<i>Viseidiscus</i>		X?							
Bivalve	X		X	X		X	X	X	X
Brachiopod	X	X	X	X			X	X	X
Bryozoa	X	X	X	X			X	?	X
Calcsphere	X	X	X	X			X		X
Coral									
Echinoid/crinoid	X	X	X	X	X	X	X	X	X
Gastropod		?	X				X	XX	X
Girvanella	X	X				X	X		X
Koninckopora	X	X	X	X					
Globochaete ?									
Moravamminid		X				X		?	X
Salebrid				?		X	?		
Aoujgaliid									
Mendipsia	X	X	X	X			X		X
Ostracod	X	X	X	X				X	X
Peloid						X	X		X
Ooids									
Conodont									
Sponge spicule									
Shell debris	X	X	X	X		X	X	X	X
Quartz grains		X				X	X	X	x
Sparite				X		X	X	X	x
Micrite	X	X	X	X				X	X
Dolomite					XXX				
Argillaceous	X	X	X	X		X	X	X	X
Biomicrite	X	X	X	X					X
Biosparite						X	X	X	X
Pelsparite						X			
Pelsbiosparite						X			
Wackestone			X	X					
Packstone	X	X				X	X	X	X
Grainstone									
Mudstone									
Siltstone				X					

Information on thin-section constituents within the carbonates of the Donegal Basin

THESIS NO.	95-91	95-92	95-93	95-94	95-95				
CONTENTS									
Lugtonia			X						
Brunsia	X	X	X	X	?				
Dainella	?	?	X						
Earlandia	X	X	X	X	X				
Endothyra	X	X	X	X	X				
Eostaffella	X	X	X	X	X				
Eoparastaffella		X		?	X				
Forschia	X	X	X	X	X				
Glomodiscus									
Glomospiranella	X	X	X		?				
Mediocris	X	?	X						
Omphalotis									
Palaeospiroplectam.		X	X	X	X				
Tetrataxis	X	?	?						
Tournayella		X							
Uralodiscus									
Valvulinella			X						
Viseidiscus									
Bivalve	X	X		X	X				
Brachiopod	X	X	X	X					
Bryozoa	X	X	X	X	X				
Calcisphere	X	X	X	X	X				
Coral									
Echinoid/crinoid	X	X	X	X	X				
Gastropod		X			X				
Girvanella	X		X		X				
Koninckopora				X	X				
Globochaete ?									
Moravamminid	X	X	X	X					
Salebrid									
Aoujgaliid									
Mendipsia	X	X	X	X	X				
Ostracod	X	X	X	X					
Peloid									
Ooids									
Conodont									
Sponge spicule									
Shell debris	X	X	X	X					
Quartz grains	X	x	x	X	X				
Sparite	x	X	X	x	x				
Micrite	X	X	X	X	X				
Dolomite									
Argillaceous	X	X	X	X	X				
Biomicrite	X	X	X						
Biosparite									
Pelsparite									
Wackestone	x	x	x	x	X				
Packstone	X	X	X	X					
Grainstone									
Mudstone									
Siltstone									

THESIS NO.	96-01	96-02	96-03	96-04	96-05	96-06	96-07	96-08	96-09
CONTENTS									
<i>Eblania</i>									X
<i>Brunsia</i>	X	X	X	?	X	X	X	X	X
<i>Dainella</i>	X	X	X		?	?			?
<i>Earlandia</i>	X	X	X	X	X	X	X	X	X
<i>Endothyra</i>	X	X	X	X	X	X	X	X	X
<i>Eostaffella</i>	X	X	X		X	X		X	X
<i>Eoparastaffella</i>		X	X					X	?
<i>Forschia</i>		X						X	X
<i>Eotextularia</i>									?
<i>Glomospiranella</i>				X	X			X	
<i>Mediocris</i>								X	
<i>Omphalotis</i>									
<i>Palaeospiroplectam.</i>								X	
<i>Tetrataxis</i>	X	X	X		X	X			X
<i>Tournayella</i>			X				?		
<i>Uralodiscus</i>									
<i>Valvulinella</i>		X	X				X		
<i>Viseidiscus</i>									X
Bivalve	X		X	X	?		X	X	
Brachiopod	X	X	X	X	X	X	X	X	X
Bryozoa	X	?	X	X	X	X	X	X	
Calcsphere	X	X		X	X	X		X	X
Coral									
Echinoid/crinoid	X	X	X	X	XX	X	X	X	X
Gastropod									
<i>Girvanella</i>	X					X		X	X
<i>Koninckopora</i>	X	X	X		X	X	X		X
<i>Globochaete</i> ?									
Moravamminid	X			X	X		X	XX	
Salebrid	?				?			X	
Aoujgaliid									
Mendipsia	X	X							
<i>Ostracod</i>		X			X	X	X	X	X
Peloid	X	X	X						
Ooids			X						
Intraclasts			X		X		X	X	
Sponge spicule									
Shell debris	X	X	X	X	X	X	X		
Quartz grains	X								
Sparite	X	X	X	X	X	X	X	X	X
Micrite	x	X		X		x	X		
Dolomite									
Argillaceous									
Biomicrite				X					
Biosparite	X					X	X	X	X
Biopelsparite		X	X		X				
Oosparite									
Biointrasparite					X		X	X	
Oobiopelintrasparite			X						
Wackestone	X					X			
Packstone	X	X	X	X	X		X	X	X
Grainstone								X	
Mudstone									
Siltstone									

THESIS NO.	96-10	96-11	96-12	96-14	96-15i	96-16i	96-17i		
CONTENTS									
<i>Archaeodiscus</i>									
<i>Brunsia</i>	X	X		X					
<i>Dainella</i>							?		
<i>Earlandia</i>	X			X	X	X	X		
<i>Endothyra</i>	X	X		X	X	X	X		
<i>Eostaffella</i>		X							
<i>Eoparastaffella</i>									
<i>Forschia</i>	X			X			X		
<i>Glomodiscus</i>									
<i>Glomospiranella</i>									
<i>Mediocris</i>									
<i>Omphalotis</i>				X					
<i>Palaeospiroplectam.</i>	X				X				
<i>Tetrataxis</i>				X		X	X		
<i>Tournayella</i>	X	X		X					
<i>Uralodiscus</i>									
<i>Valvulinella</i>	X			X		X	X		
<i>Viseidiscus</i>				?					
Bivalve	?				X	X	X		
Brachiopod	X	X			X	X	X		
Bryozoa		X			X	X	X		
Calcisphere	X	X			X				
Coral									
Echinoid/crinoid	X	X		X	X	X	X		
Gastropod				X	X				
<i>Girvanella</i>					X				
<i>Koninckopora</i>		X							
<i>Globochaete</i> ?									
Moravamminid		X		X		X	X		
Salebrid									
Aoujgaliid									
<i>Mendipsia</i>				X	X				
Ostracod					X	X	X		
Peloid		X							
Ooids									
Intraclasts		X							
Sponge spicule									
Shell debris	X	X		X	X	X	X		
Quartz grains				x	X	X	x		
Sparite	X	X		x	x		x		
Micrite		X		X	X	x	X		
Dolomite									
Argillaceous		X		x	X	X	X		
Biomicrite		X		X	X		X		
Biosparite	X	X							
Pelsparite									
Oosparite									
Oobiosparite									
Biopelintrasparite		X							
Wackestone					X	X			
Packstone		X		X	x		X		
Grainstone									
Mudstone				X					
Siltstone						X			

Information on thin-section constituents within the carbonates of the Donegal Basin

THEESIS NO.	96-18	96-21	96-22	96-23	96-24	96-25	96-26	96-27	96-28
CONTENTS									
<i>Archaediscus</i>									
<i>Brunsia</i>									
<i>Dainella</i>									
<i>Earlandia</i>									
<i>Endothyra</i>									
<i>Eostaffella</i>									
<i>Eoparastaffella</i>									
<i>Forschia</i>									
<i>Glomodiscus</i>									
<i>Glomospiranella</i>									
<i>Mediocris</i>									
<i>Omphalotis</i>									
<i>Palaeospiroplectam.</i>									
<i>Tetrataxis</i>									
<i>Tournayella</i>									
<i>Uralodiscus</i>									
<i>Valvulinella</i>									
<i>Viseidiscus</i>									
Bivalve								X	
Brachiopod			X						
Bryozoa			X						
Calcisphere	X		X	X					
Coral									
Echinoid/crinoid	X		X	X					
Gastropod								X	
<i>Girvanella</i>									
<i>Koninckopora</i>									
<i>Globochaete ?</i>									
Moravamminid			X	X					
Salebrid									
Aoujgaliid									
<i>Mendipsia</i>									
Ostracod				X				X	
Peloid									
Ooids									
Bioturbated							X	X	X
Sponge spicule				X					
Shell debris	X		X	X	X		X	X	X
Quartz grains	X	XX	X	X	X	X	X	X	X
Sparite	x	X	x	X	X	X	x	X	x
Micrite		X	X						
Dolomite									
Argillaceous	XX	X	X	X	X	X	X	XX	X
Biomicrite									
Biosparite									
Pelsparite									
Oosparite									
Oobiosparite									
Oobiopelsparite									
Wackestone									
Packstone									
Grainstone									
Mudstone	X	X	X	X	X	X	X	X	X
Siltstone	X	x	x	x	x	x	x	X	x

Information on thin-section constituents within the carbonates of the Donegal Basin

THESIS NO.	96-30	96-31i	96-32	96-33	96-34	96-35	96-36	96-37	96-38
CONTENTS									
<i>Archaediscus</i>	X					X	X		
<i>Brunsia</i>						X	X		X
<i>Brunsiarchaediscus</i>			?			X	X		
<i>Earlandia</i>		X	X		X	X	X		X
<i>Endothyra</i>		X	X			X	X	X	X
<i>Eostaffella</i>									
<i>Eoparastaffella</i>									
<i>Forschia</i>		?		X	X				
<i>Glomodiscus</i>	X	?							
<i>Glomospiranella</i>									
<i>Mediocris</i>									
<i>Omphalotis</i>									
<i>Palaeospiroplectam.</i>									
<i>Tetrataxis</i>	X					X			
<i>Tournayella</i>		X				X	X		
<i>Uralodiscus</i>						X			
<i>Valvulinella</i>						X			X
<i>Viseidiscus</i>									
Bivalve	X	X				X	X	X	
Brachiopod	X	X	X		X	X		X	X
Bryozoa	X	X							
Calcisphere	X	X							
Coral									
Echinoid/crinoid	X	X	X	X	X	X	X	X	X
Gastropod						X			X
<i>Girvanella</i>									
<i>Koninckopora</i>						X		X	X
<i>Globochaete</i> ?									
Moravamminid	X	X	XX	?	X	X	X	X	
Salebrid							?		
Aoujgaliid									
<i>Mendipsia</i>		X					X		
Ostracod			X			X			
Peloid								XX	XX
Ooids								X	X
Intraclasts									
Sponge spicule		X							
Shell debris	X	X	X	X	X	X	X	X	X
Quartz grains	X	X	X	X	X	X	X	X	X
Sparite	x	x	x	x	X	X	X	X	X
Micrite	X	X	X	X	X	x	x	X	X
Dolomite		?	?	x			x	X	x
Argillaceous	X	X	XX	X	XX	x	x	X	X
Biomicrite	X	X	X	X	X				
Biosparite						X	X		
Pelsparite									
Oosparite									
Oobiosparite								X	
Oobiopelsparite								X	X
Wackestone	X	X	X						
Packstone						X	X	X	X
Grainstone									
Mudstone	x	x	x	X	X				
Siltstone	X	X	X	x	x				

Information on thin-section constituents within the carbonates of the Donegal Basin

THESIS NO.	96-39	96-40	96-41	96-43	96-44	96-45	96-48	96-53	96-54
CONTENTS									
<i>Endothyranoposis</i>	?					X			
<i>Brunsia</i>	X	X	X			X			
<i>Dainella</i>		?			?				
<i>Earlandia</i>	X	X	X	X	X	X			
<i>Endothyra</i>	X	X	X	X	X	X			
<i>Eostaffella</i>	X	X	X		X	X			
<i>Eoparastaffella</i>						X			
<i>Forschia</i>	X	X	X		X	X			
<i>Lugtonia</i>					X				
<i>Glomospiranella</i>	?	X							
<i>Mediocris</i>									
<i>Omphalotis</i>						?			
<i>Palaeospiroplectam.</i>									
<i>Tetrataxis</i>	X		X						
<i>Tournayella</i>		X	X						
<i>Uralodiscus</i>									
<i>Valvulinella</i>	X			X	X				
<i>Septaglomospiranella</i>	?								
Bivalve	X	X	X	X	X	X			
Brachiopod	X	X	X	X	X	X			X
Bryozoa	X	X	X	X	X	X			
Calcisphere	X		X	X	X	X	X		
Coral									
Echinoid/crinoid	X	X	X	X	X	X	X	X	X
Gastropod		?		X					
<i>Girvanella</i>			X						
<i>Koninckopora</i>		X	X						
<i>Globochaete</i> ?									
Moravamminid		X		X	X	X			
Salebrid			?						
Aoujgaliid									
Mendipsia	X	X	X	X	X	X			X
Ostracod		X		X	X	X			X
Peloid							X		
Ooids									
Bioturbated									X
Sponge spicule				?			X		
Shell debris	X	X	X	X	X	X	X	X	X
Quartz grains	x	x		x	x	x	x	X	X
Sparite	X	X	X	X	x	X	X	x	x
Micrite	x	X	X	X	X	X	X		
Dolomite									
Argillaceous								X	X
Biomicrite		X		X	X	X			
Biosparite	X		X						
Pelsparite									
Oosparite									
Oobiosparite									
Oobiopelsparite									
Wackestone	X	X		X		X			
Packstone			X		X				
Grainstone									
Mudstone		X		X	X		X		X
Siltstone								X	

Information on thin-section constituents within the carbonates of the Donegal Basin

THESIS NO.	96-57	96-58	96-59i	96-59ii	96-61	96-62	95-63	95-65	95-67
CONTENTS									
<i>Archaeodiscus</i>	X								
<i>Brunsia</i>	X						X	X	
<i>Brunsiarchaeodiscus</i>	X								
<i>Earlandia</i>	X		X		X			X	
<i>Endothyra</i>	X							X	
<i>Eostaffella</i>	X							X	
<i>Eoparastaffella</i>								X	
<i>Forschia</i>								X	
<i>Glomodiscus</i>									
<i>Glomospiranella</i>									
<i>Mediocris</i>									
<i>Omphalotis</i>									
<i>Palaeospiroplectam.</i>									X
<i>Tetrataxis</i>	X								
<i>Tournayella</i>	X						?	?	
<i>Uralodiscus</i>									
<i>Valvulinella</i>	X								
<i>Viseidiscus</i>	?								
Bivalve	?				X		X	X	X
Brachiopod	X			X	X		X	X	X
Bryozoa	X		X	X	X			X	X
Calcisphere	X		X		X		X	X	
Coral									
Echinoid/crinoid	X			X	X		X	X	X
Gastropod								XX	X
<i>Girvanella</i>							X		
<i>Koninckopora</i>								X	
<i>Globochaete</i> ?									
Moravamminid	X								X
Salebrid									
Sphaerina							X		
<i>Mendipsia</i>	X							X	
Ostracod	X							X	
Peloid									
Ooids									
Conodont					X				
Sponge spicule									
Shell debris	X		X	X	X		X	X	X
Quartz grains	X	XX	X	X					
Sparite	x	X	X	x			X		
Micrite	X						X	X	X
Dolomite									
Argillaceous			X	X	X	X	X		X
Biomicrite	X						X	X	X
Biosparite									
Pelsparite									
Oosparite									
Oobiosparite									
Oobiopelsparite									
Wackestone	X							X	X
Packstone								X	
Grainstone									
Mudstone	X		X	X	X				
Siltstone		Sst.	x	x	X	XX	x		

Information on thin-section constituents within the carbonates of the Donegal Basin

THESIS NO.	96-68	96-69	96-71	96-73ia	96-73ib	96-73ii	96-76	96-79	96-80
CONTENTS									
<i>Archaeodiscus</i>	X	X							
<i>Brunsia</i>		X							
<i>Dainella</i>									
<i>Earlandia</i>	X	X					X		X
<i>Endothyra</i>		X							
<i>Eostaffella</i>									
<i>Eoparastaffella</i>									
<i>Forschia</i>									
<i>Glomodiscus</i>		X							
<i>Glomospiranella</i>									
<i>Mediocris</i>									
<i>Omphalotis</i>									
<i>Palaeospiroplectam.</i>									
<i>Tetrataxis</i>	X	X							
<i>Tournayella</i>		X							?
<i>Uralodiscus</i>									
<i>Valvulinella</i>		X							
<i>Viseidiscus</i>									
Bivalve	X	X							X
Brachiopod	X	X					X		
Bryozoa	X	X				X	X		X
Calcsphere	X	X	X	X					
Coral									
Echinoid/crinoid	X	X		X		X	X	X	X
Gastropod							X		
<i>Girvanella</i>									
<i>Koninckopora</i>		X							
<i>Globochaete ?</i>									
Moravamminid	X	X					X		X
Salebrid									
Aoujgaliid									
<i>Mendipsia</i>	X	X							
Ostracod	X								
Peloid									
Ooids									
Bioturbated	X		X						
Sponge spicule									X
Shell debris	X	X	X	X	X	X	X	X	X
Quartz grains	X	X	X	X	X	X	X	X	X
Sparite	X	X	x	x	X	X	x		
Micrite	X	X					X		
Dolomite								XXX	X
Argillaceous	X	x	X	X	X		X		X
Biomicrite	X			X			X		
Biosparite		X							
Pelsparite									
Oosparite									
Oobiosparite									
Oobiopelsparite									
Wackestone	X	X							
Packstone									
Grainstone									
Mudstone			X	X	X		X		X
Siltstone	x	x		x	x	sst	x		x

Information on thin-section constituents within the carbonates of the Donegal Basin

THESIS NO.	96-81i	96-82	96-83	96-85i	96-85ii	96-96			
CONTENTS									
<i>Archaeodiscus</i>		?							
<i>Brunsia</i>									
<i>Dainella</i>									
<i>Earlandia</i>	X	X	X						
<i>Endothyra</i>			X			X			
<i>Eostaffella</i>									
<i>Eoparastaffella</i>									
<i>Forschia</i>			X			X			
<i>Glomodiscus</i>									
<i>Glomospiranella</i>									
<i>Mediocris</i>									
<i>Omphalotis</i>									
<i>Palaeospiroplectam.</i>									
<i>Tetrataxis</i>									
<i>Tournayella</i>									
<i>Uralodiscus</i>									
<i>Valvulinella</i>									
<i>Viseidiscus</i>									
Bivalve			X		X	X			
Brachiopod			X			X			
Bryozoa			X		X	X			
Calcsphere	X	X	X		X	X			
Coral									
Echinoid/crinoid	X		X	X	X	X			
Gastropod			X			X			
<i>Girvanella</i>									
<i>Koninckopora</i>									
<i>Globochaete</i> ?									
Moravamminid	?		X		?				
Salebrid			X			X			
Aoujgaliid									
<i>Mendipsia</i>			X						
Ostracod						X			
Peloid			X						
Ooids									
Bioturbated	X	X							
Sponge spicule	X	X							
Shell debris	X	X	X	X	X	X			
Quartz grains	X	X	XX	X	X	XX			
Sparite	X	X			x	x			
Micrite			X						
Dolomite	XX								
Argillaceous	X	X	XX	XX	XX	XX			
Biomicrite			X						
Biosparite									
Pelsparite									
Oosparite									
Oobiosparite									
Oobiopelsparite									
Wackestone			X						
Packstone									
Grainstone									
Mudstone	X	X			X	x			
Siltstone	x	x	X		x	X			

Information on thin-section constituents within the carbonates of the Donegal Basin

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LITHOLOGY CODE	COLOUR CODE	FACIES	DESCRIPTION
		A	Conglomerates
		B	X-stratified, non-calcareous sandstones
		C	Calcareous, bipolar, coarse to medium-grained ssts
		D	Non-calcareous, variagated sandstones & mudstones
		E	Plant rich mudstones & minor siltstones
		F	Inclined heterolithic strata
		G	Well sorted, fine to med.-grained, bioturbated ssts
		H	Coarse-grained to pebbly, calc., fossiliferous, bioturbat ssts.
		J	Black mudst. with micrite, gastropods & ostracods
		K	Argillac., fossilif., bioturb. ls. Non-argill., fossilif. limestones
		L	Crinoidal grainstone
		M	Nodular, thin bded limestones
		N	Calcareous ssts., sandy limestone & oolitic limestone
		P1	Calcareous, bioturbated fossiliferous shales
		P2	Calcareous, laminated shales
		Q	Calcareous siltstones
		R	Pebbly, structureless sandstones
		S	X-stratified, calc./non calc, fossiliferous ssts
		T	Interbedded ssts & micaceous siltst. (+ plants)

SYMBOLS USED IN LOGS			
	Crinoid		Quartz pebbles
	Long crinoid stem		Channel
	Brachiopod		Trough Cross-strata
	Large brachiopod (Delepineia)		Tabular Cross-strata
	Horn coral		Imbrication
	Cuninia coral		Plants
	Siphonodendron coral		Roots
	Syringopora coral		Dip of IHS
	Echinoid fragment		Fusain
	Michelinia coral		Desiccation crack
	Bryozoa	<i>mps</i>	Maximum particle size
	Gastropod	C/U	Coarsening-upwards
	Ostracod	F/U	Fining-upwards
	Shelly debris		Gradational boundary
	Hummocky irreg. surface on limestone		Palaeocurrent direction
	Bioturbations		Fault
	Horizontal Burrow		Gap in section
	Vertical Burrow		Formational Boundary
	Zoophycus Trace	95-60	Thin-section sampling
	Stylolites	cong	conglomerate
	Nodules	co. sst	coarse-grained sandstone
	Oolitic Limestone	med. sst	medium-grained sandstone
	Rubbly Limestone	fine sst	fine-grained sandstone
		silt	siltstone
		mudst	mudstone
		ca sst	calcareous sandstone
		sandy ls	sandy limestone
		sparry ls	sparry limestone
		argill ls	argillaceous limestone
		bi calc sh	bioturbated calcareous shale
		ca lam sh	calcareous laminated shale

LEGEND

Note: Explanation to colour codes for formations and members are included in the relevant figures.

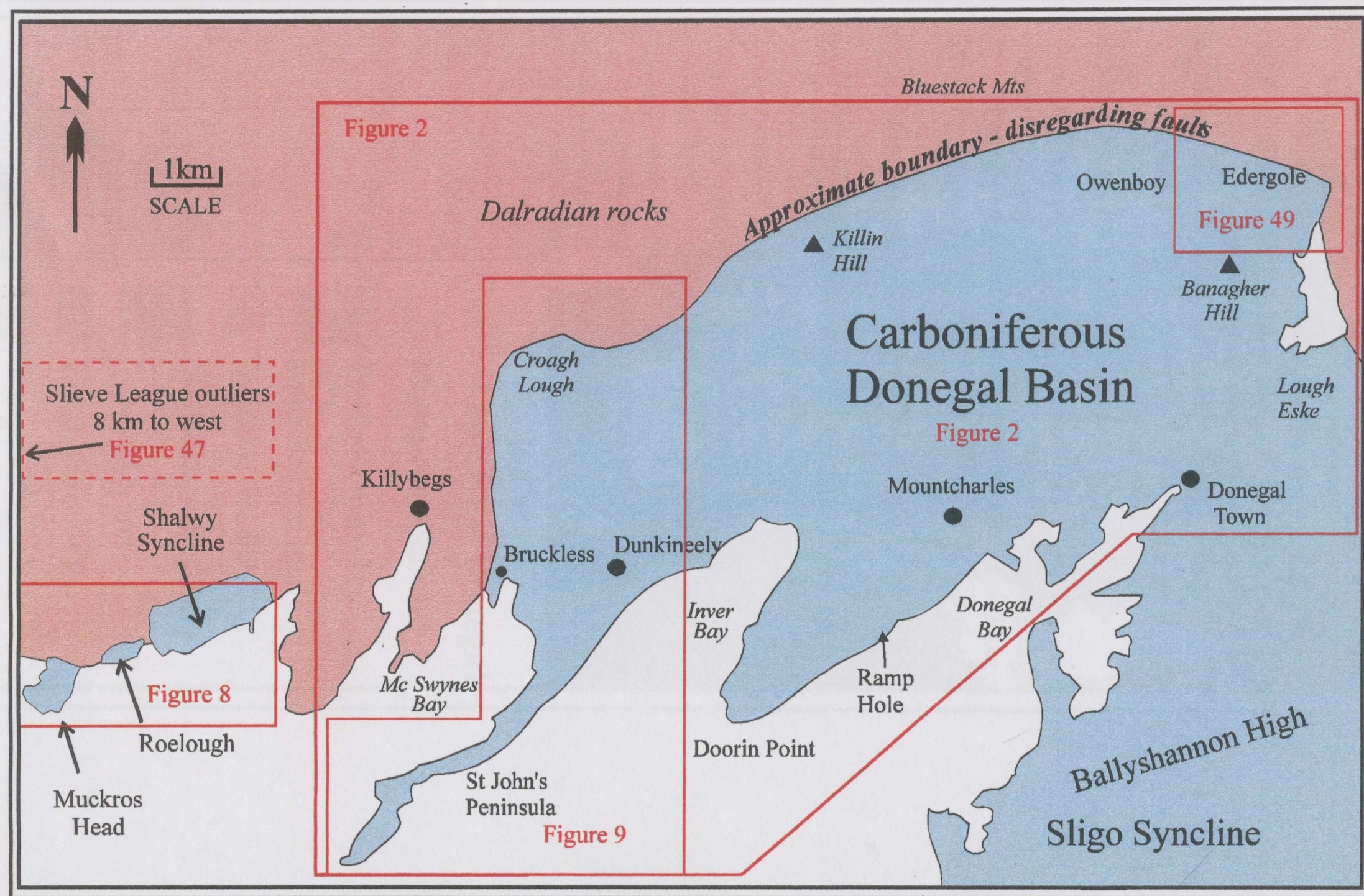


Figure 1 The Carboniferous Basin of Donegal, including the outliers at Shalwy and Muckros Head. The insert boxes refer to geological maps of these areas included within the thesis.

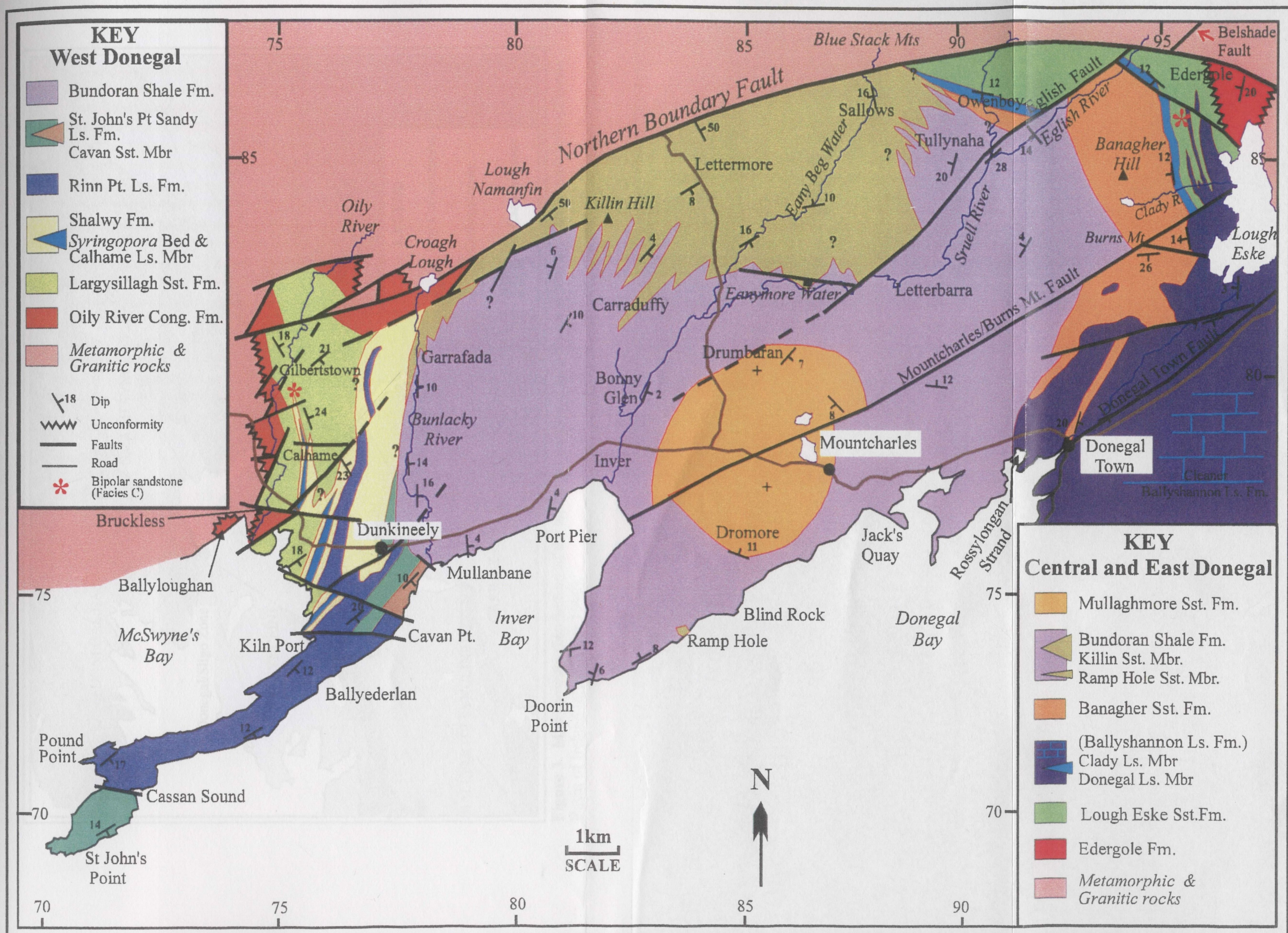


Figure 2 Geological Map of the Carboniferous Donegal Basin

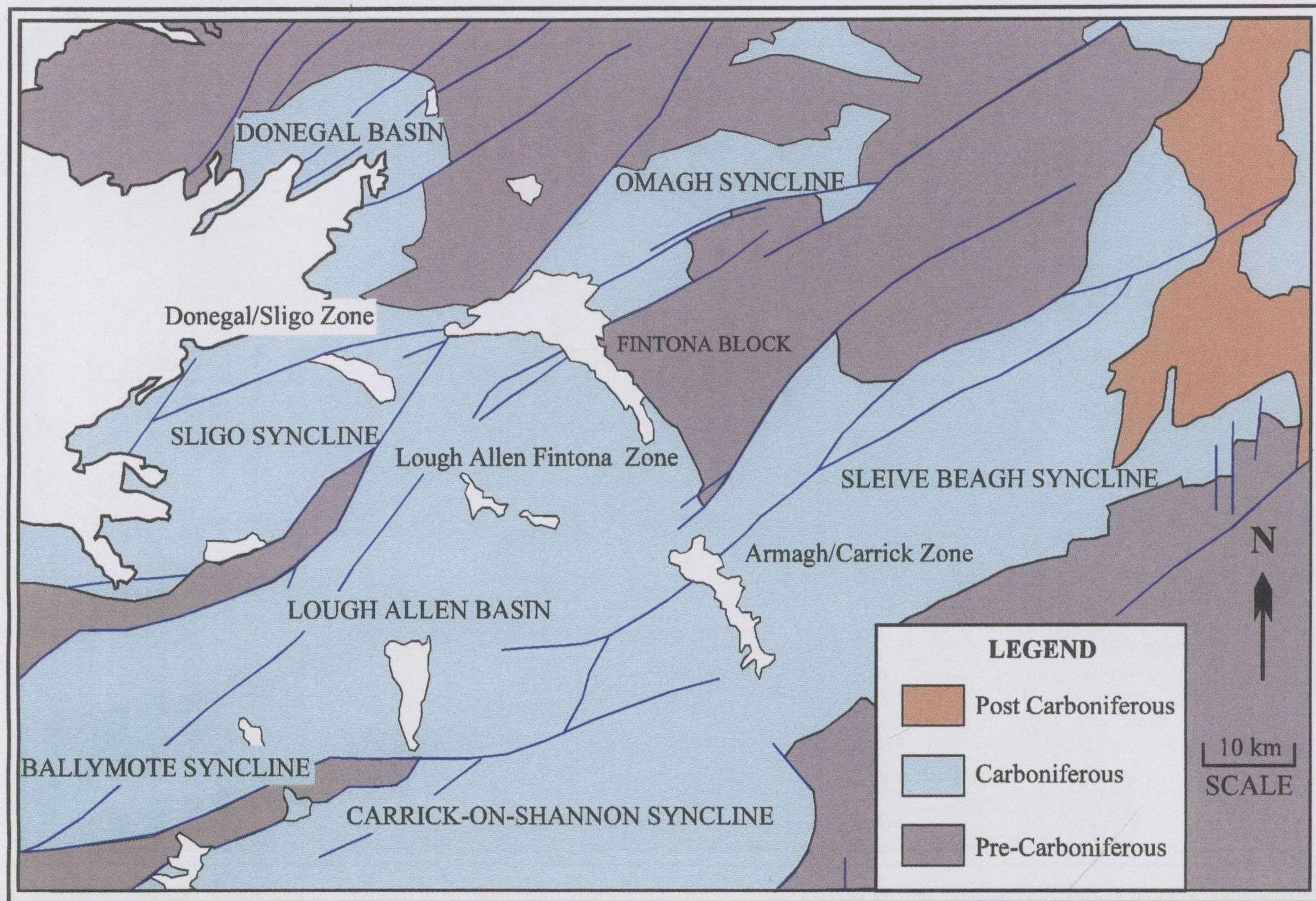


Figure 3 Map showing distribution of the structural zones and sub-basins within the Northwest Carboniferous Basin of Ireland (after Millar 1990).

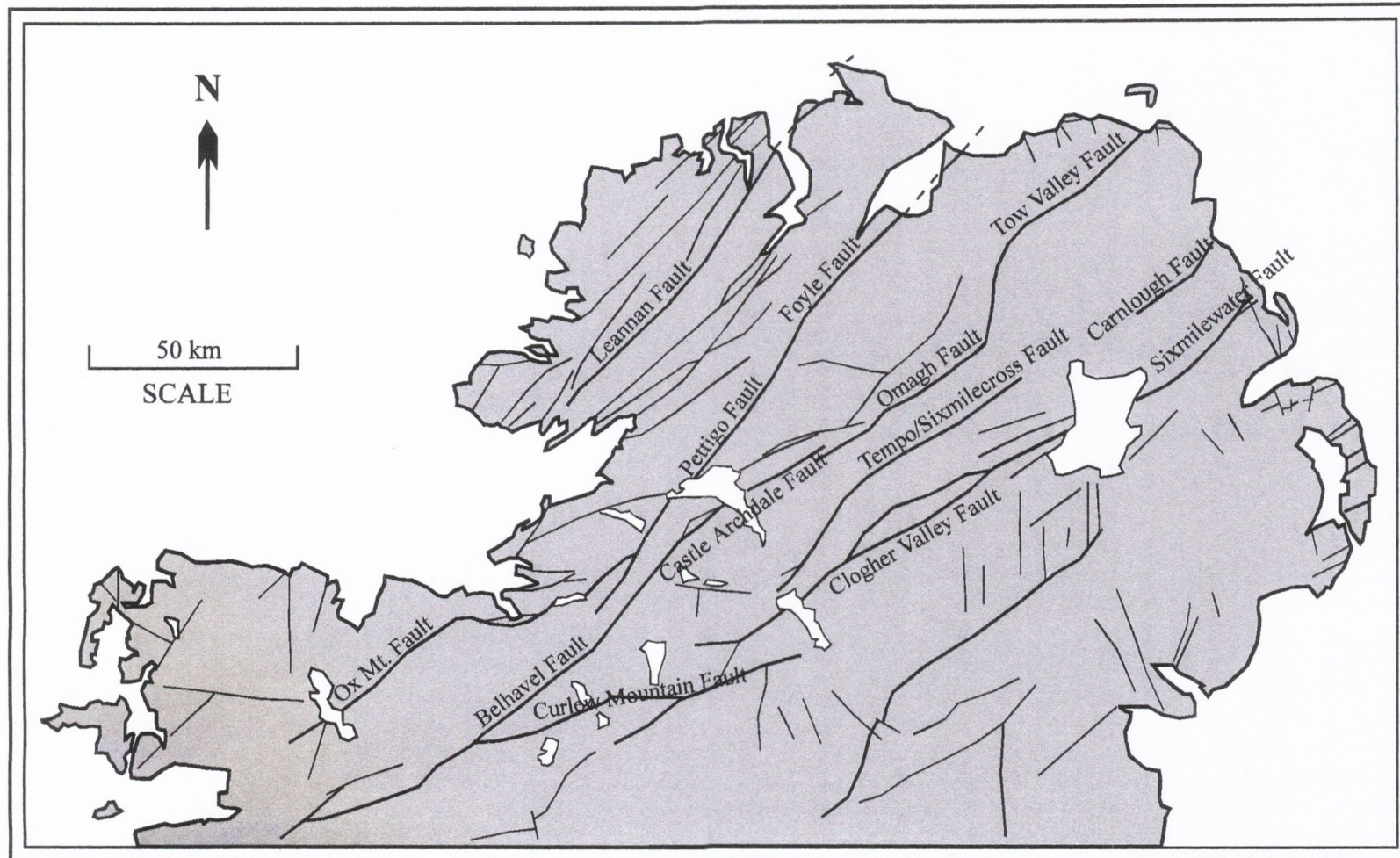
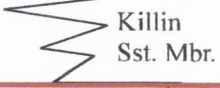
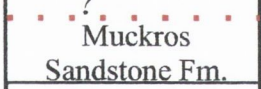
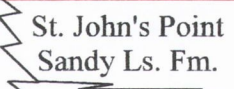
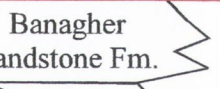
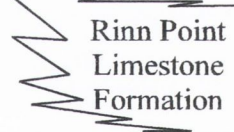
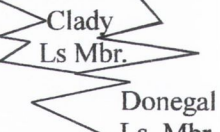
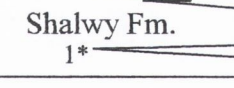
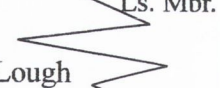
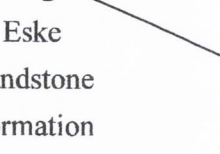


Figure 4 Map of northern Ireland showing the major faults of the region (after Millar 1990). Note the predominant northeast/southwest inherent Caledonian trend.

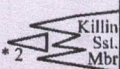
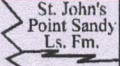
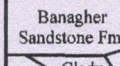
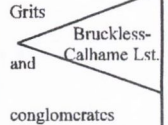
NOMENCLATURE OF THE CARBONIFEROUS DONEGAL BASIN

<i>Shalwy Syncline</i>	<i>Western and central Donegal Basin</i>	<i>Eastern part - Donegal Basin</i>
	Mullaghmore Sandstone Formation	Mullaghmore Sandstone Formation
	Bundoran Shale Formation	Bundoran Shale Formation
		
		
Rinn Point Limestone Formation		
Shalwy Formation		
Largysillagh Sandstone Formation	Largysillagh Sandstone Formation	
Roelough Conglomerate Formation	Oily River Conglomerate Formation	
		Edergole Formation

* 1 'Syringopora Bed' & Calhame Limestone Member
 * 2 Ramp Hole Sandstone Member
 — Arundian stage
 . . . inferred Arundian stage
 - - - Tournaisian unconformity

Figure 5 Stratigraphical succession of the Dinantian Donegal Basin.

STRATIGRAPHIC NOMENCLATURE OF THE CARBONIFEROUS DONEGAL BASIN

19th Century Geol. Survey			George & Oswald (1957), Nevin (1973)			Al Rawi (1972)			Buckman (1992)		Graham (1996)		This study					
Whole area			main Donegal Basin		Shalwy Syncline	main Donegal Basin		Shalwy Syncline	Shalwy Syncline & main Donegal Basin		Shalwy Syncline		Shalwy Syncline	Western part - Donegal Basin	Eastern part - Donegal Basin			
Calp or Middle Limestones	Calp Sandstone	Kildoney & Mountcharles Sst.	Mountcharles Sst.		Doorin Group	Mountcharles Fm.								Mullaghmore Sandstone Formation	Mullaghmore Sandstone Formation			
			Kildoney Sst.			Kildoney Fm.												
	Doorin and Coolmore Shales	Coolmore Shale		Coolmore Fm.		Bundoran Shale Formation	Bundoran Shale Formation											
		Doorin Shale		Inver Formation														
	Lower Calp Shale		Killin Sandstone Banagher Sandstone			Sruell Formation												
Lower Limestones	Ballyshannon Limestone Group and equivalents		St. John's Point Beds		Ballyshannon Group	Banagher Formation		Muckros Hd. Sst. Mbr		Muckros Sst. Mbr			Muckros Sandstone Fm.		Banagher Sandstone Fm.			
			Ballyshannon Lst.			Rinn Point Beds		Rinn Point Lst. Mbr		Rinn Point Beds			Rinn Point Limestone Formation					
			Upper Shalwy Beds			Upper Shalwy Beds		Shalwy Sst. Mbr		Largymore Sst. Mbr			Shalwy Formation		Shalwy Fm. * 1		Donegal Ls. Mbr	
			Bruckless			Lower Shalwy Beds Basal conglomerates		Croaghbeg Fm.		Shalwy Sst. Mbr			Largysillagh Sandstone Formation		Largysillagh Sandstone Formation		Lough Eske Sandstone Formation	
Lower Carboniferous Shales, Sandstones and Conglomerates			Grits		Donegal Group	Darney Point Sandstone Mbr							Largysillagh Sandstone Formation		Largysillagh Sandstone Formation			
						Gilbertstown							Roelough Cong. Mbr		Roelough Cong. Formation			
						Sst. Calhame Mbr												
						Oily River Formation									Fidergole Formation			

* 1 'Syringopora Bed' & Calhame Ls. Mbr

* 2 RampHole Sandstone Member

— Arundian stage

• • • inferred Arundian stage

— Toursaisian unconformity

Figure 6 Comparison of the present stratigraphic nomenclature (far right) with previous work in the Carboniferous Donegal area.

