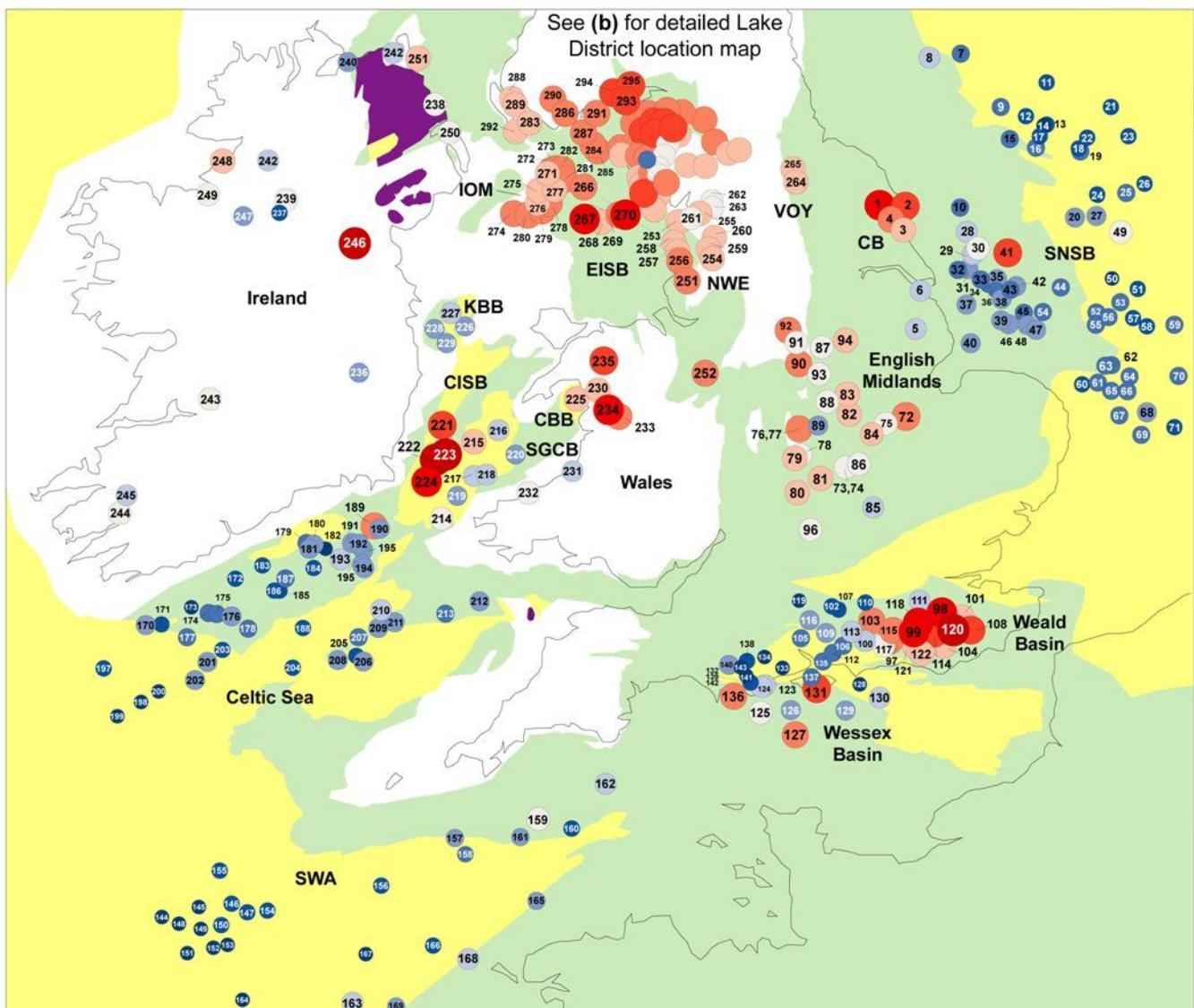


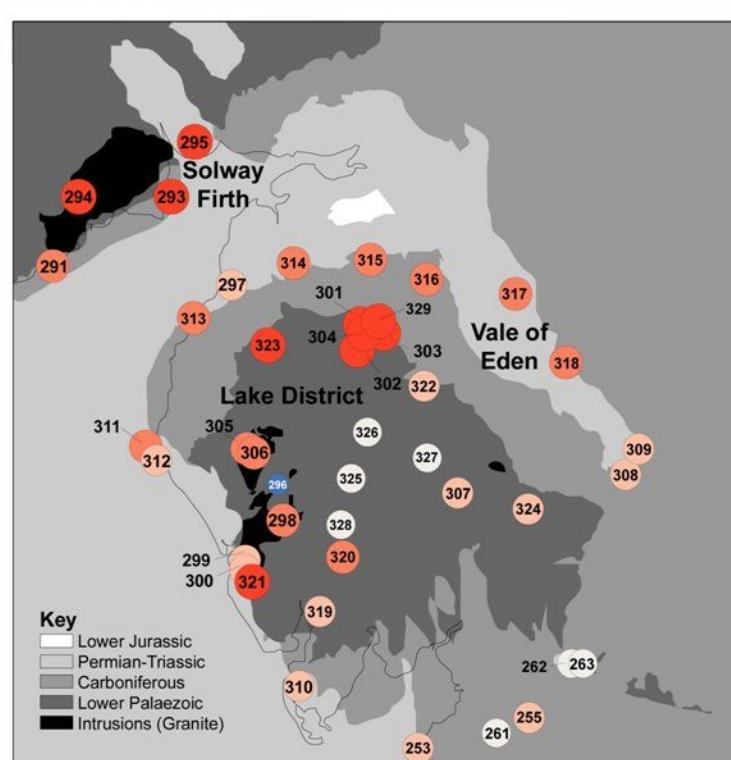
# Hillis et al Figure DR1

DR2008093

(a)



(b)



