APPENDIX 2: STROMATOLITE MATERIAL COLLECTED

N.B. Scale bars in cm and mm. Locality details given in Appendix 1.

STROMATOLITE SAMPLE	SPEC. NO.	LOC. NO.	NOTES
	CGS VNA1	117	Domical core of large stromatolitic dome showing button-like microdomes (laterally-linked hemispheres) on outer surface (See report Figs. 22-23).
	CGS VNA1	117	Lower side of the same specimen. Over parts of the circumference the laminae are recurved inwards.

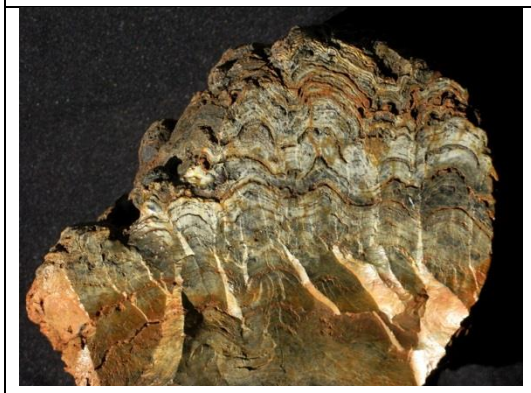
	CGS VNA2	117	Sector of proximal part of large stromatolitic dome surrounding the core (CGS VNA1). Outer laminae recurved round the base to give cushion-like geometry. Outer surface crinkly to sparsely pustular (See report Figs. 22-23).
	CGS VNA3	117	Block from periphery of large stromatolitic dome (same dome as VNA1-VNA7. Lamination undulating but laterally-linked hemisphaeroids not clearly developed in outer part of dome.
	CGS VNA4	117	Block from periphery of large stromatolitic dome (same dome as VNA1-VNA7. Lamination undulating but laterally-linked hemisphaeroids not clearly developed in outer part of dome.

	CGS VNA5	117	Sector of proximal part of large stromatolitic dome surrounding the core (CGS VNA1). Outer laminae recurved round the base to give cushion-like geometry. Outer surface crinkly to sparsely pustular.
	CGS VNA6	117	Sector of proximal part of large stromatolitic dome surrounding the core (CGS VNA1). Outer laminae recurved round the base to give cushion-like geometry.
	CGS VNA7	117	Cross-section through moderately large stromatolitic dome showing smooth to undulose basal laminae with development of laterally-linked hemisphaeroids towards the periphery.

	CGS VNA7	117	Outer surface of same specimen showing small hemispheroids of various sizes in plan view (up to 3 cm in diameter).
	CGS VNA8	132	Medium-sized stromatolitic dome composed entirely of laterally-linked hemisphaeroids.
	CGS VNA9	132	Portion of extensive, irregular stromatolitic sheet composed of laterally-linked hemisphaeroids.

	CGS VNA10	128	Portion of extensive, irregular stromatolitic sheet composed of laterally-linked hemisphaeroids, seen from above.
	CGS VNA10	128	Transverse section through the specimen above showing internal lamination within discrete, small-scale hemisphaeroids (up to *c*. 2 cm diameter).
	CGS VNA10	128	Detail of specimen shown above.

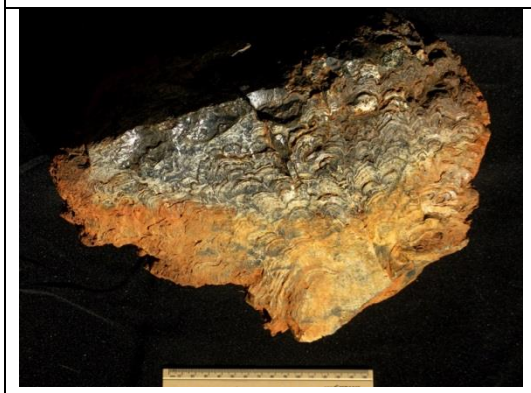
	CGS VNA11	116	Float block of silicified stromatolitic carbonate.
	CGS VNA12	116	Float block of silicified stromatolitic carbonate.
	CGS VNA13	117	Block of stromatolitic rock, dense and silicified showing good stromatolitic lamination at base, with porous, leached, manganese-stained periphery (towards top of image)

	CGS VNA14	217	Portion of medium-sized stromatolitic head (seen on its side, top towards the right; *c*. 17 cm tall). Narrower base (LHS) composed of undulose laminae expanding upwards to form a cauliflower-shaped head built of small laterally-linked hemisphaeroids.
	CGS VNA14	217	Vertical section through stromatolitic head seen above showing clear development of hemisphaeroids towards the periphery (top). Block as seen here is *c*. 17 cm wide.
	CGS VNA15	118	Stromatolitic blocks showing even to undulose internal lamination, clearer and better silicified towards the base. Poor preservation of lamination in periphery might reflect decomposition prior to silicification.

	CGS VNA16	118	Vertical section through well-silicified, medium-sized stromatolitic dome composed of small, laterally-linked hemispheroids.
	CGS VNA17	117	Float block from periphery of large stromatolitic dome showing even to crinkly lamination with development of shallow, button-like hemisphaeroids only at certain intervals.
	CGS VNA17	117	Upper surface of block illustrated above showing smooth to sparsely pustular lamina surface.

	CGS VNA18	117	Vertical section through internal portion of large stromatolitic dome, just peripheral to hemispherical core. The lamination is predominantly wavy to crinkly. Specimen is *c*. 18 cm across.
	CGS VNA19	120	Lateral view of upwardly-expanding cauliflower-headed stromatolite composed of laterally-linked hemispheroids forming pronounced buttons on the upper surface.
	CGS VNA19	120	Vertical section through specimen seen above showing larger hemispheroids towards the base.

	CGS VNA20	967 (Almond 2013 report)	Lateral view of upwardly-expanding, cauliflower-headed stromatolite with undulating laminae building narrower base and wider head made up of small hemisphaeroids. Collected 2013 (S27 02 00.6 E24 47 08.4)
	CGS VNA20	967	Ventral view of specimen illustrated above.
	CGS VNA20	967	Vertical section through specimen illustrated above.

	CGS VNA21	120	Vertical section through stromatolitic cauliflower head.
	CGS VNA22	120	Lateral view of upward-expanding stromatolite with undulating lamination at base and laterally-linked hemisphaeroids building the cauliflower-like head.
	CGS VNA22	120	Vertical section through the specimen illustrated above.

	CGS VNA23	117	Highly-silicified medium-sized stromatolitic dome composed of laterally-linked hemisphaeroids towards the periphery.
	CGS VNA24	117	Float block from large stromatolitic dome showing sharp flexure within even internal lamination (*cf* Wright & Altermann 2000, Fig. 3).
	CGS VNA25	116	Block through well-silicified inner region of a large stromatolitic dome. Laminae are curved inwards round the cushion-shaped base (top of stromatolite towards the RHS). Belongs to same large dome as specimens VNA26-28 (See report fig. 21).

	CGS VNA26	116	Another block from the same internal sector as the specimen above.
	CGS VNA27	116	Domical core of large stromatolitic dome showing button-like microdomes (laterally-linked hemispheres) on outer surface (See report fig. 21).
	CGS VNA27	116	Ventral surface of specimen seen above showing origin of large dome from coalescence of a few small initial microdomes.

	CGS VNA28	116	Sector of inner part of large stromatolitic dome just peripheral to the core with smooth to crinkly lamination.
	CGS VNA29	168	Sizeable block of dark grey silicified carbonate showing lamination at various scales. Potential sample for microfossil analysis.
	CGS VNA29	168	Different view of same block as seen above showing close-up of lamination.