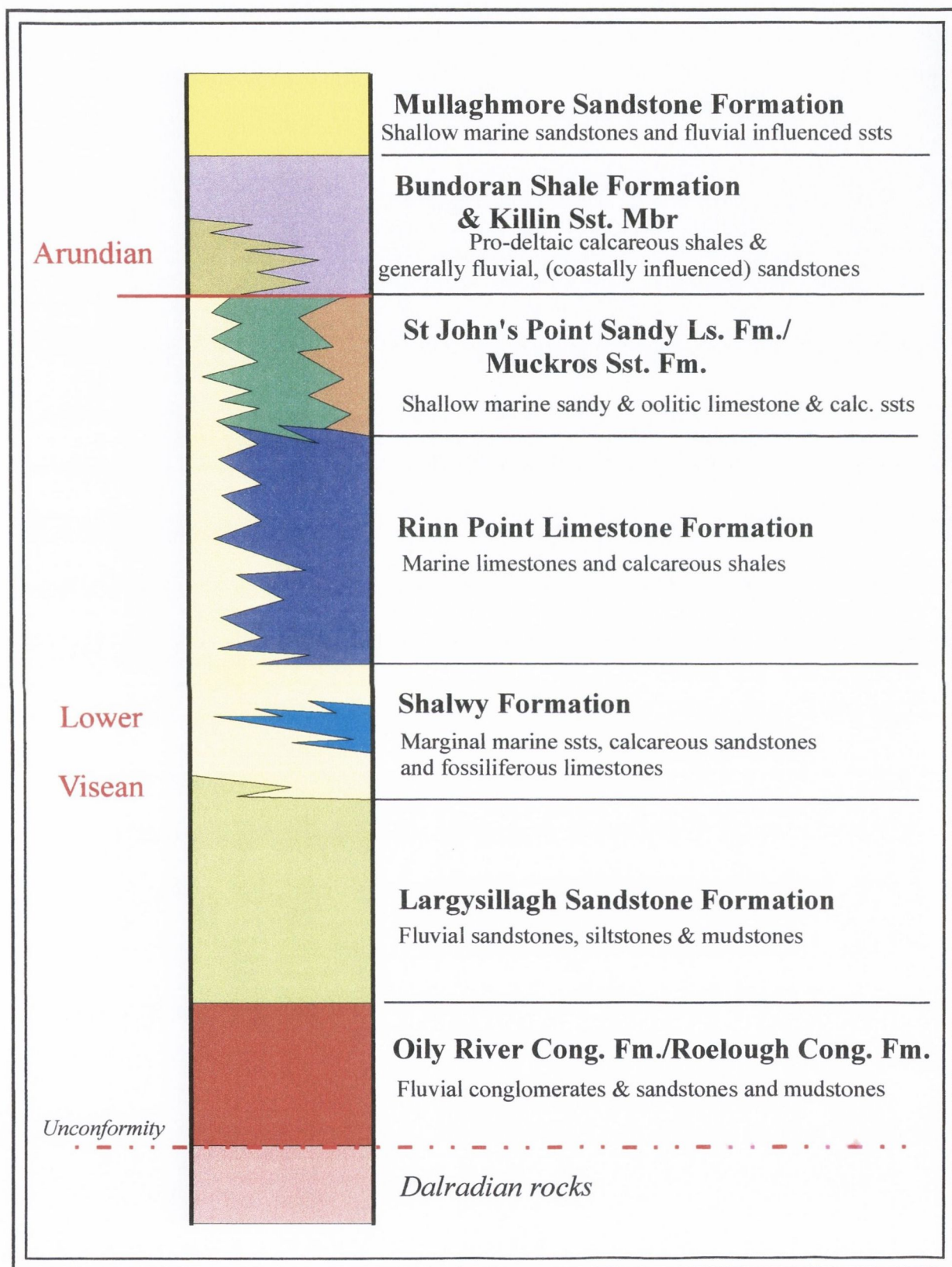


Figure 7 Simplified stratigraphy of the western areas of the Carboniferous Donegal Basin.

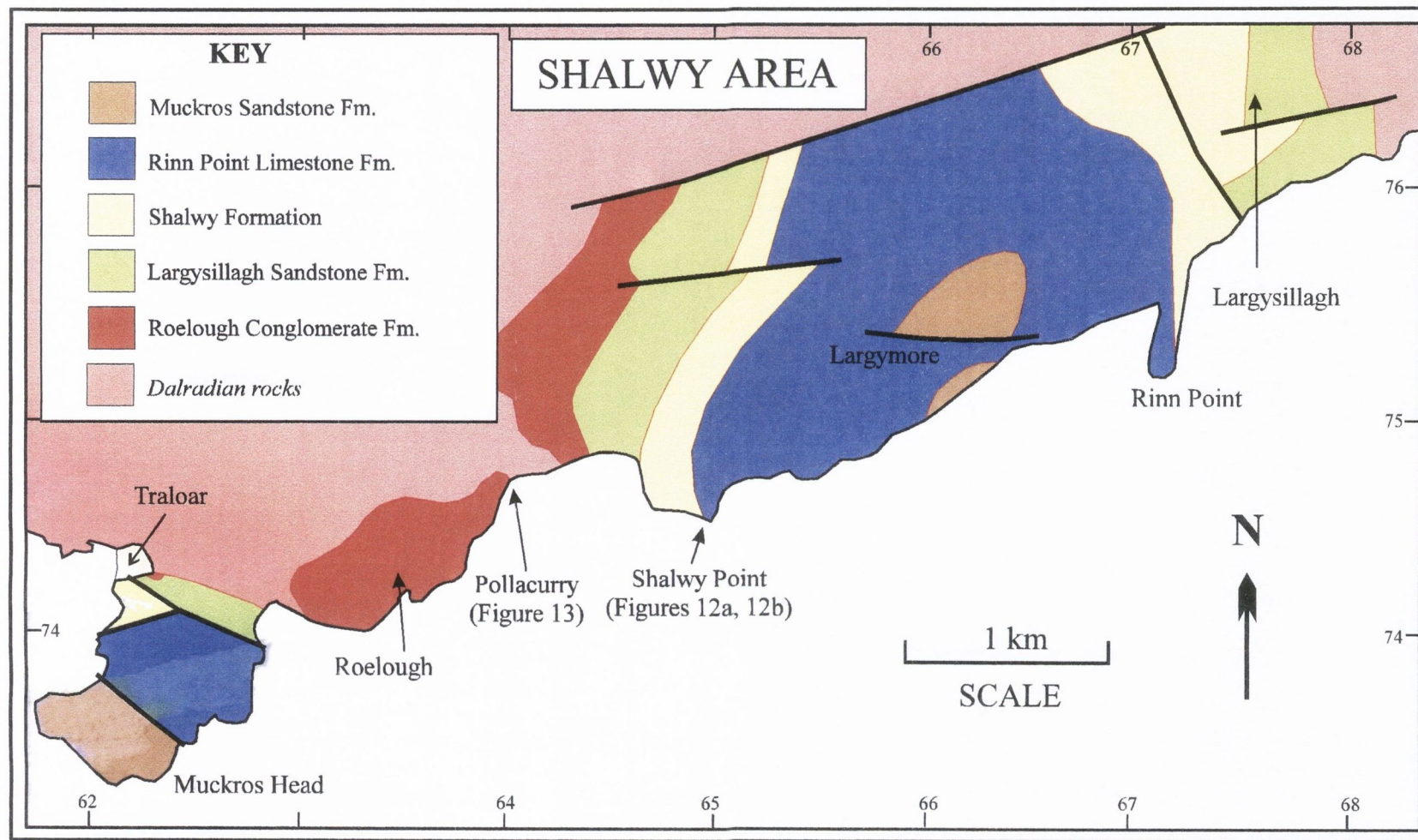


Figure 8 Geological map of the Shalwy Syncline, the Roelough outlier and the Muckros Head outlier (modified after Graham 1996). The logged sections of Shalwy and Pollacurry areas (in Figures 12a, 12b and 13, respectively) are outlined.

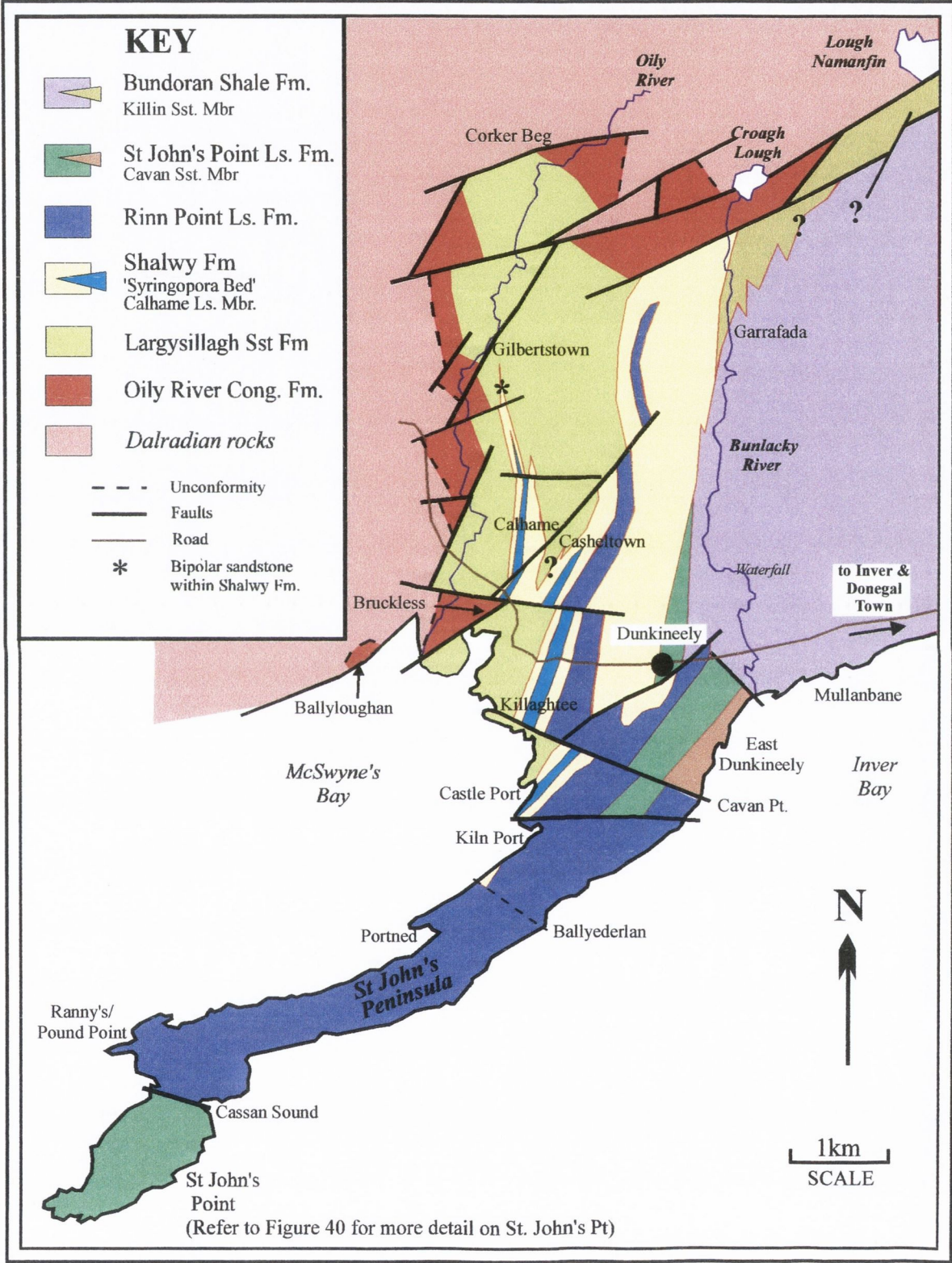


Figure 9 Geological map of the western part of the Donegal Basin.

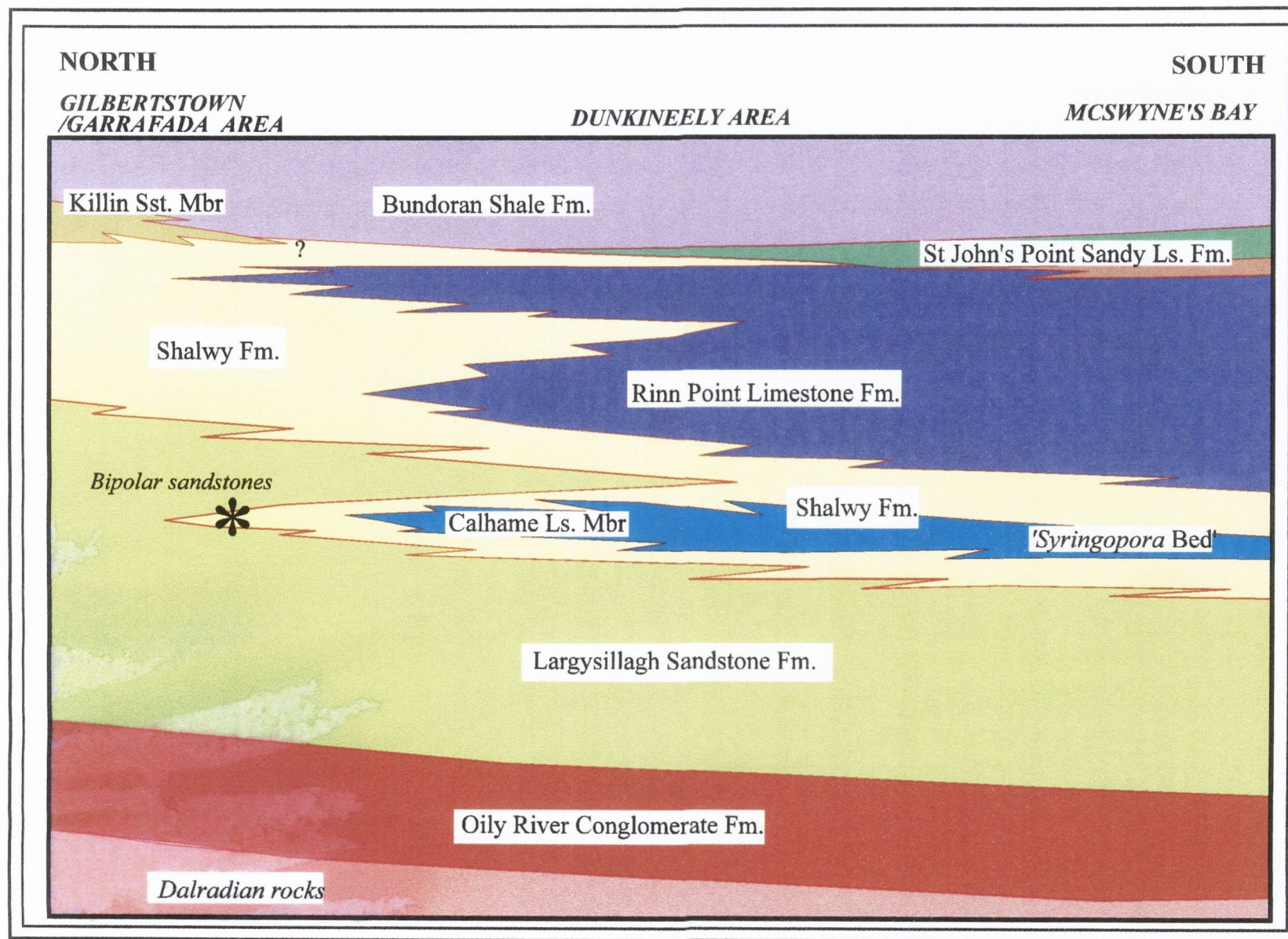


Figure 10 Schematic diagram showing lateral variation of facies over a 5 km N/S strike in the western part of the Donegal Basin

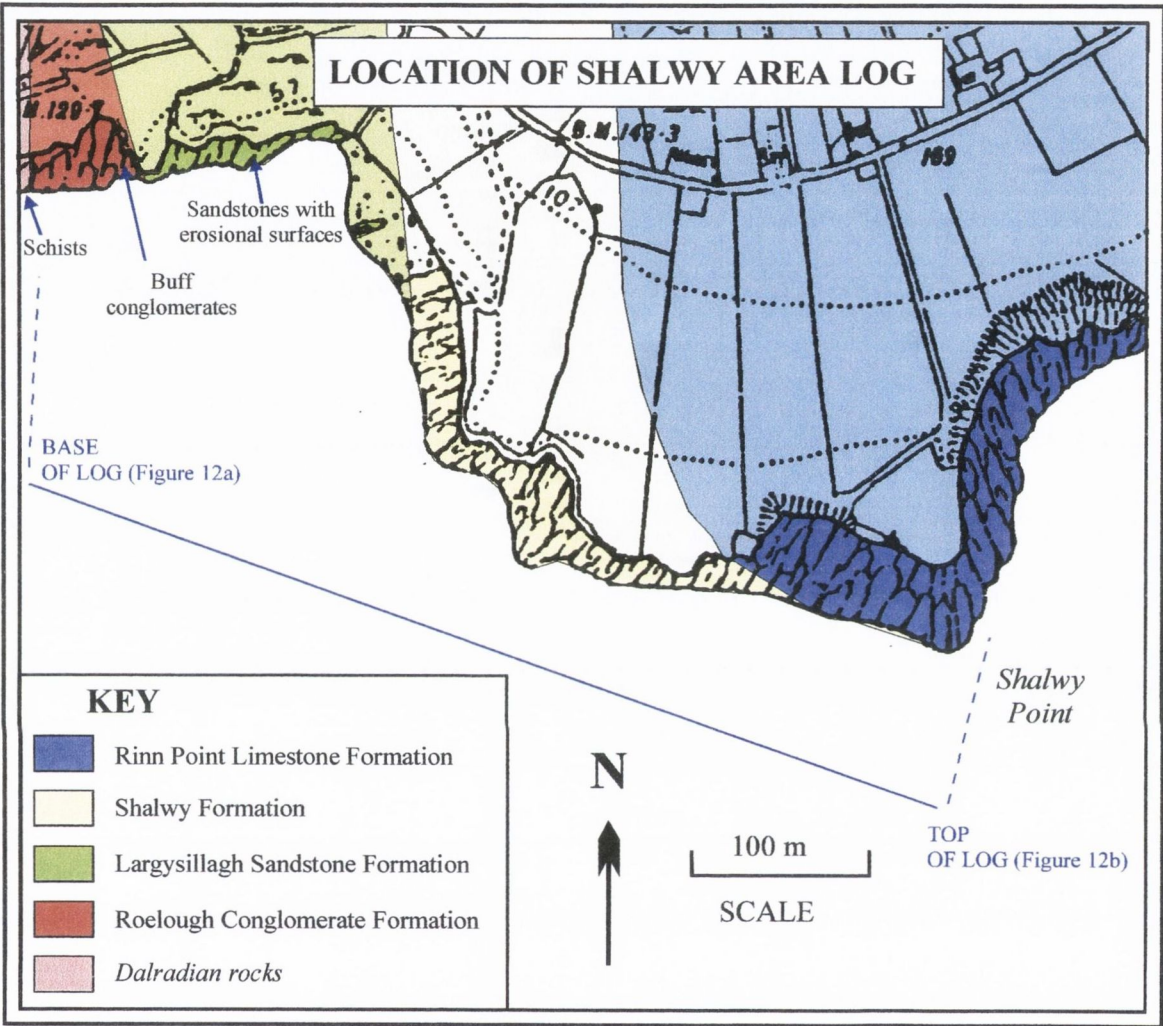


Figure 11 Map of the Shalwy Point area showing location of the extensive facies log within the Shalwy area (refer to Figures 12a and 12b).

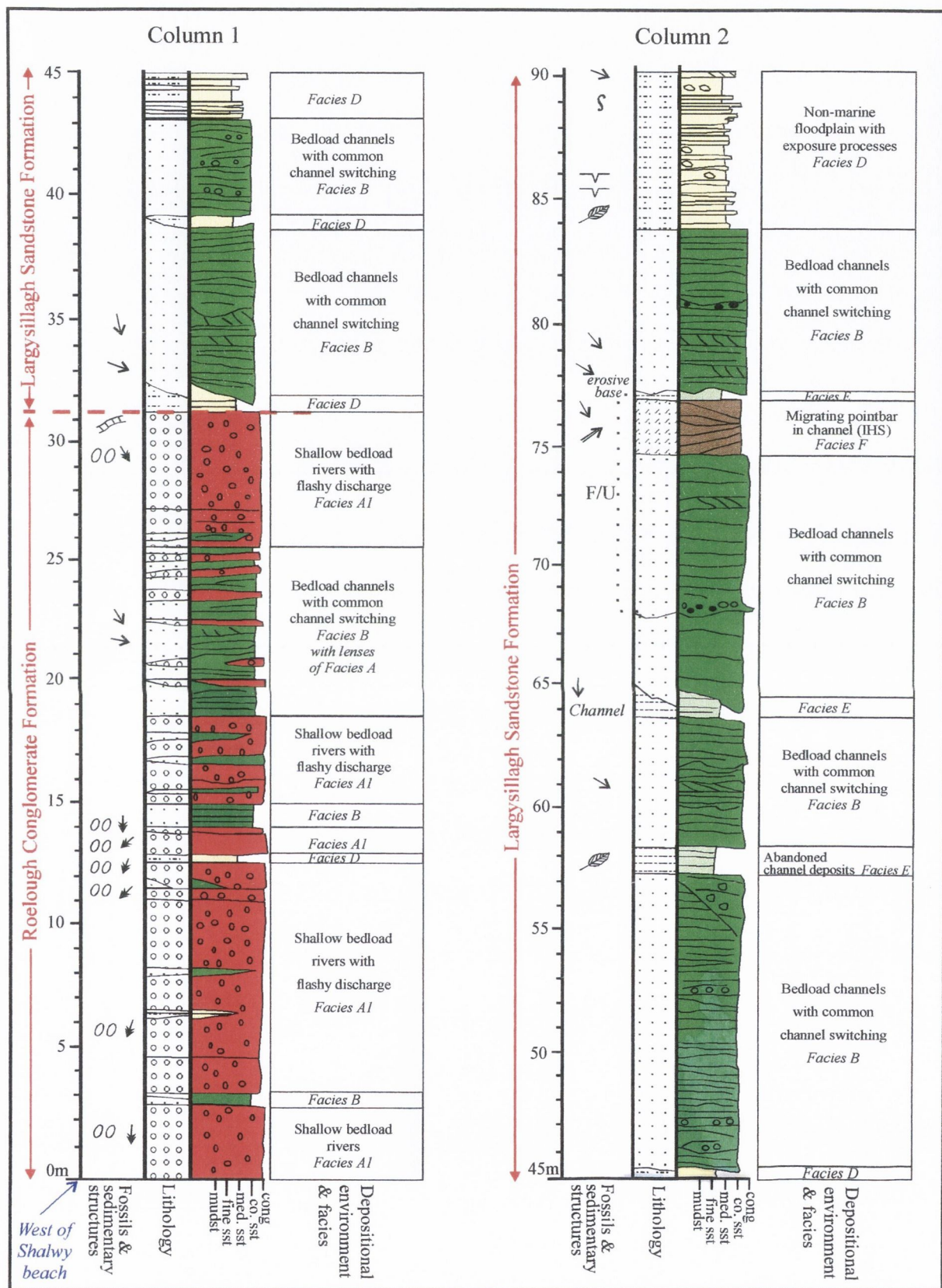


Figure 12a Lithofacies log of the Shalwy area - Columns 1 & 2. Refer to Figure 11 for location and enclosed legends for explanation to log symbols.

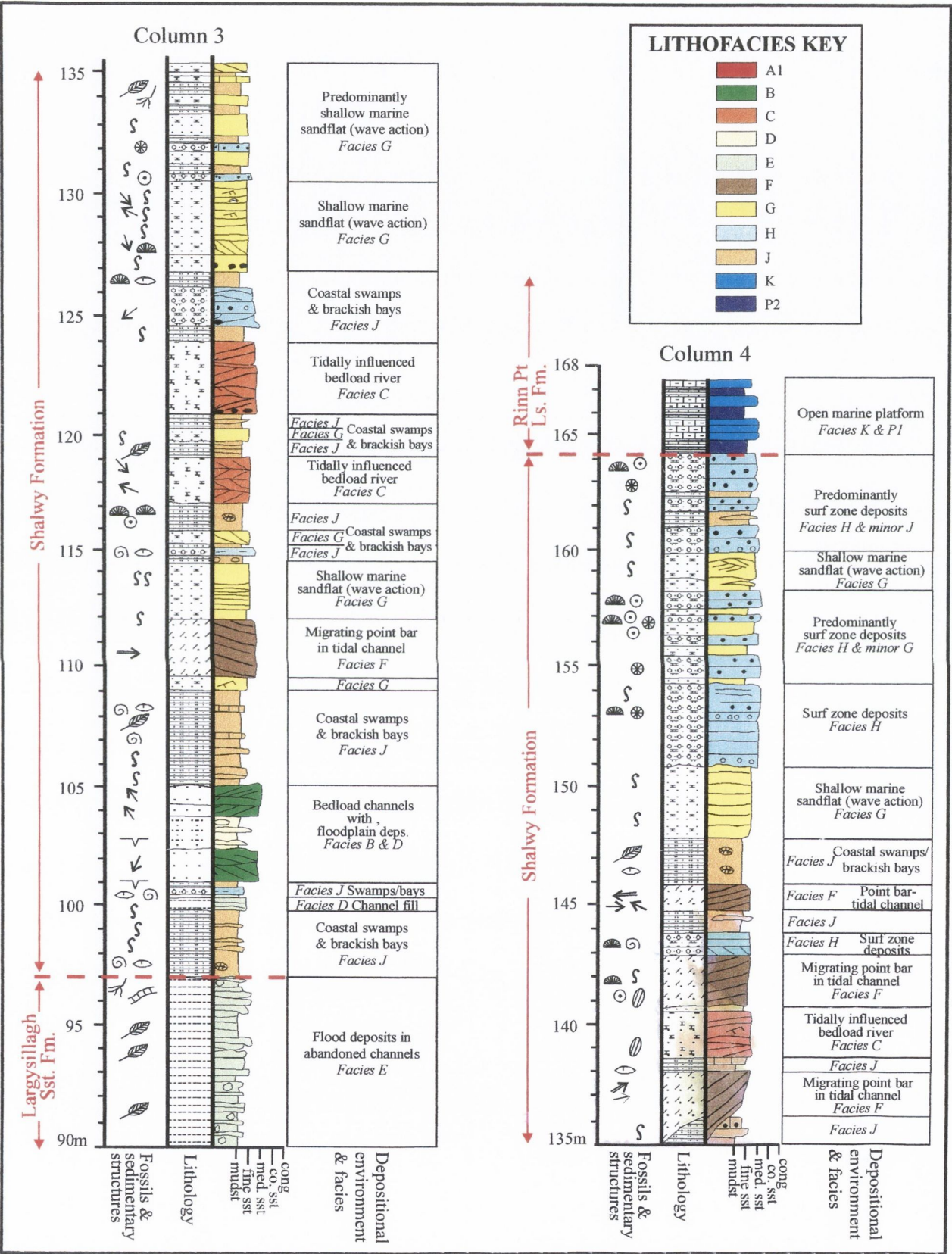
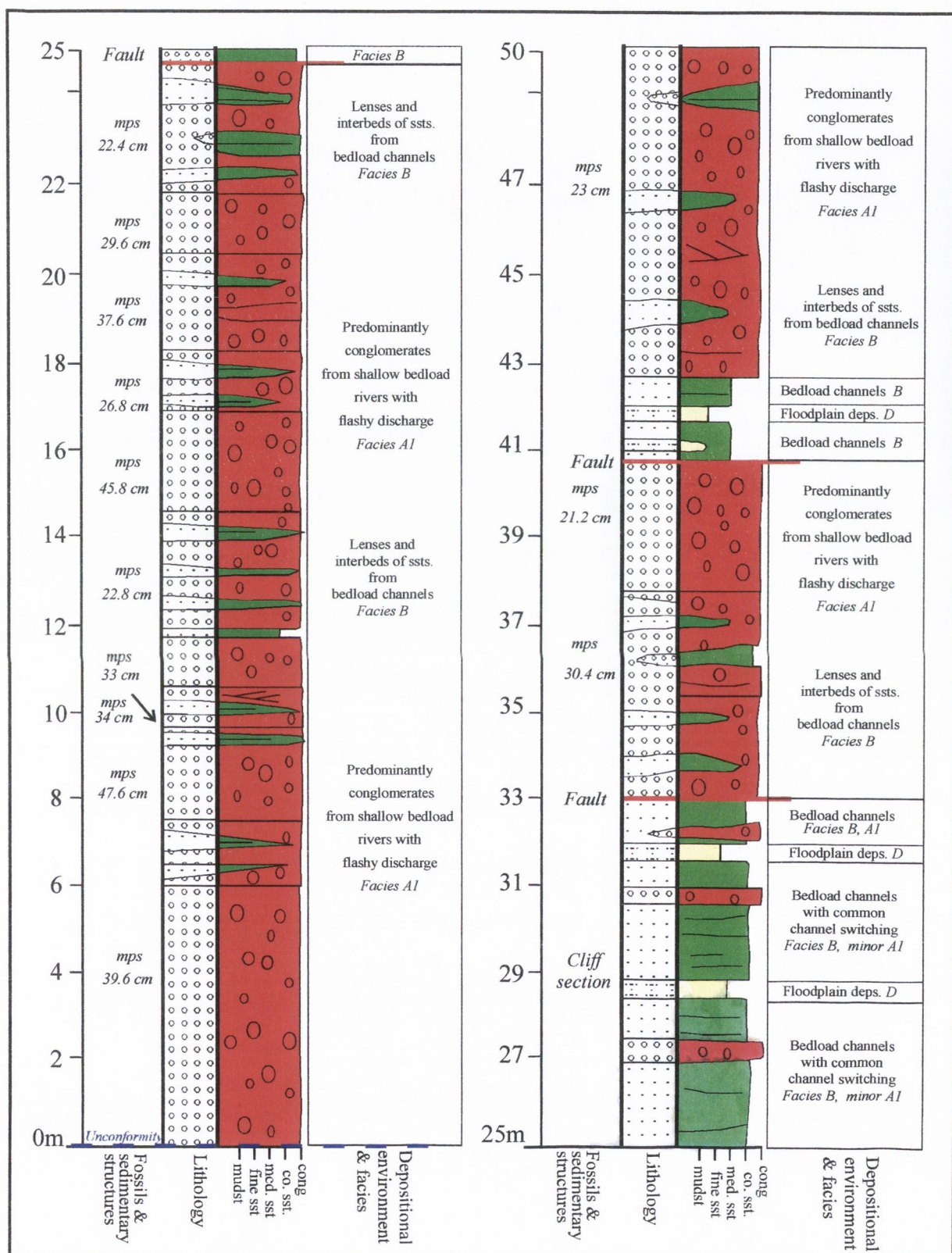


Figure 12b Lithofacies log of the Shalwy area - Columns 3 & 4. Refer to Figure 11 for location and enclosed legends for explanation to log symbols.



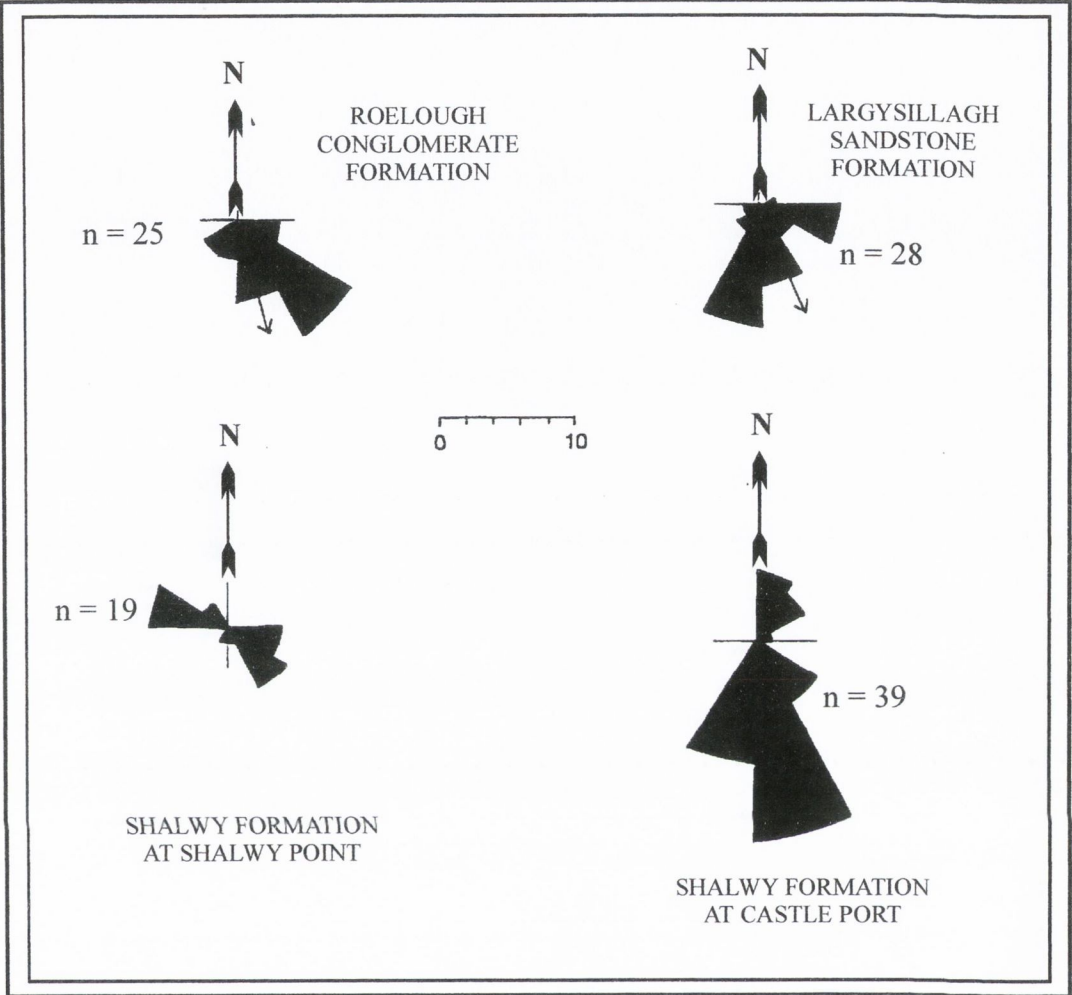


Figure 14 Palaeocurrent data (current to) from the Roelough Conglomerate Formation, the Largysillagh Sandstone Formation and the Shalwy Formation (from Graham 1996). The thin arrows indicate vector means on unimodal distributions.

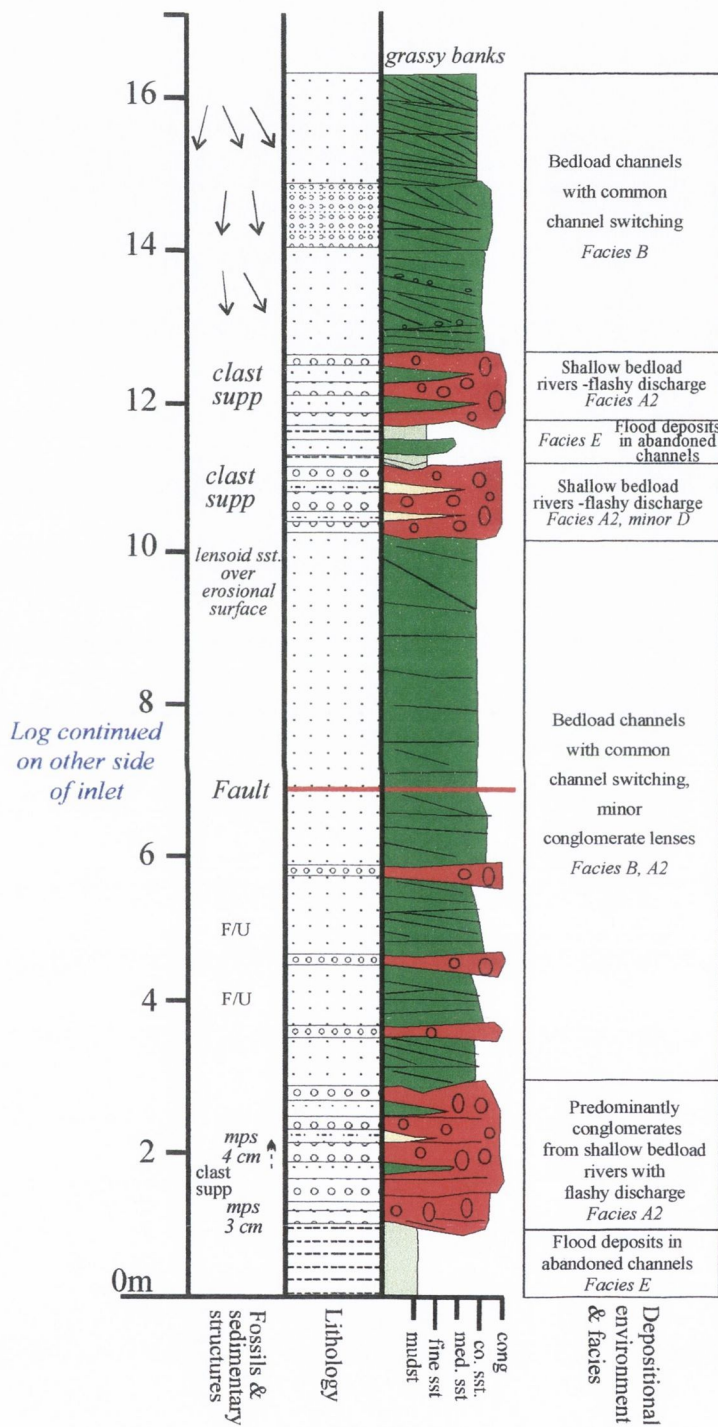


Figure 15 Lithofacies log of the Oily River Conglomerate Formation at Ballyloughan Strand, west of Bruckless (GR17381 37596). Refer to enclosed legends for explanation to log symbols.

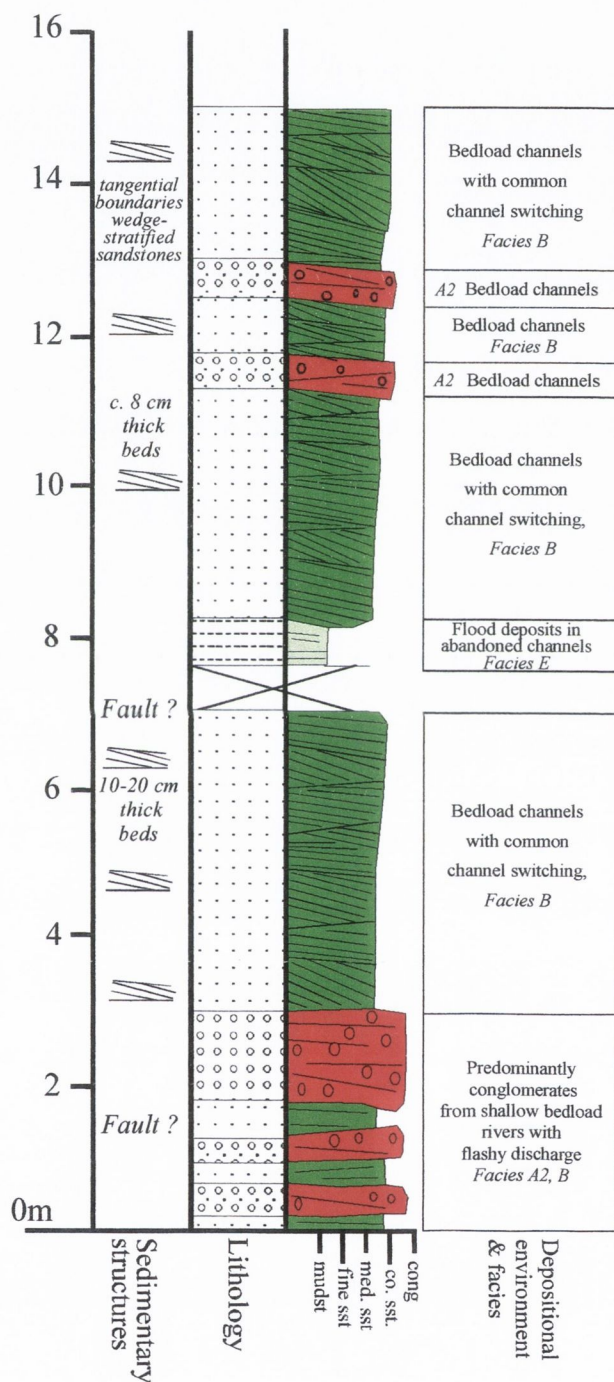


Figure 16 Lithofacies log of the Oily River Conglomerate Formation within the Oily River (north of Bruckless - GR17500 37790). Refer to enclosed legends for explanation to log symbols.

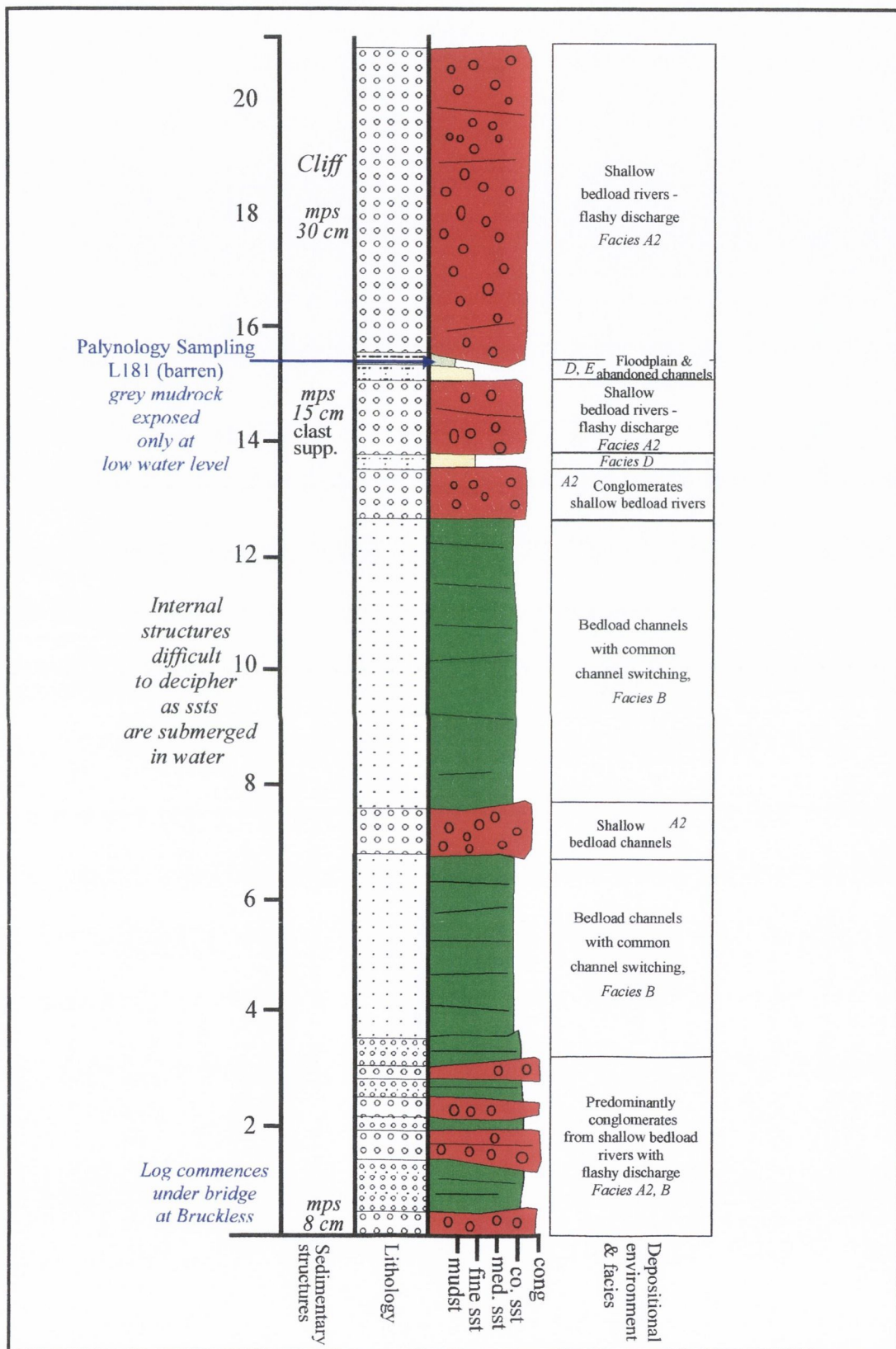


Figure 17 Lithofacies log of the Oily River Conglomerate Formation at Oily Bridge, Bruckless (GR17467 37694). Refer to enclosed legends for explanation to log symbols.