**TABLE DR1. COMPILED EXHUMATION ESTIMATES FOR THE SOUTHERN BRITISH ISLES**

Basin/Region*	Well/borehole/sample name <sup>†</sup>	Number <sup>§</sup>	Gross exhumation <sup>#</sup> (meters) <sup>**</sup>	Net exhumation (metres)/(Quaternary reburial (metres)) <sup>††</sup>	Timing <sup>§§</sup>	Method <sup>##</sup>	Reference	Shown in Figure
<u>Cleveland Basin (CB)</u>	Outcrop sample #1	1	2000	2000 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Menpes and Hillis (1995)	1, 3
	Outcrop sample #4	2	1970	1970 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Menpes and Hillis (1995)	1, 3
	Barmston-1	3	1460	1460 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Menpes and Hillis (1995)	1, 3
	Rudston-1	4	1640	1640 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Menpes and Hillis (1995)	1, 3
<u>Southern North Sea Basin (SNSB) **</u>	Biscathorpe-1	5	1000		Cenozoic (beginning in Paleogene (65-55 Ma))	AFTA	Green et al. (2005)	1, 3
	Cleethorps-1	6	1000		Cenozoic (beginning in Paleogene (65-55 Ma))	AFTA	Green et al. (2005)	1, 3
	36/23-1	7	606	606 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1
	36/26-1	8	1007	1007 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1
	42/10a-1	9	618	518 (100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1
	42/28-2	10	730	730 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
	43/3-1	11	443	203 (240)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1
	43/7-1	12	508	378 (130)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1
	43/8-1	13	509	349 (160)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1
	43/8a-3	14	370	210 (160)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1
	43/11-1	15	775	775 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1
	43/12-1	16	604	484 (120)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1
	43/13a-1	17	502	372 (130)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1
	43/15-1	18	444	244 (200)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1
	43/20-1	19	636	436 (200)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1
	43/30-1	20	837	677 (160)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
	44/7-1	21	483	93 (390)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1

44/11-1	22	533	293 (240)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1
44/14-1	23	511	21 (490)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1
44/21-1	24	580	385 (195)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
44/23-3	25	745	395 (350)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
44/24-1	26	516	91 (425)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
44/26-1	27	835	555 (280)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
47/3-2	28	1024	1024 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
47/9-2	29	1100	1100 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
47/9b-4	30	1232	1232 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
47/13-1	31	962	962 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
47/13-2	32	674	674 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
47/14-1	33	703	703 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
47/14-2	34	681	681 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
47/15-1	35	853	853 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
47/15-2	36	594	594 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
47/18-1	37	845	845 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
47/20-1	38	830	830 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
47/25-1	39	800		Cenozoic (beginning in Paleogene (65–55 Ma))	AFTA	Green et al. (2005)	1, 3
47/29a-1	40	800		Cenozoic (beginning in Paleogene (65–55 Ma))	AFTA	Green et al. (2005)	1, 3
48/6-5	41	1900		Cenozoic (beginning in Paleogene (65–55 Ma))	AFTA	Green et al. (2005)	1, 3
48/11-1	42	824	824 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
48/11-2	43	714	714 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
48/14-1	44	676	576 (100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
48/17-1	45	601	601 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
48/21-2	46	889	889 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
48/22-2	47	800		Cenozoic (beginning in	AFTA	Green et al. (2005)	1, 3

				Paleogene (65-55 Ma))			
48/22-3	48	857	857 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
49/2-1	49	1251	1001 (250)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
49/12-6	50	312	92 (220)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
49/13-1	51	549	249 (300)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
49/16-1	52	641	511 (130)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
49/17-2	53	653	453 (200)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
49/18-3	54	634	404 (230)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
49/21-5	55	669	559 (110)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
49/22-1	56	607	447 (160)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
49/23-1	57	591	371 (220)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
49/24-1	58	415	135 (280)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
50/21-1	59	663	223 (440)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
52/5-11	60	561	561 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
53/1-2	61	613	483 (130)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
53/2-2	62	784	604 (180)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
53/2-3	63	772	612 (160)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
53/3-1	64	692	462 (230)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
53/7-1	65	716	526 (190)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
53/8-1	66	728	498 (230)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
53/12-1	67	631	441 (190)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
53/14-1	68	808	508 (300)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
53/19a-1	69	736	546 (190)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
54/1-1	70	682	232 (450)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3
54/11-1	71	585	295 (290)	Cenozoic	Chalk (Cretaceous) compaction	Japsen (2000)	1, 3

<u>English Midlands</u>	#21 (Dogsthorpe Brick Pit)	72	1700	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1, 3	
	#22 (New Dunston Quarry)	73	1300	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	#23 (New Dunston Quarry)	74	1300	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	#25 (Ring Haw Quarry)	75	1350	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1, 3	
	#34 (Judkins Quarry)	76	1620	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	#35 (Judkins Quarry)	77	1620	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	#36 (Quarryfield House Qu.)	78	1250	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	#37 (Quarry Bank)	79	1440	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	#38 (Winderton Road)	80	1440	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	#39 (Stowe Nine Churches Qu.)	81	1440	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	#40 (Tilton Railway Cutting)	82	1440	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	#41 (Brown's Hill Quarry)	83	1500	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	#43 (Geddington Grange Qu.)	84	1440	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	#44 (Chamberlains Barn Pit)	85	1165	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	#45 (Ecton North Lodge)	86	1210	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	#46 (Berry Hill Quarry)	87	1060	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	#47 (Cocklaw Quarry)	88	1250	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	#49 (Enderby Quarry)	89	880	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	#50 (Milford Quarry)	90	1600	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	#51 (Slack Hill)	91	1375	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	#52 (Gordon's Edge)	92	1600	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	#53 (Bramcote, Notts)	93	1250	Paleogene (65-55) and Neogene (25-0 Ma)	AFTA	Green et al. (2001b)	1	
	Rufford-1	94	1400	Early (65-60) and Late (40-5 Ma) Cenozoic	AFTA	Green et al. (2001b)	1	
<u>Weald Basin</u>	Alfold	95	644	644 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
	Apley Barn-1	96	1300		Late Cenozoic (30-0 Ma)	AFTA	Green et al. (2001b)	1, 2
	Ashington	97	1635	1635 (<100)	Miocene	Oxford Clay (Jurassic)	This study, Butler and	1, 2