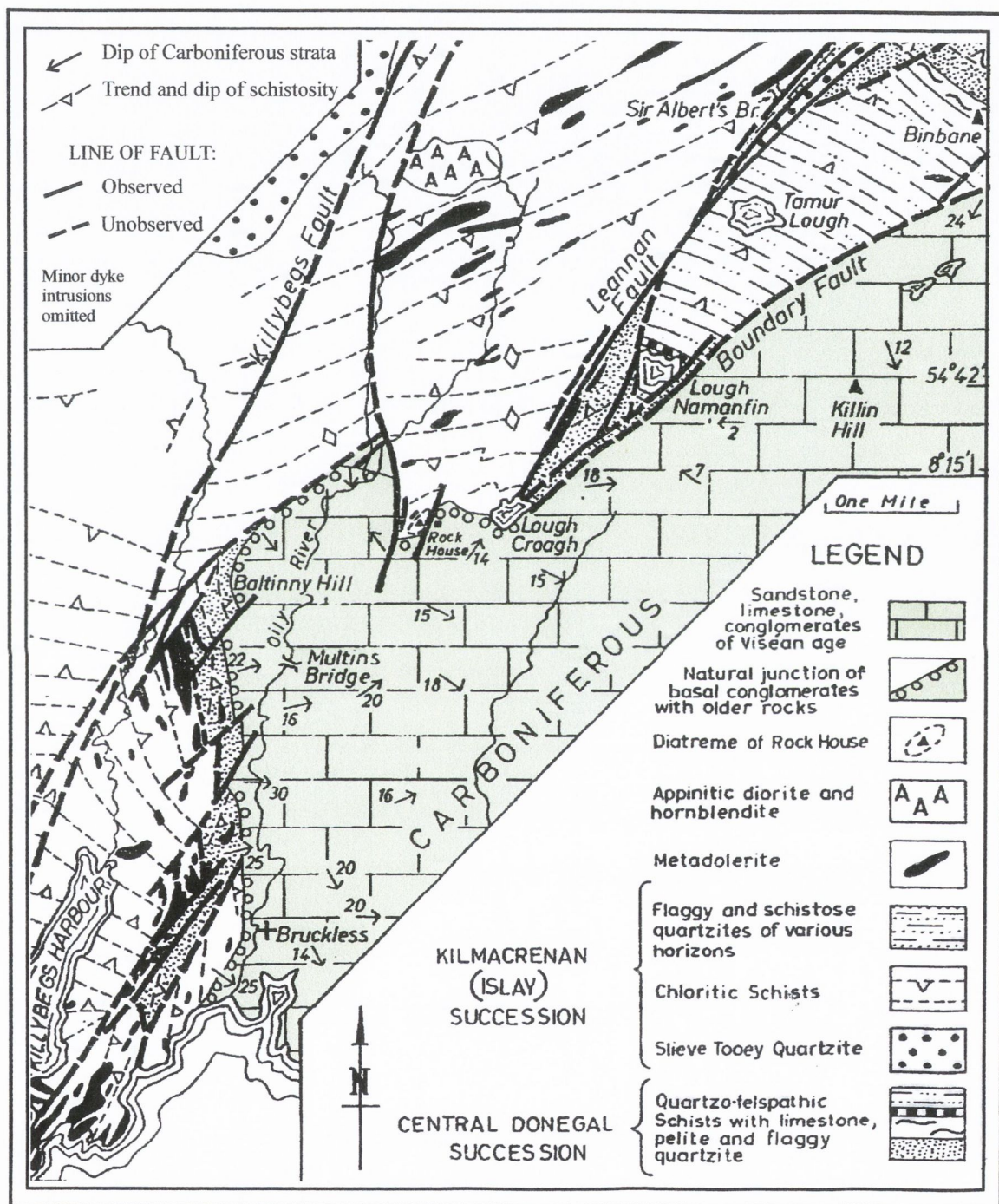
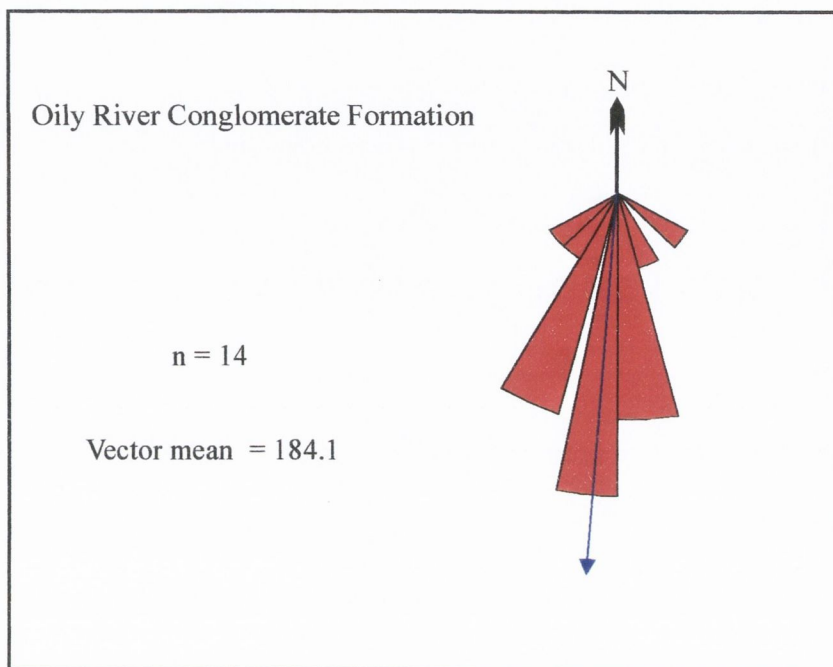


Figure 18 Geological sketch-map of the Bruckless to Killin Hill area by Pitcher and Berger (1972). Colour has been added to clarify the Carboniferous rocks.

(a)



(b)

Facies distribution (%) within the Roelough Conglomerate Fm. at Shalwy

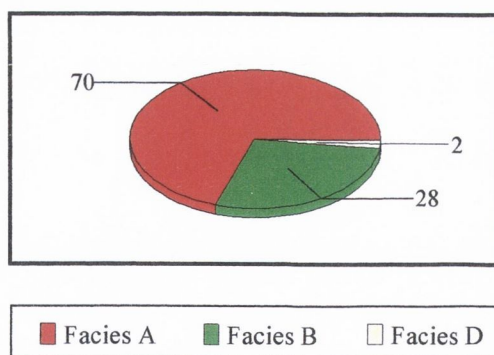


Figure 19 (a) Palaeocurrent data (current to) from the Oily River Conglomerate Formation **(b)** Facies distribution within the Roelough Conglomerate Formation at Shalwy (refer to Figure 12a).

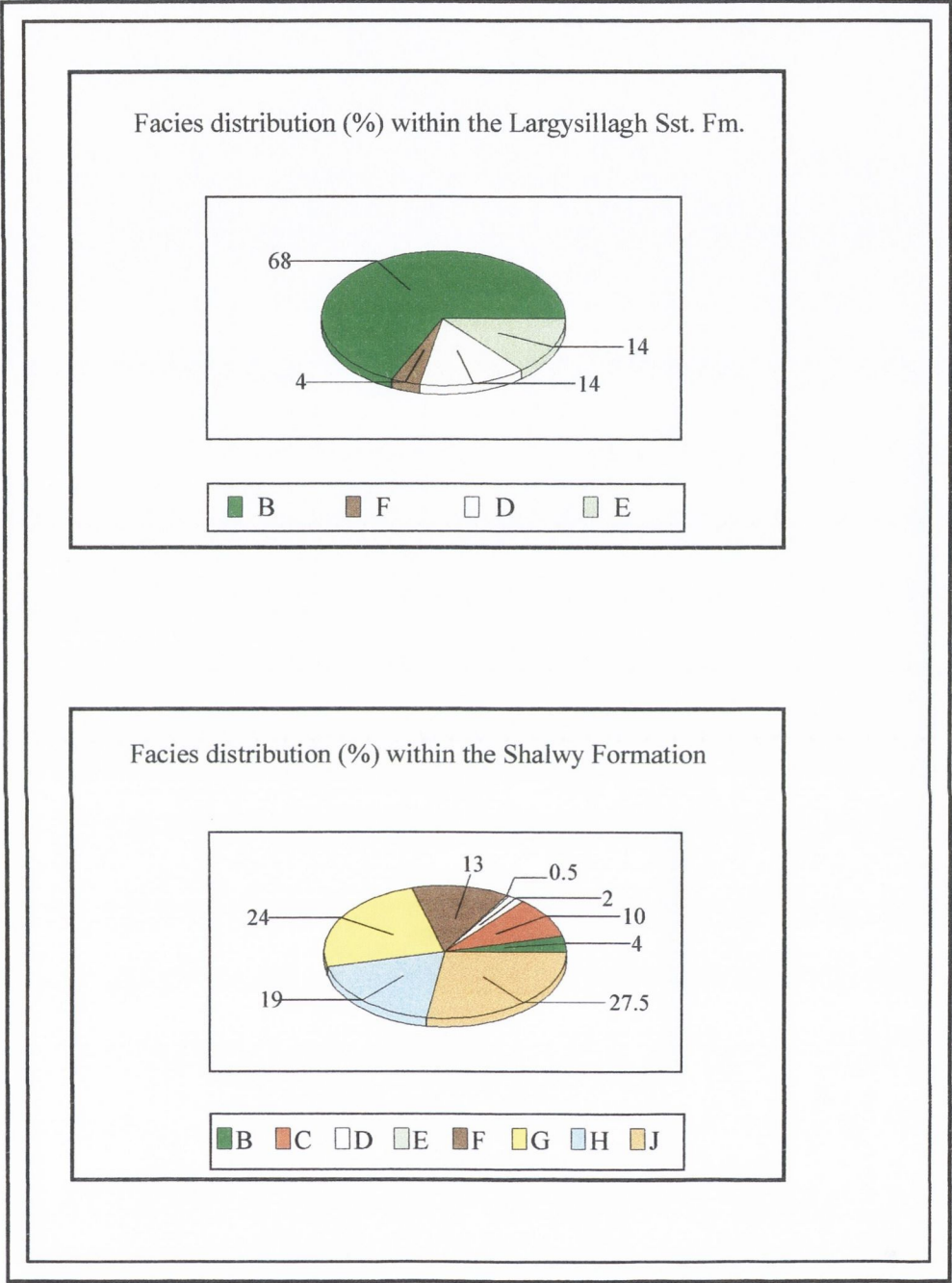


Figure 20 (a) Facies distribution within the Largysillagh Sandstone Formation at Shalwy **(b)** Facies distribution within the Shalwy Formation at Shalwy. Refer to Figures 11a and 11b for the logs relevant to both piecharts, respectively.

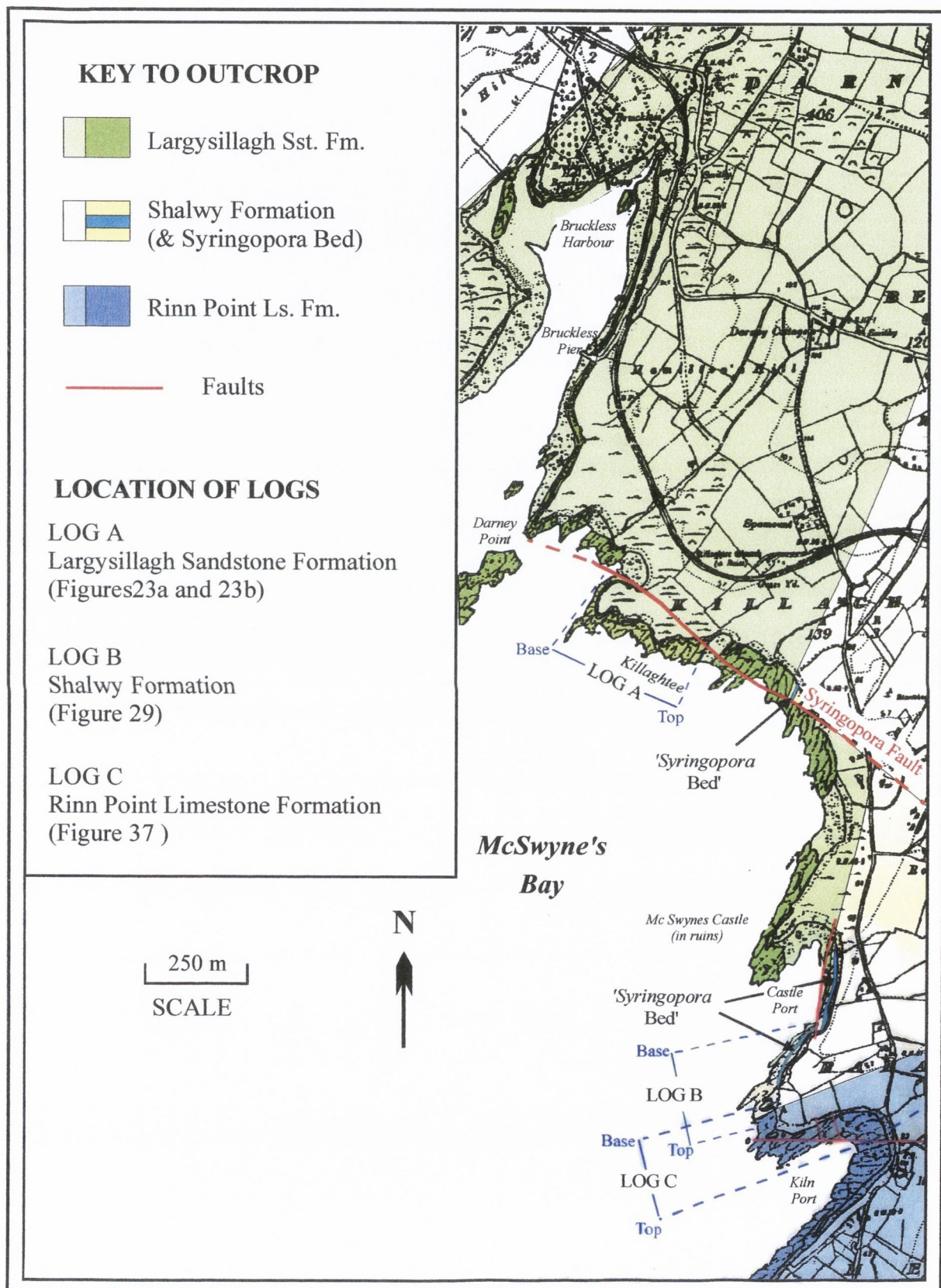


Figure 21 Map of the McSwyne's Bay area showing the locations of the 'Syringopora Bed' and logs of the Largysillagh Sandstone Formation, Shalwy Formation and the Rinn Point Limestone Formation.

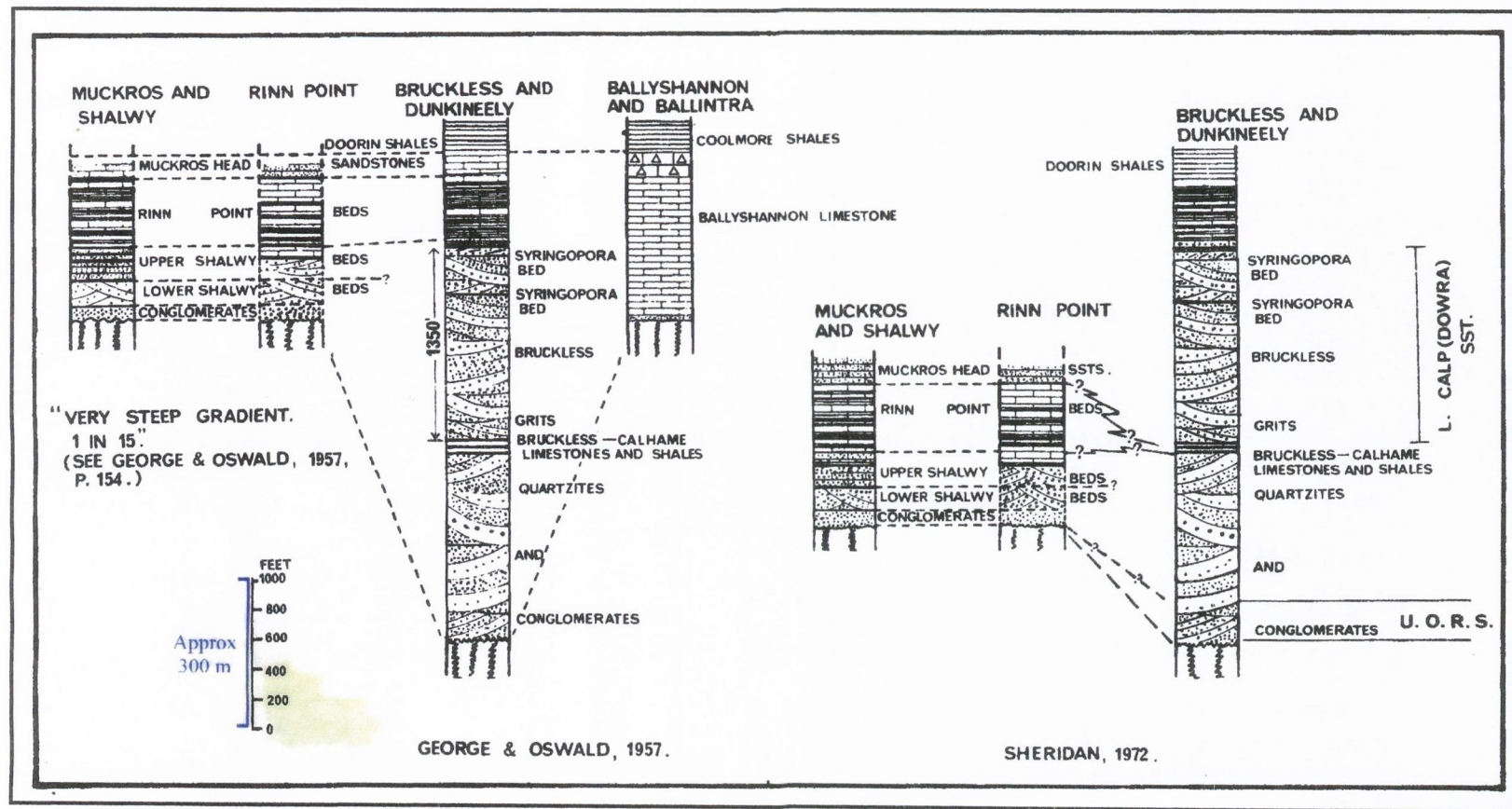


Figure 22 Alternative stratigraphical correlations in the Shalwy Syncline and the western part of the Donegal Basin from George & Oswald (1957) and Sheridan (1972).

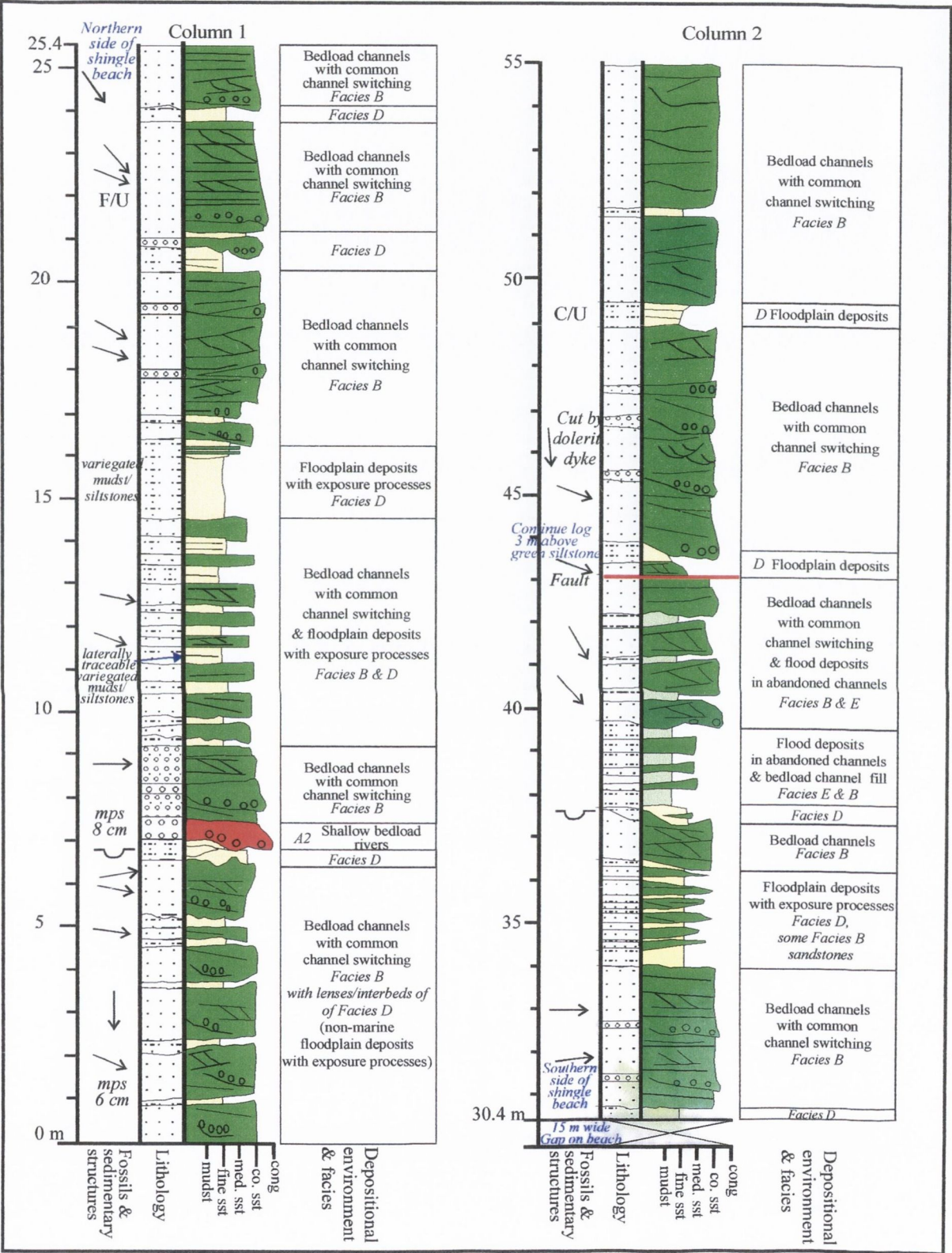


Figure 23a Lithofacies log of the Largysillagh Sandstone Formation along McSwyne's Bay (Part 1 Columns 1 & 2). Log commences at Killaghtee (GR17500 37538). Refer to enclosed legends for explanation to log symbols.

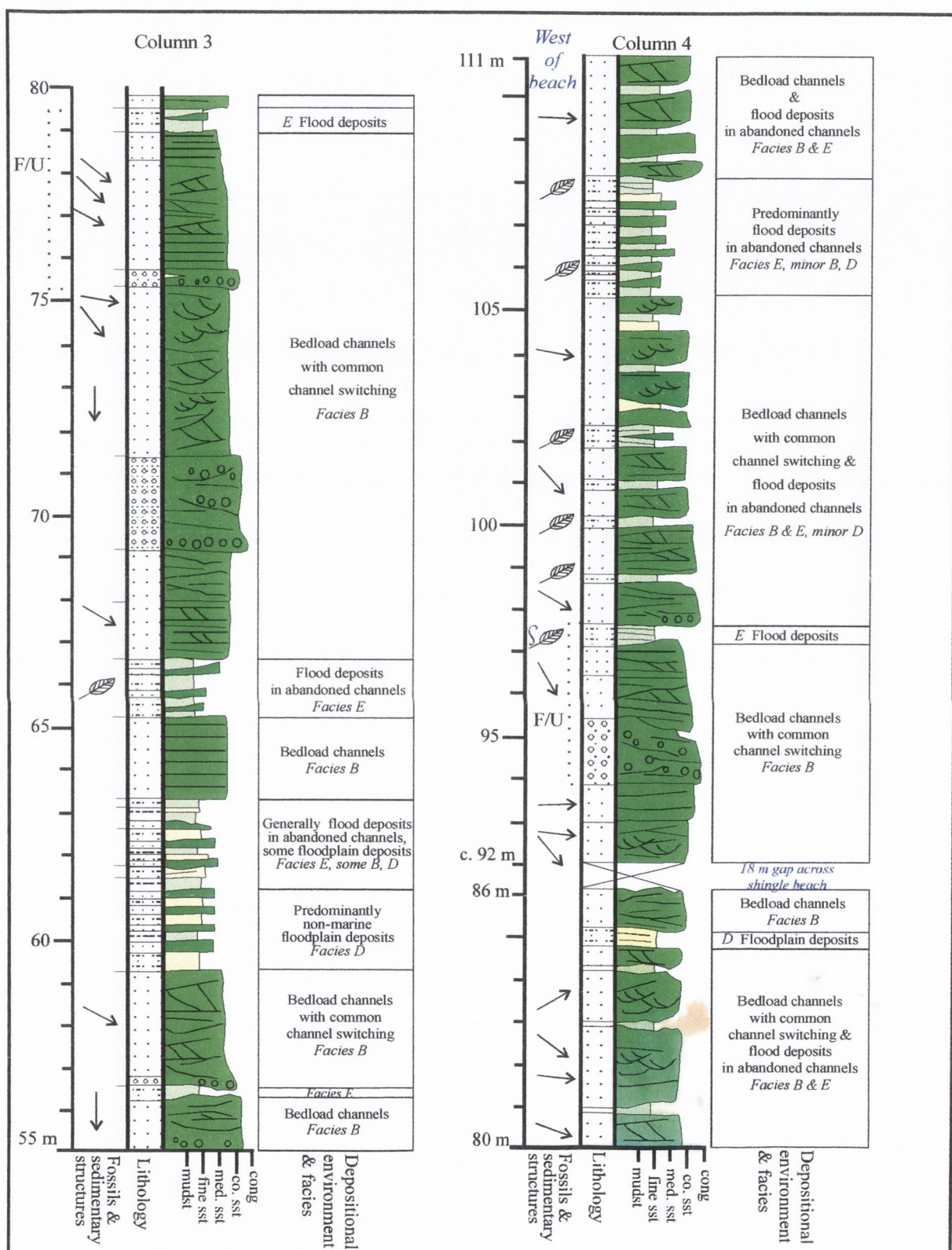


Figure 23b Lithofacies log of the Largysillagh Sandstone Formation along McSwyne's Bay (Part 2 Columns 3 & 4). Refer to enclosed legends for explanation to log symbols.

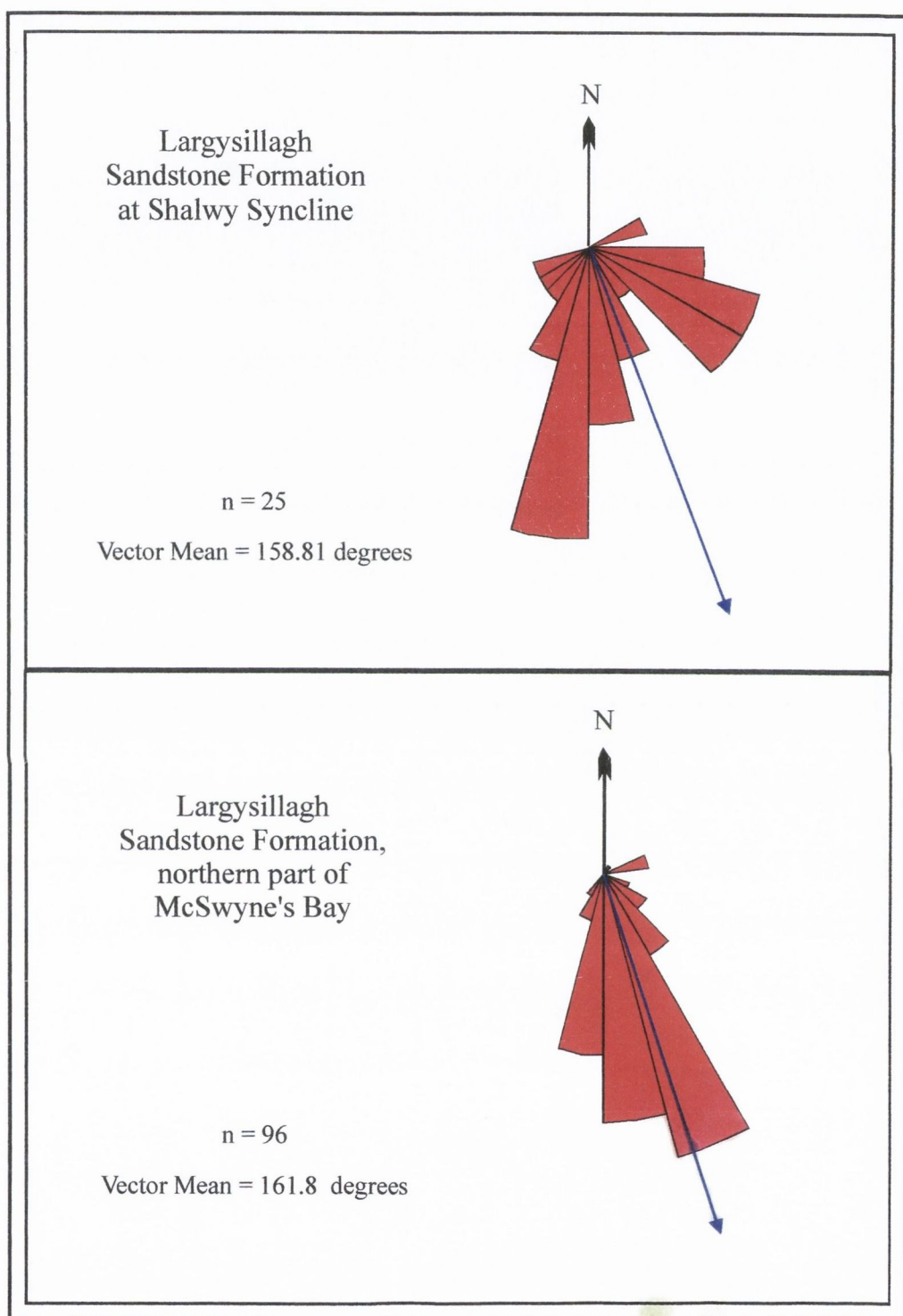


Figure 24 Palaeocurrent data from cross-strata (current to) from the Largysillagh Sandstone Formation at Shalwy and McSwyne's Bay. Arrows indicate vector means.

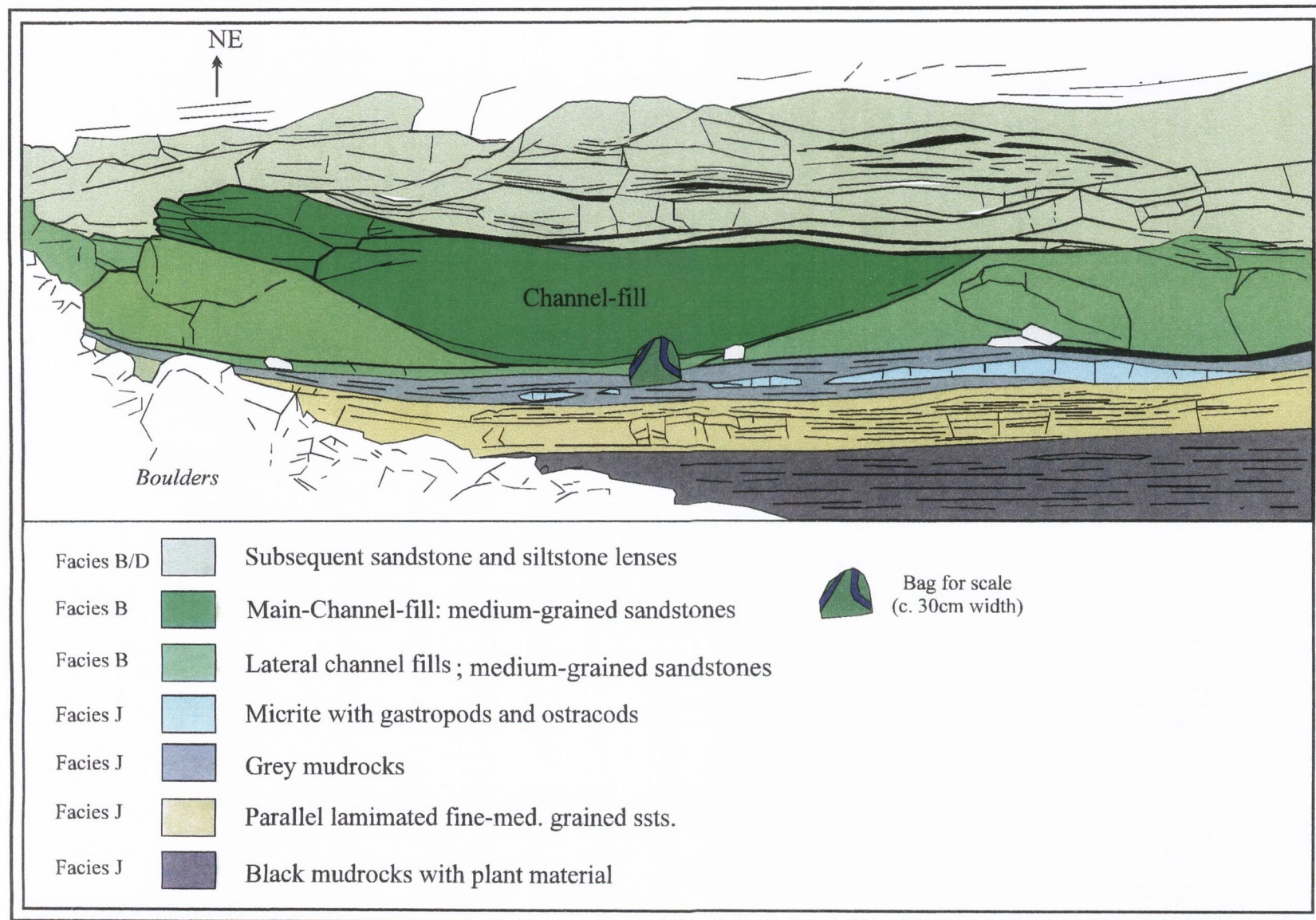


Figure 25 Channelled sequence at the base of the Shalwy Formation at Shalwy (refer to Figures 12b - from 97 metres)

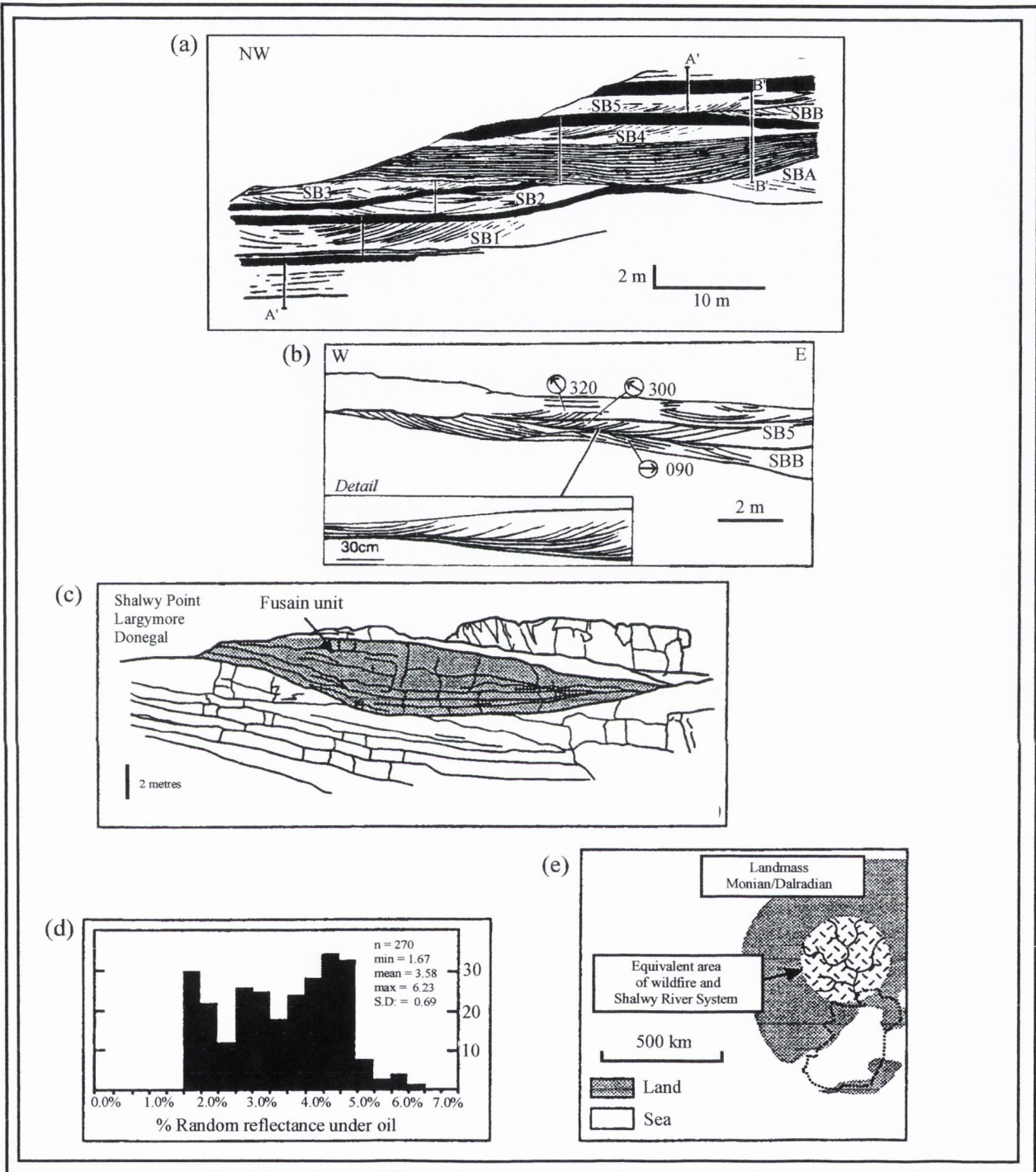


Figure 26 Shalwy Point: **(a)** Composite field sketch of the architecture of the sandstone bodies (SB1-5, SBA, SBB) Mudstone is shown in black, sandstone in white. **(b)** Sketch of bimodal cross-bedding (herring-bone cross-stratification) in sandstone bodies SB5 and SBB. Inset shows details of asymptotic cross-beds with clay drapes. **(c)** Field sketch of the fusain unit. **(d)** Random reflectance of fusain from the fusain unit **(e)** Proposed area of wildfire to produce charcoal found in the fusain unit. Subfigures (a), (b) and (e) are from Nichols and Jones (1992). Subfigures (c) and (d) are from Scott and Jones (1994).

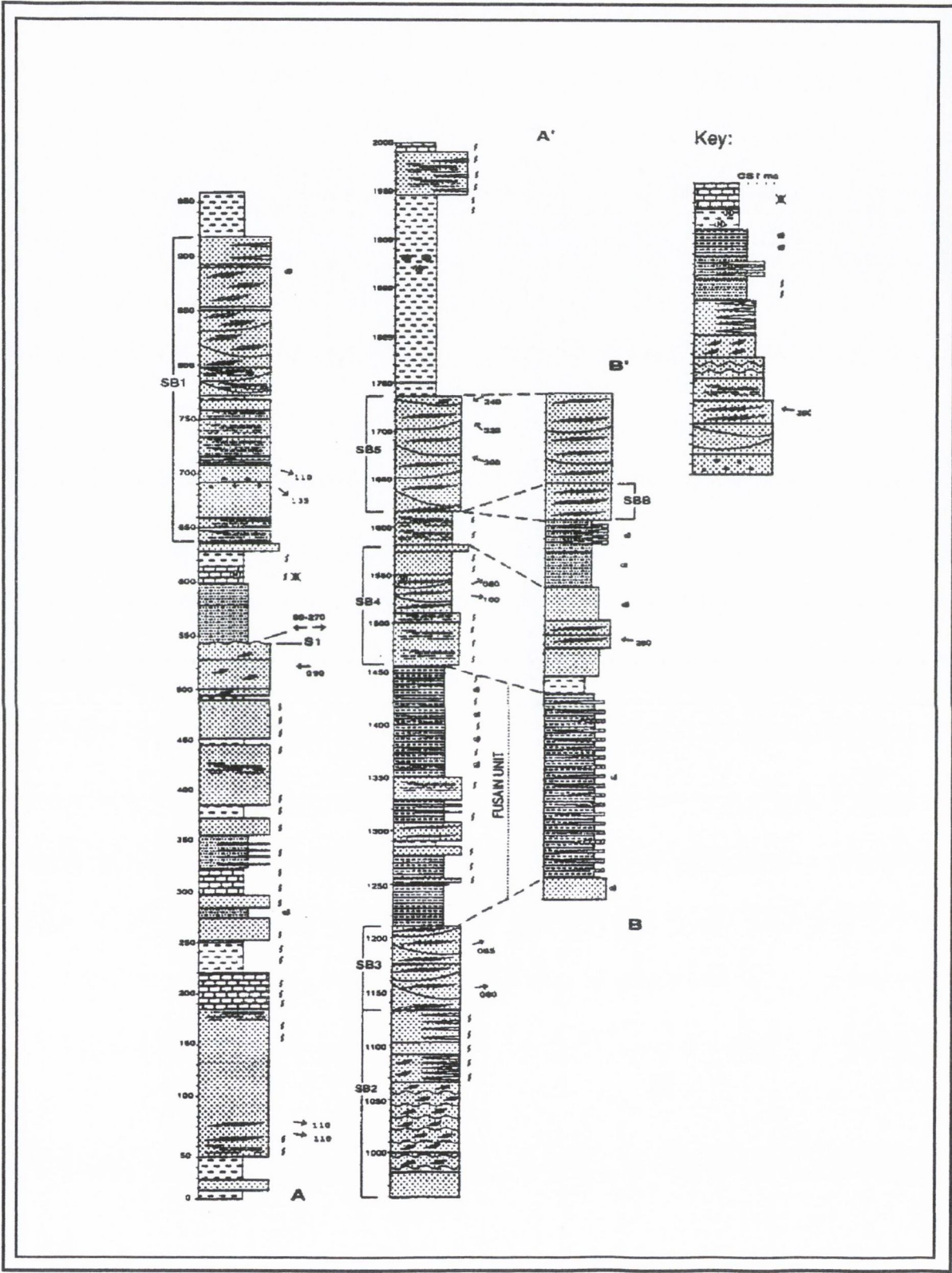


Figure 27 Sedimentary logs from Nichols and Jones (1992) through part of the Shalwy Formation at Shalwy Point.

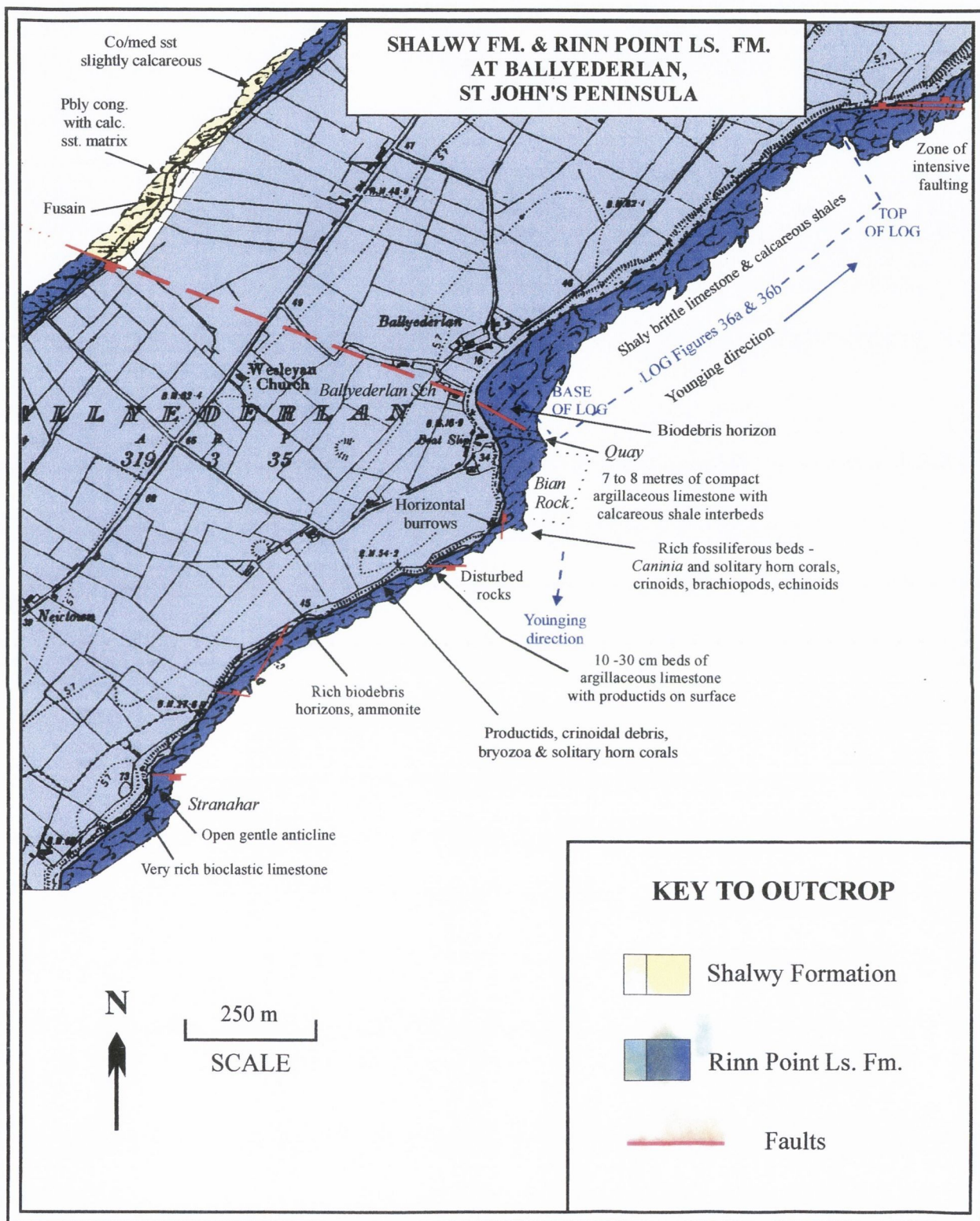


Figure 28 Map of part of St. John's Peninsula, showing locations of the faulted section of the Shalwy Formation (south of Kiln Port) and the Ballyederlan Log (Figures 36a and 36b) comprising the Rinn Point Limestone Formation.

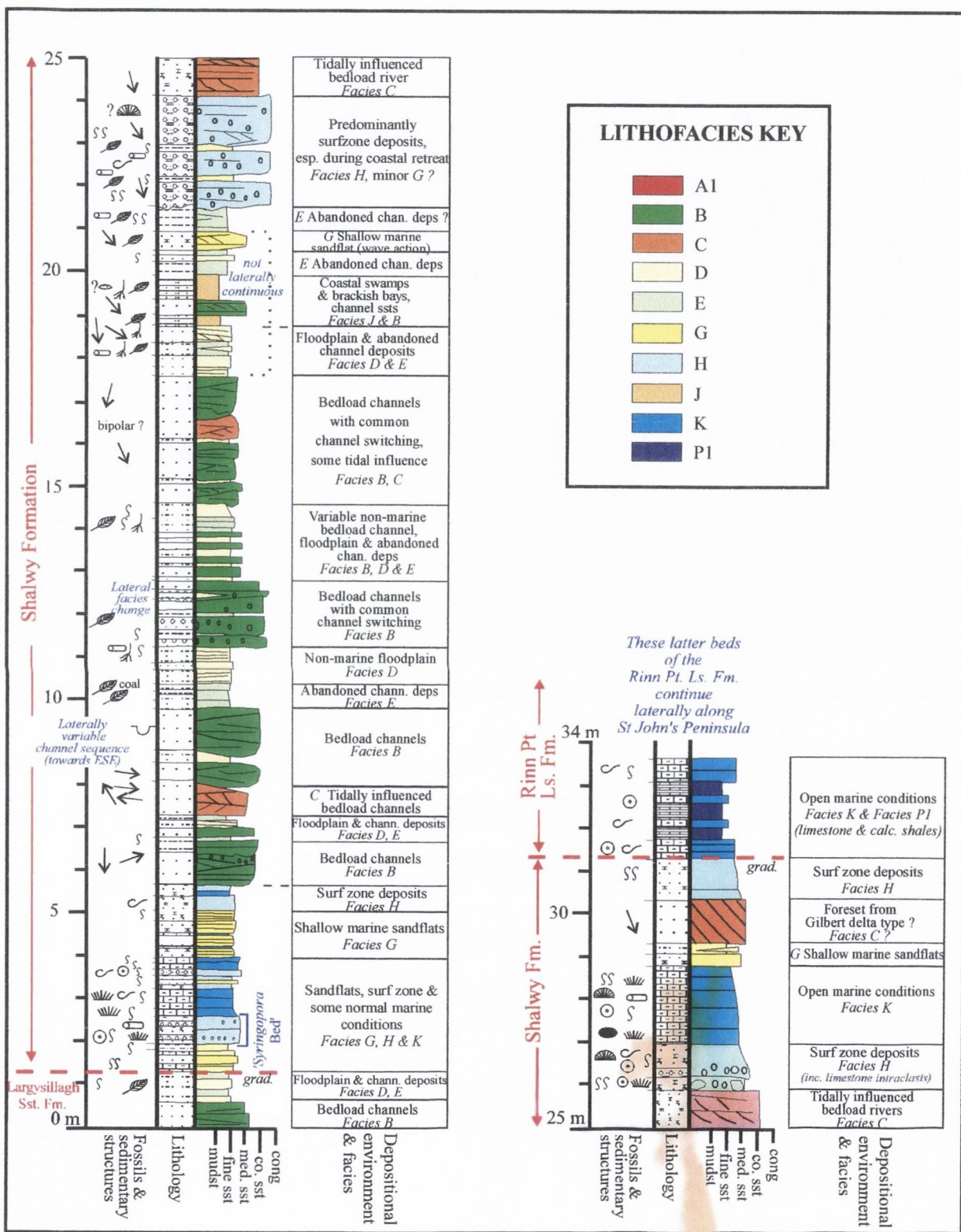


Figure 29 Lithofacies log of the Shalwy Formation along McSwyne's Bay. The log commences at Castle Port (GR17560 37443). Refer to enclosed legends for explanation to log symbols.

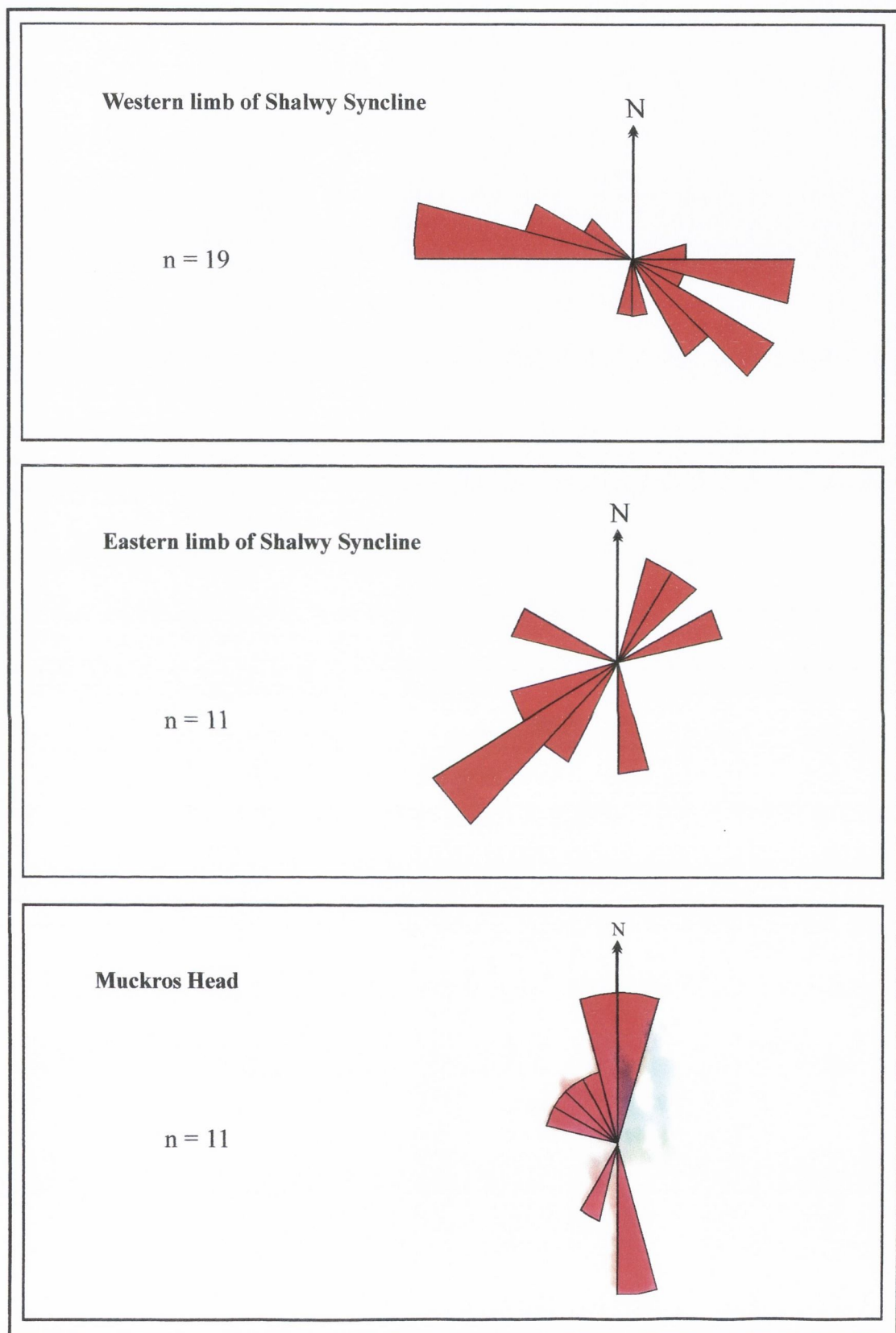


Figure 30 Rose diagrams from palaeocurrent cross-strata (current to) of the Shalwy Formation at Shalwy Syncline and Muckros Head

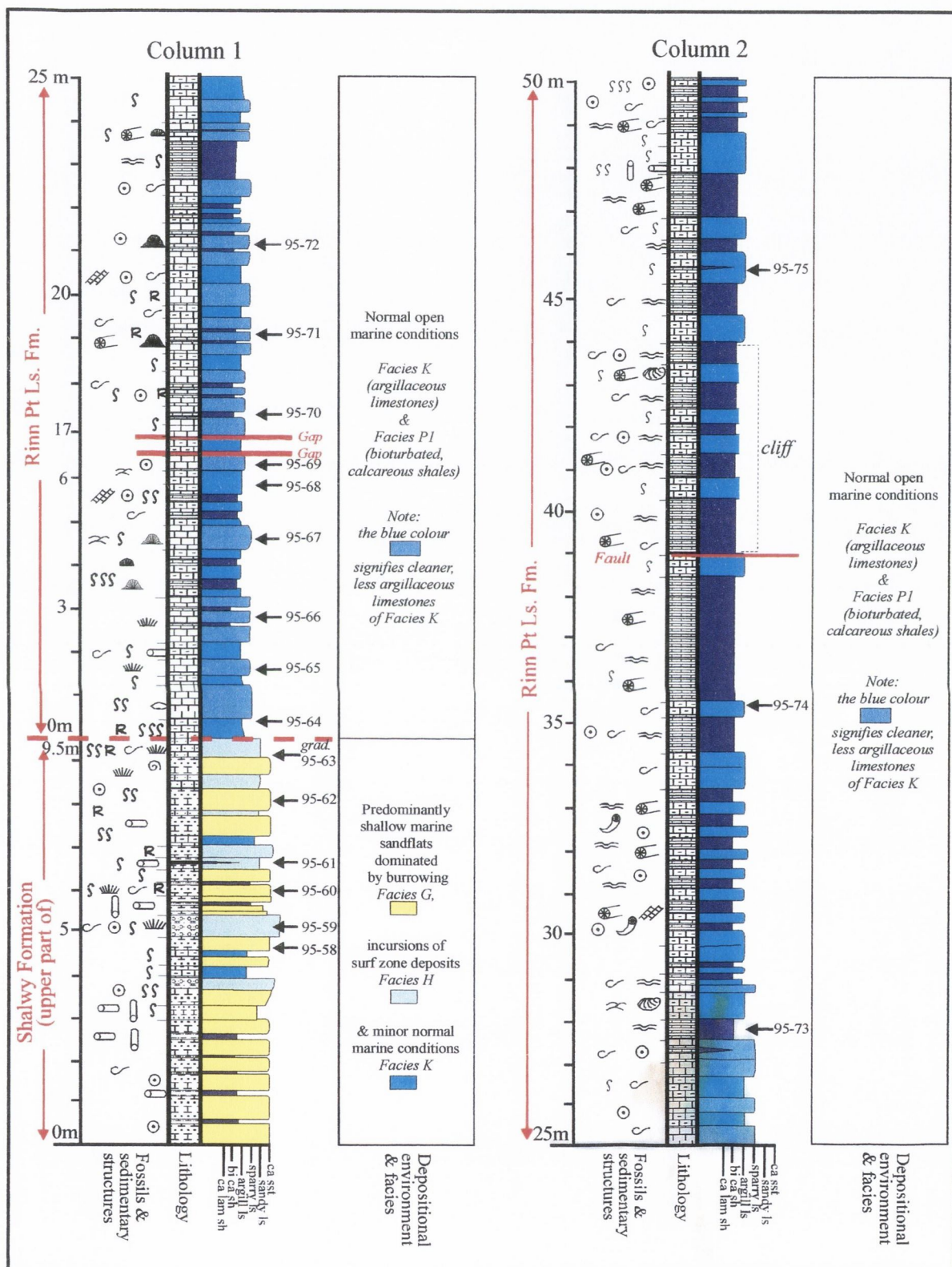


Figure 31a Lithofacies log of the Rinn Point Limestone Formation (underlain by the Shalwy Formation - eastern limb of the Shalwy Syncline Columns 1 & 2. Refer to legends for explanations to log symbols

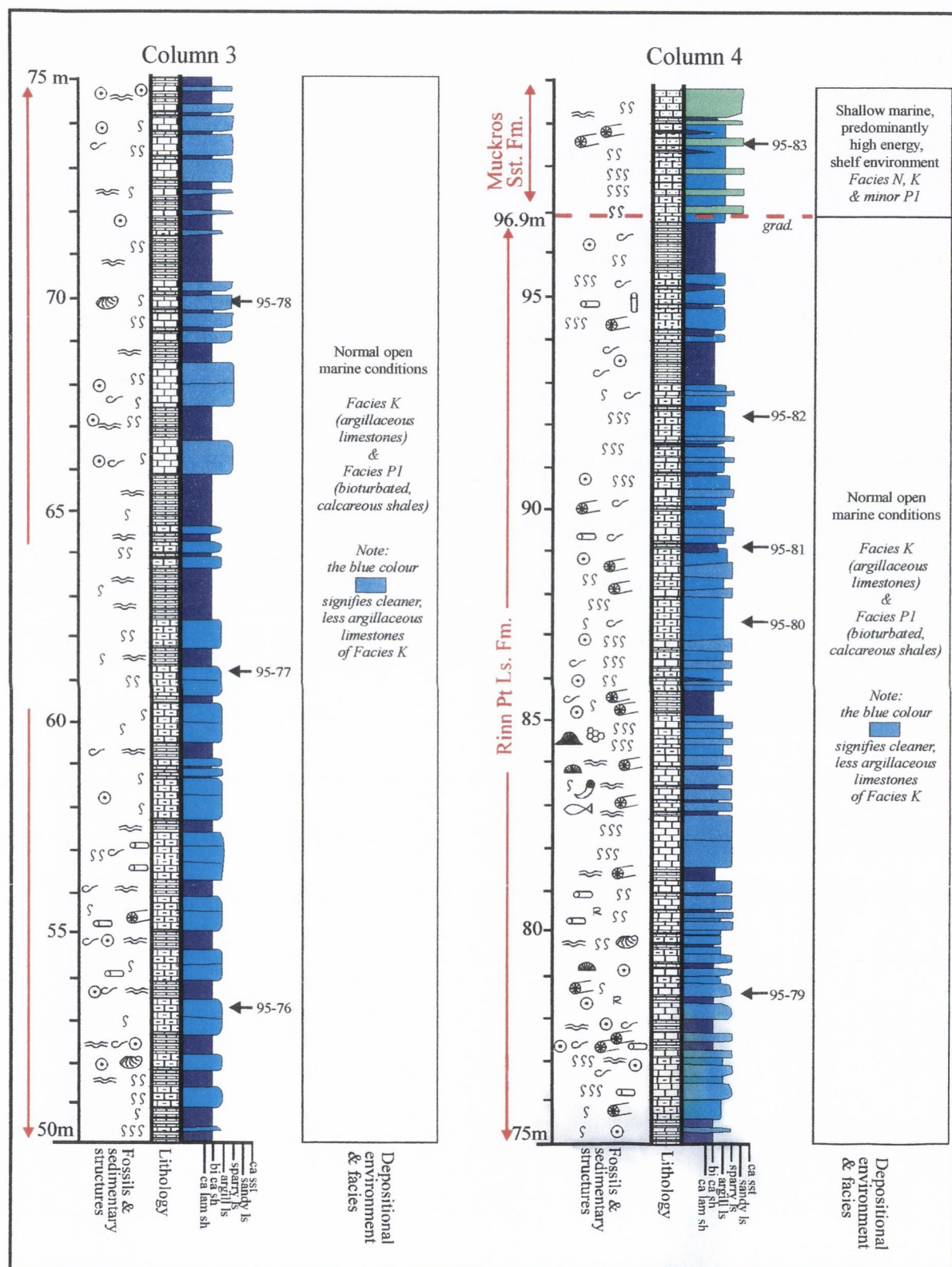


Figure 31b Lithofacies log of the Rinn Point Limestone Formation (overlain by the Muckros Sandstone Formation) - eastern limb of the Shalwy Syncline Columns 3 & 4. Refer to legends for explanations to log symbols.

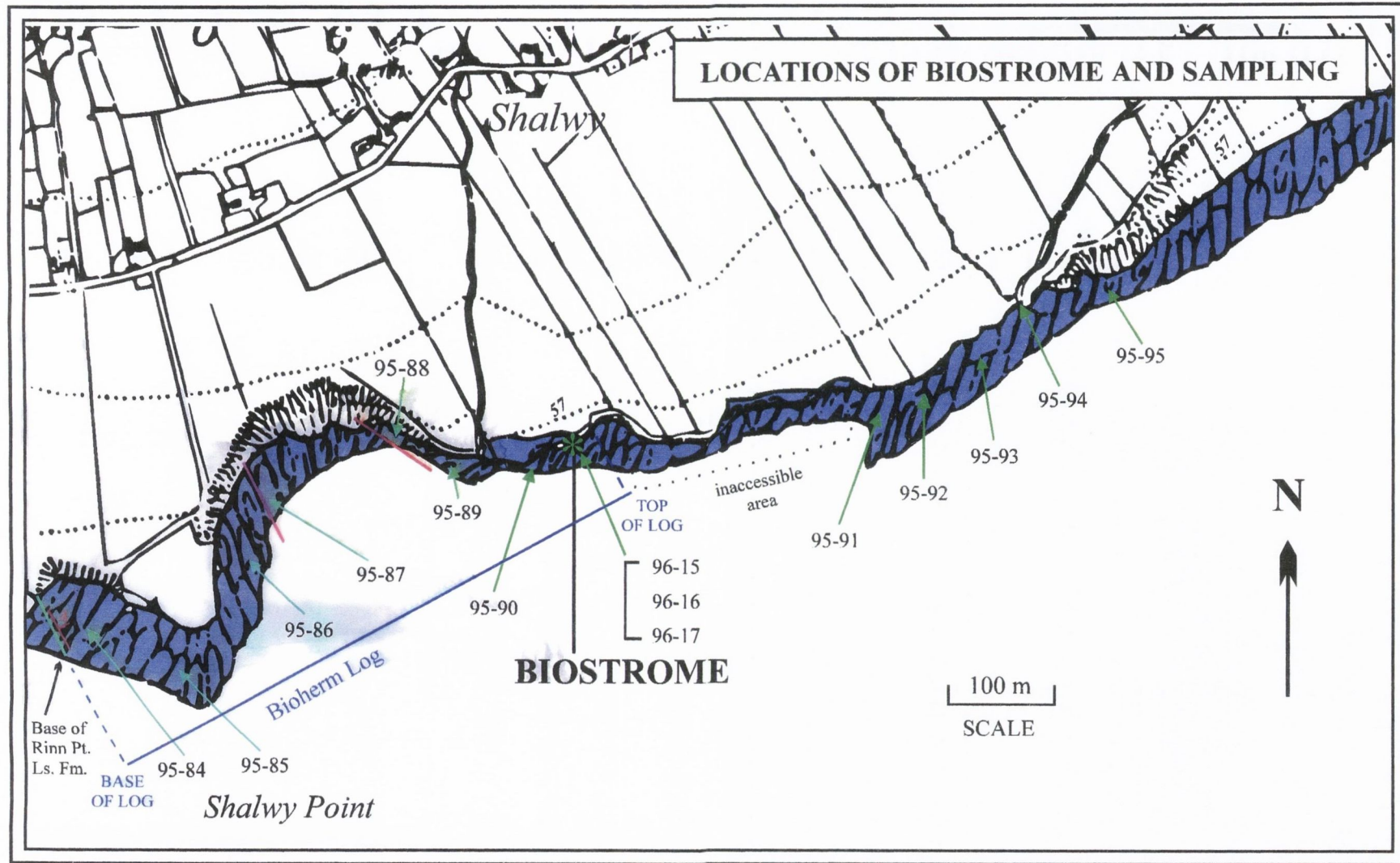


Figure 32 Map of Shalwy area displaying localities of the biostrome and thin-section sampling within the Rinn Point Limestone Formation.

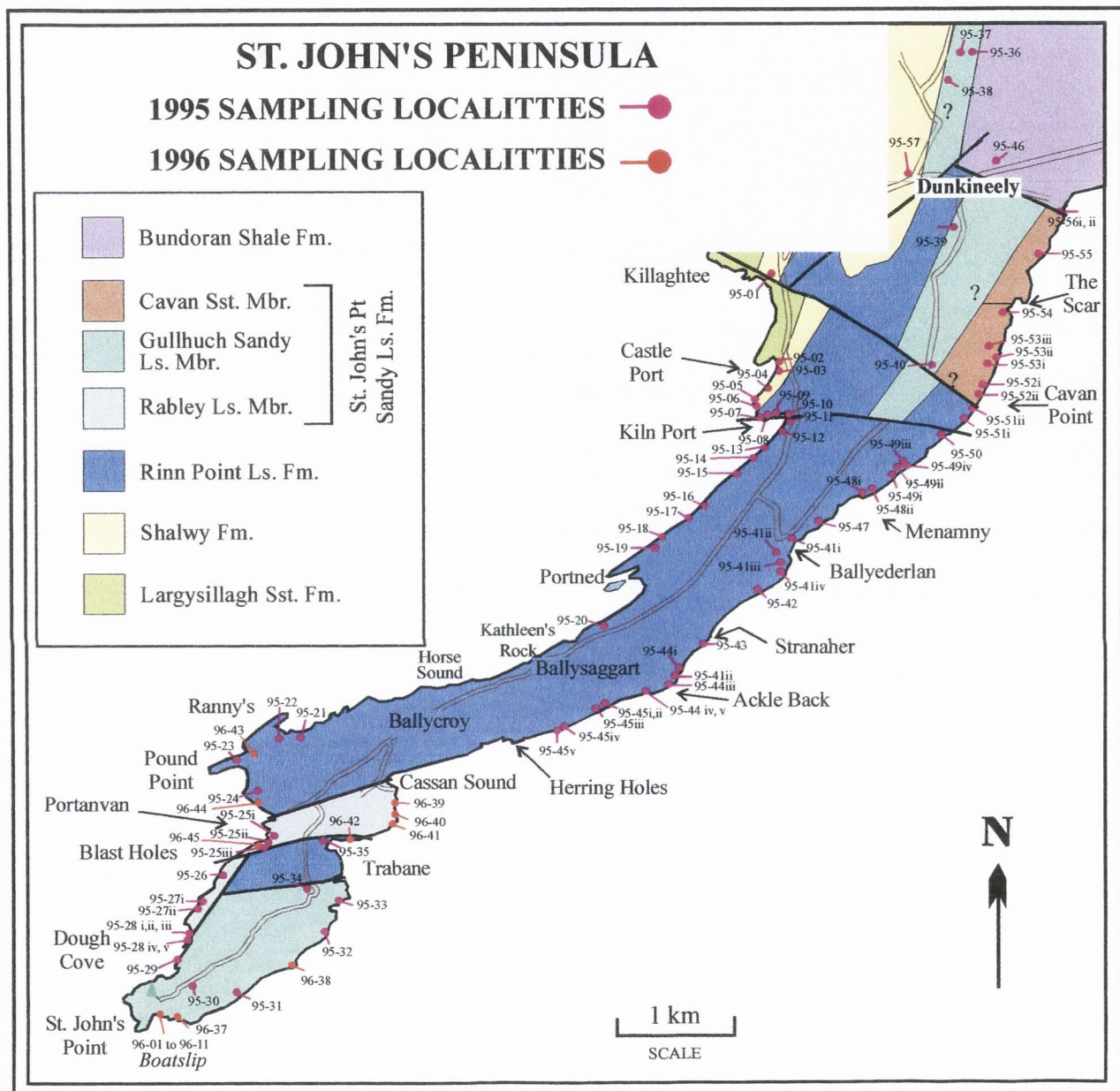


Figure 34 Geological sketch map of the western part of the main Donegal Basin (St. John's Peninsula) showing sampling localities of the thin-sections.

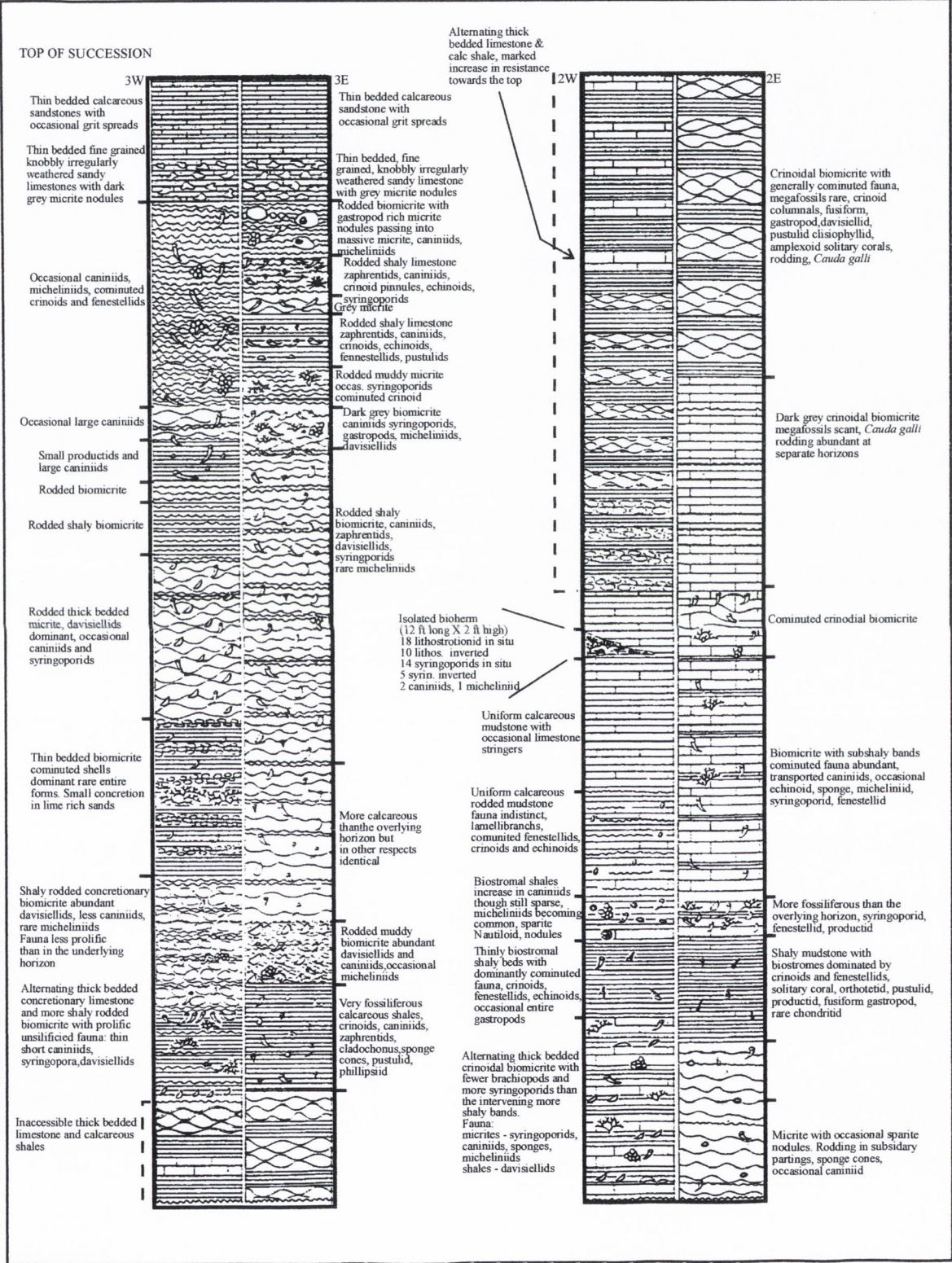


Figure 35a Part 1 of the log of the east and western limb of the Shalwy Syncline after Hubbard and Pocock (1972).

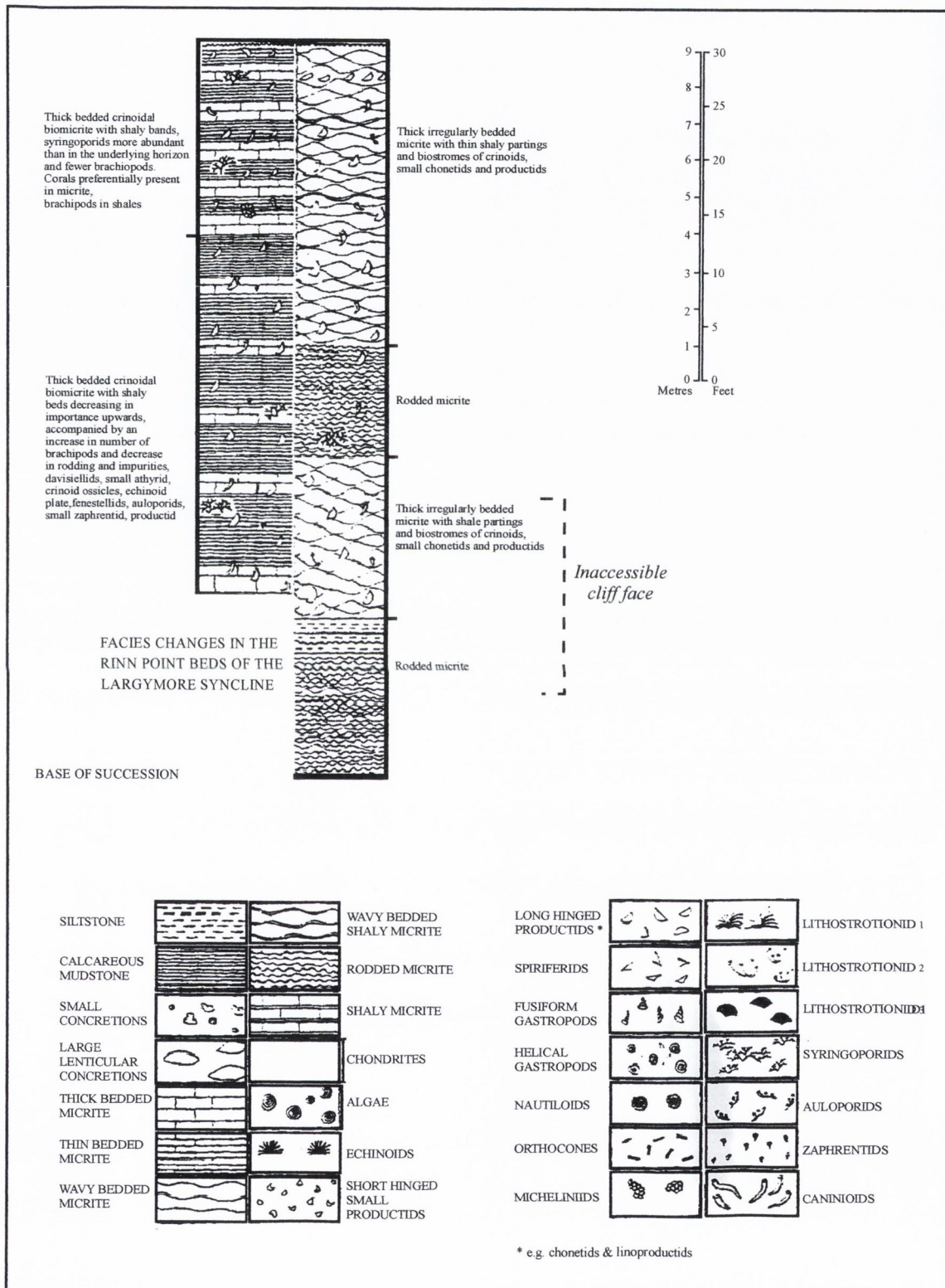


Figure 35b Part 2 of the log of the eastern and western limb of the Shalwy Syncline, after Hubbard and Pocock (1972).

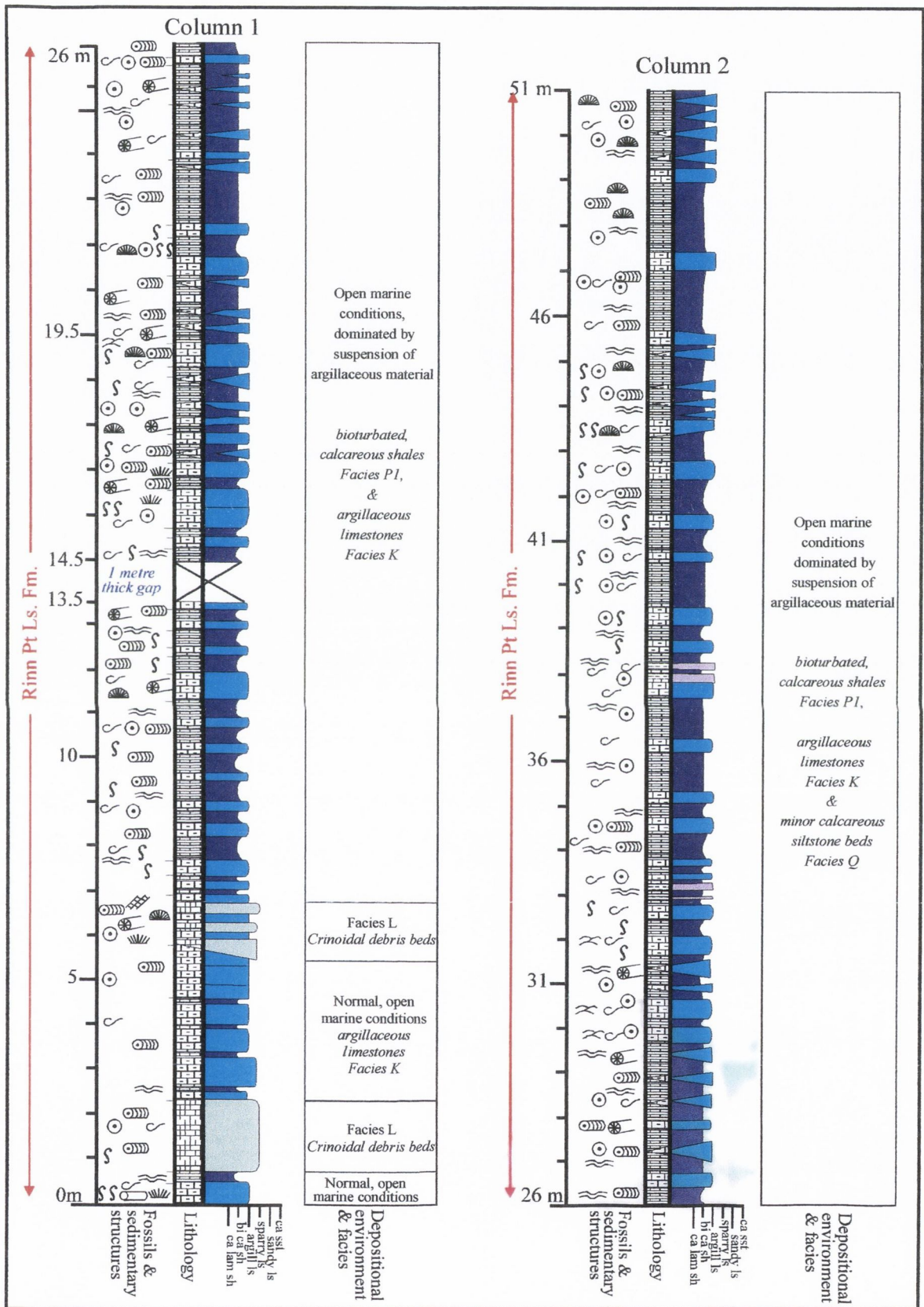


Figure 36a Lithofacies log of the Rinn Point Limestone Formation - Ballyederlan, St John's Peninsula - Columns 1 & 2. Log commences at GR17567 37297. Refer to legends for explanations to log symbols.

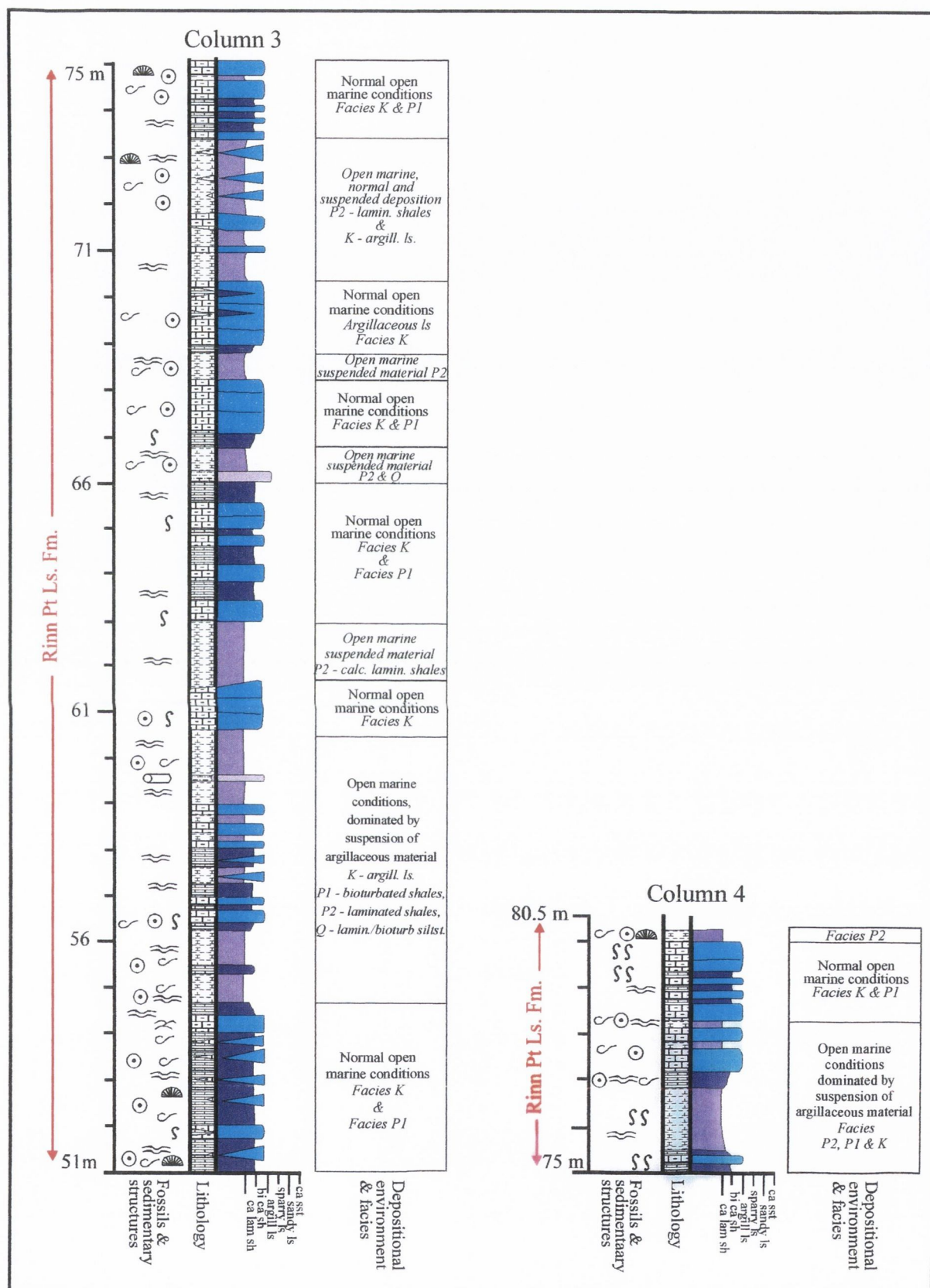


Figure 36b Lithofacies log of the Rinn Point Limestone Formation at Ballyederlan, St John's Peninsula - Columns 3 and 4. Refer to legends for explanations to log symbols.