Ashour	98	2171	2171 (<100)	Miocene	compaction Oxford Clay (Jurassic) compaction	Pullan (1990) This study, Butler and Pullan (1990)	1, 2
Balcombe	99	2157	2157 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Baxter's Copse	100	1088	1088 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Detention	101	1492	1492 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Farleigh Wallop	102	527	527 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Godley Bridge	103	1620	1620 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Hellingley	104	1403	1403 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Hoe	105	618	618 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Horndean	106	747	747 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Humbly Grove	107	562	562 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Iden Green	108	1968	1968 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Lomer	109	859	859 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Normandy	110	500	500 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Palmers Wood	111	1151	1151 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Potwell	112	731	731 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Rogate	113	1184	1184 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Rotherfield	114	1947	1947 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Southwater	115	1599	1599 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Stockbridge	116	854	854 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Storrington	117	1228	1228 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Turner's Hill	118	2098	2098 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Upper Enham	119	357	357 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Wallcrouch	120	2276	2276 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Westmeston	121	1532	1532 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2
Wineham	122	1396	1396 (<100)	Miocene	Oxford Clay (Jurassic) compaction	This study, Butler and Pullan (1990)	1, 2

<u>Wessex Basin</u>	98/11-1	123	1083	1083 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1, 2
	98/11-2	124	1074	1074 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1, 2
	98/16-1	125	1241	1241 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1, 2
	98/18-1	126	815	815 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1, 2
	98/23-1	127	1756	1756 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1
	99/12-1	128	287	287 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1, 2
	99/16-1	129	1271	1271 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1, 2
	99/18-1	130	1125	1125 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1, 2
	Arreton-2	131	1841	1841 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1, 2
	Bushey Farm-A1	132	287	287 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1, 2
	Bransgore-1	133	177	177 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1, 2
	Hurn-1	134	195	195 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1, 2
	Lee-on-Solent-1	135	674	674 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1, 2
Lulworth Banks	136	1700	1700 (<100)	Neogene	AFTA	Bray et al. (1998)	1, 2	
Sandhills-1	137	753	753 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1, 2	
Spetisbury-1	138	460	460 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1, 2	
Stoborough-1	139	254	254 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1, 2	
Waddock Cross-1	140	902	902 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1, 2	
Wareham-1	141	250	250 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1, 2	
Wytch Farm-D5	142	539	539 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1, 2	
Winterbourne Kingston-1	143	147	147 (<100)	Miocene	Oxford Clay (Jurassic) compaction	Law (1998)	1, 2	
<u>South West Approaches (SWA)</u>	72/10-1a	144	300	300 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
	73/2-1	145	270	270 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several	Menpes (1997)	1

73/4-1	146	490	490 (<100)	Cenozoic	Mesozoic stratigraphic units) Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
73/5-1	147	450	450 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
73/6-1	148	220	220 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
73/7-1	149	340	340 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
73/8-1	150	510	510 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
73/12-1a	151	390	390 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
73/13-1	152	110	110 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
73/14-1	153	330	330 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
74/1-1a	154	570	570 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
83/24-1	155	570	570 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic	Menpes (1997)	1

85/28-1	156	430	430 (<100)	Cenozoic	stratigraphic units) Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
86/17-1	157	840	840 (<100)	Cenozoic	stratigraphic units) Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
86/18-1	158	680	680 (<100)	Cenozoic	stratigraphic units) Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
87/12-1a	159	1220	1220 (<100)	Cenozoic	stratigraphic units) Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
87/14-1	160	780	780 (<100)	Cenozoic	stratigraphic units) Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
87/16-1	161	850	850 (<100)	Cenozoic	stratigraphic units) Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
88/2-1	162	1030	1030 (<100)	Cenozoic	stratigraphic units) Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
Brezell-1	163	1100	1100 (<100)	Cenozoic	stratigraphic units) Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
Kerluz-1	164	230	230 (<100)	Cenozoic	stratigraphic units) Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
Lennket-1	165	880	880 (<100)	Cenozoic	stratigraphic units) Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1

Lizenn-1	166	440	440 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
Rea Gwenn-1	167	80	80 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
Travank-1	168	1090	1090 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
Yar Vor-1	169	960	960 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
<u>Celtic Sea</u>							
47/29-1	170	830	830 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
47/30-1	171	580	580 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Murdoch et al. (1995)	1
48/19-1	172	580	580 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
48/22-1	173	252	252 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Murdoch et al. (1995)	1
48/23-1	174	677	677 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Murdoch et al. (1995)	1
48/24-1	175	787	787 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Murdoch et al. (1995)	1
48/24-2	176	907	907 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Murdoch et al. (1995)	1
48/26-1	177	600	600 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
48/30-1	178	670	670 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1

49/9-1	179	690	690 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
49/9-2	180	890	890 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
49/9-3	181	840	840 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
49/10-1	182	294	294 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Murdoch et al. (1995)	1
49/11-1	183	573	573 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Murdoch et al. (1995)	1
49/14-3	184	520	520 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
49/16-1	185	557	557 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Murdoch et al. (1995)	1
49/16-2	186	557	557 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Murdoch et al. (1995)	1
49/17-1	187	632	632 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Murdoch et al. (1995)	1
49/29-1	188	540	540 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
50/3-1	189	1660	1660 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1, 4
50/3-2	190	990	990 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1, 4
50/6-1	191	960	960 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
50/7-1	192	950	950 (<100)	Cenozoic	Compaction (mean of	Menpes (1997)	1

50/11-2	193	1079	1079 (<100)	Cenozoic	sonic velocity data from several Mesozoic stratigraphic units)	Chalk (Cretaceous) compaction	Murdoch et al. (1995)	1
50/12-1	194	860	860 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
50/12-2	195	806	806 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Chalk (Cretaceous) compaction	Murdoch et al. (1995)	1
50/12-2a	196	860	860 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
56/12-1	197	419	419 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Chalk (Cretaceous) compaction	Murdoch et al. (1995)	1
56/14-1	198	390	390 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
56/18-1	199	310	310 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
56/20-1	200	287	287 (<100)	Cenozoic	Chalk (Cretaceous) compaction	Chalk (Cretaceous) compaction	Murdoch et al. (1995)	1
57/2-1	201	820	820 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
57/7-1	202	850	850 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
57/9-1	203	550	550 (<100)	Cenozoic	AFTA, VR	AFTA, VR	Murdoch et al. (1995)	1
58/3-1	204	540	540 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1
93/2-1	205	560	560 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several	Compaction (mean of sonic velocity data from several	Menpes (1997)	1