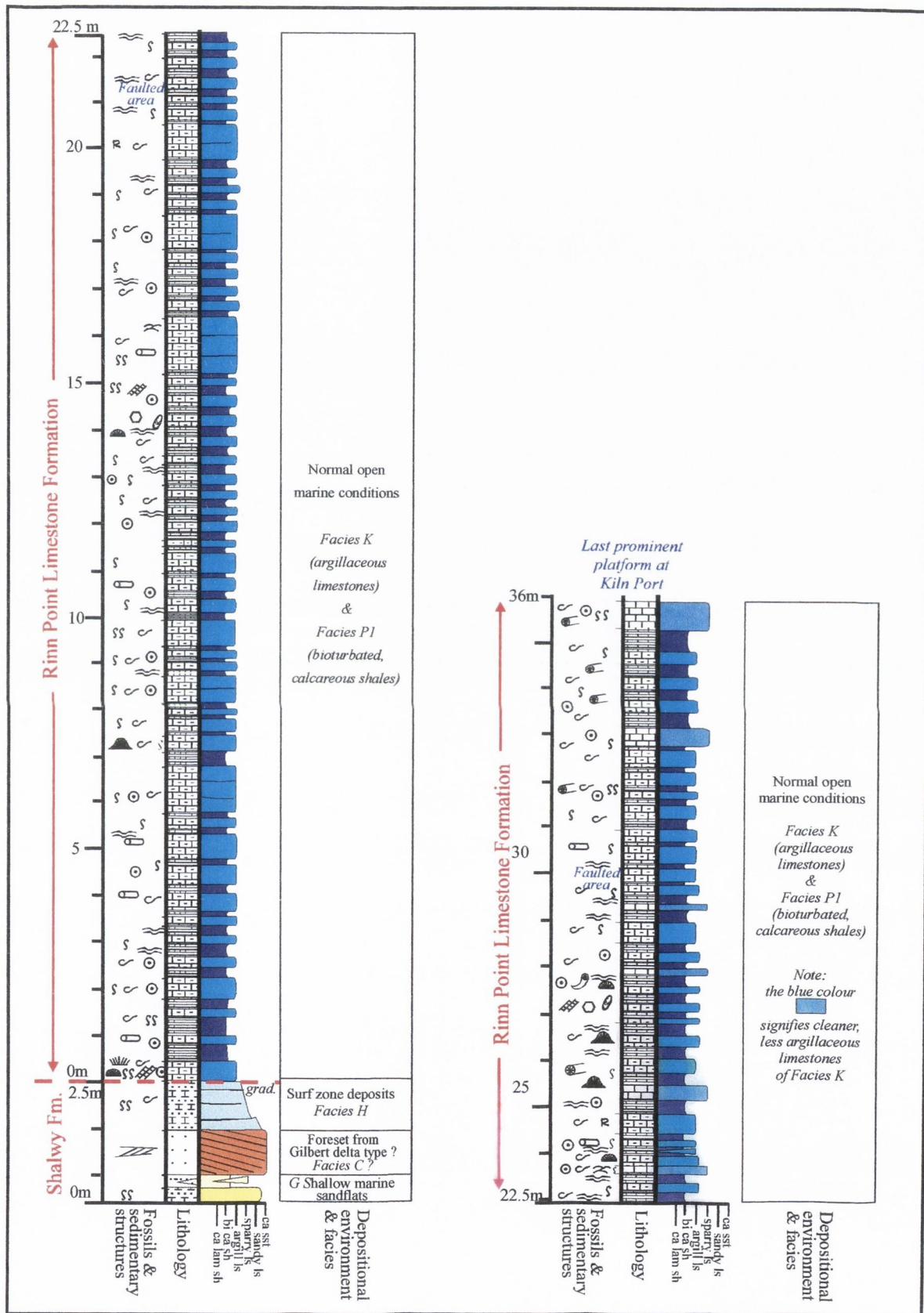


Figure 37 Lithofacies log of the Rinn Point Limestone Formation - Kiln Port, St. John's Peninsula. Refer to legends for explanations to log symbols.

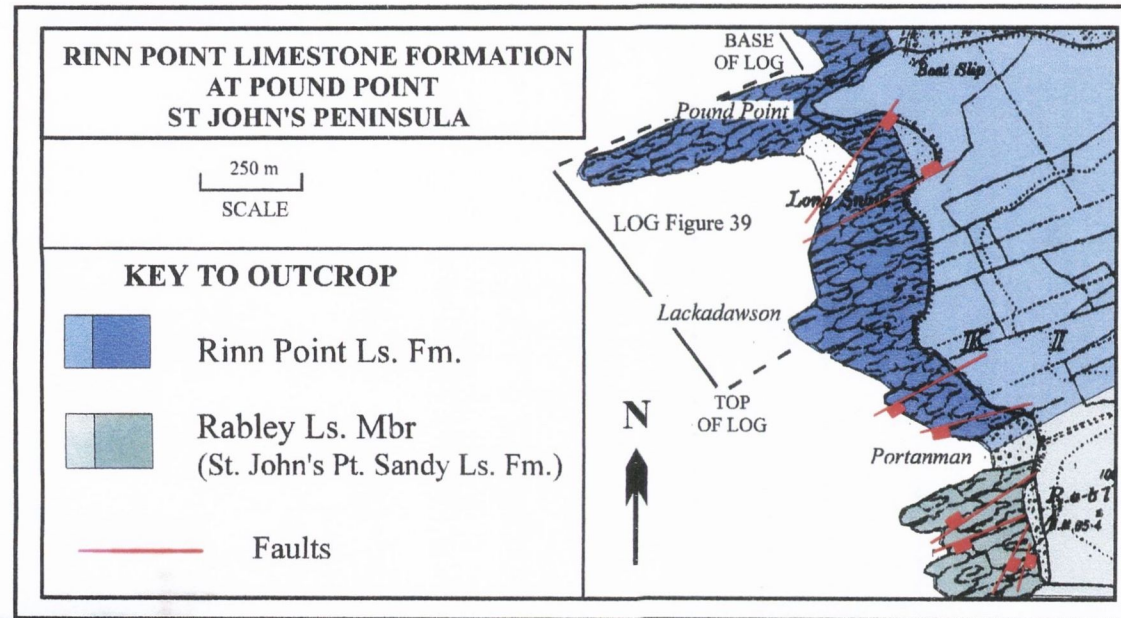


Figure 38 Map of Pound Point area (St. John's Peninsula) showing location of the log (Figure 39) comprising the Rinn Point Limestone Formation.

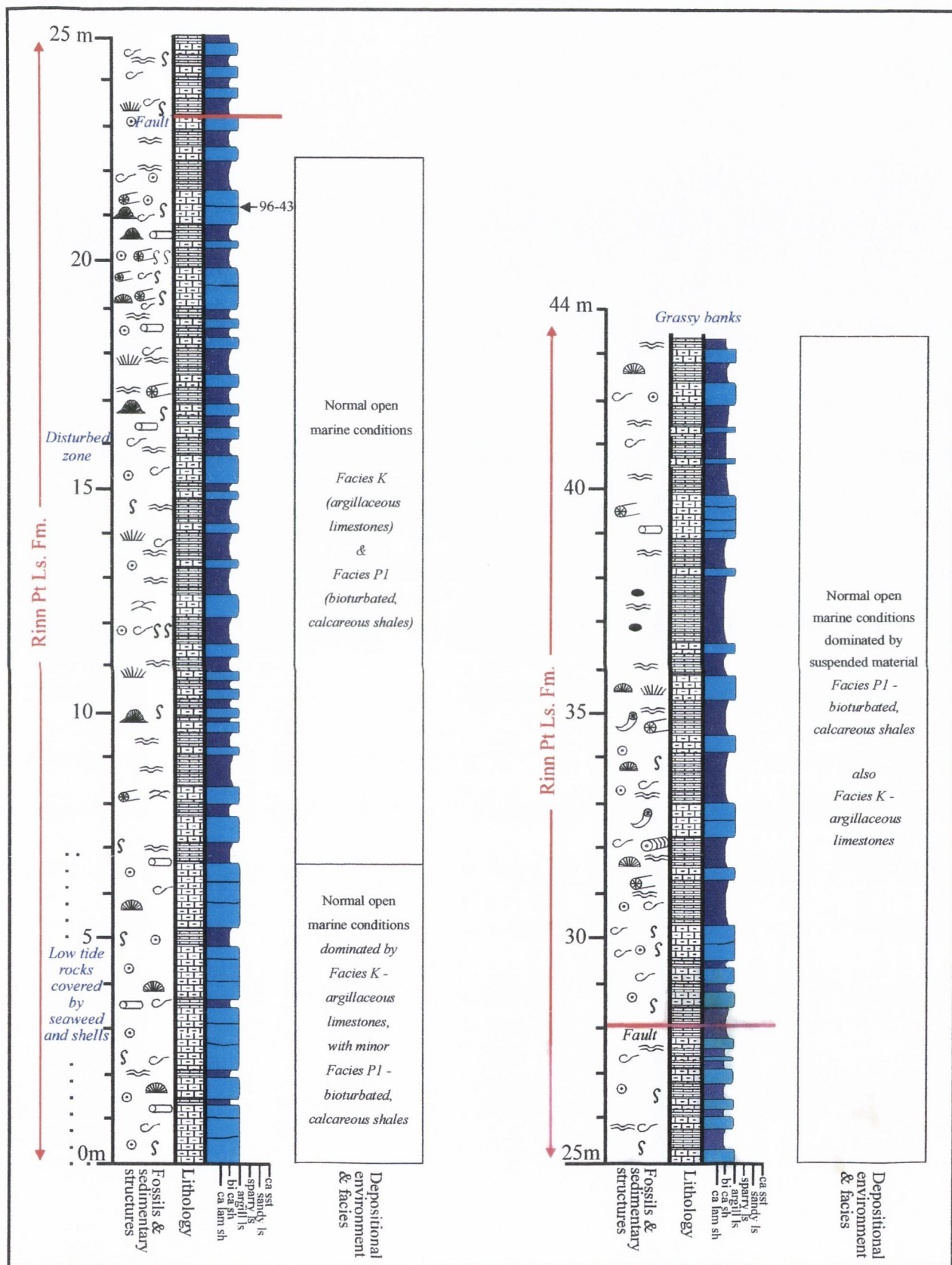


Figure 39 Lithofacies log of the Rinn Point Limestone Formation - Ranny's/Pound Point area, St. John's Peninsula (GR17151 37123). Refer to legends for explanations to log symbols.

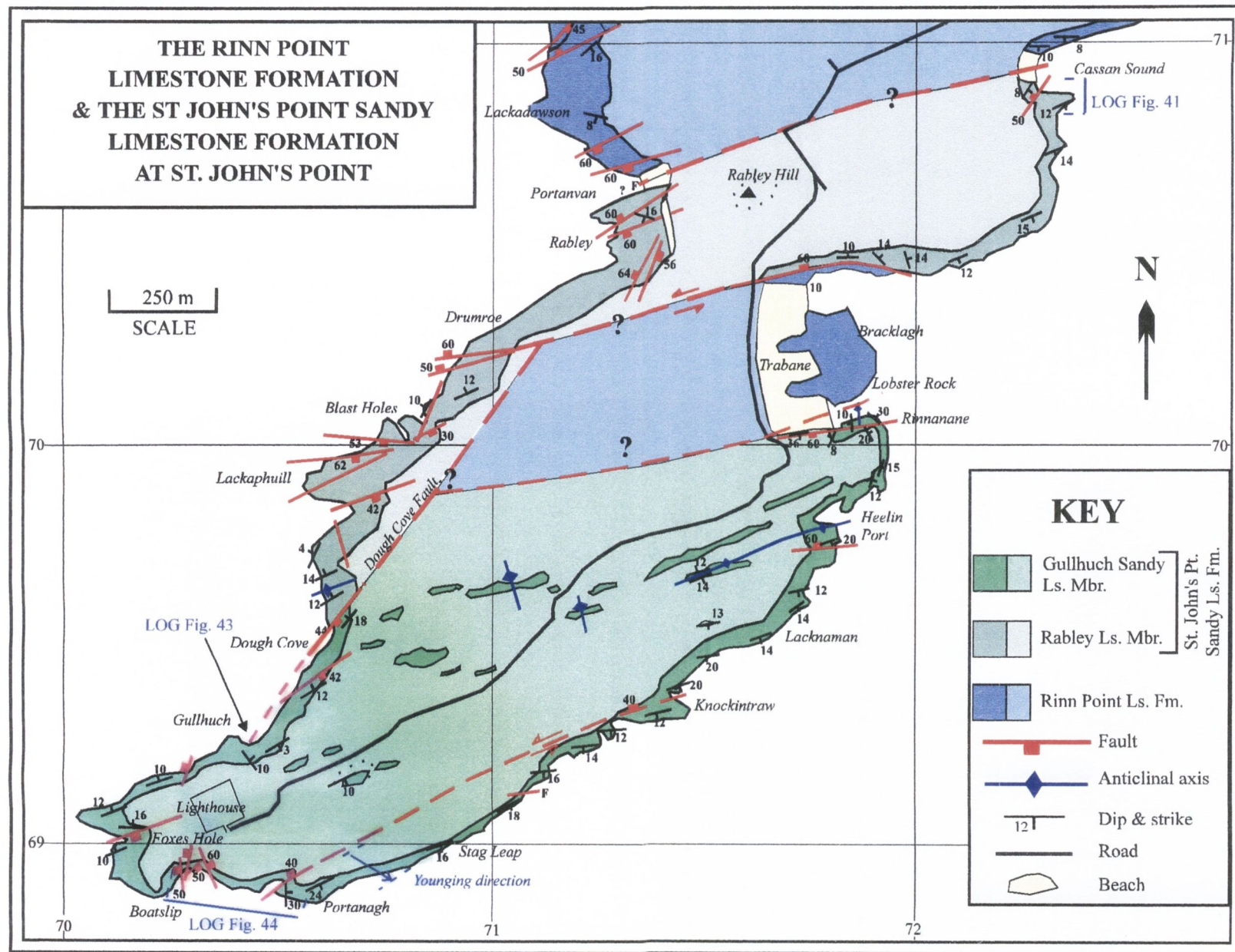


Figure 40 Geological map of St. John's Point area showing the Rinn Point Limestone Formation and the Rabley Limestone Member and the Gullhuch Sandy Limestone Member of the St. John's Point Sandy Limestone Formation

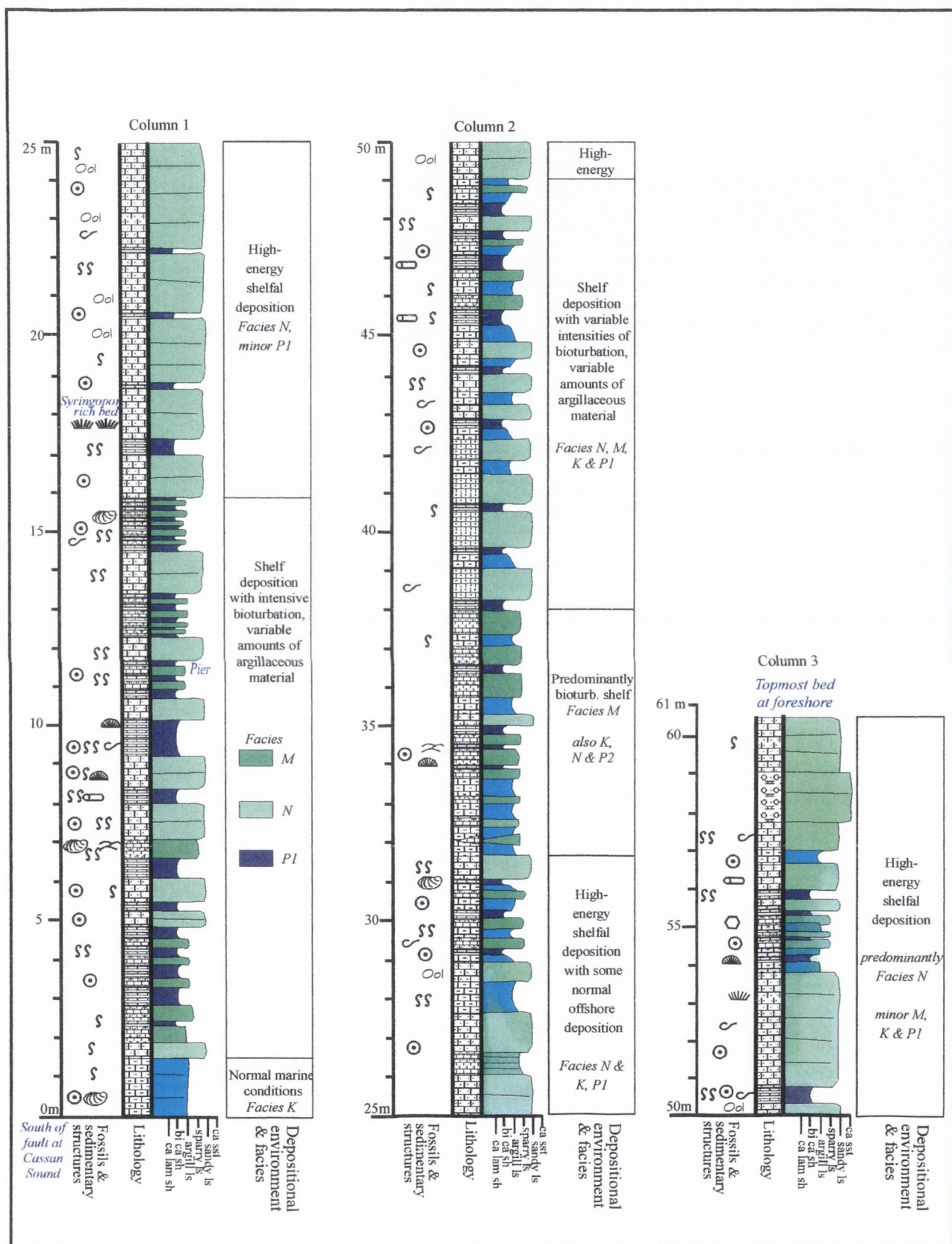


Figure 41 Lithofacies log of the Rabley Limestone Member (St. John's Point Sandy Limestone Formation) - south of Cassan Sound, St. John's Point (GR 17230 37087). Refer to Figure 40 and the legends for location and explanations to log symbols, respectively.

MAP OF THE SOLID GEOLOGY OF THE DONEGAL SYNCLINE

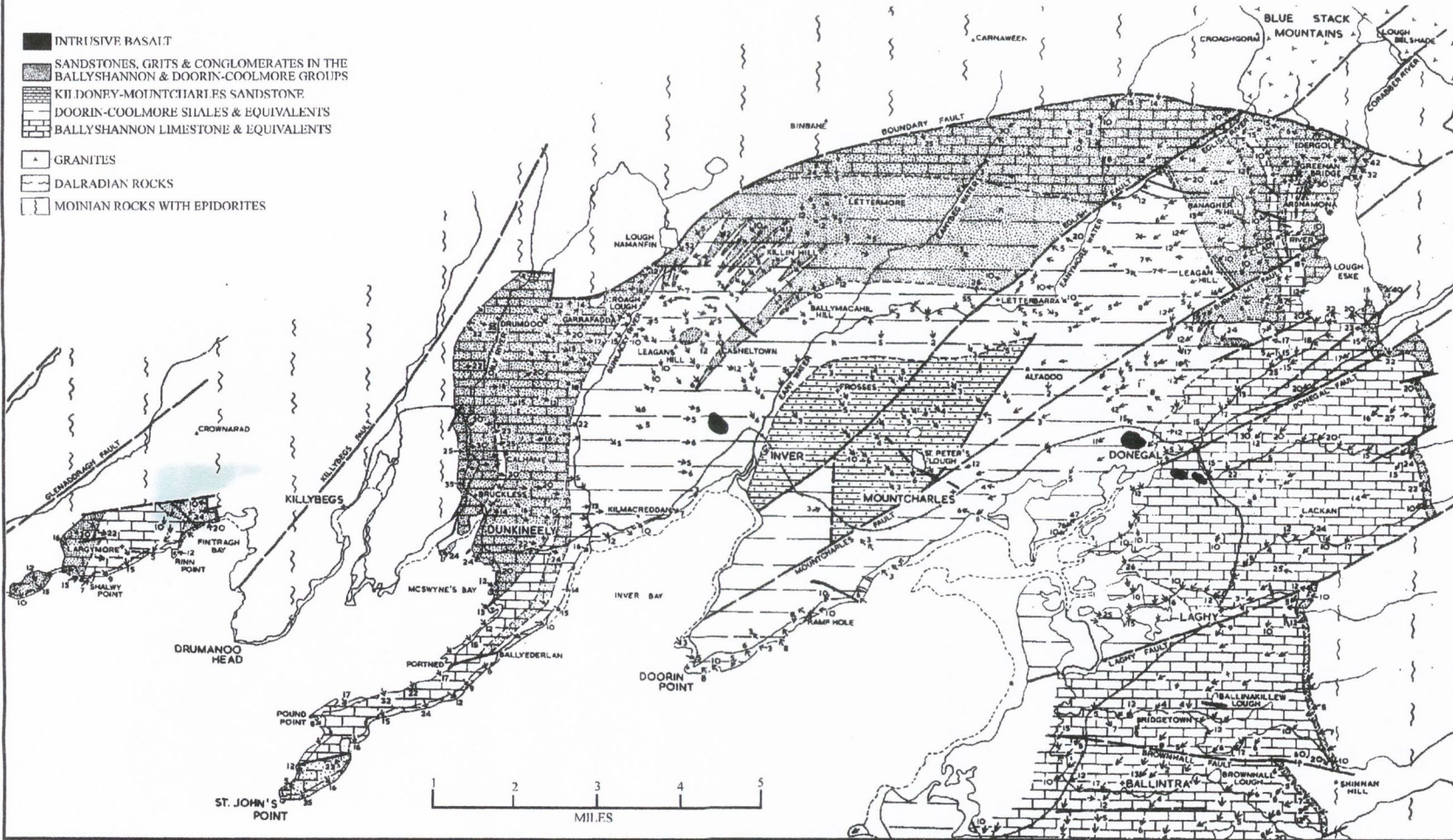


Figure 42 Geological map of the Donegal Basin from George & Oswald (1957).

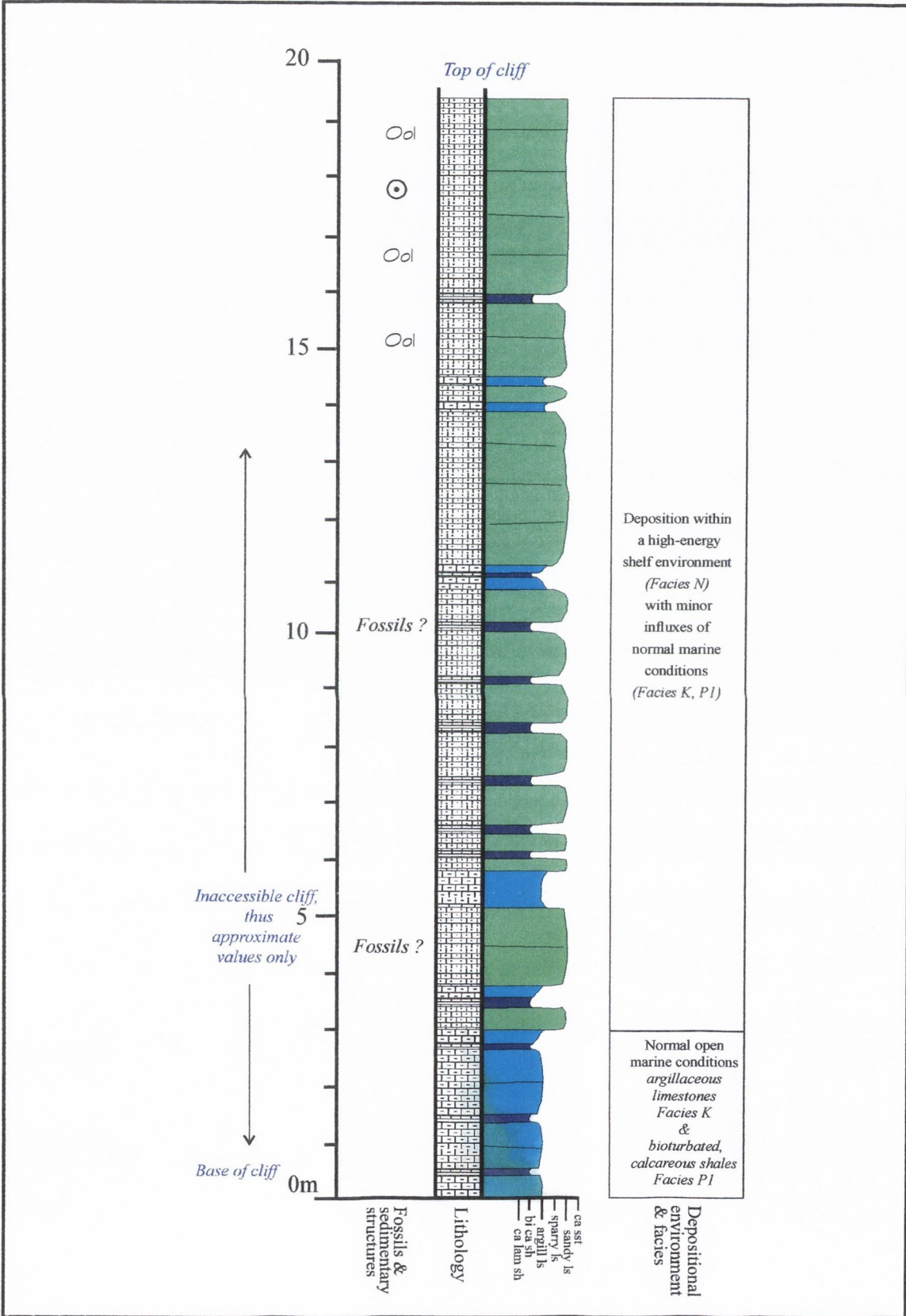


Figure 43 Lithofacies log of the Gullhuch Sandy Limestone Member (St. John's Point Sandy Limestone Formation) - Gullhuch cliff (GR17047 36927), St. John's Point. Refer to legends for explanations to log symbols.

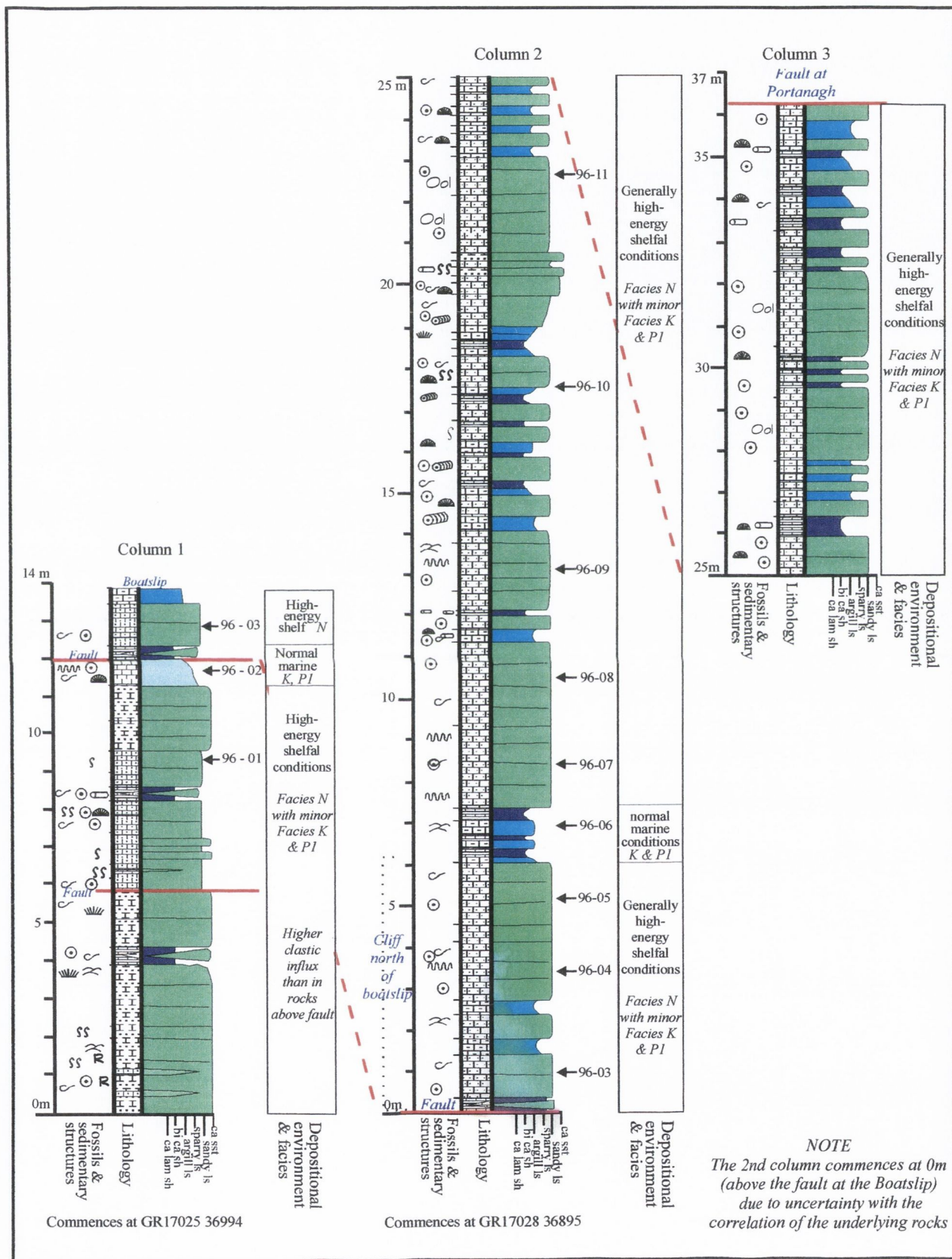


Figure 44 Lithofacies log of the Gullhuch Sandy Limestone Member (St. John's Point Sandy Limestone Formation) - from Fox's Hole to Portanagh, St. John's Point. Refer to legend for explanations to log symbols.

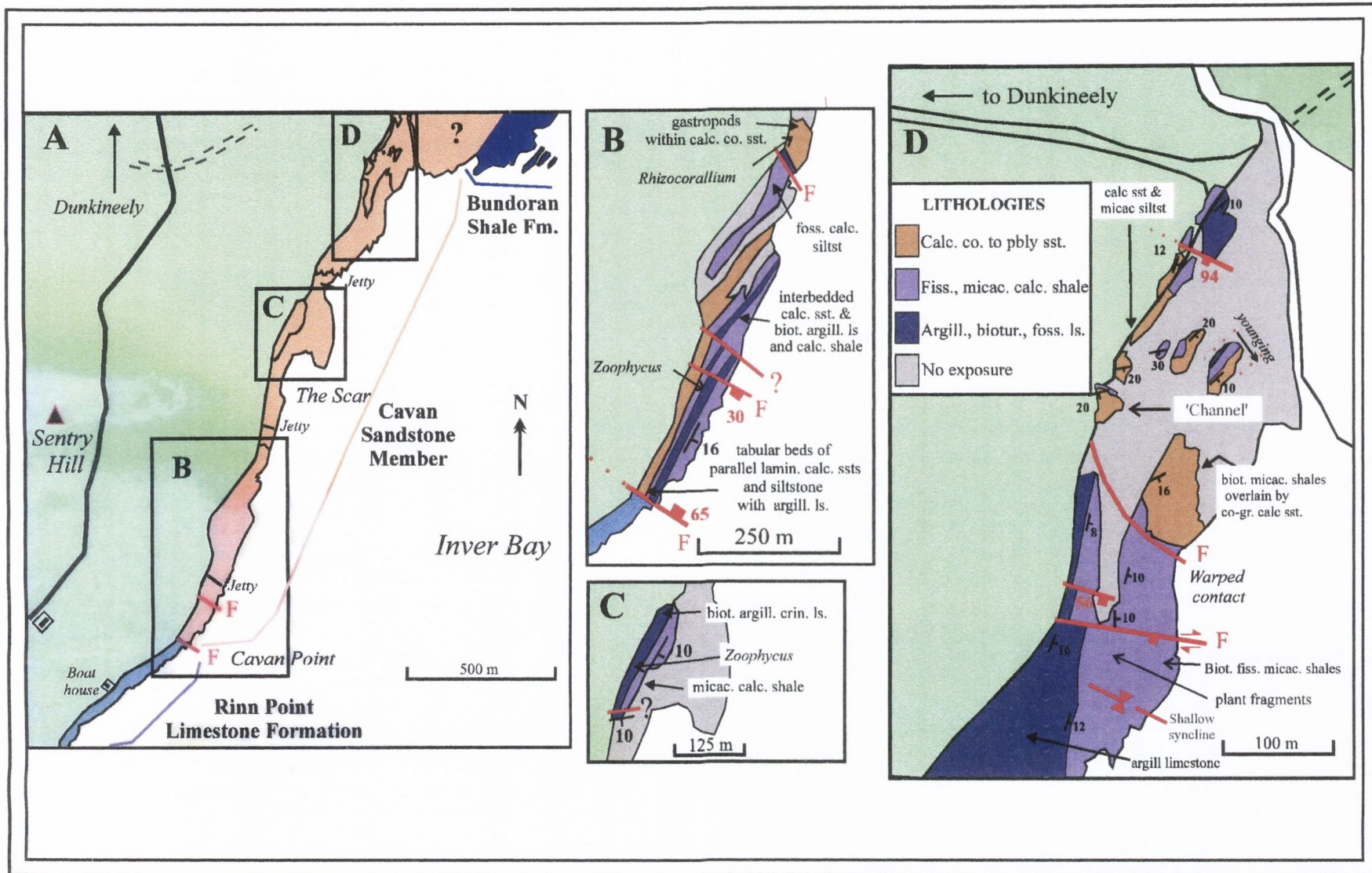


Figure 45 Detailed lithological maps of locations comprising the Cavan Sandstone Member (of the St. John's Point Sandy Limestone Formation) along the north-eastern coast of St. John's Peninsula

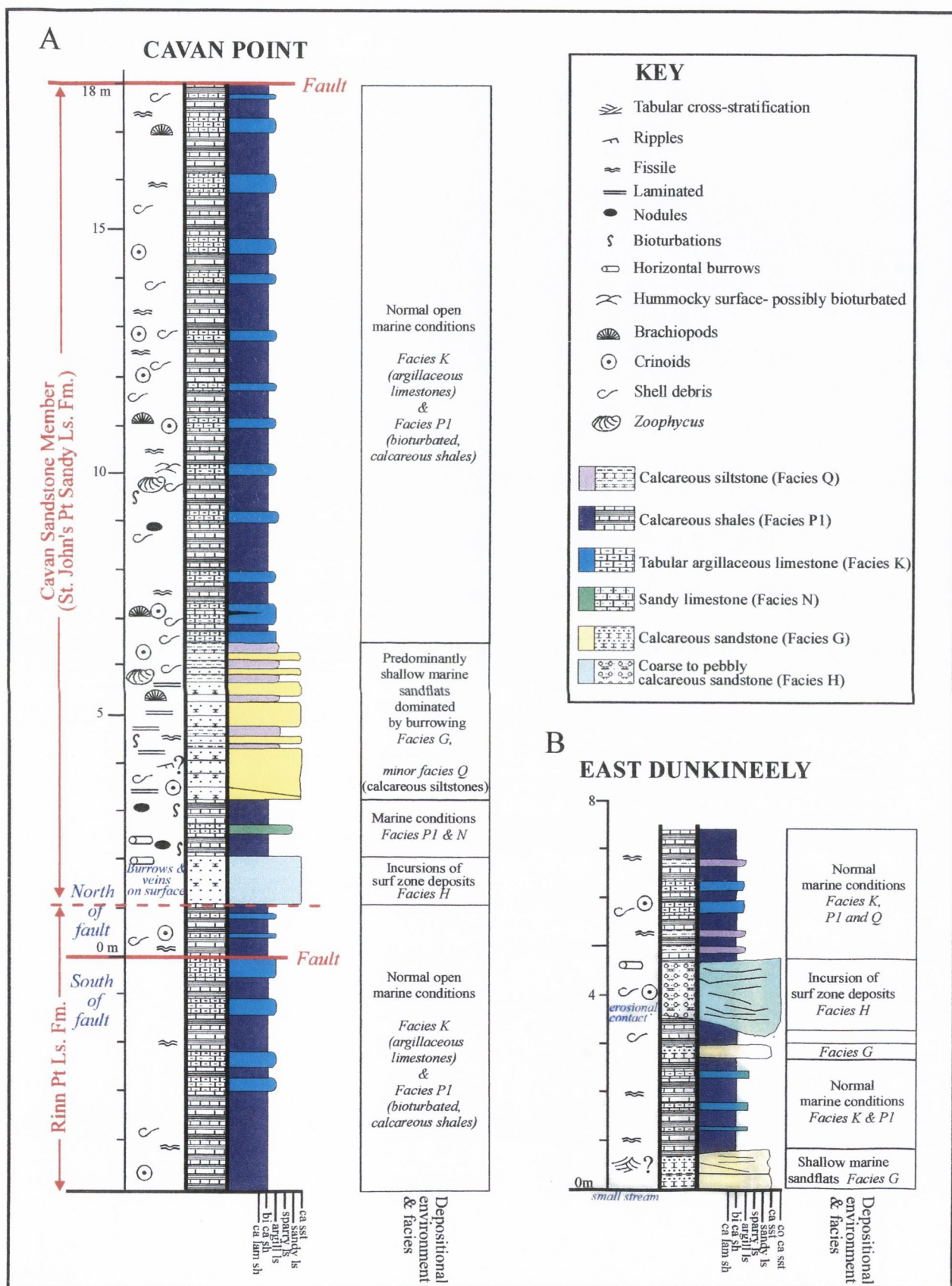


Figure 46 Logs of the Cavan Sandstone Member (St. John's Point Sandy Limestone Formation). A: Cavan Point, B: east of Dunkineely (refer to Figure 45 for locations).

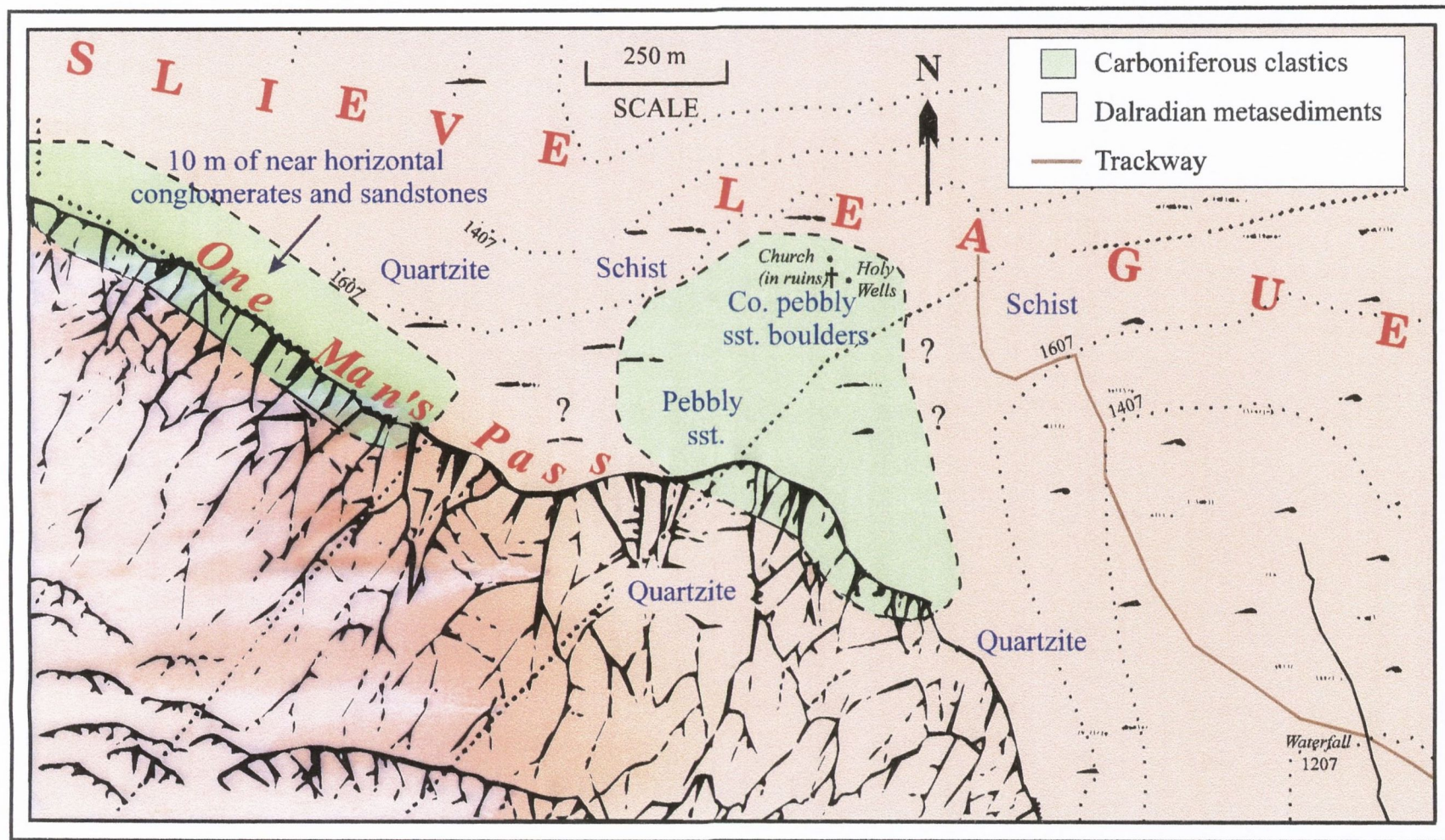


Figure 47 Map of the Slieve League area showing Carboniferous outcrop in green.

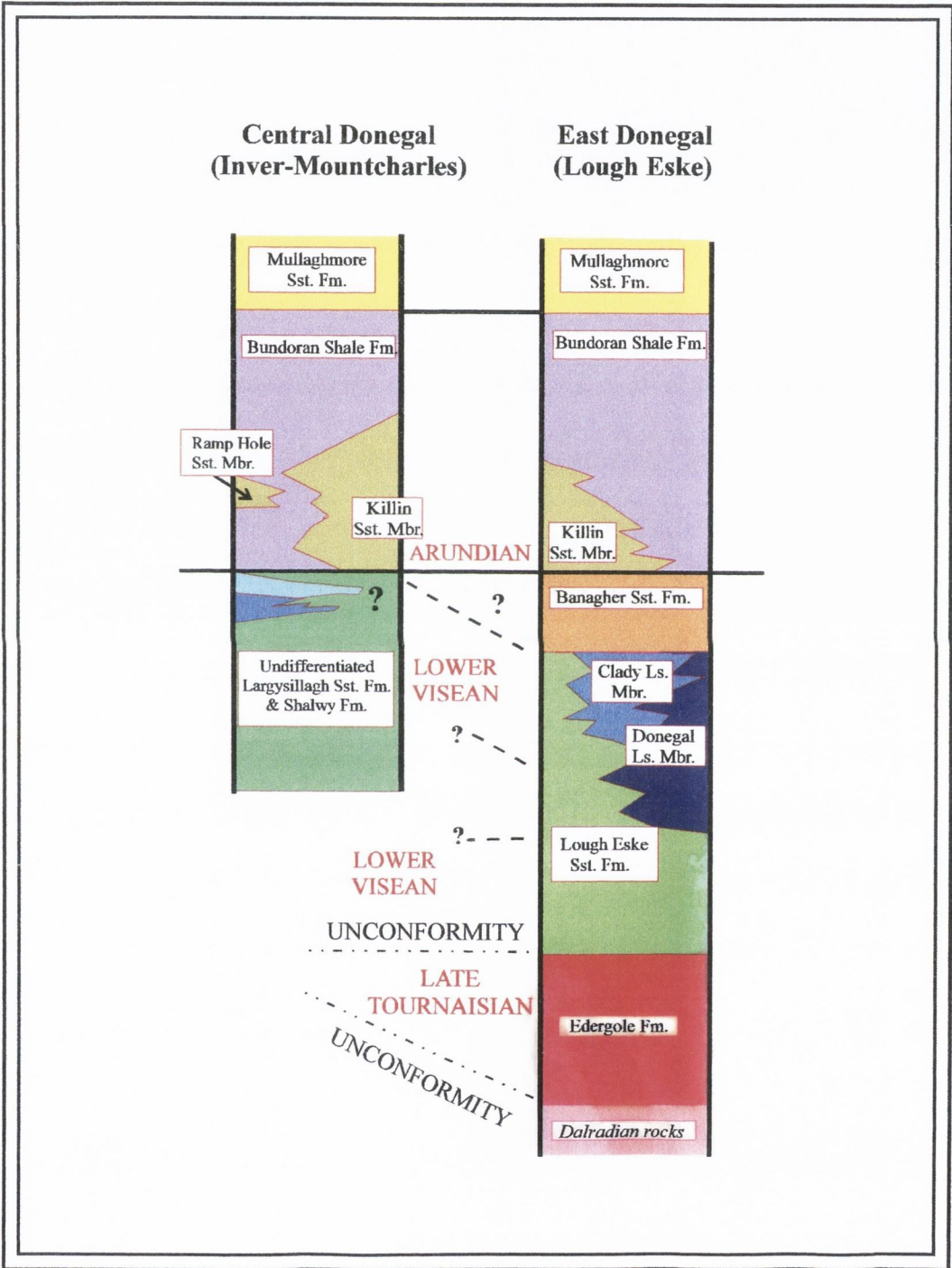


Figure 48 Stratigraphy of the eastern part of the Donegal Basin.

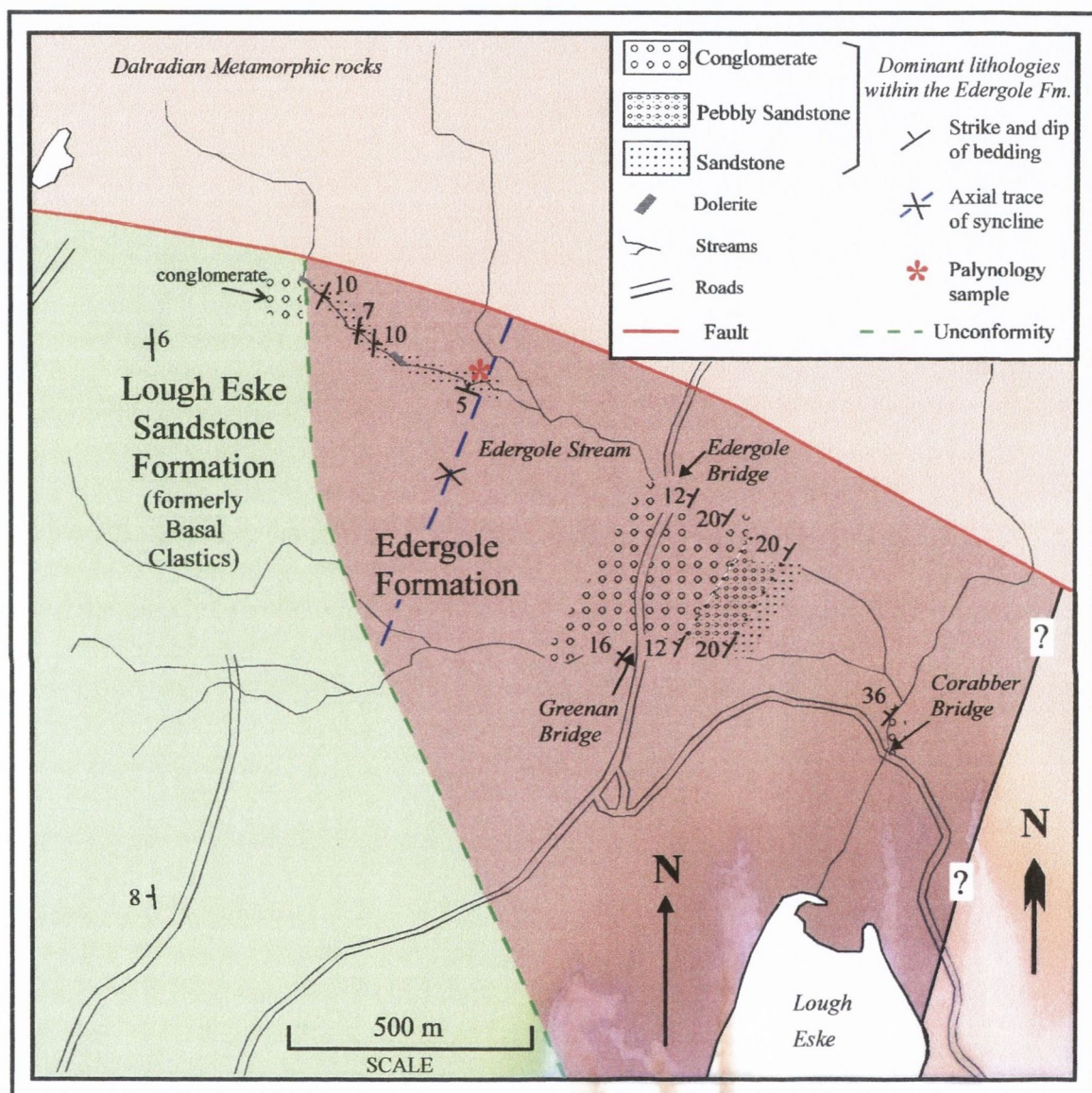


Figure 49 Map of the Edergole area (modified after Graham and Clayton 1994).

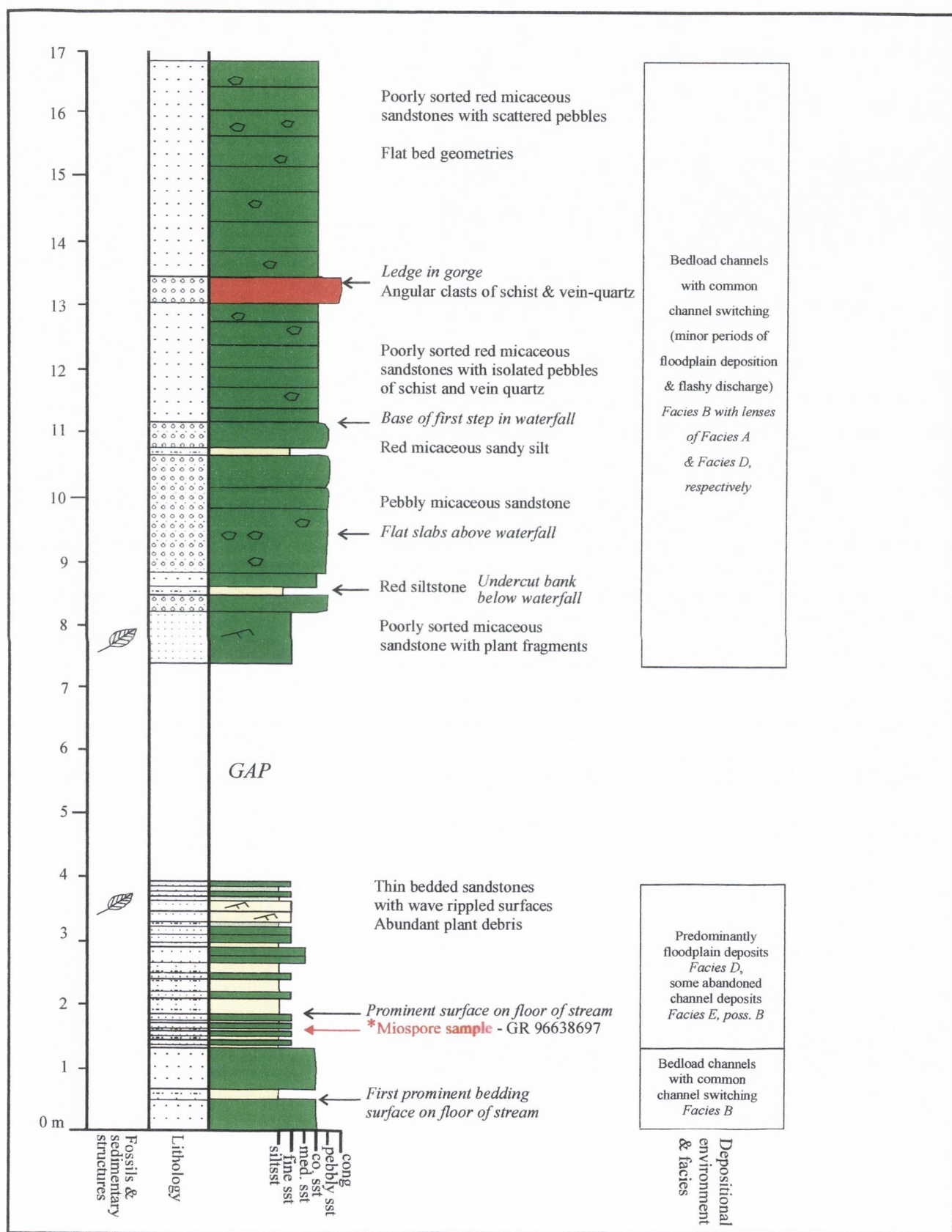


Figure 50 Lithofacies log of the Edergole Formation through the Edergole Gorge section showing position of productive miospore sample (modified after Graham & Clayton, 1994).

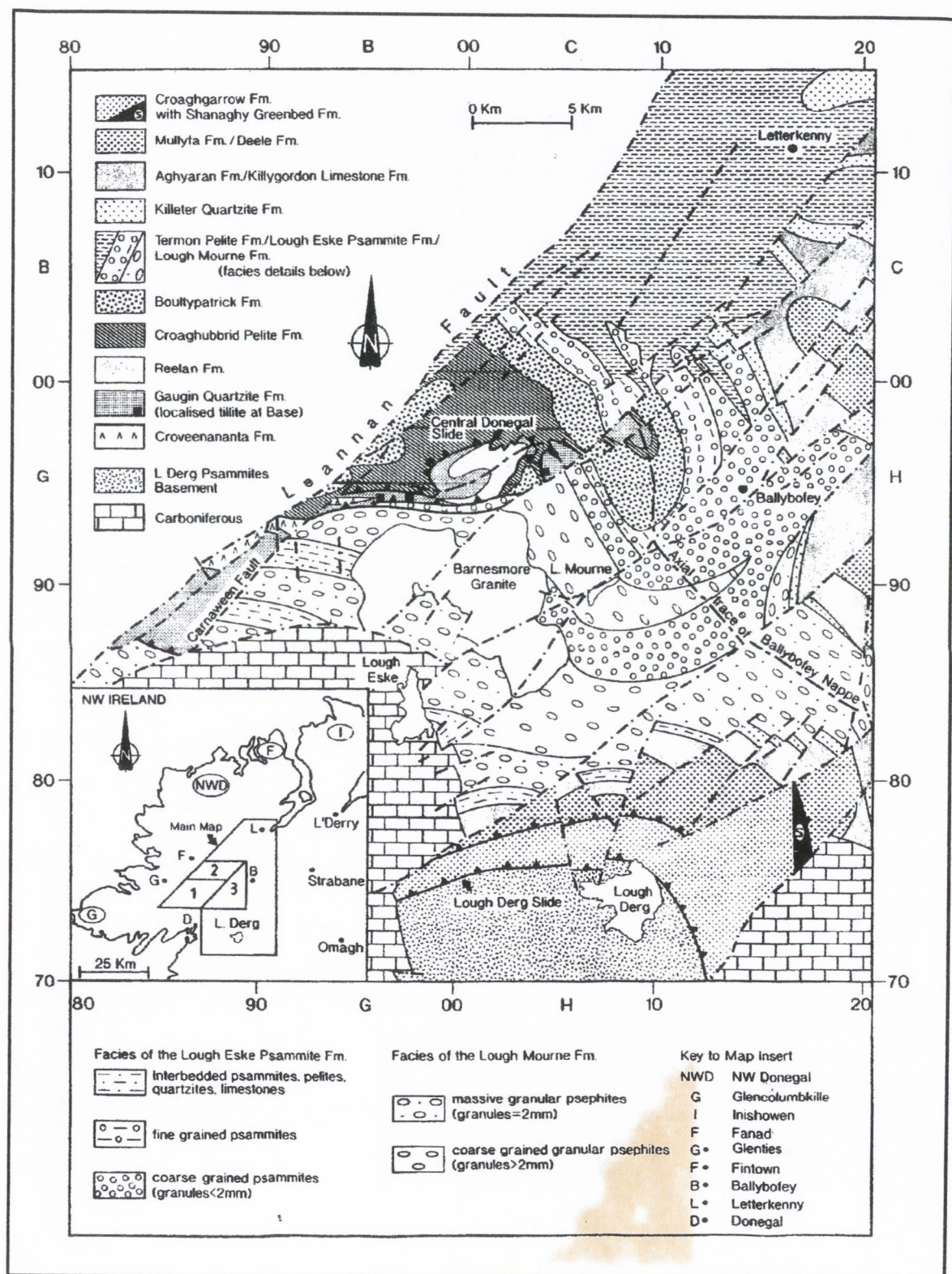


Figure 51 Simplified lithostratigraphic map showing the Dalradian of south-central Donegal (in Alsop 1992) with the Carboniferous Donegal Basin in the lower left of the diagram..

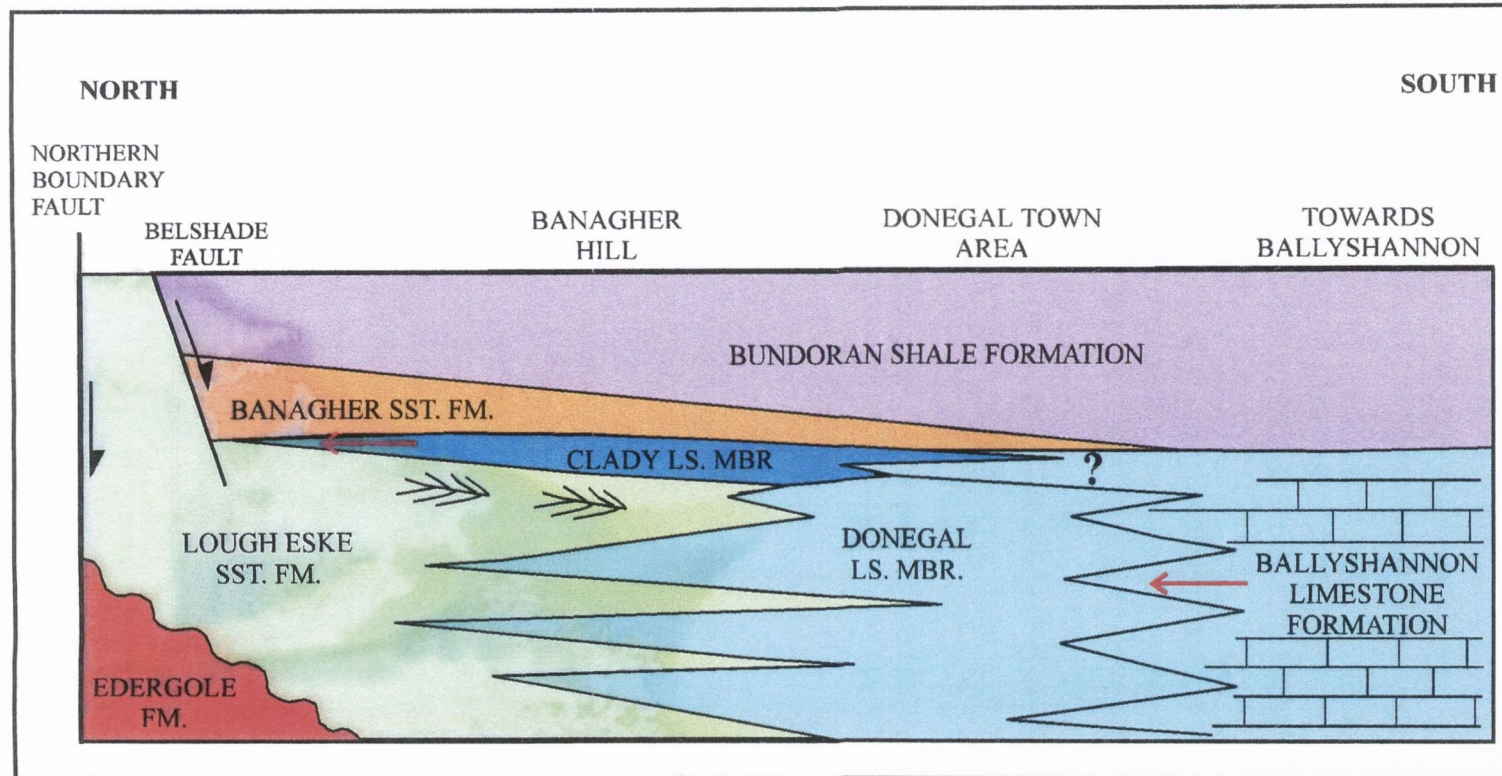


Figure 52 Schematic diagram of the eastern part of the Donegal Basin showing the northward passage of the marine transgression during the Lower Visean. The cleanwell washed carbonates of the Clady Limestone Member is envisaged as the most northerly of the transgressive pulses. Bipolar sandstones are observed within the Lough Eske Sandstone Formation. The Donegal Limestone Member is an argillaceous unit within the Ballyshannon Limestone Formation, which extends south towards the Sligo Syncline. The red arrow indicates the northward direction of the transgressive pulse.

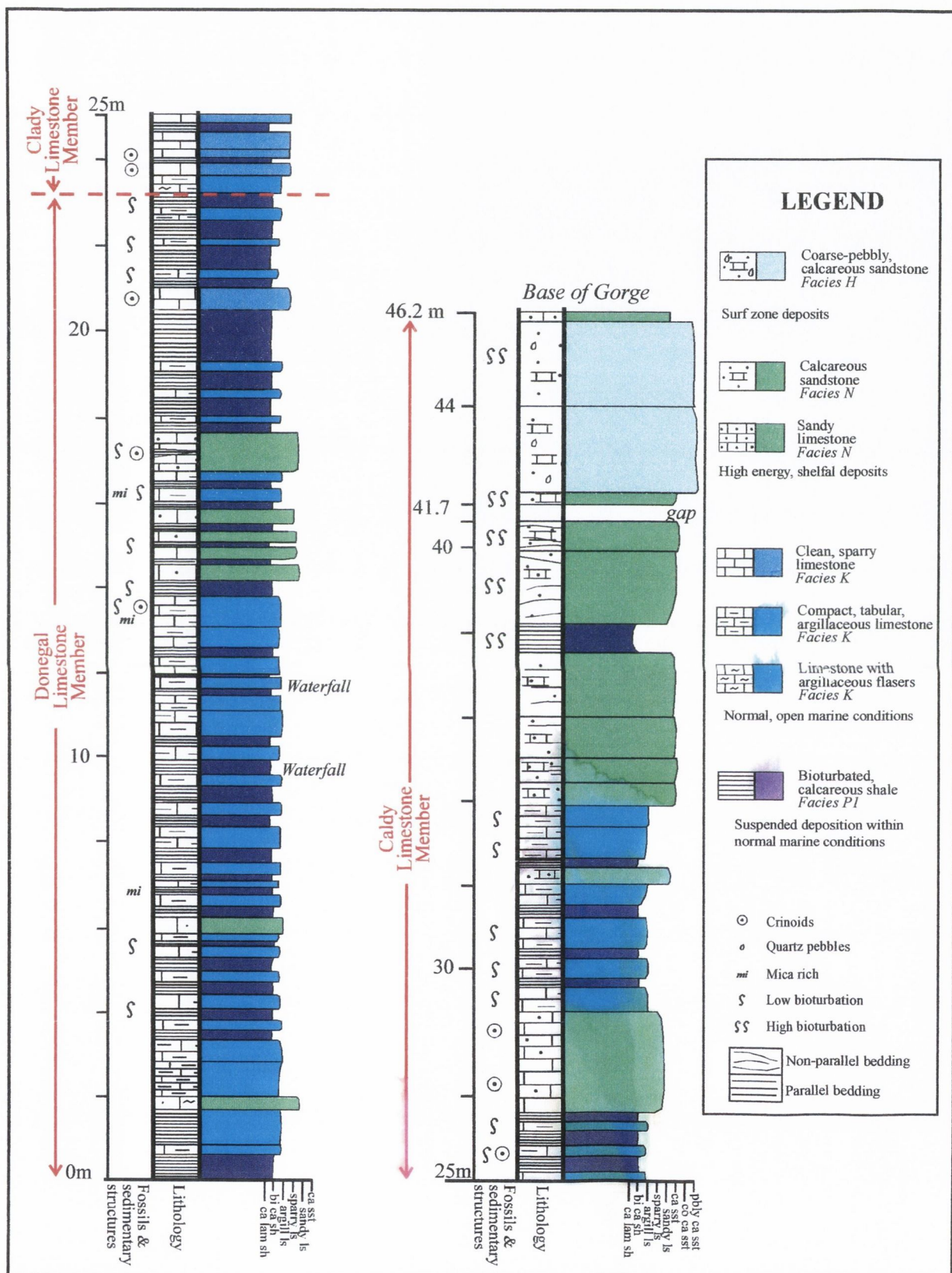


Figure 53 Log of the Clady River from Clady Bridge (GR19576 38429) westwards to the gorge, showing the Donegal Limestone Member overlain by the Clady Limestone Member.

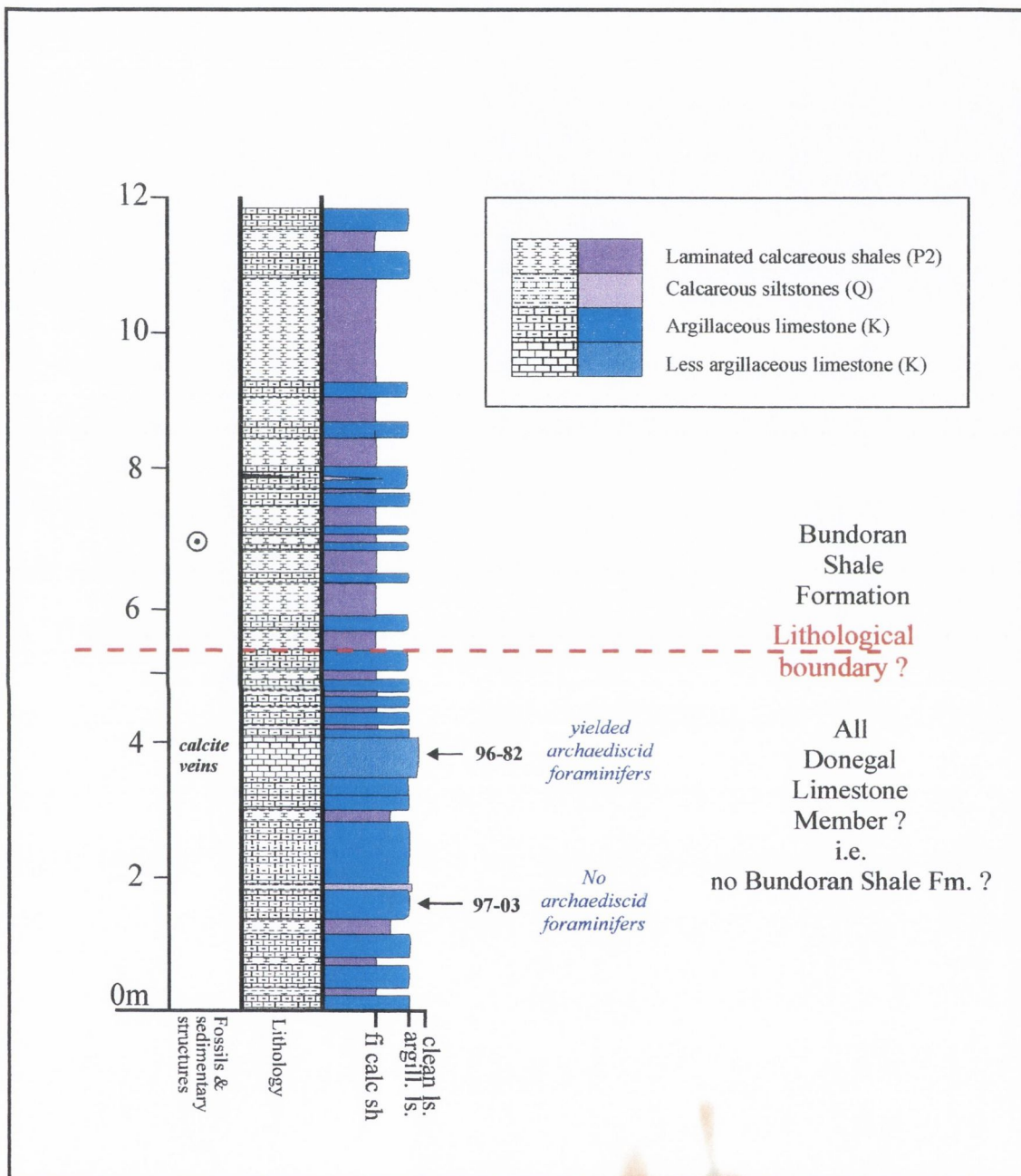


Figure 54 Log at Rossylongan Strand (GR19133 37787 to GR19164 37822) containing the possible lithological boundary between the Donegal Limestone Member (of the Ballyshannon Limestone Formation) and the Bundoran Shale Formation. A boundary at this location would entail assigning an Arundian age to the Donegal Limestone Member in this area. Thus, it would be the only locality within the Donegal Basin where this member is Arundian in age.

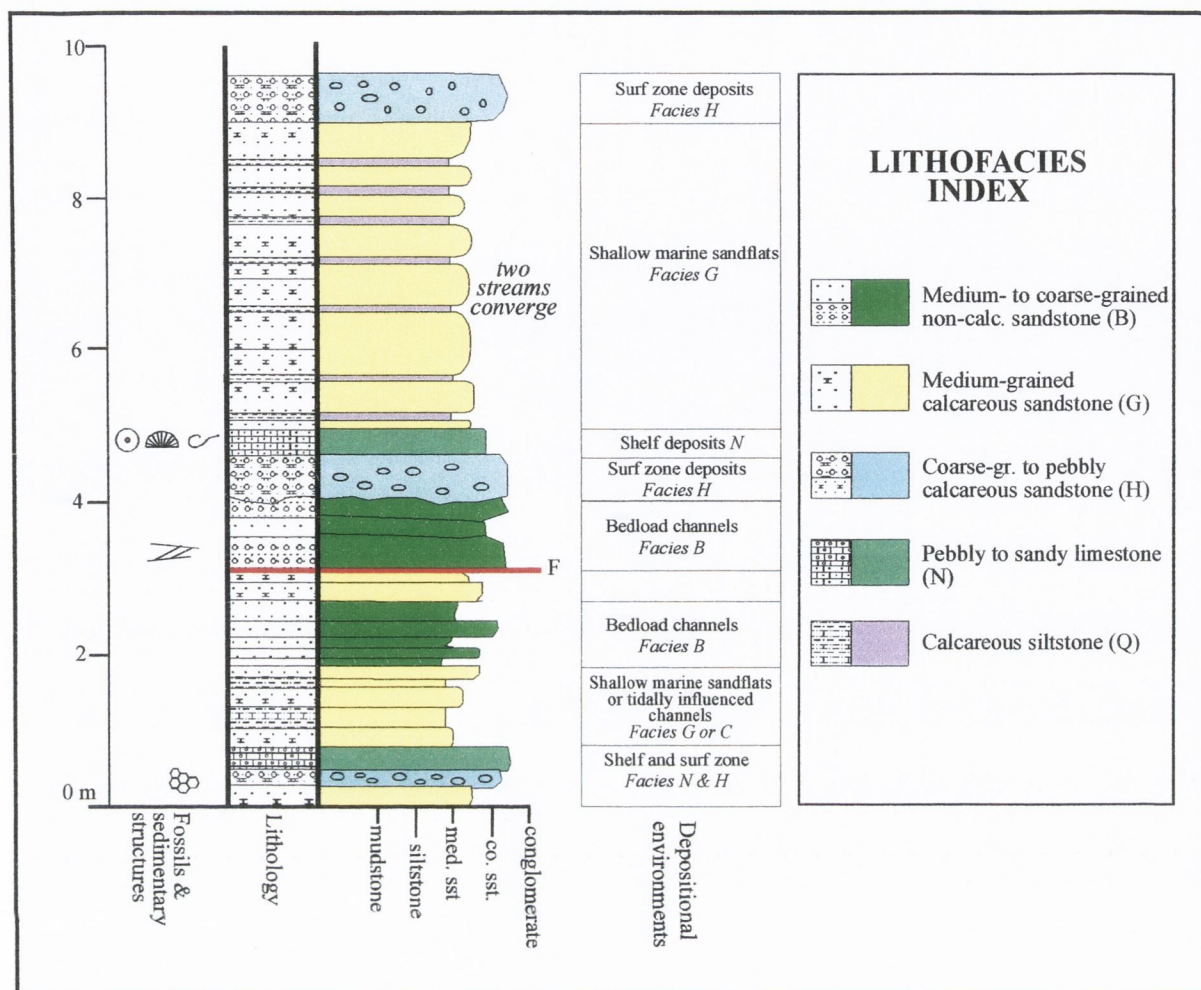


Figure 55 Log through a stream section near Meenataggart (to the north-west of Banagher Hill - GR19287 38609), displaying a very gradational passage towards the top of the Banagher Sandstone Formation with the Bundoran Shale Formation. The Banagher Sandstone Formation is non-calcareous elsewhere in the area.

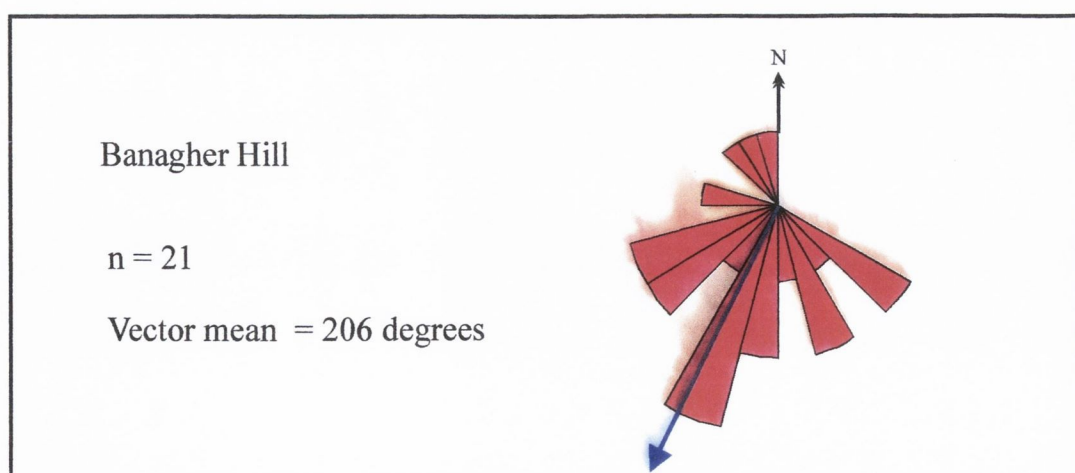


Figure 56 Rose diagram showing current-to palaeocurrent directions (from cross-strata) within the Banagher Sandstone Formation. Blue arrow indicates vector direction.

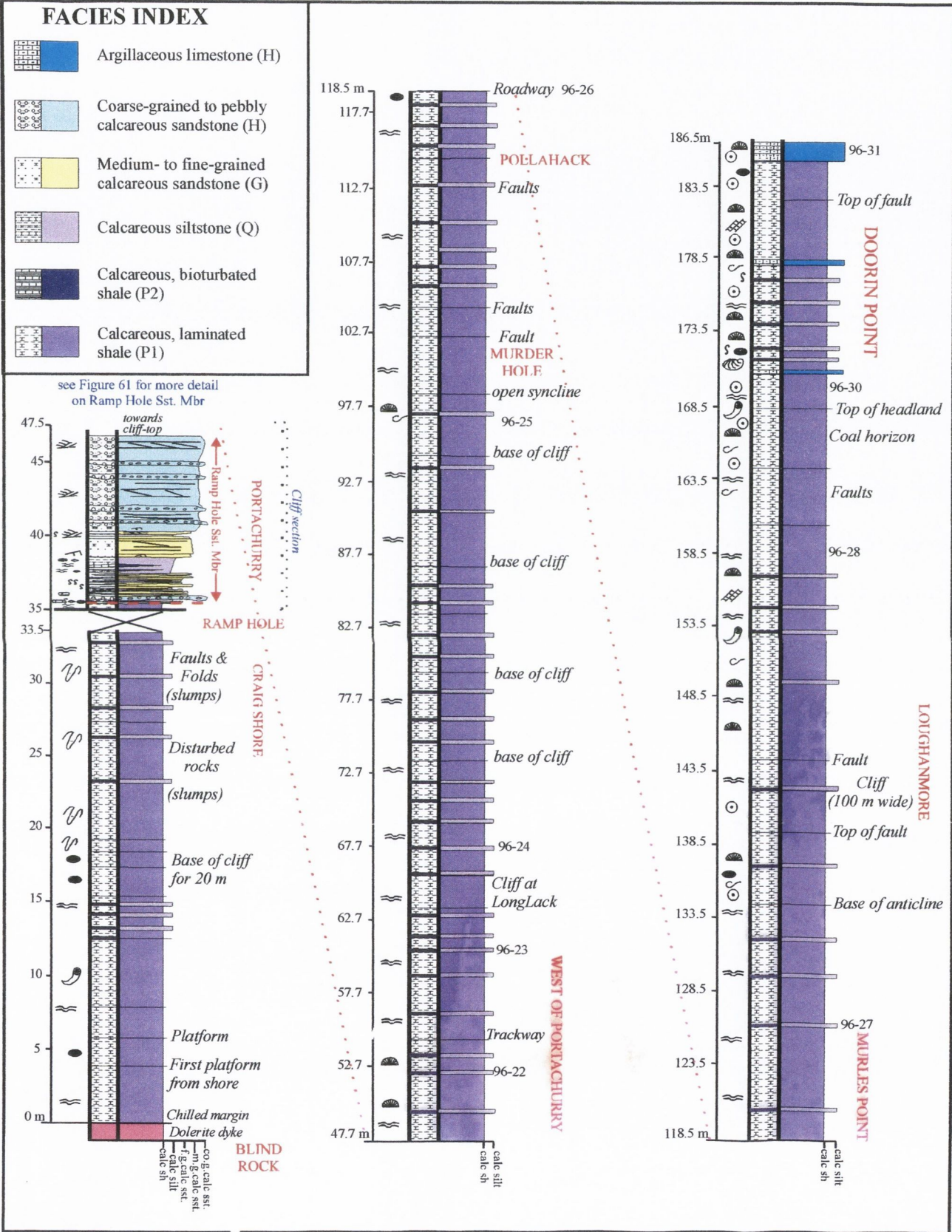
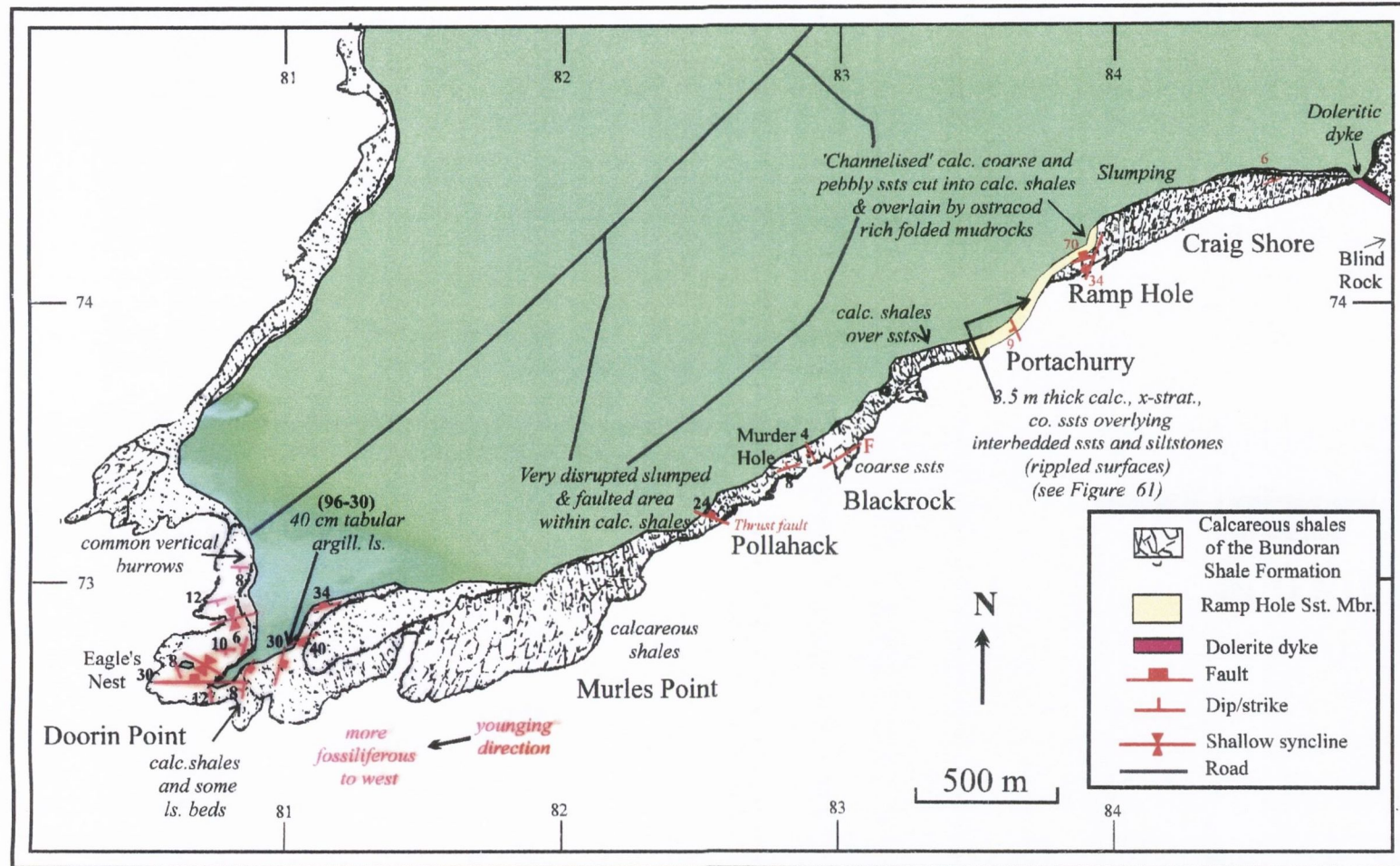


Figure 57 Lithofacies log of the Bundoran Shale Formation from Blind Rock to Doorin Point - along the Doorin Peninsula (refer to Figure 58 for localities).



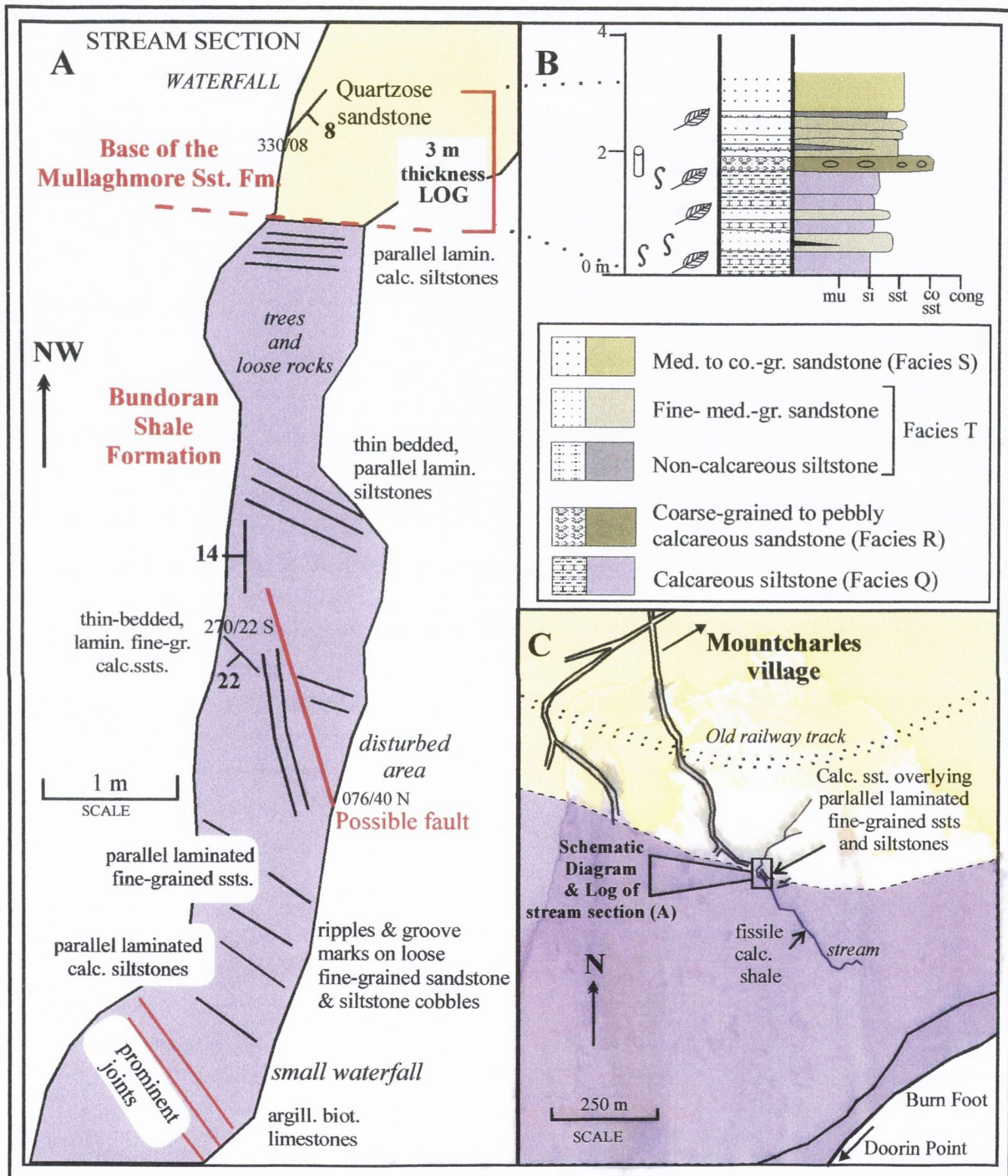


Figure 59 **Insert A** Schematic diagram of a stream section at Dromore (inland Doorin Peninsula - GR18527 37593), displaying a gradational contact between the Bundoran Shale Formation and overlying Mullaghmore Sandstone Formation.

Insert B Log of base of the Mullaghmore Sandstone Formation.

Insert C Location of stream section c.1.6 km south of Mountcharles village.