					Mesozoic stratigraphic units)			
93/2-2	206	860	860 (<100)	Cenozoic	Mercia Mudstone (Triassic) compaction	Williams (2002)	1	
93/2-3	207	600	600 (<100)	Cenozoic	Mercia Mudstone (Triassic) compaction	Williams (2002)	1	
93/6-1	208	920	920 (<100)	Cenozoic	Mercia Mudstone (Triassic) compaction	Williams (2002)	1	
102/28-1	209	830	830 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1	
102/28-2	210	1040	940 (100)	Cenozoic	Mercia Mudstone (Triassic) compaction	Williams (2002)	1	
102/29-1	211	900	900 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1	
103/18-1	212	950	950 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1	
103/21-1	213	760	760 (<100)	Cenozoic	Compaction (mean of sonic velocity data from several Mesozoic stratigraphic units)	Menpes (1997)	1	
St. George's Channel Basin (SGCB)	103/2-1	214	1330	1330 (<100)	Neogene (<20 Ma)	Mercia Mudstone (Triassic) compaction	Williams (2002)	1, 4
	106/18-1	215	1490	1390 (100)	Neogene (<20 Ma)	Mercia Mudstone (Triassic) compaction	Williams (2002)	1, 4
	106/20-1	216	1100	1000 (100)	Neogene (<20 Ma)	Mercia Mudstone (Triassic) compaction	Williams (2002)	1, 4
	106/24-1	217	1000		Neogene (<20 Ma)	AFTA, VR	Holford et al. (2007)	1, 4
	106/24a-2b	218	1000		Neogene (<20 Ma)	AFTA, VR	Holford et al. (2007)	1, 4
	106/28-1	219	800		Neogene (<20 Ma)	AFTA, VR	Holford et al. (2007)	1, 4
	107/16-1	220	800		Neogene (<20 Ma)	AFTA, VR	Holford et al. (2007)	1, 4

<u>Central Irish Sea Basin (CISB) <sup>†††</sup></u>	42/12-1	221	1800	Late Cretaceous-Paleogene (70-55) and Neogene (25-0 Ma)	AFTA, VR	Green et al. (2001a)	1, 4
	42/16-1	222	2300	Late Cretaceous-Paleogene (70-55) and Neogene (25-0 Ma)	AFTA, VR	Green et al. (2001a)	1, 4
	42/17-1	223	2300	Late Cretaceous-Paleogene (70-55) and Neogene (25-0 Ma)	AFTA, VR	Green et al. (2001a)	1, 4
	42/21-1	224	2000	Late Cretaceous-Paleogene (70-55) and Neogene (25-0 Ma)	AFTA, VR	Green et al. (2001a)	1, 4
<u>Cardigan Bay Basin (CBB) <sup>§§§</sup></u>	Mochras borehole	225	1500	Neogene (<20 Ma)	AFTA, VR, compaction	Holford et al. (2005a)	1, 4
<u>Kish Bank Basin (KBB)</u>	33/17-1	226	800	Cenozoic	AFTA	Geotrack (1995)	1, 4
	33/17-2a	227	1000	Cenozoic	AFTA	Geotrack (1997)	1, 4
	33/21-1	228	800	Cenozoic	AFTA	Geotrack (1995)	1, 4
	33/22-1	229	800	Cenozoic	AFTA	Geotrack (1995)	1, 4
<u>Wales</u>	Harlech Dome	230	1400	Post-Paleocene (40-20 Ma)	AFTA	Holford (2006)	1
	GC399-18 (Ceredigion)	231	1000	Cenozoic	AFTA	Williams et al. (2005)	1, 4
	GC399-19 (Pembrokeshire)	232	1300	Cenozoic	AFTA	Williams et al. (2005)	1, 4
	RD35-2 (Foel)	233	1600	Post-Paleocene (<40 Ma)	AFTA	Holford (2006)	1
	RD35-3 (Ochry Bwlch)	234	2100	Post-Paleocene (<45 Ma)	AFTA	Holford (2006)	1
	RD35-9 (Petrefaelas)	235	1950	Post-Paleocene (45-10 Ma)	AFTA	Holford (2006)	1
<u>Ireland</u>	Ballyragget-1 borehole	236	760	Post-Paleocene (35-10 Ma)	AFTA	Green et al. (2000)	1
	Dowra-1 borehole	237	500	Paleocene (65-60) and Neogene (25-15 Ma)	AFTA	Green et al. (2000)	1
	Larne-2 well	238	1200	Post-Paleocene (35-5 Ma)	AFTA	Holford (2006)	1
	MacNean-2 borehole	239	1300	Post-Paleocene (35-0 Ma)	AFTA	Green et al. (2000)	1
	Magilligan-1 borehole	240	900	Cenozoic	AFTA	Green et al. (2000)	1
	Port More-1 borehole	241	1000	Cenozoic	AFTA	Green et al. (2000)	1
	Slisgarrown-1	242	1000	Paleocene (65-60) and Neogene (25-15 Ma)	AFTA	Green et al. (2000)	1
	GC345-1 (Silvermines)	243	1280	Cenozoic	AFTA	Green et al. (2000)	1
	GC345-2 (Moll's Gap,	244	1280	Post-Paleocene (50-0 Ma)	AFTA	Green et al. (2000)	1

Killamey)							
GC345-3 (Moll's Gap, Killamey)	245	1140		Post-Paleocene (50-0 Ma)	AFTA	Green et al. (2000)	1
GC345-8 (Kingscourt)	246	2350		Cenozoic	AFTA	Green et al. (2000)	1
GC345-10 (Arigna)	247	860		Cenozoic	AFTA	Green et al. (2000)	1
GC458-1(Sligo Coast)	248	1430		Paleocene (65-60) and Neogene (25-15 Ma)	AFTA	Green et al. (2000)	1
GC458-2 (Sligo Coast)	249	1360		Paleocene (65-60) and Neogene (25-15 Ma)	AFTA	Green et al. (2000)	1
GC543-64 (Craigavad)	250	1280		Paleogene (65-60) and Neogene (25-15 Ma)	AFTA	Green et al. (2000)	1
GC543-72 (Waterfoot)	251	1570		Post-Paleocene (35-0 Ma)	AFTA	Green et al. (2000)	1
<u>North West England (NWE)</u>							
Hesketh-1	251	1650		Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Lewis et al. (1992)	1
Yarnfield-1	252	1700		Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Geotrack (1992a)	1
C870 (Heysham)	253	1500		Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
FF2	254	1500		Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8622-115	255	1500		Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8722-92 (Kirkham)	256	1700		Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8722-93 (Weeton Camp)	257	1500		Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8722-94 (Hambleton)	258	1500		Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8722-95	259	1500		Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8722-97 (Clitheroe)	260	1500		Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8722-102	261	1200		Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8722-114	262	1200		Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8722-115	263	1200		Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
<u>Vale of York (VOY)</u>							
8724-10 (Warlaby sand quarry)	264	1500		Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (1989)	1
8724-29 (River Tees, Croft on Tees)	265	1500		Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (1989)	1
<u>East Irish Sea Basin (EISB)##</u>	112/25-1	266	1640	Paleogene (65-60) and Late Cenozoic (30-5 Ma)	AFTA, VR, compaction	Holford (2006)	1

112/30-1	267	2170	Paleogene (65-60) and Late Cenozoic (30-5 Ma)	AFTA, VR, compaction	Holford (2006)	1
113/26-1	268	1540	Paleogene (65-60) and Late Cenozoic (30-5 Ma)	AFTA, VR, compaction	Holford (2006)	1
113/27-1	269	1640	Paleogene (65-60) and Late Cenozoic (30-5 Ma)	AFTA, VR, compaction	Holford (2006)	1
113/27-2	270	2000	Paleogene (65-60) and Late Cenozoic (30-5 Ma)	AFTA, VR, compaction	Holford (2006)	1
<b>Isle of Man (IOM)****</b>						
GC450-11 (Knoch-e-Dooney borehole)	271	1400	Cenozoic	AFTA	Green (2002), Geotrack (1994)	1
GC450-15 (Ballaghanney borehole)	272	1700	Cenozoic	AFTA	Green (2002), Geotrack (1994)	1
GC450-17 (Ballywhane Blue Point b/h)	273	1700	Cenozoic	AFTA	Green (2002), Geotrack (1994)	1
GC450-20 (BGS shallow borehole 71/43)	274	1700	Cenozoic	AFTA	Green (2002), Geotrack (1994)	1
GC450-22 (Coast North of Peel)	275	1400	Cenozoic	AFTA	Green (2002), Geotrack (1994)	1
GC450-23 (Foxdale)	276	1400	Cenozoic	AFTA	Green (2002), Geotrack (1994)	1
GC450-24 (Dhoon)	277	1400	Cenozoic	AFTA	Green (2002), Geotrack (1994)	1
GC450-25 (Marine Drive)	278	1700	Cenozoic	AFTA	Green (2002), Geotrack (1994)	1
GC450-26 (St Ann's Head)	279	1700	Cenozoic	AFTA	Green (2002), Geotrack (1994)	1
GC450-28 ("The Chasms", Cregneash)	280	1700	Cenozoic	AFTA	Green (2002), Geotrack (1994)	1
GC450-49 (Shellag Point borehole)	281	1700	Cenozoic	AFTA	Green (2002), Geotrack (1994)	1
GC450-54 (Shellag North borehole)	282	1700	Cenozoic	AFTA	Green (2002), Geotrack (1994)	1
<b>Solway Firth</b>						
GC403-25 (BGS shallow borehole 70/62)	283	1400	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002), Geotrack (1992b)	1
GC403-26 (BGS shallow borehole 71/61)	284	1700	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002), Geotrack (1992b)	1
GC403-27 (BGS shallow borehole 71/64)	285	1700	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002), Geotrack (1992b)	1
GC403-28 (BGS shallow borehole 71/63)	286	1700	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002), Geotrack (1992b)	1
GC403-29 (BGS shallow borehole 73/50)	287	1700	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002), Geotrack (1992b)	1
GC403-59 (Kirkholm Bay)	288	1400	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002), Geotrack (1992b)	1
GC403-60 (Jamieson Point)	289	1400	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002), Geotrack (1992b)	1
GC403-61 (Cleeton Quarries)	290	1700	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002), Geotrack (1992b)	1

GC403-62 (Rascarrel Bay)	291	1700	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002), Geotrack (1992b)	1
GC403-63 (Portencorkie Bay)	292	1400	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002), Geotrack (1992b)	1
GC403-64 (Powillimount)	293	1800	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002), Geotrack (1992b)	1
GC403-65 (Dalbeattie Quarry)	294	1800	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002), Geotrack (1992b)	1
GC403-66 (Highmains Hill)	295	1800	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002), Geotrack (1992b)	1
<hr/>						
<u>Lake District and Vale of Eden</u>						
Sca Fell	296	700	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
West Newton-1	297	1550	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8424-46 (Eskdale Granite)	298	1700	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (1986)	1
8424-52 (Eskdale Granite)	299	1500	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (1986)	1
8424-53 (Eskdale Granite)	300	1500	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (1986)	1
8424-58 (Carrock Gabbro)	301	1800	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (1986)	1
8424-62 (Skiddaw Granite)	302	1800	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (1986)	1
8424-64 (Carrock Gabbro-Granophyre)	303	1800	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (1986)	1
8424-67 (Carrock Tungsten Mine)	304	1800	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (1986)	1
8424-68 (Ennerdale Granophyre)	305	1700	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (1986)	1
8424-69 (Ennerdale Granophyre)	306	1700	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (1986)	1
8424-71 (Stockdale Rhyolite)	307	1500	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (1986)	1
8824-1 (Kirkby Stephen)	308	1500	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8824-2	309	1500	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8824-4	310	1500	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8824-5 (St Bees Head)	311	1700	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8824-6 (St Bees Head)	312	1500	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8824-7	313	1700	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8824-8	314	1700	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8824-9	315	1700	Cenozoic (beginning in	AFTA	Green (2002)	1

8824-10	316	1700	Paleogene (65-50 Ma) Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8824-15	317	1700	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8824-16	318	1700	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8824-48	319	1500	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8824-49	320	1700	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8824-50 (Corney Fell)	321	1800	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8824-54	322	1500	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8824-57	323	1800	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
8824-58	324	1500	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
GC579-20	325	1200	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
GC579-30	326	1200	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
GC579-39	327	1200	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
GC579-44	328	1200	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1
GC579-50	329	1800	Cenozoic (beginning in Paleogene (65-50 Ma))	AFTA	Green (2002)	1

\* Basins/regions are identified in Data Repository Figure DR3.