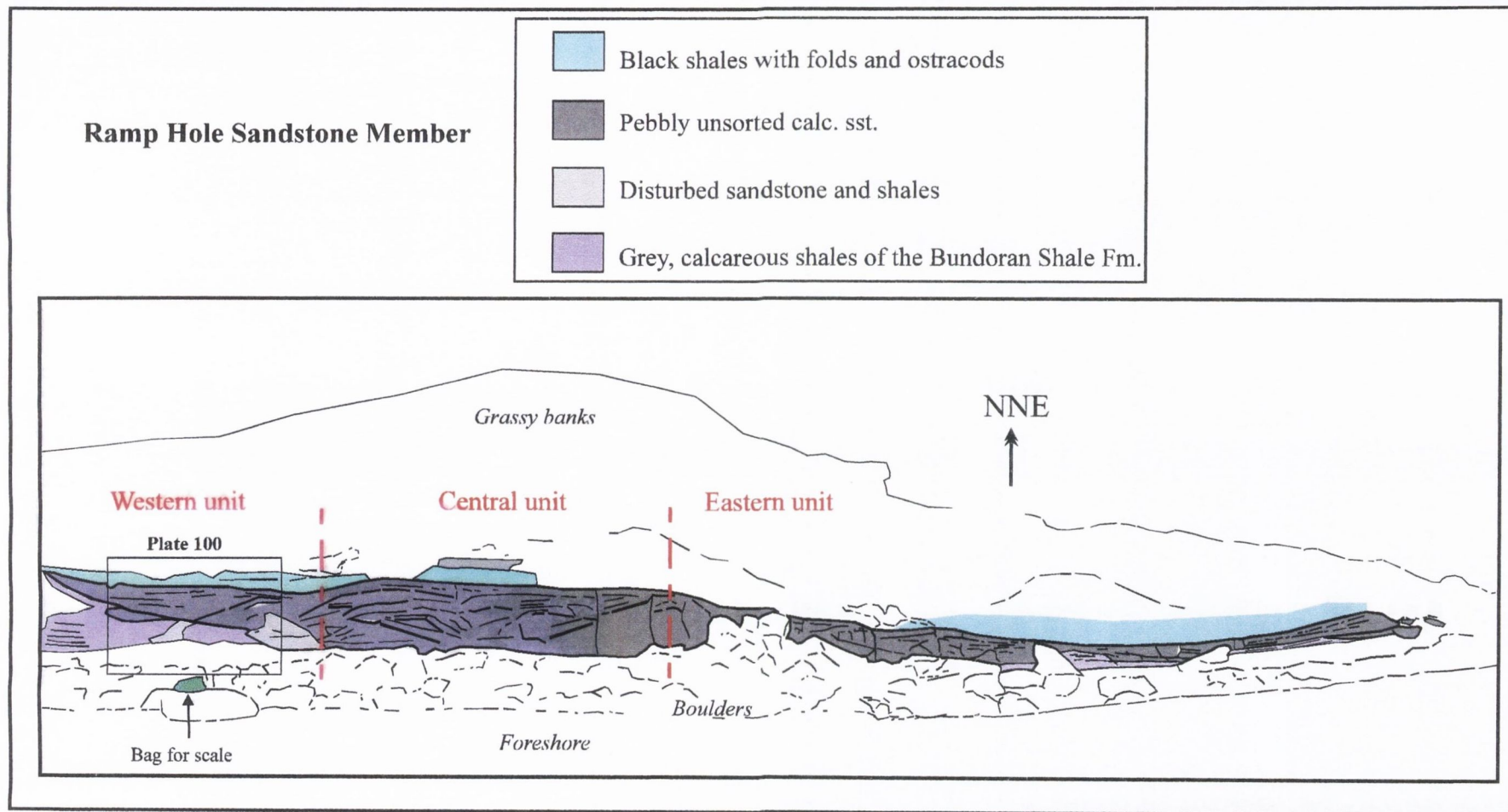
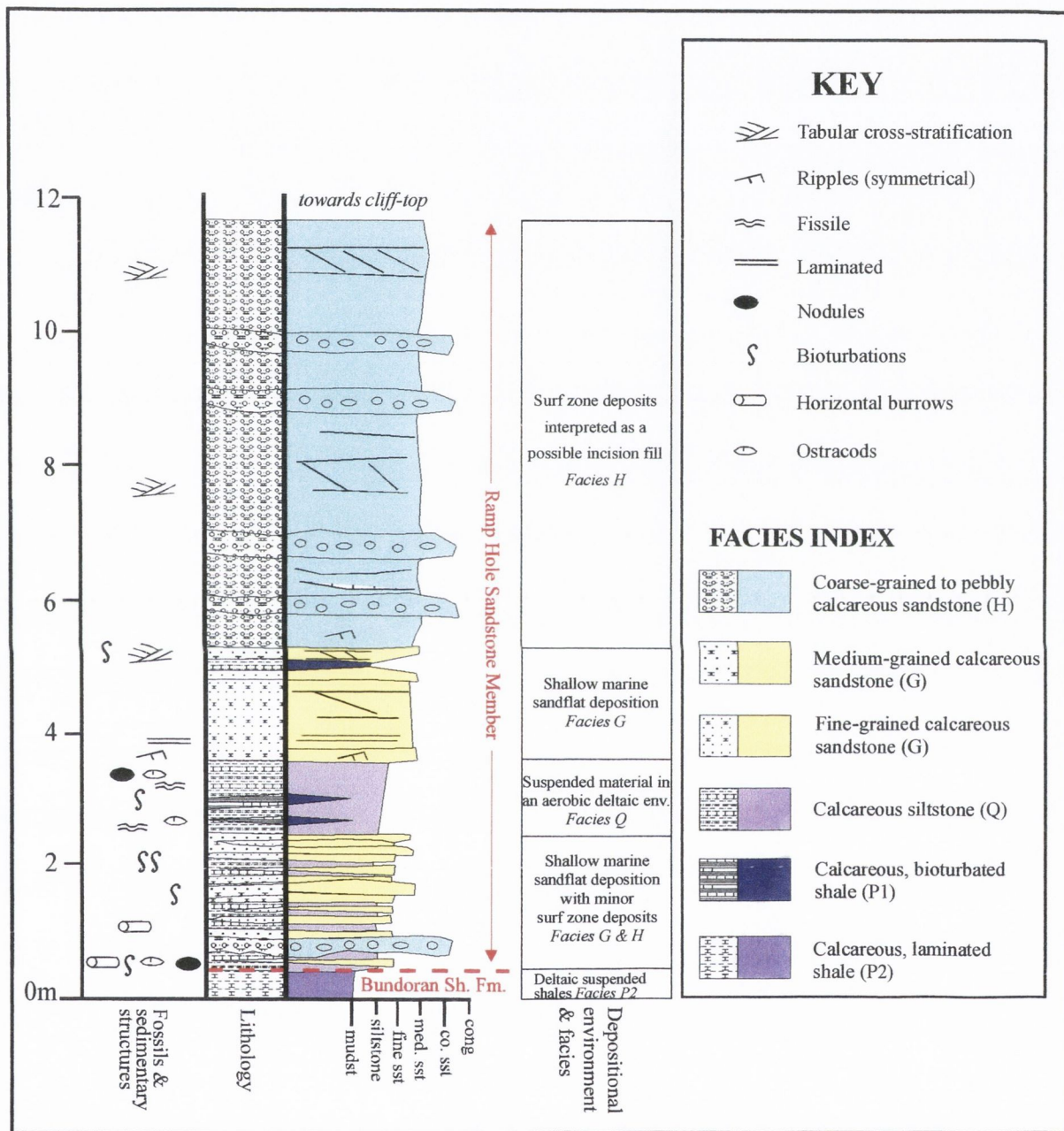


Figure 60 Cross-section of the sandstone unit (Ramp Hole Sandstone Member) at Ramp Hole, Doorin Peninsula



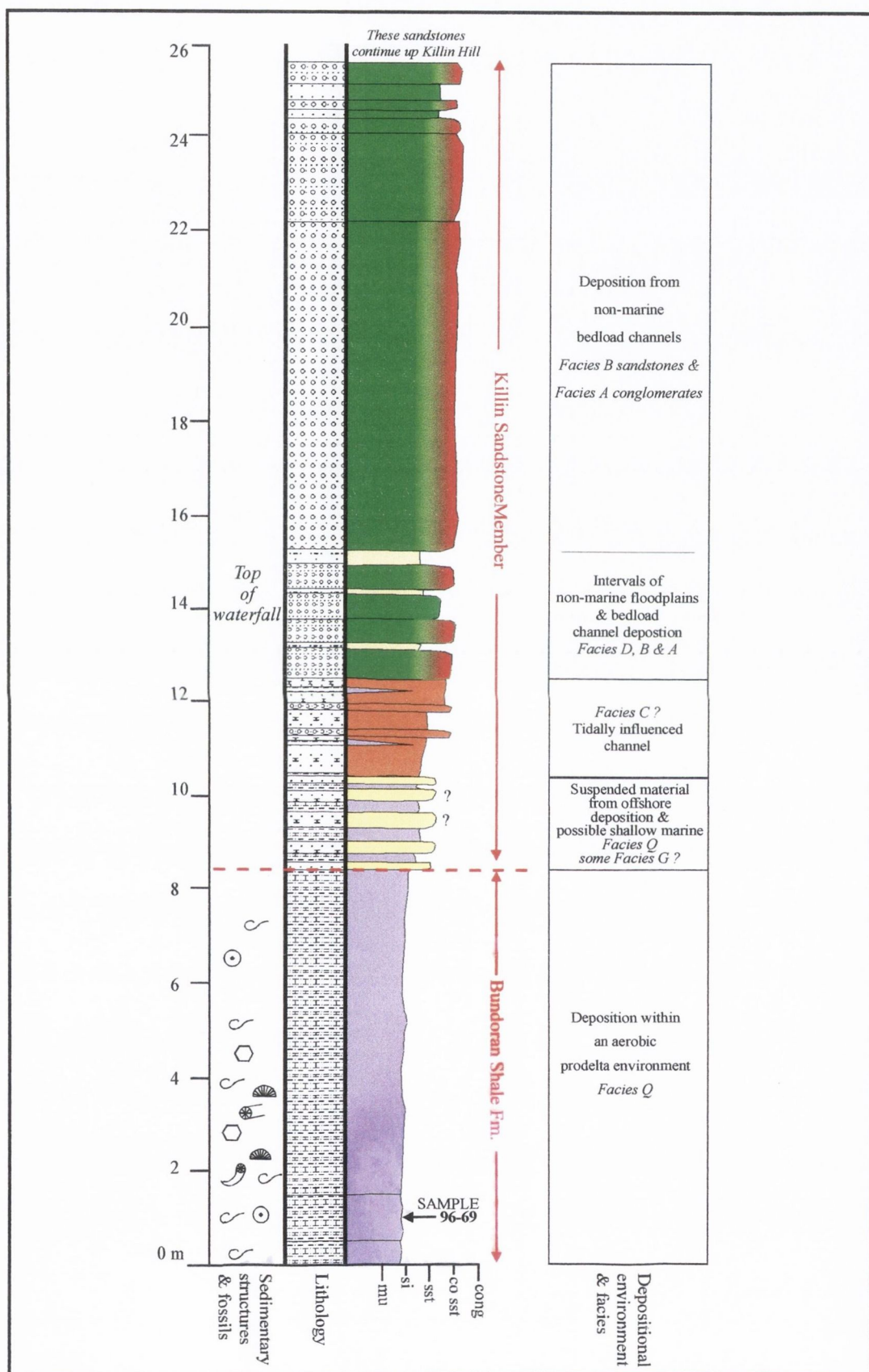


Figure 62 Lithofacies log of the Killin Sandstone Member interbedded with calcareous siltstones of the Bundoran Shale Formation at the base of Killin Hill (GR18322 38311).

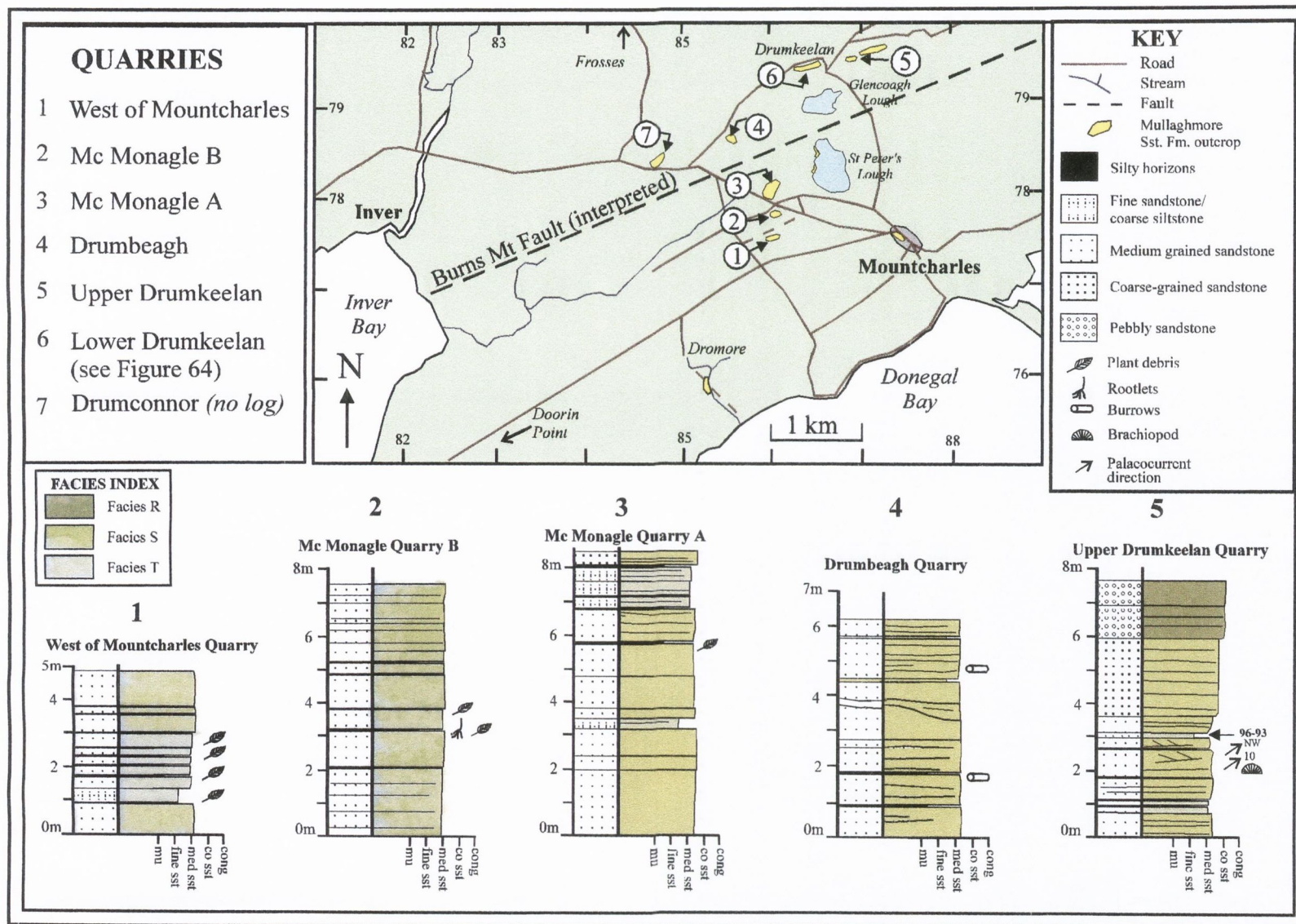


Figure 63 Lithofacies logs of the Mullaghmore Sandstone Formation and their locations within several quarries in the Mountcharles area.

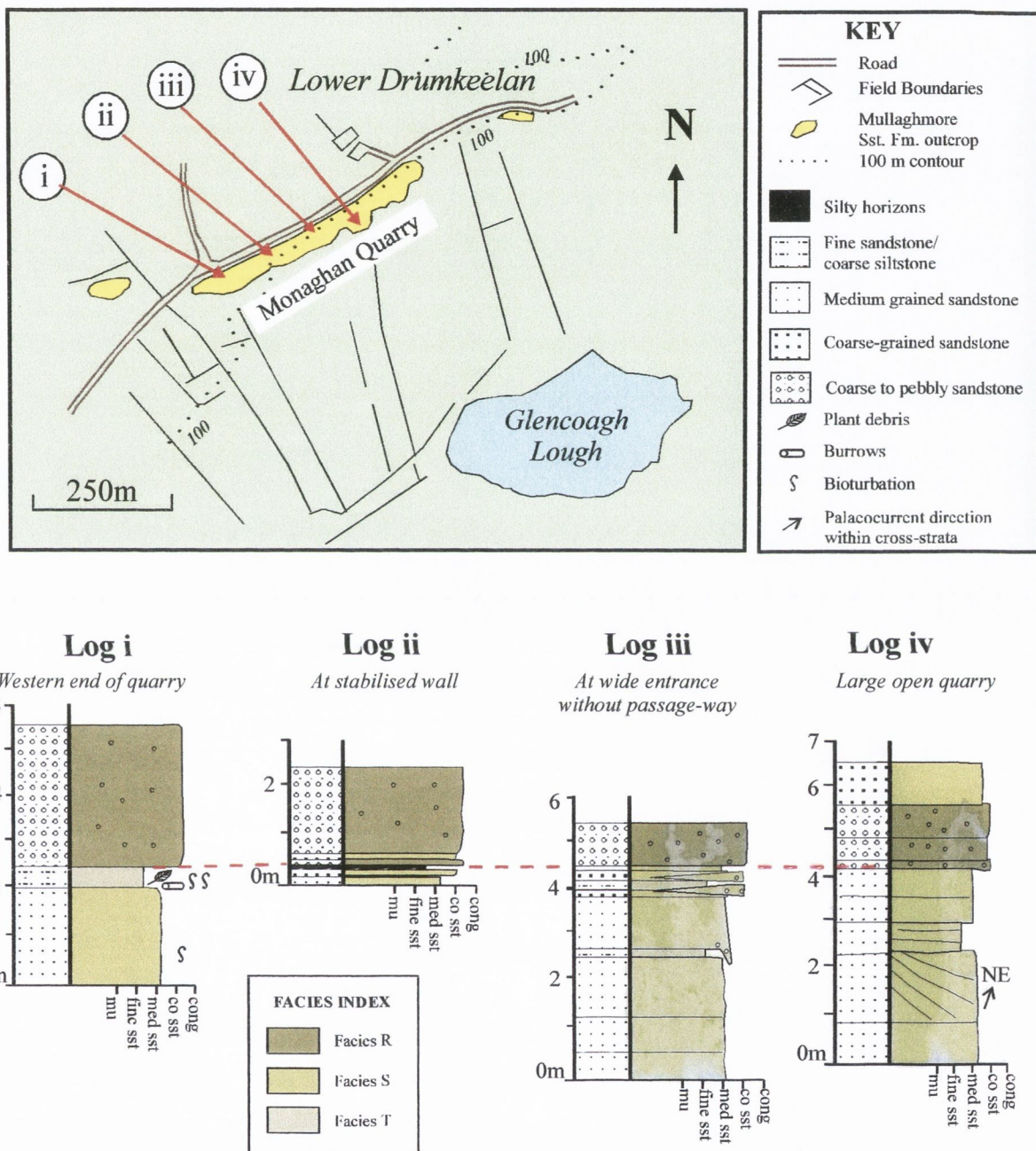


Figure 64 Location map and logs of the Monaghan Quarry at Lower Drumkeelan, Mountcharles comprising the Mullaghmore Sandstone Formation. Refer to Figure 63 for a reference map to the quarries in the Mountcharles area.

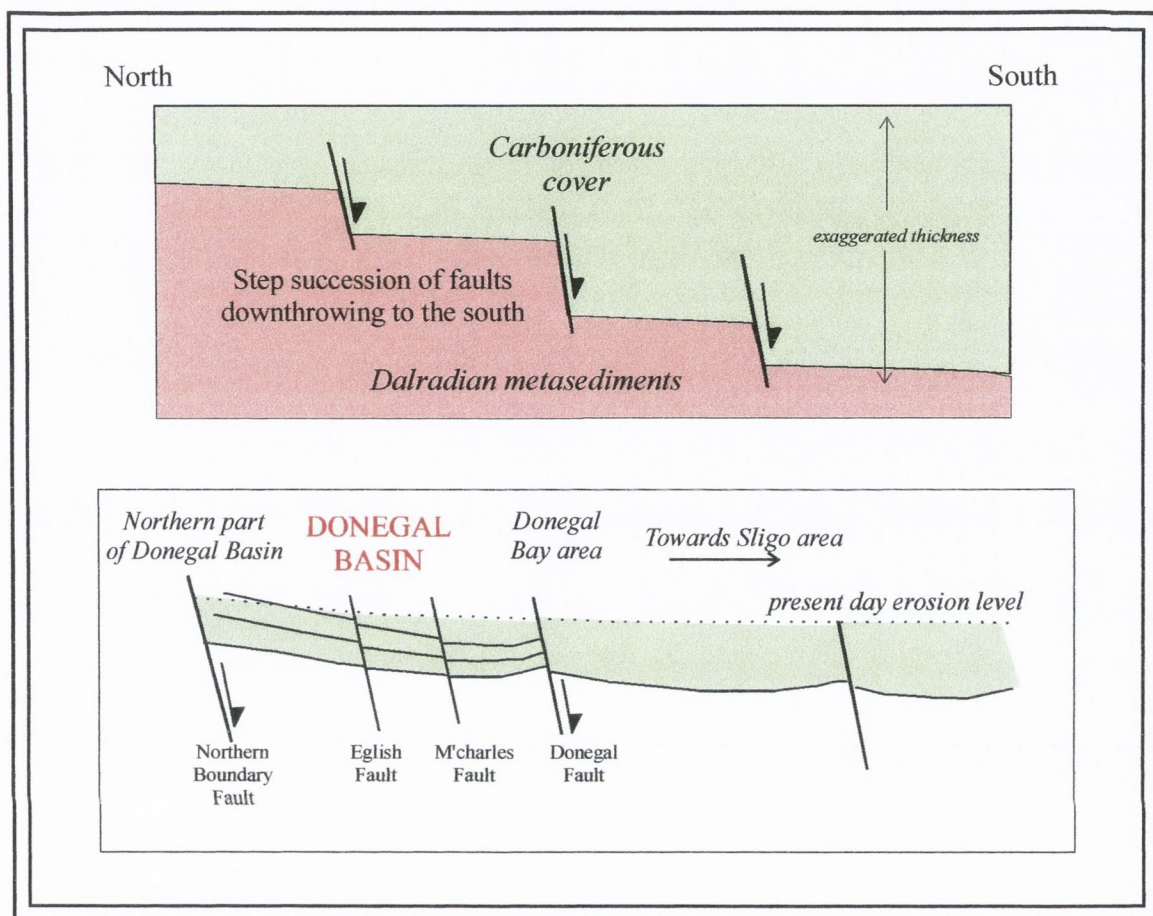


Figure 67 Schematic diagram displaying a cross-section through the Northwest Carboniferous Basin of Ireland. It displays the stepped effect within the succession as a result of faulting. Each faulted block was infilled with Carboniferous sediments to produce a series of sub-basins.

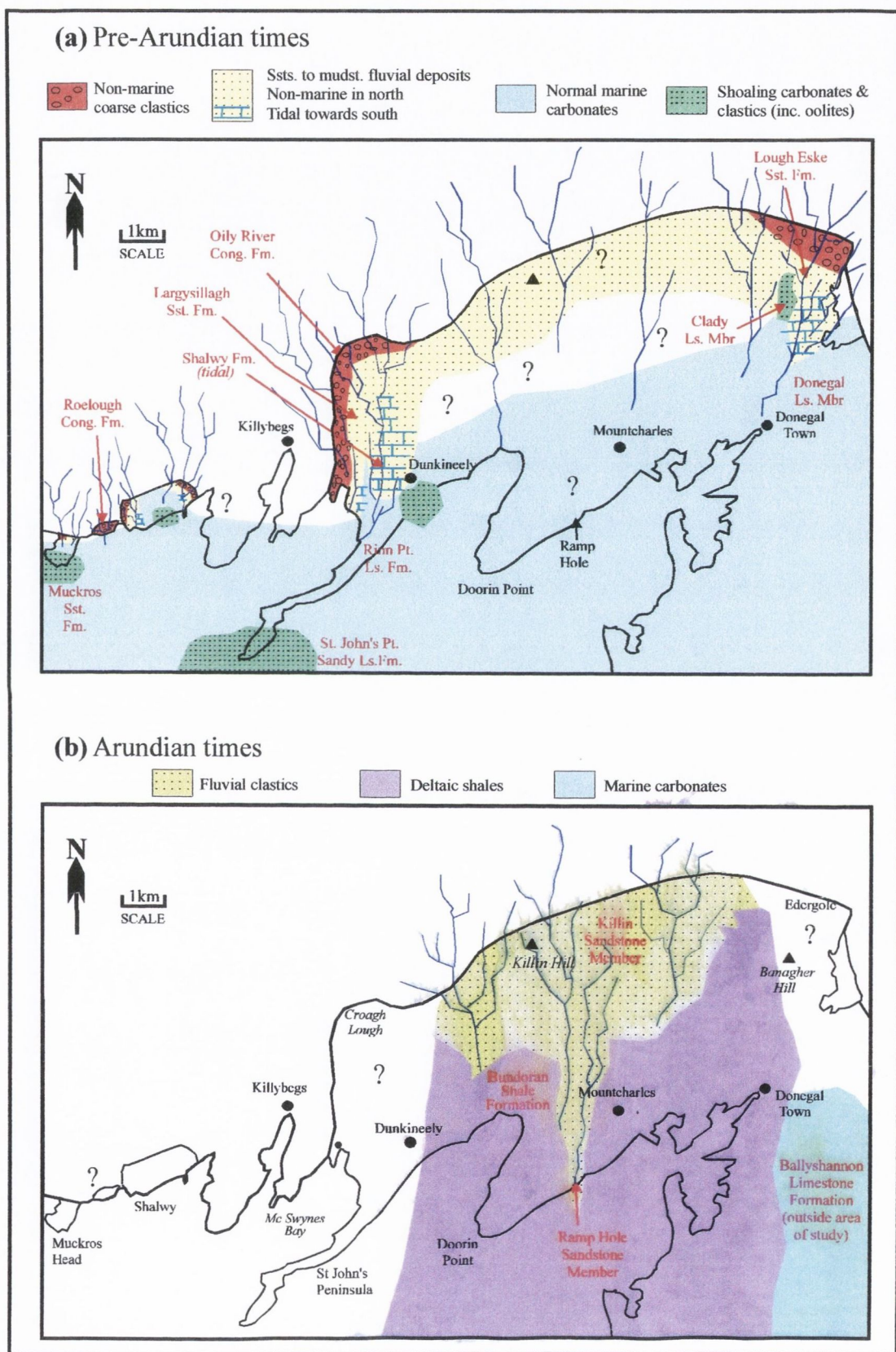


Figure 68 Palaeogeographic sketches of the Carboniferous Basin of Donegal, during (a) Pre-Arundian times and (b) Arundian times.

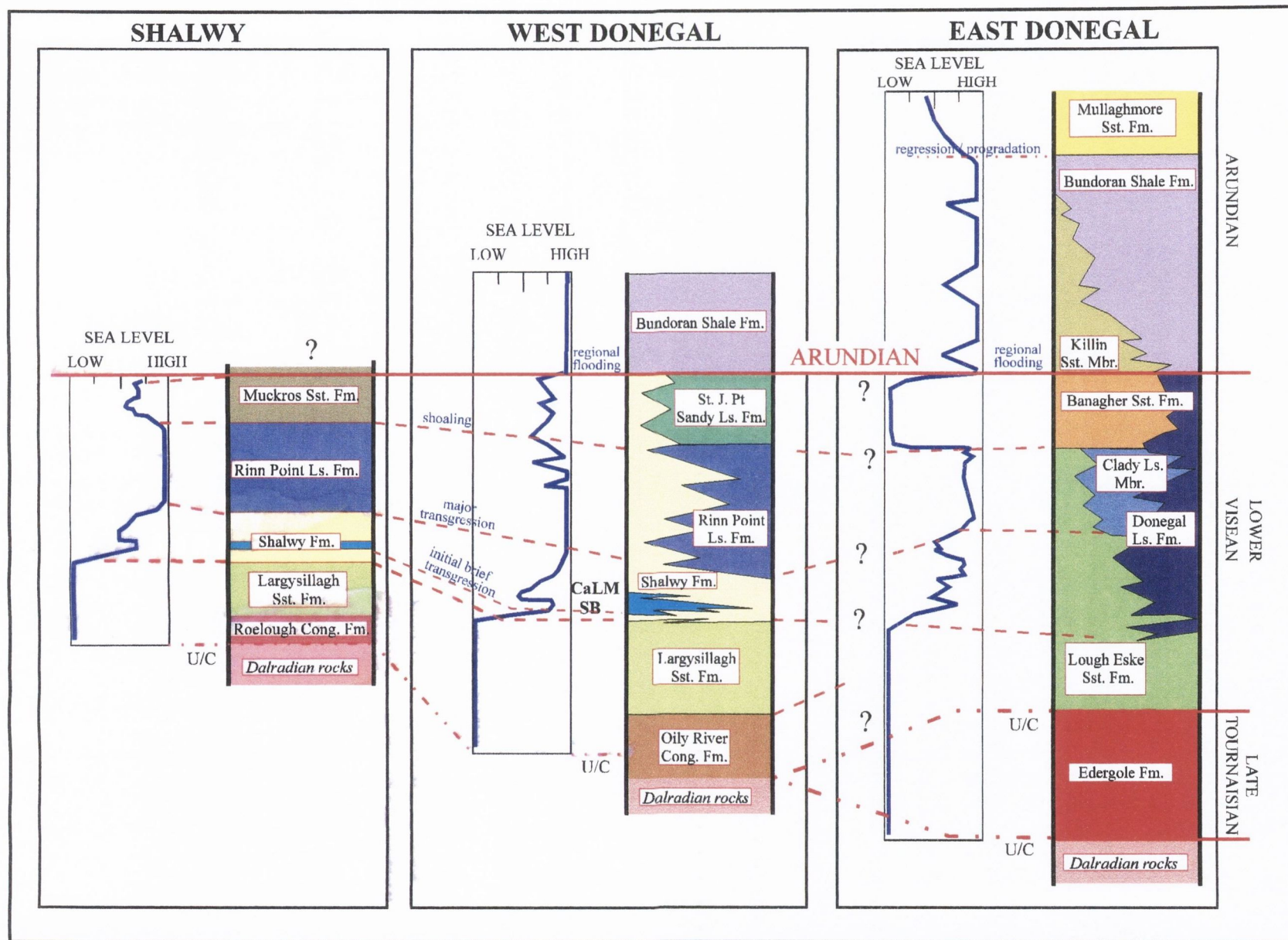


Figure 69 Schematic diagram of relative sea-level changes within the Carboniferous Donegal Basin. CaLM: Calhame Limestone Member, SB: 'Syringopora Bed', U/C: Unconformity.

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- Plate 44** Facies N, sandy limestones and calcareous sandstones at St. John's Point Gullhuch Sandy Limestone Member.
- Plate 45** Facies P1, bioturbated, calcareous shales with flattened caninoid corals at Rinn Point – Rinn Point Limestone Formation.
- Plate 46** Facies P2, laminated calcareous shales with a Facies Q calcareous siltstone bed at Burn Foot, Doorin Peninsula – Bundoran Shale Formation.
- Plate 47** Facies Q, laminated to rippled calcareous siltstones and Facies P2 calcareous shales at Doorin Peninsula – Bundoran Shale Formation.
- Plate 48** Facies R, massive, pebbly sandstones above Facies S cross-stratified sandstones at Drumkeelan Quarry, Mountcharles – Mullaghmore Sst. Fm.
- Plate 49** Facies S, thinly bedded, well-sorted sandstones with small channel fill at Drumbeagh Quarry, Mountcharles - Mullaghmore Sst. Fm.
- Plate 50** Facies S, flaggy, well sorted, feldspathic sandstones at Drumkeelan Quarry, Mountcharles – Mullaghmore Sandstone Fm.
- Plate 51** Facies S, well sorted, sandstones with straight hinged brachiopod at Drumkeelan Quarry, Mountcharles – Mullaghmore Sst. Fm.
- Plate 52** Facies S, well sorted sandstones with planispirally-coiled gastropods at Drumkeelan Quarry, Mountcharles – Mullaghmore Sst. Fm.
- Plate 53** Facies S well sorted sandstones with abundant plant debris at South Mountcharles Quarry, Mountcharles – Mullaghmore Sst. Fm.
- Plate 54** Facies T micaceous sandstones and siltstones with abundant plant debris at quarry west of Mountcharles – Mullaghmore Sst. Fm.
- Plate 55** *Taenidium barreti* (*Beaconites barreti*) on sandstone surface at Shalwy – Largysillagh Sandstone Formation.
- Plate 56** Roelough Conglomerate Fm. overlain by Largysillagh Sst. Fm. as shown, Shalwy
- Plate 57** Contact as in Plate 56 - Facies D mudstone and siltstones & Facies B sandstones (Largysillagh Sst. Fm.) over Roelough Conglomerate Fm.
- Plate 58** Thin bedded lenoid sandstones over Facies A conglomerates at Ballyloughan - Oily River Conglomerate Formation.
- Plate 59** Wedge bedded, cross-stratified, red sandstones with erosional surfaces exposed in Oily River - Oily River Conglomerate Formation.
- Plate 60** Close-up of Plate 59, cross-stratified sandstones in Oily River - Oily River Conglomerate Formation.
- Plate 61** Faulted contact Dalradian pelites (left) and Oily River Conglomerate Formation (in quarry on Killybegs road - Bruckless).
- Plate 62** Channel complex at Killaghtee, McSwyne's Bay – Largysillagh Sandstone Formation.
- Plate 63** Overall geometry at Shalwy of Facies F IHS overlain by Facies C bipolar sandstones and Facies G tabular sandstones– Shalwy Formation.
- Plate 64** Preserved channel fill of Facies B sandstones over Facies J mudstones & micrite at Shalwy - Shalwy Formation.
- Plate 65** 'Syringopora Bed' at Killaghtee, McSwyne's Bay – Shalwy Formation.

- Plate 66** Contact between Largysillagh Sst. Fm. & Shalwy Formation, Castle Port
- Plate 67** Channel margin infilled by sandstone and siltstone lenses at Castle Port – Shalwy Formation.
- Plate 68** Cross-stratified, bipolar? coarse-grained sandstones with preserved ripples at Castle Port – Shalwy Formation (close up of Plate 67).
- Plate 69** Solitary set of cross-stratified, well-sorted sandstones, north of Kiln Port – Shalwy Formation.
- Plate 70** Green fields delineating presence of underlying Calhame Limestone Member in landscape at Calhame.
- Plate 71** Wavy texture in limestones at Calhame - Calhame Limestone Member.
- Plate 72** Straight-hinged brachiopods (*Delepinea* ?) at Kiln Port- Rinn Point Limestone Formation.
- Plate 73** Caninoid coral at Ballysaggart, St. John's Peninsula - Rinn Point Limestone Formation.
- Plate 74** *Zoophycus* trace fossil on argillaceous limestone surface at St. John's Peninsula - Rinn Point Limestone Formation.
- Plate 75** 'Biostrome', east of Shalwy Point - Rinn Point Limestone Formation.
- Plate 76** *Solenodendron* coral, east of Shalwy Point - Rinn Point Limestone Formation.
- Plate 77** *Solenodendron* coral under microscope, east of Shalwy Point - Rinn Point Limestone Formation (diameter c. 1 cm).
- Plate 78** Fossiliferous debris within sandy limestones at St. John's Point – Gullhuch Sandy Limestone Member.
- Plate 79** Burrowed horizon at St. John's Point – Gullhuch Sandy Limestone Member.
- Plate 80** Fault at Dough Cove, St. John's Pt – Gullhuch Sandy Ls. Mbr to right (E), Rabley Ls. Mbr. to left (W).
- Plate 81** Fault at Cavan Point, SE of Dunkineely - Cavan Sandstone Member to right (N), Rinn Pt. Ls. Fm. to left (S)
- Plate 82** Tabular sandstone beds north of fault at Cavan Point, SE of Dunkineely - Cavan Sandstone Member.
- Plate 83** Facies G sandstones with parallel lamination and ripples, SE of Dunkineely - Cavan Sandstone Member.
- Plate 84** Irregular lensoid beds with erosional surfaces, SE of Dunkineely - Cavan Sandstone Member.
- Plate 85** *Rhizocorallium* trace fossil in sandstones, SE of Dunkineely - Cavan Sandstone Member.
- Plate 86** Facies G well sorted generally tabular calcareous sandstones with small channel fill at Muckros Head - Muckros Sandstone Formation.
- Plate 87** Trough axis in sandstones at Muckros Head – Muckros Sandstone Formation.
- Plate 88** Limestones (Rinn Pt Ls. Fm.) in lower half overlain by Muckros Sst. Fm. – core of Shalwy Syncline.
- Plate 89** Immature pebbly sandstones – Carboniferous Outlier on Slieve League.
- Plate 90** *Stigmara* roots with sandstones – Carboniferous Outlier on Slieve League.

- Plate 91** Immature clast supported conglomerates in Edergole Stream - Edergole Formation.
- Plate 92** Gorge section in Edergole Stream - Edergole Formation.
- Plate 93** Blue Stack Mountains in background with Northern Boundary Fault separating Carboniferous rocks in foreground – north of Lough Eske.
- Plate 94** Sandstones over shales at Owenboy – Lough Eske Sandstone Formation ?
- Plate 95** Argillaceous limestone and fissile calcareous shales in River Eske – Donegal Limestone Member
- Plate 96** Wavy bedded to nodular limestone at Banagher Hill – Clady Limestone Member.
- Plate 97** Gastropods etched on limestone surface at Banagher Hill – Clady Limestone Member.
- Plate 98** Change in landscape – Banagher Sst. Fm. in upper half of section over Clady Ls. Mbr. at Banagher Hill.
- Plate 99** Cut-bank channel fill over thin-bedded sandstones at Banagher Hill – Banagher Sandstone Formation.
- Plate 100** Cut-bank channel fill overlain by shales at Ramp Hole – Ramp Hole Sandstone Member.
- Plate 101** ‘Ball and pillar’ structure within coarse sandstones at Ramp Hole – Ramp Hole Sandstone Member.
- Plate 102** Microfolds in ostracod rich shales at Ramp Hole – Bundoran Shale Formation.
- Plate 103** Facies G well sorted sandstone with ripples over shales with nodules - at Portachurry - Ramp Hole Sandstone Member.
- Plate 104** Facies H coarse-grained, calcareous sandstone at Portachurry - Ramp Hole Sandstone Member.
- Plate 105** Ramp Hole Sst. Mbr. to foreground and Bundoran Shale Fm. in background – Portachurry, Doorin Peninsula.
- Plate 106** Immature Facies A conglomerates at Killin Hill - Killin Sandstone Member
- Plate 107** Immature coarse-grained arkosic sandstone at Sallows – Killin Sandstone Mbr.
- Plate 108** Foraminifers from the archaedisid family - in silty limestones
- 108a** Sample 96-35, TCD No.50678 - Bunlacky River, Bundoran Shale Fm.
- 108b** Sample L248, TCD No.50541 - Eglisk River, Bundoran Shale Fm.



Plate 1 Facies A1 clast-supported conglomerates at Shalwy. These conglomerates of the Roelough Conglomerate Formation unconformably overlie Dalradian schists.



Plate 2 Facies A1 quartzite and vein quartz clasts at Shalwy - Roelough Conglomerate Formation.



Plate 3 Facies A1 conglomerates with sheeted geometry at Shalwy- Roelough Conglomerate Formation.



Plate 4 Facies A1 conglomerates over parallel laminated Facies B sandstones at Shalwy, Roelough Conglomerate Formation.



Plate 5 Facies A2 variably matrix- to clast-supported conglomerates at Ballyloughan, Oily River Conglomerate Formation.



Plate 6 Facies A2 conglomerates comprising quartzite, quartz, psammite and schist at Ballyloughan, Oily River Conglomerate Formation.



Plate 7 Facies A2 clast-supported, angular conglomerate with angular clasts, towards Croagh Lough - Oily River Conglomerate Formation.



Plate 8 Close-up of Plate 7 above, showing brecciated appearance of quartzite, quartz and schist clasts.



Plate 9 Facies A3 predominantly matrix-supported conglomerates at Banagher Hill – Banagher Sandstone Formation.



Plate 10 Cross-stratification within Facies A3 conglomerates and pebbly sandstones at Banagher Hill – Banagher Sandstone Formation.



Plate 11 Facies B generally tabular sandstones with a cut bank of a channel at Shalwy – Largysillagh Sandstone Formation.



Plate 12 Facies B sandstones with tabular and wedge bedded geometries at Castle Port-Shalwy Formation. Note small channel fill at bag location.



Plate 13 Facies B sandstones with erosional surfaces beneath McSwyne's Castle – Largysillagh Sandstone Formation.



Plate 14 Facies B sandstones with erosional surfaces with Facies D infilling hollows beneath McSwyne's Castle – Largysillagh Sandstone Formation.



Plate 15 Facies C calcareous sandstones with bipolar cross strata and ripples at Shalwy – Shalwy Formation.



Plate 16 Facies C calcareous sandstones with ripples and drape preserved on surfaces at Shalwy – Shalwy Formation.



Plate 17 Facies C calcareous sandstones with bipolar cross-strata at Gilbertstown – Shalwy Formation.



Plate 18 Facies C calcareous, cross-stratified sandstones with quartz pebbles lined along foresets and bases at Greenan – Lough Eske Sandstone Formation.

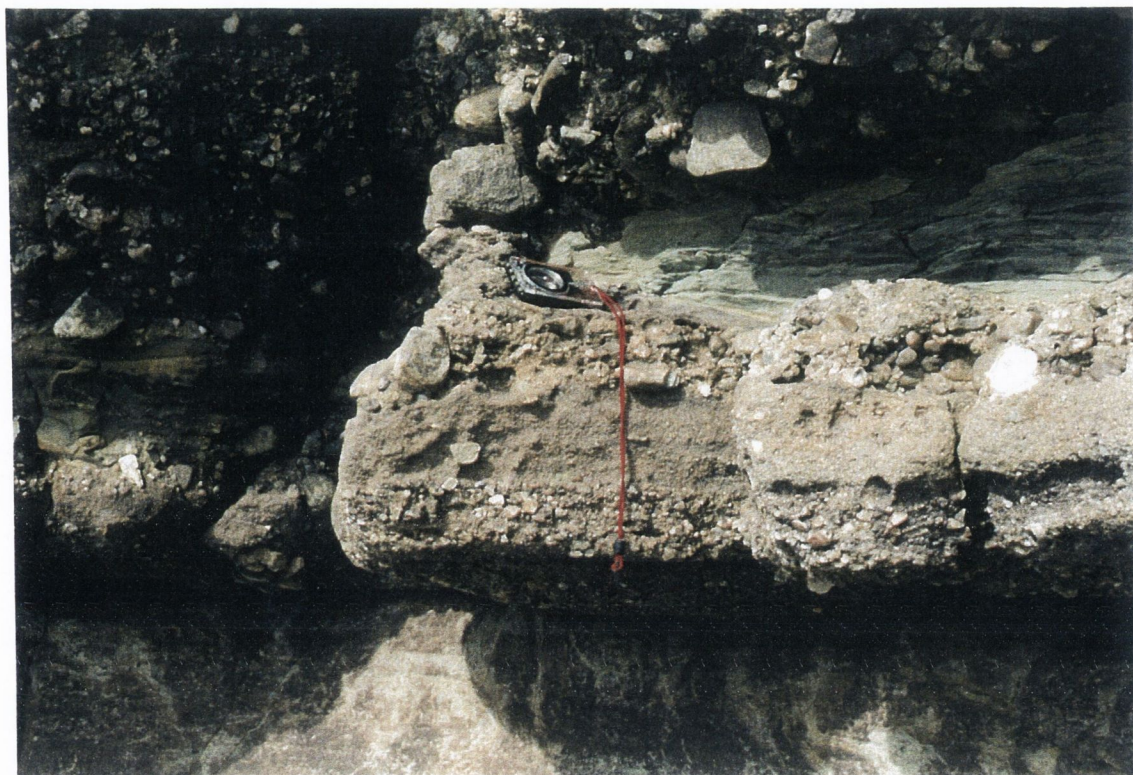


Plate 19 Facies D red variegated and green mudstones with sharp base ^{at} to pebbly lag at Ballyloughan - Oily River Conglomerate Formation.



Plate 20 Facies D laterally continuous red and green mudstones with siltstone lenses at Killaghtee, Largysillagh Sandstone Formation.



Plate 21 Small trough cross-stratification within Facies D siltstones at Killaghtee – Largysillagh Sandstone Formation.



Plate 22 Facies D irregularly bedded variegated siltstones at Killaghtee – Largysillagh Sandstone Formation.



Plate 23 Facies D burrowed siltstone - with possible rootlet on surface? at Castle Port – Shalwy Formation.