<sup>†</sup> For some of the wells and boreholes listed here, multiple estimates of exhumation from separate authors, using different techniques, are available. The estimates listed here are those that we consider most reliable i.e. estimates that are based on actual physical properties of rock samples or units (e.g. measurements of compaction or paleotemperature) as opposed to estimates from e.g. subsidence modeling, seismic velocities or stratigraphic extrapolations, which we consider to be generally less reliable. Estimates based on data from wells and boreholes, where the variation of e.g. compaction and paleotemperature with depth, are considered more reliable than those based on outcrop samples. For exhumation estimates from outcrop samples determined using AFTA, Data Repository Table DR2 contains values of paleotemperatures and paleogeothermal gradients used to calculate exhumation estimates.

<sup>§</sup> Refer to Data Repository Figure DR3 for map showing locations of wells, boreholes and samples.

<sup>#</sup> Gross exhumation, as defined by Corcoran and Doré (2005), refers to the magnitude of erosion which must have occurred at a particular unconformity prior to post-exhumation re-burial. All exhumation estimates from AFTA and VR data represent estimates of gross exhumation. Estimates of exhumation based on sedimentary rock compaction data represent gross estimates where no post-exhumation reburial has occurred. Where reburial has occurred, it is necessary to add the thickness of section deposited during this reburial to the value of net exhumation (see below) in order to derive an estimate of gross exhumation at any particular location. We have calculated corrected values of gross exhumation for locations where estimates of net exhumation based on compaction data are available and where post-exhumation reburial during the Quaternary has exceeded 100 m (assuming a late Neogene timing of exhumation in these areas). Across most of our study area thicknesses of Quaternary sediments are considerably less than 100 m, and Quaternary successions greater than 100 m in thickness are only found in the southern North Sea and St George's Channel basins. In these areas, post-exhumation Quaternary reburial was estimated using Quaternary isopach maps published by the British Geological Survey (Cameron et al., 1992; Tappin et al., 1994).

<sup>\*\*</sup> The resolution of our exhumation estimates varies according to the method used. We judge our compaction-based estimates to have a reliability of  $\pm 200$ -300 m, based on previous studies in the British Isles which have demonstrated this level of precision when multiple lithologies are used (Hillis, 1995). The resolution of exhumation estimates based on paleotemperature (AFTA and VR) data are dependent on both the range of depths over which samples are available and the value of the paleogeothermal gradient. We consider paleotemperature-based exhumation estimates utilizing AFTA and VR data from wells and boreholes to have a resolution of  $\pm 200$ -500 m (Green et al., 2002). Outcrop-based exhumation estimates are judged to have lower precision than this due to the uncertainties regarding paleogeothermal gradients. Our assessment of the precision of our estimates is supported by locations at which multiple methods have been used to calculate exhumation, such as at the Mochras borehole where independent estimates of Cenozoic exhumation based on paleotemperature (AFTA and VR) and compaction data show agreement to within less than 200 m (Holford et al., 2005a).

<sup>††</sup> Net exhumation, as defined by Corcoran and Doré (2005), refers to the difference between present-day burial depth of a reference unit and its maximum burial depth prior to exhumation. Figures in brackets refer to estimates of the thicknesses of sediments deposited during Quaternary reburial, estimated using the approach described above.

<sup>§§</sup>Timing intervals (in brackets) for exhumation estimates based on AFTA data refer to time at which AFTA sample(s) began to cool from a paleotemperature peak (e.g. due to exhumation), within 95% confidence limits. Timing estimates based on compaction data refer to the timing of maximum burial.

<sup>#</sup>The reader is referred to Corcoran and Doré (2005) for a comprehensive review of available techniques used to calculate exhumation magnitudes.

<sup>\*\*</sup>AFTA data from the Sole Pit axis (Green et al., 2005) provide evidence for a pre-Cenozoic exhumation episode, which began during the mid-Cretaceous between 110 and 95 Ma.

<sup>††</sup>AFTA data from the Central Irish Sea Basin (Green et al., 2001a) provide evidence for an early Cretaceous exhumation episode which began between 120 and 115 Ma. Green et al. (2001a) estimated that the preserved rocks within this basin had been more deeply buried by around 3000 meters prior to this exhumation event.

<sup>§§§</sup>AFTA data from the Mochras borehole provide evidence for an early Cretaceous exhumation episode, prior to which the preserved Lower Jurassic sediments at this location were more deeply buried by an additional 2500 meters of section (Holford et al., 2005a). AFTA data from this borehole provide no evidence for early Paleogene cooling at this location.

<sup>###</sup>Wells from the southern parts of the East Irish Sea Basin are dominated by a combination of early Cretaceous (beginning between 120 and 115 Ma) exhumation and early Paleogene hydrothermal affects, and therefore cannot be used to calculate Cenozoic exhumation magnitudes (Green et al., 1997; Holford et al., 2005b).

<sup>\*\*\*\*</sup>AFTA data from the Isle of Man provide evidence for pre-Cenozoic exhumation, which began during the early Cretaceous (140 and 110 Ma) (Holford, 2006; Green et al., 1997).

**TABLE DR2. CALCULATION OF EXHUMATION ESTIMATES FROM AFTA PALEOTEMPERATURE DATA**

Basin/Region	Sample name	Number	Onset of cooling (Ma) <sup>*</sup>	Paleotemperature (°C) <sup>†</sup>	Paleogeothermal gradient (°C km <sup>-1</sup> )	Gross exhumation (km) <sup>§</sup>	Reference
<u>English Midlands<sup>#</sup></u>	#21 (Dogsthorpe Brick Pit)	72	80-0	>80	35	1.7	Green et al. (2001b)
	#22 (New Dunston Quarry)	73	120-0	50-80	35	1.3	Green et al. (2001b)
	#23 (New Dunston Quarry)	74	120-0	50-90	35	1.3	Green et al. (2001b)
	#25 (Ring Haw Quarry)	75	Post-deposition (Late Triassic)	55-80	35	1.35	Green et al. (2001b)
	#34 (Judkins Quarry)	76	190-55	80-90	40	1.62	Green et al. (2001b)
	#35 (Judkins Quarry)	77	140-40	80-90	40	1.62	Green et al. (2001b)
	#36 (Quarryfield House Quarry)	78	70-20	60-80	40	1.25	Green et al. (2001b)
	#37 (Quarry Bank)	79	200-10	65-90	40	1.44	Green et al. (2001b)
	#38 (Winderton Road)	80	120-0	60-80	35	1.44	Green et al. (2001b)
	#39 (Stowe Nine Churches Quarry)	81	130-10	60-80	35	1.44	Green et al. (2001b)
	#40 (Tilton Railway Cutting)	82	120-25	70-85	40	1.44	Green et al. (2001b)
	#41 (Brown's Hill Quarry)	83	145-20	70-90	40	1.50	Green et al. (2001b)
	#43 (Geddington Grange Quarry)	84	90-0	60-80	35	1.44	Green et al. (2001b)
	#44 (Chamberlains Barn Pit)	85	75-0	45-65	30	1.16	Green et al. (2001b)
	#45 (Ecton North Lodge)	86	80-10	55-70	35	1.21	Green et al. (2001b)
	#46 (Berry Hill Quarry)	87	65-20	60-80	40	1.25	Green et al. (2001b)
	#47 (Cocklaw Quarry)	88	65-0	60-80	40	1.25	Green et al. (2001b)
	#49 (Enderby Quarry)	89	300-0	40-70	40	0.88	Green et al. (2001b)
	#50 (Milford Quarry)	90	105-30	80-90	40	1.6	Green et al. (2001b)
	#51 (Slack Hill)	91	65-5	65-85	40	1.38	Green et al. (2001b)
	#52 (Gordon's Edge)	92	105-30	80-90	40	1.6	Green et al. (2001b)
	#53 (Bramcote, Notts)	93	80-10	60-80	40	1.25	Green et al. (2001b)
<u>Wales</u>	GC399-18 (Ceredigion)	231	80-0	45-65	35	1.0	Williams et al. (2005)
	GC399-19 (Pembrokeshire)	232	70-0	55-75	35	1.3	Williams et al. (2005)
	RD35-2 (Foel)	233	40-0	70-80	35	1.6	Holford (2006)
	RD35-3 (Ochry Bwlch)	234	45-0	85-100	35	2.1	Holford (2006)
	RD35-9 (Pentrefoelas)	235	45-10	85-90	35	1.95	Holford (2006)
<u>Ireland</u>	GC345-1 (Silvermines)	243	80-0	35-95	35	1.28	Green et al. (2000)
	GC345-2 (Moll's Gap, Killamey)	244	50-0	60-70	35	1.28	Green et al. (2000)
	GC345-3 (Moll's Gap, Killamey)	245	50-0	50-70	35	1.14	Green et al. (2000)
	GC345-8 (Kingscourt)	246	65-0	100-105	35	2.35	Green et al. (2000)

	GC345-10 (Arigna)	247	80-0	30-70	35	0.86	Green et al. (2000)
	GC458-1 (Sligo Coast)	248	60-15	60-80	35	1.43	Green et al. (2000)
	GC458-2 (Sligo Coast)	249	140-0	50-85	35	1.36	Green et al. (2000)
	GC543-64 (Craigavon)	250	70-0	55-75	35	1.28	Green et al. (2000)
	GC543-72 (Waterfoot)	251	35-0	70-80	35	1.57	Green et al. (2000)
<u>Northwest England**</u>	C870 (Heysham)	253	65-50	95	50	1.5	Green (2002)
	FF2	254	65-50	95	50	1.5	Green (2002)
	8622-115	255	65-50	95	50	1.5	Green (2002)
	8722-92 (Kirkham)	256	65-50	105	50	1.7	Green (2002)
	8722-93 (Weeton Camp)	257	65-50	95	50	1.5	Green (2002)
	8722-94 (Hambleton)	258	65-50	95	50	1.5	Green (2002)
	8722-95	259	65-50	95	50	1.5	Green (2002)
	8722-97 (Clitheroe)	260	65-50	95	50	1.5	Green (2002)
	8722-102	261	65-50	80	50	1.2	Green (2002)
	8722-114	262	65-50	80	50	1.2	Green (2002)
	8722-115	263	65-50	80	50	1.2	Green (2002)
<u>Vale of York</u>	8724-10 (Warlaby sand quarry)	264	65-50	95	50	1.5	Green (1989)
	8724-29 (River Tees, Croft on Tees)	265	65-50	95	50	1.5	Green (1989)
<u>Isle of Man</u>	GC450-11 (Knoch-e-Dooney borehole)	271	65-50	<70	35	1.4	Green (2002), Geotrack (1994)
	GC450-15 (Ballaghenney borehole)	272	65-50	80	35	1.7	Green (2002), Geotrack (1994)
	GC450-17 (Ballywhane Blue Point b/h)	273	65-50	80	35	1.7	Green (2002), Geotrack (1994)
	GC450-20 (BGS shallow borehole 71/43)	274	65-50	80	35	1.7	Green (2002), Geotrack (1994)
	GC450-22 (Coast North of Peel)	275	65-50	<70	35	1.4	Green (2002), Geotrack (1994)
	GC450-23 (Foxdale)	276	65-50	<70	35	1.4	Green (2002), Geotrack (1994)
	GC450-24 (Dhoon)	277	65-50	<70	35	1.4	Green (2002), Geotrack (1994)
	GC450-25 (Marine Drive)	278	65-50	80	35	1.7	Green (2002), Geotrack (1994)
	GC450-26 (St Ann's Head)	279	65-50	80	35	1.7	Green (2002), Geotrack (1994)
	GC450-28 ("The Chasms", Cregneash)	280	65-50	80	35	1.7	Green (2002), Geotrack (1994)
	GC450-49 (Shellag Point borehole)	281	65-50	80	35	1.7	Green (2002), Geotrack (1994)
	GC450-54 (Shellag North borehole)	282	65-50	80	35	1.7	Green (2002), Geotrack (1994)
<u>Solway Firth</u>	GC403-25 (BGS shallow borehole 70/62)	283	65-50	<70	35	1.4	Green (2002), Geotrack (1992b)
	GC403-26 (BGS shallow	284	65-50	80	35	1.7	Green (2002), Geotrack