Plate 24 Grey laminated siltstones and mudstones of Facies E at Killaghtee – Largysillagh Sandstone Formation.



Plate 25 Facies E laminated siltstones and mudstones lining irregular hollows of Facies B sandstones at Killaghtee – Largysillagh Sandstone Formation.



Plate 26 Facies E grey mudstones with plant debris on surface at Castle Port - Largysillagh Sandstone Formation.



Plate 27 Facies F sandstone dominant Inclined Heterolithic Strata at Shalwy – Largysillagh Sandstone Formation.



Plate 28 Facies F sandstone dominant Inclined Heterolithic Strata at Shalwy – Shalwy Formation.



Plate 29 Facies F sandstone/mudstone Inclined Heterolithic Strata at Shalwy – Shalwy Formation.



Plate 30 Facies F mudstone Inclined Heterolithic Strata with fusain at Shalwy – Shalwy Formation.



Plate 31 Facies G tabular beds of well-sorted, fine- to medium-grained sandstones at Shalwy – Shalwy Formation.



Plate 32 Facies G parallel laminated with small ripples at Castle Port – Shalwy Formation.



Plate 33 Facies G 'rib and furrow' micro trough cross-lamination beneath well-sorted sandstones at Castle Port – base of Shalwy Formation.



Plate 34 Facies G well-sorted sandstones with intensive bioturbation at Shalwy - Shalwy Formation.



Plate 35 Facies H medium- to coarse-grained, bioturbated calcareous sandstone at Shalwy – Shalwy Formation.



Plate 36 Facies H calcareous sandstones with quartz granules and *Syringopora* coral at Shalwy – Shalwy Formation.



Plate 37 Facies J black mudstones and siltstones with nodules at Shalwy - Shalwy Formation.



Plate 38 Facies J mudstones with septarian nodules at Shalwy – Shalwy Formation.



Plate 39 Facies K tabular beds of compact, bioturbated, argillaceous limestones west of Rinn Point – Rinn Point Limestone Formation.



Plate 40 Facies K argillaceous limestones with fossiliferous debris and intensive bioturbation at Rinn Point – Rinn Point Limestone Formation.



Plate 41 Facies L crinoidal grainstone at Ballyederlan – Rinn Point Limestone Formation.



Plate 42 Facies L grainstone with crinoid ossicles at Ballyederlan – Rinn Point Limestone Formation.



Plate 43 Facies M thinly bedded, wavy argillaceous to sandy limestone at St. John's Point – Rabley Limestone Member.



Plate 44 Facies N sandy limestones and calcareous sandstones at St. John's Point Gullhuch Sandy Limestone Member.



Plate 45 Facies P1 bioturbated, calcareous shales with flattened caninioid corals at Rinn Point – Rinn Point Limestone Formation.



Plate 46 Facies P2 laminated calcareous shales at Burn Foot, Doorin Peninsula – Bundoran Shale Formation.



Plate 47 Facies Q laminated to rippled calcareous siltstones and Facies P2 calcareous shales at Doorin Peninsula – Bundoran Shale Formation.



Plate 48 Facies R massive, pebbly sandstones above Facies S cross-stratified sandstones at Drumkeelan Quarry, Mountcharles – Mullaghmore Sst. Fm.



Plate 49 Facies S thinly bedded, well-sorted sandstones with small channel fill at Drumbeagh Quarry, Mountcharles - Mullaghmore Sst. Fm.



Plate 50 Facies S flaggy, well sorted feldspathic sandstones at Drumkeelan Quarry, Mountcharles - Mullaghmore Sandstone Formation.



Plate 51 Facies S well sorted sandstones with straight hinged brachiopod at Drumkeelan Quarry, Mountcharles – Mullaghmore Sst. Fm.



Plate 52 Facies S well sorted sandstones with planispirally-coiled gastropods at Drumkeelan Quarry, Mountcharles – Mullaghmore Sst. Fm.

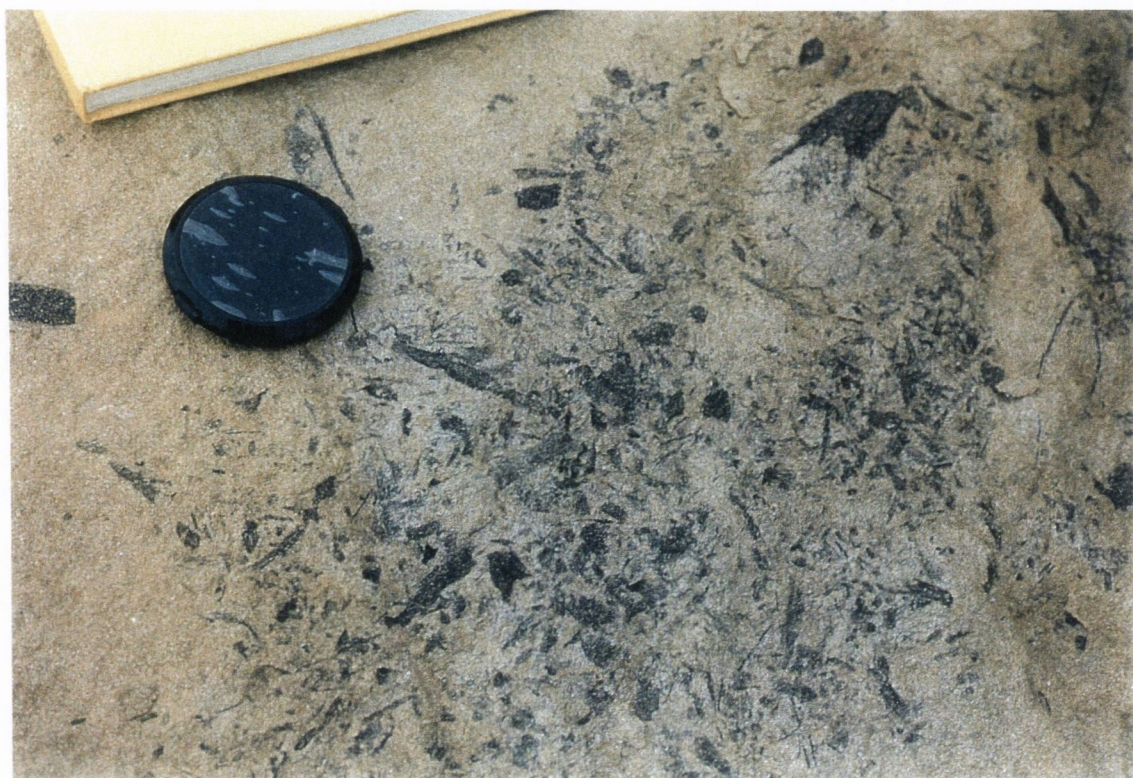


Plate 53 Facies S well sorted sandstones with abundant plant debris at South Mountcharles Quarry, Mountcharles – Mullaghmore Sst. Fm.



Plate 54 Facies T micaceous sandstones and siltstones with abundant plant debris at quarry west of Mountcharles – Mullaghmore Sst. Fm.



Plate 55 *Taenidium barreti* (*Beaconites barreti*) on sandstone surface at Shalwy – Largsillagh Sandstone Formation.



Plate 56 Roelough Conglomerate Fm. overlain by Largsillagh Sst. Fm. as shown, Shalwy.



Plate 57 Contact as in Pl 56 - Facies D mudstone and siltstones & Facies B sandstones (Largysillagh Sst Fm.) over Roelough Conglomerate Fm.



Plate 58 Thin bedded lensoid sandstones over Facies A conglomerates at Ballyloughan - Oily River Conglomerate Formation.



Plate 59 Wedge bedded, cross-stratified, red sandstones with erosional surfaces exposed in Oily River - Oily River Conglomerate Formation.



Plate 60 Close-up of Pl59, cross-stratified sandstones in Oily River - Oily River Conglomerate Formation.



Plate 61 Faulted contact Dalradian pelites (left) and ^{Oily River}~~Reelough~~ Conglomerate Formation (in quarry on Killybegs road - Bruckless).



Plate 62 Channel complex at Killaghtee, McSwyne's Bay – Largsillagh Sandstone Formation.



Plate 63 Overall geometry at Shalwy of Facies F IHS overlain by Facies C bipolar sandstones and Facies G tabular sandstones– Shalwy Formation..



Plate 64 Preserved channel fill of Facies B sandstones over Facies J mudstones & micrite at Shalwy - Shalwy Formation.



Plate 65 'Syringopora Bed' at Killaghtee, McSwyne's Bay - Shalwy Formation.



Plate 66

Contact between Largsillagh Sst. Fm. & Shalwy Formation occurs as shown,
Castle Port



Plate 67 Channel margin infilled by sandstone and siltstone lenses at Castle Port – Shalwy Formation.



Plate 68 Cross-stratified, bipolar? coarse-grained sandstones with preserved ripples at Castle Port – Shalwy Formation. - *see Figure 67 above for scale.*



Plate 69 Solitary set of cross-stratified, well-sorted sandstones, north of Kiln Port – Shalwy Formation.



Plate 70 Green fields delineating presence of underlying Calhame Limestone Member in landscape at Calhame.



Plate 71 Wavy texture in limestones at Calhame - Calhame Limestone Member.



Plate 72 Straight-hinged brachiopods – *Delepinea* ? at Kiln Port- Rinn Point Limestone Formation.



Plate 73 Caninioid coral at Ballysaggart, St. John's Peninsula - Rinn Point Limestone Formation.



Plate 74 *Zoophycus* trace fossil on argillaceous limestone surface at St. John's Peninsula - Rinn Point Limestone Formation.



Plate 75 'Bioherm', east of Shalwy Point - Rinn Point Limestone Formation.



Plate 76 *Solenodendron* coral, east of Shalwy Point - Rinn Point Limestone Formation.

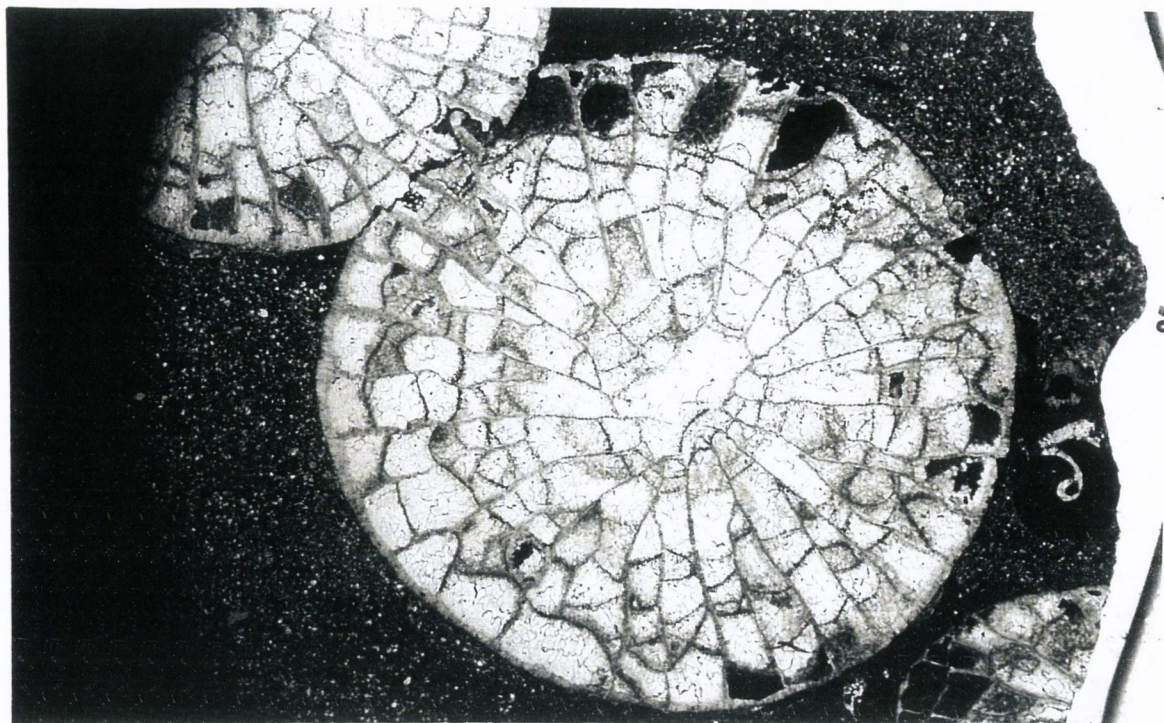


Plate 77 *Solenodendron* coral under microscope, east of Shalwy Point - Rinn Point Limestone Formation (diameter c. 1 cm).

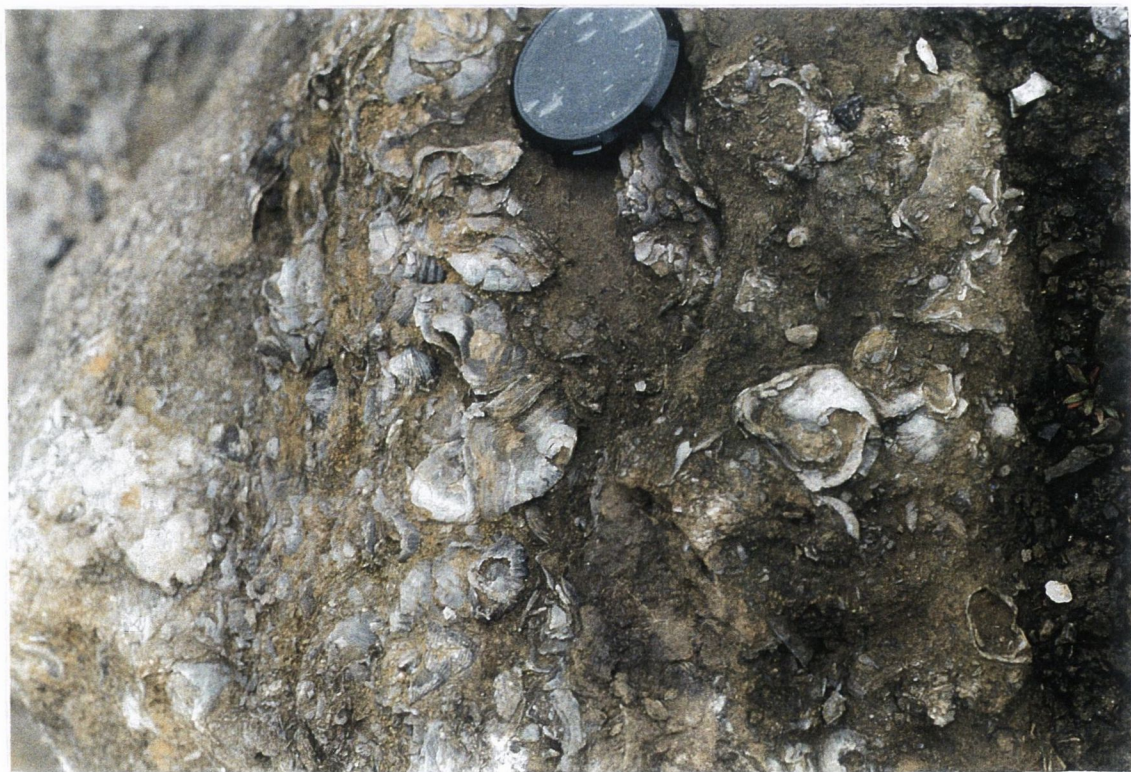


Plate 78 Fossiliferous debris within sandy limestones at St. John's Point -- Gullhuch Sandy Limestone Member.



Plate 79 Burrowed horizon at St. John's Point – Gullhuch Sandy Limestone Member.



Plate 80 Fault at Dough Cove, St. John's Pt – Gullhuch Sandy Ls. Mbr to right (E), Rabley Ls. Mbr. to left (W).



Plate 81 Fault at Cavan Point, SE of Dunkineely - Cavan Sandstone Member to right (N), Rinn Pt. Ls. Fm. to left (S)



Plate 82 Tabular sandstone beds north of fault at Cavan Point, SE of Dunkineely - Cavan Sandstone Member



Plate 83 Facies G sandstones with parallel lamination and ripples, SE of Dunkineely - Cavan Sandstone Member.



Plate 84 Irregular lensoid beds with erosional surfaces, SE of Dunkineely - Cavan Sandstone Member.



Plate 85 *Rhizocorallium* trace fossil in sandstones, SE of Dunkineely - Cavan Sandstone Member.



Plate 86 Facies G well sorted generally tabular calcareous sandstones with small channel fill at Muckros Head - Muckros Sandstone Formation.



Plate 87 Trough axis in sandstones at Muckros Head – Muckros Sandstone Formation.



Plate 88 Limestones (Rinn Pt Ls. Fm.) in lower half overlain by Muckros Sst. Fm. – core of Shalwy Syncline.



Plate 89 Immature pebbly sandstones – Carboniferous Outlier on Slieve League.



Plate 90 *Stigmaria* roots with sandstones – Carboniferous Outlier on Slieve League.



Plate 91 Immature clast supported conglomerates in Edergole Stream - Edergole Formation.



Plate 92 Gorge section in Edergole Stream - Edergole Formation.

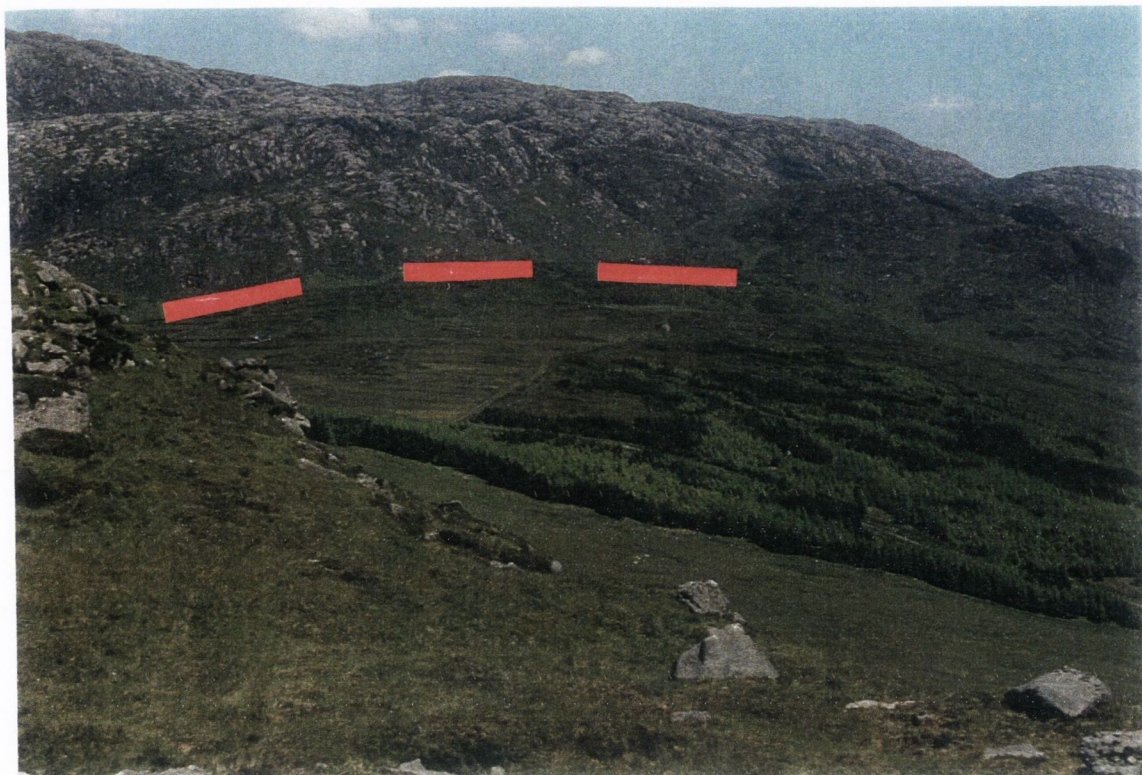


Plate 93 Blue Stack Mountains in background with Northern Boundary Fault separating Carboniferous rocks in foreground – north of Lough Eske.



Plate 94 Sandstones over shales at Owenboy – Lough Eske Sandstone Formation ?



Plate 95 Argillaceous limestone and fissile calcareous shales in River Eske – Donegal Limestone Member.



Plate 96 Wavy bedded to nodular limestone at Banagher Hill – Clady Limestone Member.



Plate 97 Gastropods etched on limestone surface at Banagher Hill – Clady Limestone Member.



Plate 98 Change in landscape – Banagher Sst. Fm. in upper half of section over Clady Ls. Mbr. at Banagher Hill.



Plate 99 Cut-bank channel fill over thin bedded sandstones at Banagher Hill – Banagher Sandstone Formation.



Plate 100 Cut-bank channel fill overlain by shales with ostracods at Ramp Hole – Ramp Hole Sandstone Member. Sandstone beds c. 1 metre thick.



Plate 101 'Ball and pillar' structure within coarse sandstones at Ramp Hole – Ramp Hole Sandstone Member.



Plate 102 Microfolds in ostracod rich shales at Ramp Hole – Bundoran Shale Formation.



Plate 103 Facies G well sorted sandstone with ripples over shales with nodules - at Portachurry - Ramp Hole Sandstone Member.



Plate 104 Facies H coarse-grained, calcareous sandstone at Portachurry - Ramp Hole Sandstone Member.



Plate 105 Ramp Hole Sst. Mbr. to foreground and Bundoran Shale Fm. in background – Portachurry, Doorin Peninsula.



Plate 106 Immature Facies A conglomerates at Killin Hill - Killin Sandstone Member



Plate 107 Immature coarse-grained arkosic sandstone at Sallows – Killin Sandstone Member.



Plate 108a



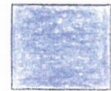
Plate 108b

Archaeodiscid foraminifers from the Bundoran Shale Formation

Plate 108a Sample 96-35, TCD No. 50678

Plate 108b Sample L248, TCD No. 50541

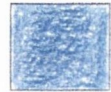
COLOUR CODES TO ENCLOSURE MAPS



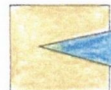
Bundoran Shale Formation



St. John's Point Sandy Limestone Formation
with Cavan Sandstone Member



Rinn Point Limestone Formation



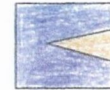
Shalwy Formation
with '*Syringopora* Bed' &
Calhame Limestone Member



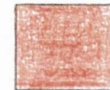
Largysillagh Sandstone Formation



Oily River Conglomerate Formation



Bundoran Shale Formation
with Killin Sandstone Member



Banagher Sandstone Formation



Clady Limestone Member*



Donegal Limestone Member*

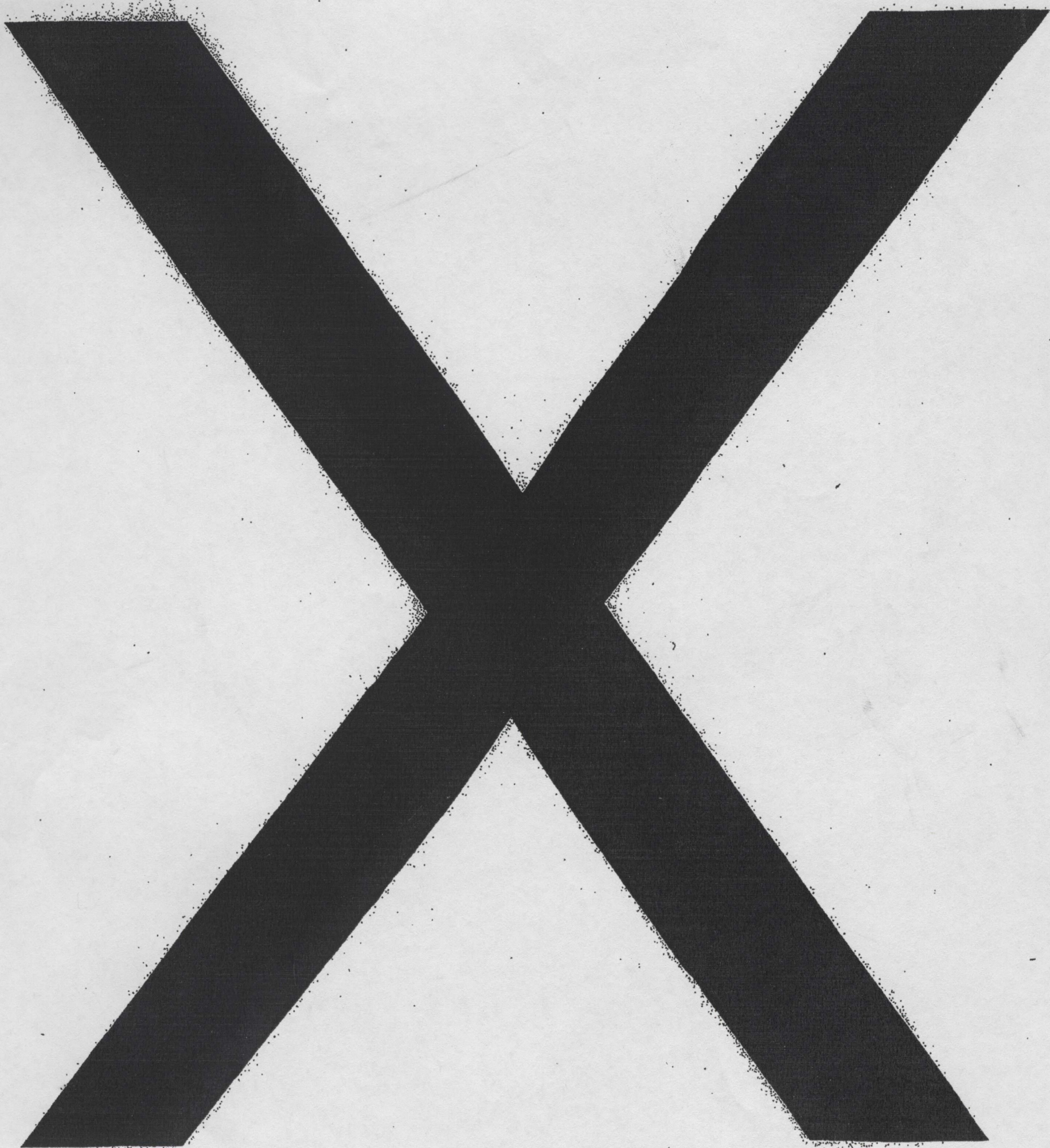


Greenan Sandstone Formation

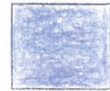


Edergole Formation

* part of Ballyshannon Limestone Formation



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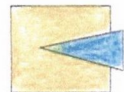
Bundoran Shale Formation



St. John's Point Sandy Limestone Formation
with Cavan Sandstone Member



Rinn Point Limestone Formation



Shalwy Formation
with 'Syringopora Bed' &
Calhame Limestone Member



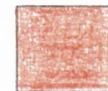
Largysillagh Sandstone Formation



Oily River Conglomerate Formation



Bundoran Shale Formation
with Killin Sandstone Member



Banagher Sandstone Formation



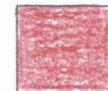
Clady Limestone Member*



Donegal Limestone Member*



Greenan Sandstone Formation

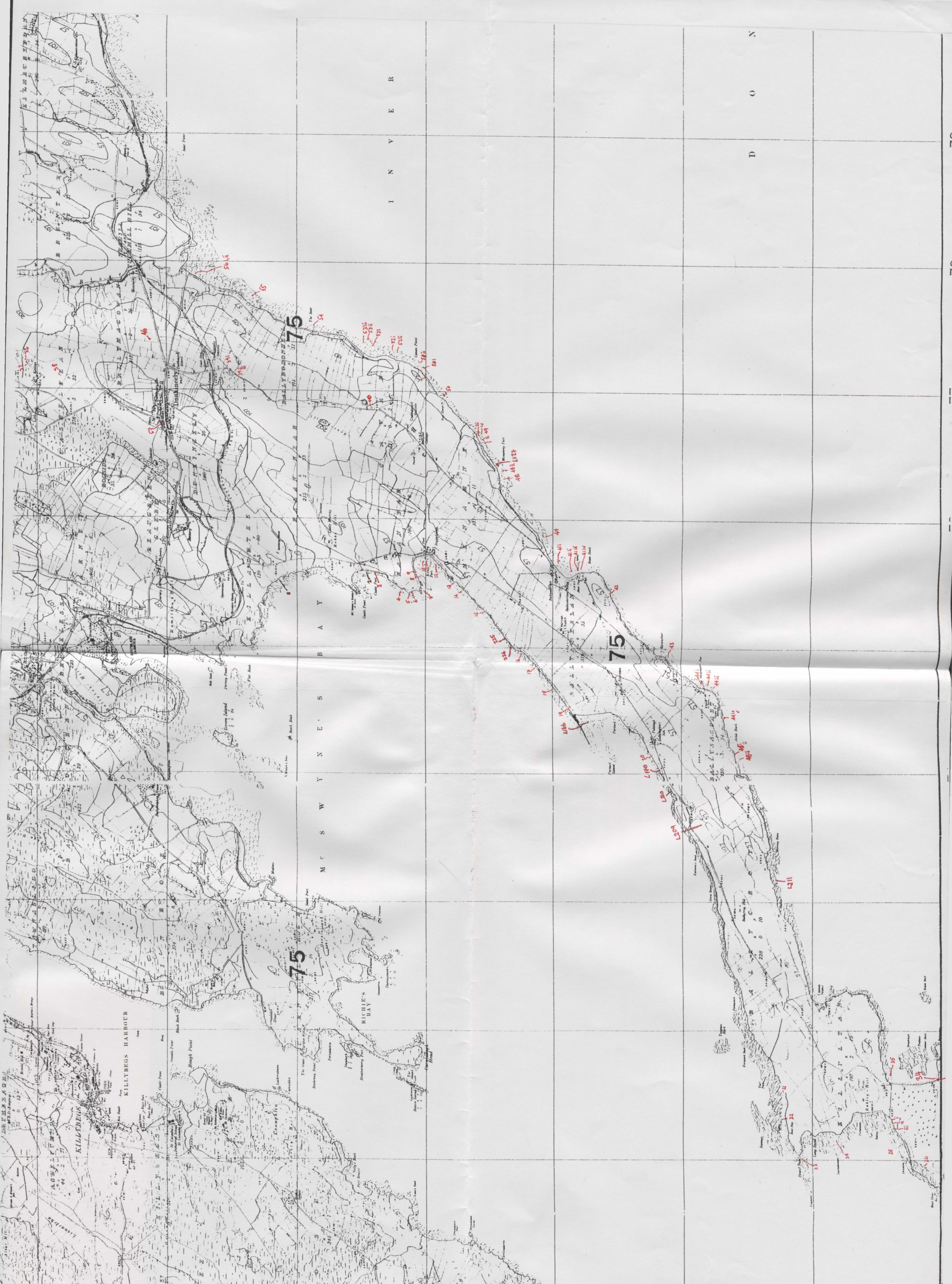


Edergole Formation

* part of Ballyshannon Limestone Formation



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Surface of Water 423.0 25th March 1904

M E E N A C U R R I N
(L.D. Inver)

KILLIN
SANDSTONE
MEMBER

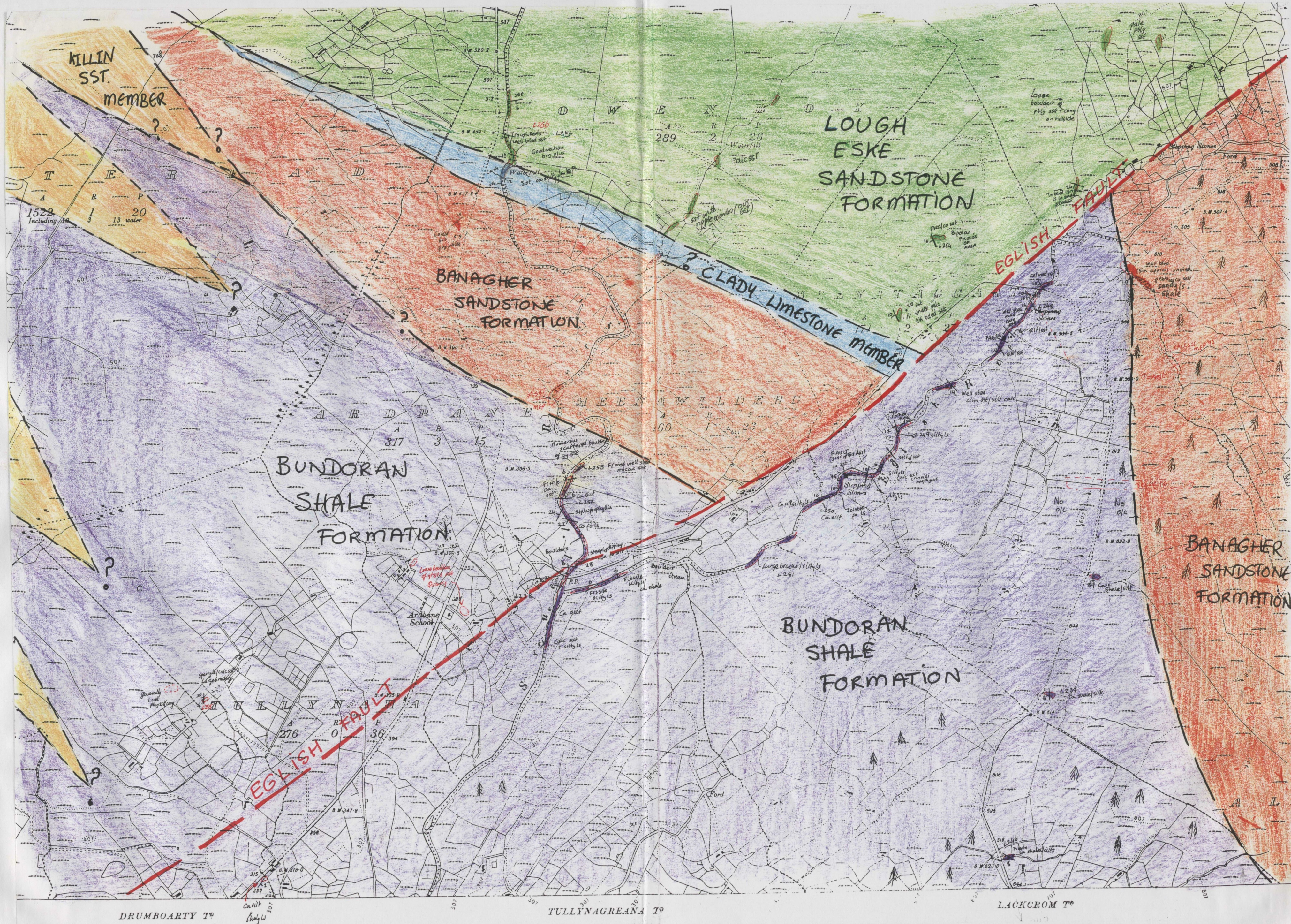
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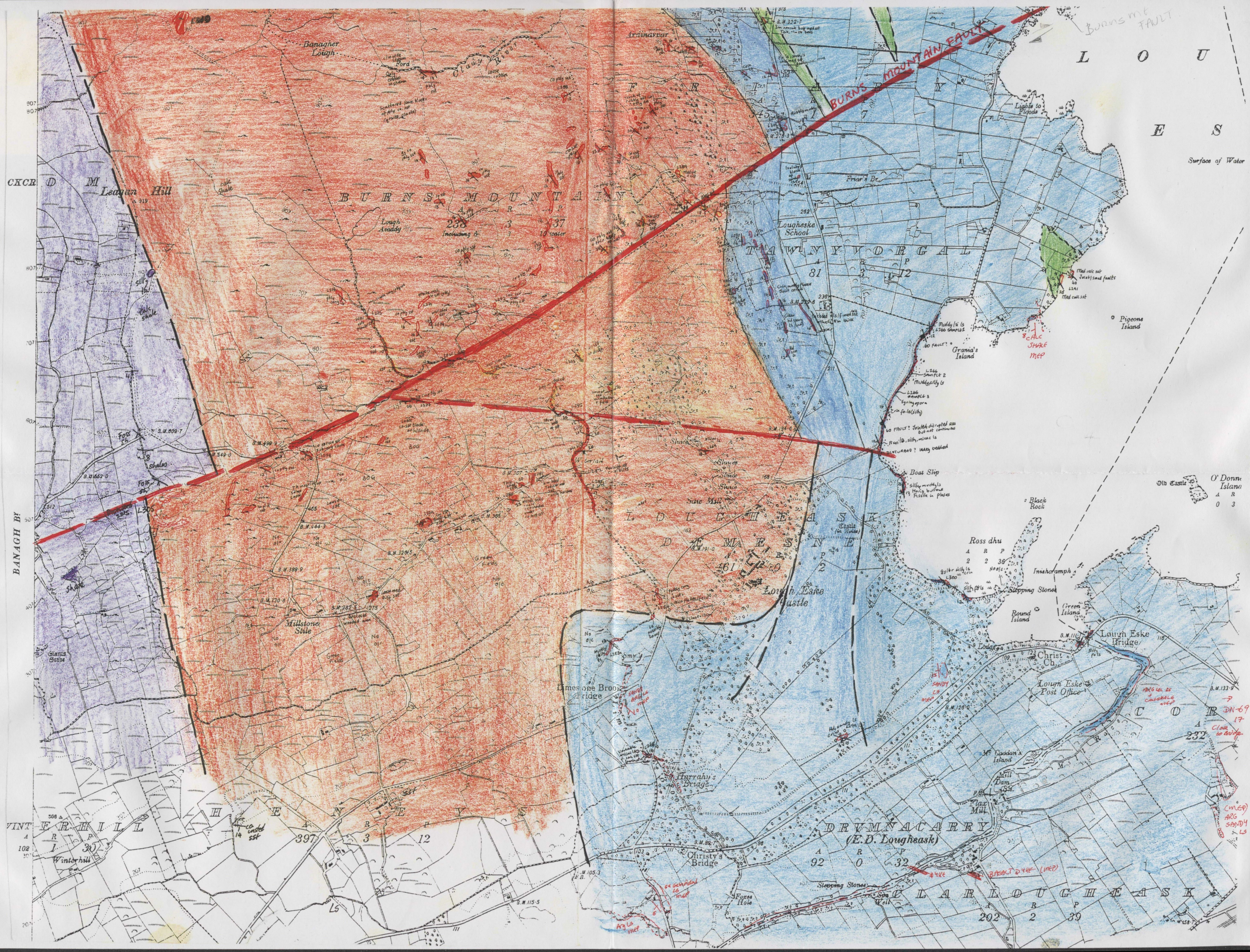
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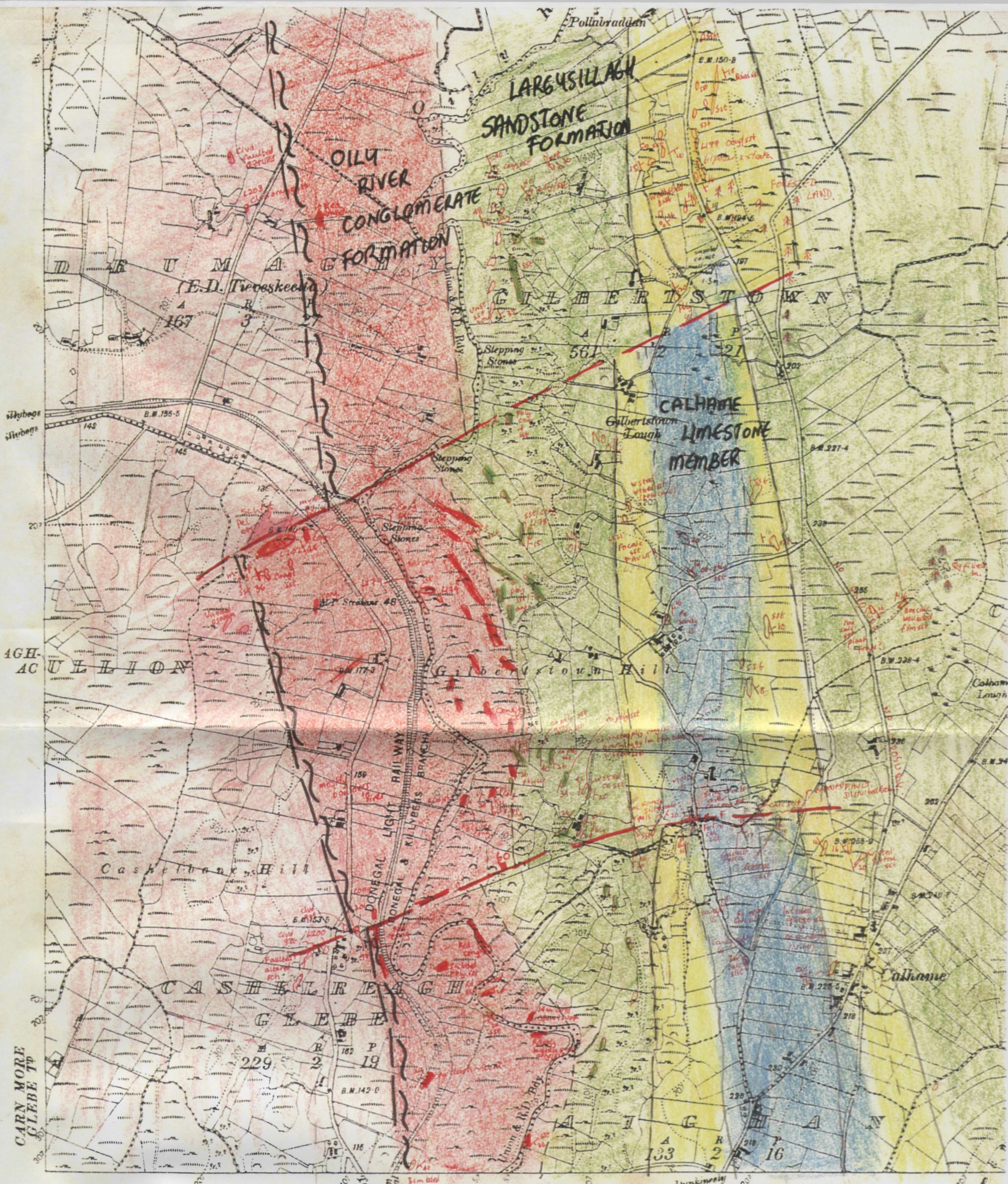
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DRUMLAGHTAFIN

DRUMNACAPPA
DRUMNACARRY







BALLYLOUGHAN TP

Surveyed in 1835. Revised in 1904.

CHARACTERISTICS AND SYMBOLS

County	-----	Townland	-----
Barony	-----	Municipal Wards	-----
Parish	-----	Contours	200

Enclosure 4.4

Oily River/Calhame/ Gilbertstown

The representation on this Map of a Road, Track, or Footpath, is no evidence of the ex



ENGLISH FAULT

DALRADIAN
META SEDIMENTS

EDERGOLE
FORMATION

BANAGHER
SANDSTONE
FORMATION

CLADY
Limestone
member

CLADY
Limestone
member

CLADY
Limestone
member

DONEGAL
Limestone
member

FAULT

4L 1091
Including 0 3 15
water



THESIS
5871.2

COLOUR CODES TO ENCLOSURE MAPS



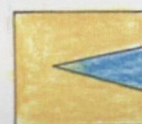
Bundoran Shale Formation



St. John's Point Sandy Limestone Formation
with Cavan Sandstone Member



Rinn Point Limestone Formation



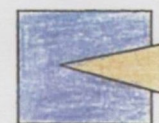
Shalwy Formation
with 'Syringopora Bed' &
Calhame Limestone Member



Largysillagh Sandstone Formation



Oily River Conglomerate Formation



Bundoran Shale Formation
with Killin Sandstone Member



Banagher Sandstone Formation



Clady Limestone Member*



Donegal Limestone Member*



Greenan Sandstone Formation



Edergole Formation

* part of Ballyshannon Limestone Formation