borehole 71/61)							(1992b)
GC403-27 (BGS shallow borehole 71/64)	285	65-50	80	35	1.7	Green (2002), Geotrack (1992b)	
GC403-28 (BGS shallow borehole 71/63)	286	65-50	80	35	1.7	Green (2002), Geotrack (1992b)	
GC403-29 (BGS shallow borehole 73/50)	287	65-50	80	35	1.7	Green (2002), Geotrack (1992b)	
GC403-59 (Kirkholm Bay)	288	65-50	<70	35	1.4	Green (2002), Geotrack (1992b)	
GC403-60 (Jamieson Point)	289	65-50	<70	35	1.4	Green (2002), Geotrack (1992b)	
GC403-61 (Cleeton Quarries)	290	65-50	80	35	1.7	Green (2002), Geotrack (1992b)	
GC403-62 (Rascarrel Bay)	291	65-50	105	50	1.7	Green (2002), Geotrack (1992b)	
GC403-63 (Portencorkie Bay)	292	65-50	<70	35	1.4	Green (2002), Geotrack (1992b)	
GC403-64 (Powillimount)	293	65-50	110	50	1.8	Green (2002), Geotrack (1992b)	
GC403-65 (Dalbeattie Quarry)	294	65-50	110	50	1.8	Green (2002), Geotrack (1992b)	
GC403-66 (Highmains Hill)	295	65-50	110	50	1.8	Green (2002), Geotrack (1992b)	
<u>Lake District and Vale of Eden</u>							
8424-46 (Eskdale Granite)	298	65-50	105	50	1.7	Green (2002)	
8424-52 (Eskdale Granite)	299	65-50	95	50	1.5	Green (2002)	
8424-53 (Eskdale Granite)	300	65-50	95	50	1.5	Green (1986)	
8424-58 (Carrock Gabbro)	301	65-50	110	50	1.8	Green (1986)	
8424-62 (Skiddaw Granite)	302	65-50	110	50	1.8	Green (1986)	
8424-64 (Carrock Gabbro-Granophyre)	303	65-50	110	50	1.8	Green (1986)	
8424-67 (Carrock Tungsten Mine)	304	65-50	110	50	1.8	Green (1986)	
8424-68 (Ennerdale Granophyre)	305	65-50	105	50	1.7	Green (1986)	
8424-69 (Ennerdale Granophyre)	306	65-50	105	50	1.7	Green (1986)	
8424-71 (Stockdale Rhyolite)	307	65-50	95	50	1.5	Green (1986)	
8824-1 (Kirkby Stephen)	308	65-50	95	50	1.5	Green (1986)	
8824-2	309	65-50	95	50	1.5	Green (1986)	
8824-4	310	65-50	95	50	1.5	Green (2002)	
8824-5 (St Bees Head)	311	65-50	105	50	1.7	Green (2002)	
8824-6 (St Bees Head)	312	65-50	95	50	1.5	Green (2002)	
8824-7	313	65-50	105	50	1.7	Green (2002)	
8824-8	314	65-50	105	50	1.7	Green (2002)	
8824-9	315	65-50	105	50	1.7	Green (2002)	
8824-10	316	65-50	105	50	1.7	Green (2002)	
8824-15	317	65-50	105	50	1.7	Green (2002)	
8824-16	318	65-50	105	50	1.7	Green (2002)	

8824-48	319	65-50	95	50	1.5	Green (2002)
8824-49	320	65-50	105	50	1.7	Green (2002)
8824-50 (Corney Fell)	321	65-50	110	50	1.8	Green (2002)
8824-54	322	65-50	95	50	1.5	Green (2002)
8824-57	323	65-50	110	50	1.8	Green (2002)
8824-58	324	65-50	95	50	1.5	Green (2002)
GC579-20	325	65-50	80	50	1.2	Green (2002)
GC579-30	326	65-50	80	50	1.2	Green (2002)
GC579-39	327	65-50	80	50	1.2	Green (2002)
GC579-44	328	65-50	80	50	1.2	Green (2002)
GC579-50	329	65-50	110	50	1.8	Green (2002)

\*Quoted ranges refer to the interval during which cooling from a paleotemperature peak began. It is not implied that all cooling occurred during the entire interval or that cooling necessarily encompassed the entire interval.

†Paleotemperatures from AFTA data are typically accurate to within 10°C, and precision is usually similar to or better than this. In extracting quantitative paleotemperature information from AFTA it is necessary to assume a heating rate to estimate a specific temperature. Estimates reported here have been determined using heating rates of 1°C Ma<sup>-1</sup> and cooling rates of 10°C Ma<sup>-1</sup>. Changing the assumed heating rate by an order of magnitude is equivalent to a change of c. 10°C in the required maximum paleotemperature.

‡Gross exhumation/removed section (Corcoran and Doré, 2005) has been calculated using the equation  $\Delta Z = Ti - To / (\delta T / \delta Z)$  where  $\Delta Z$  = removed section/net exhumation (km),  $Ti$  = paleotemperature from AFTA sample (°C),  $To$  = paleosurface temperature (°C) and  $\delta T / \delta Z$  = paleogeothermal gradient (°C km<sup>-1</sup>). For all calculations, a constant value of 20°C throughout the Cenozoic has been assumed for  $To$ . Where paleotemperatures are quoted as a range, the average of the minimum and maximum values has been used for  $Ti$ . A value of 35°C km<sup>-1</sup> has been assumed for  $\delta T / \delta Z$  except where specified.

#Cenozoic paleogeothermal gradients for the English Midlands vary from c. 40°C km<sup>-1</sup> in the NW (around Rufford-1) to around 30°C km<sup>-1</sup> in the SE (around Apley Barn-1) (Green et al., 2001b).

\*\* Paleogeothermal gradients for Northwest England, Vale of York, the eastern Solway Firth and Lake District/Vale of Eden are assigned a value of 50°C km<sup>-1</sup> based on the Paleogene paleogeothermal gradient measured in the West Newton-1 well constrained by AFTA and VR data (Green, 2002).

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